

# UNIVERSITATEA POLITEHNICA DIN BUCURESTI

## FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR DE PREZENTARE LA CONCURS

### – OBȚINEREA ATESTATULUI DE ABILITARE –

CANDIDAT: **Conf. Dr. Ing. Alexandru Mihai GRUMEZESCU**

Departamentul Știința și Ingineria Materialelor Oxidice și Nanomateriale

Facultatea de Chimie Aplicată și Știința Materialelor

| Condiții                                                                                                                                                                                                                                                                 | Îndeplinire condiții                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>A. Doctor</b>                                                                                                                                                                                                                                                         | <b>Diploma de Doctor</b> , în domeniul Inginerie Chimică, nr 44 din 15.01.2014, emisă de Universitatea Politehnica din București în baza Ordinului Ministrului Educației Naționale Nr. 5581 MD, din 03.12.2013.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |
| <b>B. Îndeplinirea standardelor minime naționale conform OMEN nr. 6129/2016; Anexa nr. 8 – Comisia de Inginerie Chimica, Inginerie Medicală, Știința Materialelor și Nanomateriale, Comisia CNATDCU Nr. 8</b>                                                            | Standarde indeplinite, conform Comisiei CNATDCU Nr. 8, Comisia Inginerie Chimică, Inginerie Medicală, Știința Materialelor și Nanomateriale<br>Anexată: Fișa de calcul și de susținere a îndeplinirii standardelor minime specifice domeniului, în acord cu realizările menționate:                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |
| <b>Standarde minimele și obligatorii</b>                                                                                                                                                                                                                                 | <b>Minim prevăzut</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Realizat</b> |
| <b>NTOP</b> – număr total de articole în reviste ISI situate în top 25% (zona roșie) în calitate de autor principal. Situația revistelor în top 25% se judecă pe cazul cel mai favorabil pentru candidat, fie la momentul publicării, fie la data înscrierii la concurs. | <b>≥ 4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>34</b>       |
| <b>NP</b> – număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondență)                                                                                                                                                | <b>≥ 20</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>90</b>       |
| <b>FIC</b> – factor de impact cumulat (suma factorilor de impact ai revistelor la momentul înscrierii la concursul pentru ocuparea unei poziții didactice)                                                                                                               | <b>≥ 30</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>316,9</b>    |
| <b>NC</b> - Număr total de citări din baza SCOPUS (se exclud autocitările candidatului)                                                                                                                                                                                  | <b>≥ 120</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>2569</b>     |
| <b>NCO</b> – număr contracte de cercetare-dezvoltare-inovare obținute prin competiție la nivel național sau internațional ori contracte de cercetare-dezvoltare-inovare cu terții în valoare minimă echivalentă cu 10.000 euro                                           | <b>≥ 1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>1</b>        |
| <b>C. Atestarea studiilor (Diplome + Foi Matricole) și a altor realizări profesionale</b>                                                                                                                                                                                | <b>Diploma de Licență</b> , în domeniul Inginerie Chimică, specializarea <b>Chimia și ingineria substanțelor organice, petrochimie și carbochimie</b> , seria B Nr. 0001590 eliberată în 22.01.2010/Nr. 1590 emisă de Universitatea Politehnica din București<br><b>Diplomă de Master</b> , în domeniul Inginerie Chimică, programul de studii Produse Farmaceutice și Cosmetice, seria A Nr. 0036245 eliberată în 22.03.2012/Nr. 91369 emisă de Universitatea Politehnica din București<br><b>Diplomă de Doctor</b> , în domeniul Inginerie Chimică, nr 44 din 15.01.2014 emisă de Universitatea Politehnica din București în baza Ordinului Ministrului Educației Naționale Nr. 5581 MD, din 03.12.2013. |                 |



**ANEXA LA FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR DE  
PREZENTARE LA CONCURS**

**– OBȚINEREA ATESTATULUI DE ABILITARE –**

**1. NTOP – număr total de articole în reviste ISI situate în top 25% (zona roșie) în calitate de autor principal.**

**Standarde minimale (cumulative): NTOP ≥ 4 conform OMEN nr. 6129/2016; Anexa nr. 8**

| Standarde minimale și obligatorii                                                                                                                                                                                                                                          | Minim prevăzut | Realizat  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| <b>NTOP</b> – număr total de articole în reviste ISI situate în top 25% (zona roșie) în calitate de autor principal.<br>Situția revistelor în top 25% se judecă pe cazul cel mai favorabil pentru candidat, fie la momentul publicării, fie la data înscrierii la concurs. | <b>≥ 4</b>     | <b>34</b> |

Lista a fost realizată în conformitate cu prevederile **conform OMEN nr. 6129/2016; Anexa nr. 8 – Comisia de Inginerie Chimica, Inginerie Medicală, Știința Materialelor și Nanomateriale, Comisia CNATDCU Nr. 8.**

| Nr. crt. | Articole în reviste ISI situate în top 25% (zona roșie) în calitate de autor principal                                                                                                                                                                                                                                                                                                           |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1        | Balaure, P.C.; Andronescu, E.; Grumezescu, A.M.; Fica, A.; Huang, K.S.; Yang, C.H.; Chifiriuc, C.M.; Lin, Y.S. Fabrication, characterization and in vitro profile based interaction with eukaryotic and prokaryotic cells of alginate-chitosan-silica biocomposite. International Journal of Pharmaceutics 2013, 441, 555-561, WOS:000314054200066, 0378-5173, doi 10.1016/j.ijpharm.2012.10.045 |
| 2        | Balaure, P.C.; Boarca, B.; Popescu, R.C.; Savu, D.; Trusca, R.; Vasile, B.S.; Grumezescu, A.M.; Holban, A.M.; Bolocan, A.; Andronescu, E. Bioactive mesoporous silica nanostructures with anti-microbial and anti-biofilm properties. International Journal of Pharmaceutics 2017, 531, 35-46, WOS:000410648200004, 0378-5173, doi 10.1016/j.ijpharm.2017.08.062                                 |
| 3        | Chifiriuc, C.M.; Grumezescu, A.M.; Saviuc, C.; Croitoru, C.; Mihaiescu, D.E.; Lazar, V. Improved antibacterial activity of cephalosporins loaded in magnetic chitosan microspheres. International Journal of Pharmaceutics 2012, 436, 201-205, WOS:000308597600023, 0378-5173, doi 10.1016/j.ijpharm.2012.06.031                                                                                 |
| 4        | Grumezescu, A.M.; Andronescu, E.; Fica, A.; Bleotu, C.; Mihaiescu, D.E.; Chifiriuc, M.C. Synthesis, characterization and in vitro assessment of the magnetic chitosan-carboxymethylcellulose biocomposite interactions with the prokaryotic and eukaryotic cells. International Journal of Pharmaceutics 2012, 436, 771-777, WOS:000308597600085, 0378-5173, doi 10.1016/j.ijpharm.2012.07.063   |
| 5        | Grumezescu, A.M.; Andronescu, E.; Holban, A.M.; Fica, A.; Fica, D.; Voicu, G.; Grumezescu, V.; Balaure, P.C.; Chifiriuc, C.M. Water dispersible cross-linked magnetic chitosan beads for increasing the antimicrobial efficiency of aminoglycoside antibiotics. International Journal of Pharmaceutics 2013, 454, 233-240, WOS:000323854600028, 0378-5173, doi 10.1016/j.ijpharm.2013.06.054     |

| Nr. crt. | Articole in reviste ISI situate in top 25% (zona rosie) in calitate de autor principal                                                                                                                                                                                                                                                                                                                                                                              |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6        | Grumezescu, A.M.; Ghitulica, C.D.; Voicu, G.; Huang, K.S.; Yang, C.H.; Fikai, A.; Vasile, B.S.; Grumezescu, V.; Bleotu, C.; Chifiriuc, M.C. New silica nanostructure for the improved delivery of topical antibiotics used in the treatment of staphylococcal cutaneous infections. <i>International Journal of Pharmaceutics</i> 2014, 463, 170-176, WOS:000331188000008, 0378-5173, doi 10.1016/j.ijpharm.2013.07.016                                             |
| 7        | Grumezescu, A.M.; Holban, A.M.; Andronesu, E.; Mogosanu, G.D.; Vasile, B.S.; Chifiriuc, M.C.; Lazar, V.; Andrei, E.; Constantinescu, A.; Maniu, H. Anionic polymers and 10 nm fe <sub>3</sub> o <sub>4</sub> @ua wound dressings support human foetal stem cells normal development and exhibit great antimicrobial properties. <i>International Journal of Pharmaceutics</i> 2014, 463, 146-154, WOS:000331188000005, 0378-5173, doi 10.1016/j.ijpharm.2013.08.026 |
| 8        | Holban, A.M.; Gestal, M.C.; Grumezescu, A.M. Control of biofilm-associated infections by signaling molecules and nanoparticles. <i>International Journal of Pharmaceutics</i> 2016, 510, 409-418, WOS:000380754500002, 0378-5173, doi 10.1016/j.ijpharm.2016.02.044                                                                                                                                                                                                 |
| 9        | Mogosanu, G.D.; Grumezescu, A.M. Natural and synthetic polymers for wounds and burns dressing. <i>International Journal of Pharmaceutics</i> 2014, 463, 127-136, WOS:000331188000003, 0378-5173, doi 10.1016/j.ijpharm.2013.12.015                                                                                                                                                                                                                                  |
| 10       | Mogosanu, G.D.; Grumezescu, A.M.; Bejenaru, C.; Bejenaru, L.E. Polymeric protective agents for nanoparticles in drug delivery and targeting. <i>International Journal of Pharmaceutics</i> 2016, 510, 419-429, WOS:000380754500003, 0378-5173, doi 10.1016/j.ijpharm.2016.03.014                                                                                                                                                                                    |
| 11       | Voicu, G.; Grumezescu, V.; Andronesu, E.; Grumezescu, A.M.; Fikai, A.; Fikai, D.; Ghitulica, C.D.; Gheorghe, I.; Chifiriuc, M.C. Caprolactam-silica network, a strong potentiator of the antimicrobial activity of kanamycin against gram-positive and gram-negative bacterial strains. <i>International Journal of Pharmaceutics</i> 2013, 446, 63-69, WOS:000316736500008, 0378-5173, doi 10.1016/j.ijpharm.2013.02.011                                           |
| 12       | Grumezescu, V.; Andronesu, E.; Holban, A.M.; Mogoanta, L.; Mogosanu, G.D.; Grumezescu, A.M.; Stanculescu, A.; Socol, G.; Iordache, F.; Maniu, H.; Chifiriuc, M.C. Maple fabrication of thin films based on kanamycin functionalized magnetite nanoparticles with anti-pathogenic properties. <i>Applied Surface Science</i> 2015, 336, 188-195, WOS:000351617600033, 0169-4332, doi 10.1016/j.apsusc.2014.10.177                                                    |
| 13       | Grumezescu, V.; Andronesu, E.; Holban, A.M.; Socol, G.; Grumezescu, A.M.; Fikai, A.; Lazar, V.; Chifiriuc, M.C.; Trusca, R.; Iordache, F. Fabrication and characterization of functionalized surfaces with 3-amino propyltrimethoxysilane films for anti-infective therapy applications. <i>Applied Surface Science</i> 2015, 336, 401-406, WOS:000351617600068, 0169-4332, doi 10.1016/j.apsusc.2015.01.080                                                        |
| 14       | Grumezescu, V.; Holban, A.M.; Iordache, F.; Socol, G.; Mogosanu, G.D.; Grumezescu, A.M.; Fikai, A.; Vasile, B.S.; Trusca, R.; Chifiriuc, M.C.; Maniu, H. Maple fabricated magnetite@eugenol and (3-hidroxybutyric acid-co-3-hidroxyvaleric acid)-polyvinyl alcohol microspheres coated surfaces with anti-microbial properties. <i>Applied Surface Science</i> 2014, 306, 16-22, WOS:000336591500004, 0169-4332, doi 10.1016/j.apsusc.2014.01.126                   |
| 15       | Grumezescu, V.; Socol, G.; Grumezescu, A.M.; Holban, A.M.; Fikai, A.; Trusca, R.;                                                                                                                                                                                                                                                                                                                                                                                   |

| Nr. crt. | Articole in reviste ISI situate in top 25% (zona rosie) in calitate de autor principal                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | Bleotu, C.; Balaure, P.C.; Cristescu, R.; Chifiriuc, M.C. Functionalized antibiofilm thin coatings based on pla-pva microspheres loaded with usnic acid natural compounds fabricated by maple. <i>Applied Surface Science</i> 2014, 302, 262-267, WOS:000333405800053, 0169-4332, doi 10.1016/j.apsusc.2013.09.081                                                                                                                                                                                                    |
| 16       | Iordache, F.; Grumezescu, V.; Grumezescu, A.M.; Curutu, C.; Ditu, L.M.; Socol, G.; Ficai, A.; Trusca, R.; Holban, A.M. Gamma-cyclodextrin/usnic acid thin film fabricated by maple for improving the resistance of medical surfaces to staphylococcus aureus colonization. <i>Applied Surface Science</i> 2015, 336, 407-412, WOS:000351617600069, 0169-4332, doi 10.1016/j.apsusc.2015.01.081                                                                                                                        |
| 17       | Negut, I.; Grumezescu, V.; Ficai, A.; Grumezescu, A.M.; Holban, A.M.; Popescu, R.C.; Savu, D.; Vasile, B.S.; Socol, G. Maple deposition of nigella sativa functionalized fe <sub>3</sub> o <sub>4</sub> nanoparticles for antimicrobial coatings. <i>Applied Surface Science</i> 2018, 455, 513-521, WOS:000438578700061, 0169-4332, doi 10.1016/j.apsusc.2018.05.202                                                                                                                                                 |
| 18       | Radulescu, D.; Grumezescu, V.; Andronescu, E.; Holban, A.M.; Grumezescu, A.M.; Socol, G.; Oprea, A.E.; Radulescu, M.; Surdu, A.; Trusca, R.; Radulescu, R.; Chifiriuc, M.C.; Stan, M.S.; Constanda, S.; Dinischiotu, A. Biocompatible cephalosporin-hydroxyapatite-poly(lactic-co-glycolic acid)-coatings fabricated by maple technique for the prevention of bone implant associated infections. <i>Applied Surface Science</i> 2016, 374, 387-396, WOS:000375937300060, 0169-4332, doi 10.1016/j.apsusc.2016.02.072 |
| 19       | Radulescu, D.; Voicu, G.; Oprea, A.E.; Andronescu, E.; Grumezescu, V.; Holban, A.M.; Vasile, B.S.; Surdu, A.V.; Grumezescu, A.M.; Socol, G.; Mogoanta, L.; Mogosanu, G.D.; Balaure, P.C.; Radulescu, R.; Chifiriuc, M.C. Mesoporous silica coatings for cephalosporin active release at the bone-implant interface. <i>Applied Surface Science</i> 2016, 374, 165-171, WOS:000375937300027, 0169-4332, doi 10.1016/j.apsusc.2015.10.183                                                                               |
| 20       | Stan, M.S.; Constanda, S.; Grumezescu, V.; Andronescu, E.; Ene, A.M.; Holban, A.M.; Vasile, B.S.; Mogoanta, L.; Balseanu, T.A.; Mogosanu, G.D.; Socol, G.; Grumezescu, A.M.; Dinischiotu, A.; Lazar, V.; Chifiriuc, M.C. Thin coatings based on zno@c-18-usnic acid nanoparticles prepared by maple inhibit the development of salmonella enterica early biofilm growth. <i>Applied Surface Science</i> 2016, 374, 318-325, WOS:000375937300049, 0169-4332, doi 10.1016/j.apsusc.2015.12.063                          |
| 21       | Limban, C.; Grumezescu, A.M.; Saviuc, C.; Voicu, G.; Predan, G.; Sakizlian, R.; Chifiriuc, M.C. Optimized anti-pathogenic agents based on core/shell nanostructures and 2-((4-ethylphenoxy)ethyl)-n-(substituted-phenylcarbamoithiyl)-benzamides. <i>International Journal of Molecular Sciences</i> 2012, 13, 12584-12597, WOS:000310677800027, 1661-6596, doi 10.3390/ijms131012584                                                                                                                                 |
| 22       | Grumezescu, A.M.; Stoica, A.E.; Dima-Balcescu, M.S.; Chircov, C.; Gharbia, S.; Balta, C.; Rosu, M.; Herman, H.; Holban, A.M.; Ficai, A.; Vasile, B.S.; Andronescu, E.; Chifiriuc, M.C.; Hermenean, A. Electrospun polyethylene terephthalate nanofibers loaded with silver nanoparticles: Novel approach in anti-infective therapy. <i>Journal of Clinical Medicine</i> 2019, 8, WOS:000479003300123, doi 10.3390/jcm8071039, IF2017 =.                                                                               |
| 23       | Teleanu, R.I.; Chircov, C.; Grumezescu, A.M.; Teleanu, D.M. Tumor angiogenesis                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| Nr. crt. | Articole in reviste ISI situate in top 25% (zona rosie) in calitate de autor principal                                                                                                                                                                                                                                                                                                |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | and anti-angiogenic strategies for cancer treatment. Journal of Clinical Medicine 2020, 9, WOS:000515388400084, doi 10.3390/jcm9010084                                                                                                                                                                                                                                                |
| 24       | Teleanu, D.M.; Chircov, C.; Grumezescu, A.M.; Teleanu, R.I. Neuronanomedicine: An up-to-date overview. Pharmaceutics 2019, 11, WOS:000466897800003, doi 10.3390/pharmaceutics11030101                                                                                                                                                                                                 |
| 25       | Teleanu, R.I.; Gherasim, O.; Gherasim, T.G.; Grumezescu, V.; Grumezescu, A.M.; Teleanu, D.M. Nanomaterial-based approaches for neural regeneration. Pharmaceutics 2019, 11, WOS:000475330500018, doi 10.3390/pharmaceutics11060266                                                                                                                                                    |
| 26       | Radulescu, M.; Andronescu, E.; Holban, A.M.; Vasile, B.S.; Iordache, F.; Mogoanta, L.; Mogosanu, G.D.; Grumezescu, A.M.; Georgescu, M.; Chifiriuc, M.C. Antimicrobial nanostructured bioactive coating based on fe3o4 and patchouli oil for wound dressing. Metals 2016, 6, WOS:000378861000009, doi 10.3390/met6050103                                                               |
| 27       | Grumezescu, A.M.; Cristescu, R.; Chifiriuc, M.C.; Dorcioman, G.; Socol, G.; Mihailescu, I.N.; Mihaiescu, D.E.; Fikai, A.; Vasile, O.R.; Enculescu, M.; Chrisey, D.B. Fabrication of magnetite-based core-shell coated nanoparticles with antibacterial properties. Biofabrication 2015, 7, WOS:000353341000015, 1758-5082, doi 10.1088/1758-5090/7/1/015014                           |
| 28       | Anghel, I.; Grumezescu, A.M. Hybrid nanostructured coating for increased resistance of prosthetic devices to staphylococcal colonization. Nanoscale Research Letters 2013, 8, 1-6, WOS:000316273800001, 1931-7573, doi 10.1186/1556-276x-8-6                                                                                                                                          |
| 29       | Anghel, I.; Grumezescu, A.M.; Andronescu, E.; Anghel, A.G.; Fikai, A.; Saviuc, C.; Grumezescu, V.; Vasile, B.S.; Chifiriuc, M.C. Magnetite nanoparticles for functionalized textile dressing to prevent fungal biofilms development. Nanoscale Research Letters 2012, 7, WOS:000310951100001, 1931-7573, doi 10.1186/1556-276x-7-501                                                  |
| 30       | Anghel, I.; Holban, A.M.; Grumezescu, A.M.; Andronescu, E.; Fikai, A.; Anghel, A.G.; Maganu, M.; Lazar, V.; Chifiriuc, M.C. Modified wound dressing with phyto-nanostructured coating to prevent staphylococcal and pseudomonal biofilm development. Nanoscale Research Letters 2012, 7, 1-8, WOS:000314703400001, 1931-7573, doi 10.1186/1556-276x-7-690                             |
| 31       | Anghel, I.; Limban, C.; Grumezescu, A.M.; Anghel, A.G.; Bleotu, C.; Chifiriuc, M.C. In vitro evaluation of anti-pathogenic surface coating nanofluid, obtained by combining fe3o4/c-12 nanostructures and 2-((4-ethylphenoxy)methyl)-n-(substituted-phenylcarbamothioyl)-benzamide s. Nanoscale Research Letters 2012, 7, WOS:000310383300001, 1931-7573, doi 10.1186/1556-276x-7-513 |
| 32       | Chifiriuc, C.; Grumezescu, V.; Grumezescu, A.M.; Saviuc, C.; Lazar, V.; Andronescu, E. Hybrid magnetite nanoparticles/rosmarinus officinalis essential oil nanobiosystem with antibiofilm activity. Nanoscale Research Letters 2012, 7, WOS:000305237100001, 1556-276X, doi 10.1186/1556-276x-7-209                                                                                   |
| 33       | Balaure, P.C.; Grumezescu, A.M. Methods for synthesizing the macromolecular constituents of smart nanosized carriers for controlled drug delivery. Current Medicinal Chemistry 2014, 21, 3333-3374, WOS:000341968600004, 0929-8673, doi 10.2174/0929867321666140304103437                                                                                                             |
| 34       | Holban, A.M.; Gestal, M.C.; Grumezescu, A.M. New molecular strategies for                                                                                                                                                                                                                                                                                                             |

| Nr. crt. | Articole in reviste ISI situate in top 25% (zona rosie) in calitate de autor principal                                                                                             |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | reducing implantable medical devices associated infections. Current Medicinal Chemistry 2014, 21, 3375-3382, WOS:000341968600005, 0929-8673, doi 10.2174/0929867321666140304103810 |

19.11.2020

Conf.Dr.Ing. Alexandru Mihai GRUMEZESCU



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PREZENTARE LA CONCURS**

**– OBȚINEREA ATESTATULUI DE ABILITARE –**

**2. NP – număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondență),**

**Standarde minimale (cumulative) NP ≥ 20 conform OMEN nr. 6129/2016; Anexa nr. 8**

| Standarde minimale și obligatorii                                                                                  | Minim prevăzut | Realizat  |
|--------------------------------------------------------------------------------------------------------------------|----------------|-----------|
| NP – număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondență) | <b>≥ 20</b>    | <b>90</b> |

Lista a fost realizată în conformitate cu prevederile **OMEN nr. 6129/2016; Anexa nr. 8 – Comisia de Inginerie Chimică, Inginerie Medicală, Știința Materialelor și Nanomateriale, Comisia CNATDCU Nr. 8.**

| Nr. Crt. | Articole în care candidatul este autor principal (prim autor sau autor de corespondență)                                                                                                                                                                                                                                                                                                          |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1        | Balaure, P.C.; Andronescu, E.; Grumezescu, A.M.; Fikai, A.; Huang, K.S.; Yang, C.H.; Chifiriuc, C.M.; Lin, Y.S. Fabrication, characterization and in vitro profile based interaction with eukaryotic and prokaryotic cells of alginate-chitosan-silica biocomposite. International Journal of Pharmaceutics 2013, 441, 555-561, WOS:000314054200066, 0378-5173, doi 10.1016/j.ijpharm.2012.10.045 |
| 2        | Balaure, P.C.; Boarca, B.; Popescu, R.C.; Savu, D.; Trusca, R.; Vasile, B.S.; Grumezescu, A.M.; Holban, A.M.; Bolocan, A.; Andronescu, E. Bioactive mesoporous silica nanostructures with anti-microbial and anti-biofilm properties. International Journal of Pharmaceutics 2017, 531, 35-46, WOS:000410648200004, 0378-5173, doi 10.1016/j.ijpharm.2017.08.062                                  |
| 3        | Chifiriuc, C.M.; Grumezescu, A.M.; Saviuc, C.; Croitoru, C.; Mihaiescu, D.E.; Lazar, V. Improved antibacterial activity of cephalosporins loaded in magnetic chitosan microspheres. International Journal of Pharmaceutics 2012, 436, 201-205, WOS:000308597600023, 0378-5173, doi 10.1016/j.ijpharm.2012.06.031                                                                                  |
| 4        | Grumezescu, A.M.; Andronescu, E.; Fikai, A.; Bleotu, C.; Mihaiescu, D.E.; Chifiriuc, M.C. Synthesis, characterization and in vitro assessment of the magnetic chitosan-carboxymethylcellulose biocomposite interactions with the prokaryotic and eukaryotic cells. International Journal of Pharmaceutics 2012, 436, 771-777, WOS:000308597600085, 0378-5173, doi 10.1016/j.ijpharm.2012.07.063   |
| 5        | Grumezescu, A.M.; Andronescu, E.; Holban, A.M.; Fikai, A.; Fikai, D.; Voicu, G.; Grumezescu, V.; Balaure, P.C.; Chifiriuc, C.M. Water dispersible cross-linked magnetic chitosan beads for increasing the antimicrobial efficiency of aminoglycoside antibiotics. International Journal of Pharmaceutics 2013, 454, 233-240, WOS:000323854600028, 0378-5173, doi 10.1016/j.ijpharm.2013.06.054    |
| 6        | Grumezescu, A.M.; Ghitulica, C.D.; Voicu, G.; Huang, K.S.; Yang, C.H.; Fikai, A.; Vasile, B.S.; Grumezescu, V.; Bleotu, C.; Chifiriuc, M.C. New silica nanostructure                                                                                                                                                                                                                              |

| Nr. Crt. | Articole în care candidatul este autor principal (prim autor sau autor de corespondență)                                                                                                                                                                                                                                                                                                                                                                      |
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| Nr. Crt. | Articole în care candidatul este autor principal (prim autor sau autor de corespondență)                                                                                                                                                                                                                                                                                                                                                       |
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| 84       | Istrate, C.M.; Holban, A.M.; Grumezescu, A.M.; Mogoanta, L.; Mogosanu, G.D.; Savopol, T.; Moisesescu, M.; Iordache, M.; Vasile, B.S.; Kovacs, E. Iron oxide nanoparticles modulate the interaction of different antibiotics with cellular membranes. Romanian Journal Of Morphology And Embryology 2014, 55, 849-856, WOS:000344040000013, 1220-0522                                                                                           |
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| Nr. Crt. | Articole în care candidatul este autor principal (prim autor sau autor de corespondență)                                                                                                                                                                                                                                                                                                                                                  |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | WOS:000362801600001, 1220-0522                                                                                                                                                                                                                                                                                                                                                                                                            |
| 88       | Radulescu, M.; Andronescu, E.; Cirja, A.; Holban, A.M.; Mogoanta, L.; Balseanu, T.A.; Catalin, B.; Neagu, T.P.; Lascar, I.; Florea, D.A.; Grumezescu, A.M.; Ciubuca, B.; Lazar, V.; Chifiriuc, M.C.; Bolocan, A. Antimicrobial coatings based on zinc oxide and orange oil for improved bioactive wound dressings and other applications. Romanian Journal Of Morphology And Embryology 2016, 57, 107-114, WOS:000376048800012, 1220-0522 |
| 89       | Voicu, G.; Anghel, A.G.; Badea, M.; Bordei, E.; Crantea, G.; Gavrilă, R.I.; Grecu, A.; Jercan, D.A.M.; Nicolae, B.C.; Vochitoaia, G.C.; Tchinda, K.; Holban, A.M.; Bleotu, C.; Grumezescu, A.M. Silica network improve the effect of fludarabine and paclitaxel on hct8 cell line. Romanian Journal Of Morphology And Embryology 2014, 55, 545-551, WOS:000342868500006, 1220-0522                                                        |
| 90       | Voicu, G.; Crica, L.E.; Fufa, O.; Moraru, L.I.; Popescu, R.C.; Purcel, G.; Stoilescu, M.C.; Grumezescu, A.M.; Bleotu, C.; Holban, A.M.; Andronescu, E. Magnetite nanostructures functionalized with cytostatic drugs exhibit great anti-tumoral properties without application of high amplitude alternating magnetic fields. Romanian Journal Of Morphology And Embryology 2014, 55, 357-362, WOS:000338329700016, 1220-0522             |

19.11.2020

Conf.Dr.Ing. Alexandru Mihai GRUMEZESCU





**ANEXA LA FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR DE  
PREZENTARE LA CONCURS**

**– OBȚINEREA ATESTATULUI DE ABILITARE –**

**3. FIC – factor de impact cumulat (suma factorilor de impact ai revistelor la momentul înscrierii la concursul pentru ocuparea unei poziții didactice).**

**Standarde minimale (cumulative): FIC  $\geq 30$  conform OMEN nr. 6129/2016; Anexa nr. 8**

| Standarde minimale și obligatorii                                                                                                                          | Minim prevăzut              | Realizat        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------|
| <b>FIC – factor de impact cumulat (suma factorilor de impact ai revistelor la momentul înscrierii la concursul pentru ocuparea unei poziții didactice)</b> | <b><math>\geq 30</math></b> | <b>316,9063</b> |

Lista a fost realizată în conformitate cu prevederile **OMEN nr. 6129/2016; Anexa nr. 8 – Inginerie Chimică, Inginerie Medicală, Știința Materialelor și Nanomateriale, Comisia CNATDCU Nr. 8.**

*In acest caz in calculul FIC se ține seama de factorul de impact al revistei la care candidatul a publicat un articol ca autor principal și respectiv de factorul de impact împărțit la numărul de autori pentru revistele în care candidatul a publicat un articol în care nu este autor principal.*

**A.P. = Autor principal**

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                                                                           | FI    | Nr. autori | FIC      |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|----------|
| 1        | Balaure, P.C.; Andronescu, E.; Grumezescu, A.M.; Fikai, A.; Huang, K.S.; Yang, C.H.; Chifiriuc, C.M.; Lin, Y.S. Fabrication, characterization and in vitro profile based interaction with eukaryotic and prokaryotic cells of alginate-chitosan-silica biocomposite. International Journal of Pharmaceutics 2013, 441, 555-561, WOS:000314054200066, 0378-5173, doi 10.1016/j.ijpharm.2012.10.045 | 4,845 | A.P.       | 4,845    |
| 2        | Balaure, P.C.; Boarca, B.; Popescu, R.C.; Savu, D.; Trusca, R.; Vasile, B.S.; Grumezescu, A.M.; Holban, A.M.; Bolocan, A.; Andronescu, E. Bioactive mesoporous silica nanostructures with anti-microbial and anti-biofilm properties. International Journal of Pharmaceutics 2017, 531, 35-46, WOS:000410648200004, 0378-5173, doi 10.1016/j.ijpharm.2017.08.062                                  | 4,845 | A.P.       | 4,845    |
| 3        | Balaure, P.C.; Holban, A.M.; Grumezescu, A.M.; Mogosanu, G.D.; Balseanu, T.A.; Stan, M.S.; Dinischiotu, A.; Volceanov, A.; Mogoanta, L. In vitro and in vivo studies of novel fabricated                                                                                                                                                                                                          | 4,845 | 9          | 0,538333 |

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                                                                                         | FI    | Nr. autori | FIC     |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|---------|
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| 4        | Balaure, P.C.; Popa, R.A.; Grumezescu, A.M.; Voicu, G.; Radulescu, M.; Mogoanta, L.; Balseanu, T.A.; Mogosanu, G.D.; Chifiriuc, M.C.; Bleotu, C.; Holban, A.M.; Bolocan, A. Biocompatible hybrid silica nanobiocomposites for the efficient delivery of anti-staphylococcal drugs. International Journal of Pharmaceutics 2016, 510, 532-542, WOS:000380754500016, 0378-5173, doi 10.1016/j.ijpharm.2016.03.037 | 4,845 | 12         | 0,40375 |
| 5        | Chifiriuc, C.M.; Grumezescu, A.M.; Saviuc, C.; Croitoru, C.; Mihaiescu, D.E.; Lazar, V. Improved antibacterial activity of cephalosporins loaded in magnetic chitosan microspheres. International Journal of Pharmaceutics 2012, 436, 201-205, WOS:000308597600023, 0378-5173, doi 10.1016/j.ijpharm.2012.06.031                                                                                                | 4,845 | A.P.       | 4,845   |
| 6        | Grumezescu, A.M.; Andronesu, E.; Ficai, A.; Bleotu, C.; Mihaiescu, D.E.; Chifiriuc, M.C. Synthesis, characterization and in vitro assessment of the magnetic chitosan-carboxymethylcellulose biocomposite interactions with the prokaryotic and eukaryotic cells. International Journal of Pharmaceutics 2012, 436, 771-777, WOS:000308597600085, 0378-5173, doi 10.1016/j.ijpharm.2012.07.063                  | 4,845 | A.P.       | 4,845   |
| 7        | Grumezescu, A.M.; Andronesu, E.; Holban, A.M.; Ficai, A.; Ficai, D.; Voicu, G.; Grumezescu, V.; Balaure, P.C.; Chifiriuc, C.M. Water dispersible cross-linked magnetic chitosan beads for increasing the antimicrobial efficiency of aminoglycoside antibiotics. International Journal of Pharmaceutics 2013, 454, 233-240, WOS:000323854600028, 0378-5173, doi 10.1016/j.ijpharm.2013.06.054                   | 4,845 | A.P.       | 4,845   |
| 8        | Grumezescu, A.M.; Ghitulica, C.D.; Voicu, G.; Huang, K.S.; Yang, C.H.; Ficai, A.; Vasile, B.S.; Grumezescu, V.; Bleotu, C.; Chifiriuc, M.C. New silica nanostructure for the improved delivery of topical antibiotics used in the treatment of staphylococcal cutaneous infections.                                                                                                                             | 4,845 | A.P.       | 4,845   |

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FI    | Nr. autori | FIC      |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|----------|
|          | International Journal of Pharmaceutics 2014, 463, 170-176, WOS:000331188000008, 0378-5173, doi 10.1016/j.ijpharm.2013.07.016                                                                                                                                                                                                                                                                                                                                           |       |            |          |
| 9        | Grumezescu, A.M.; Holban, A.M.; Andronescu, E.; Mogosanu, G.D.; Vasile, B.S.; Chifiriuc, M.C.; Lazar, V.; Andrei, E.; Constantinescu, A.; Maniu, H. Anionic polymers and 10 nm $\text{Fe}_3\text{O}_4$ wound dressings support human foetal stem cells normal development and exhibit great antimicrobial properties. International Journal of Pharmaceutics 2014, 463, 146-154, WOS:000331188000005, 0378-5173, doi 10.1016/j.ijpharm.2013.08.026                     | 4,845 | A.P.       | 4,845    |
| 10       | Grumezescu, V.; Holban, A.M.; Sima, L.E.; Chiritoiu, M.B.; Chiritoiu, G.N.; Grumezescu, A.M.; Ivan, L.; Safciuc, F.; Antohe, F.; Florica, C.; Luculescu, C.R.; Chifiriuc, M.C.; Socol, G. Laser deposition of poly(3-hydroxybutyric acid-co-3-hydroxyvaleric acid) - lysozyme microspheres based coatings with anti-microbial properties. International Journal of Pharmaceutics 2017, 521, 184-195, WOS:000397613700021, 0378-5173, doi 10.1016/j.ijpharm.2017.01.069 | 4,845 | 13         | 0,372692 |
| 11       | Holban, A.M.; Gestal, M.C.; Grumezescu, A.M. Control of biofilm-associated infections by signaling molecules and nanoparticles. International Journal of Pharmaceutics 2016, 510, 409-418, WOS:000380754500002, 0378-5173, doi 10.1016/j.ijpharm.2016.02.044                                                                                                                                                                                                           | 4,845 | A.P.       | 4,845    |
| 12       | Mogosanu, G.D.; Grumezescu, A.M. Natural and synthetic polymers for wounds and burns dressing. International Journal of Pharmaceutics 2014, 463, 127-136, WOS:000331188000003, 0378-5173, doi 10.1016/j.ijpharm.2013.12.015                                                                                                                                                                                                                                            | 4,845 | A.P.       | 4,845    |
| 13       | Mogosanu, G.D.; Grumezescu, A.M.; Bejenaru, C.; Bejenaru, L.E. Polymeric protective agents for nanoparticles in drug delivery and targeting. International Journal of Pharmaceutics 2016, 510, 419-429, WOS:000380754500003, 0378-5173, doi 10.1016/j.ijpharm.2016.03.014                                                                                                                                                                                              | 4,845 | A.P.       | 4,845    |
| 14       | Stoica, A.O.; Andronescu, E.; Ghitulica, C.D.; Voicu, G.; Grumezescu, A.M.; Popa, M.; Chifiriuc, M.C. Preparation and characterization of undoped and cobalt doped zno for                                                                                                                                                                                                                                                                                             | 4,845 | 7          | 0,692143 |

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                                                                                                                                             | FI    | Nr. autori | FIC      |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|----------|
|          | antimicrobial use. International Journal of Pharmaceutics 2016, 510, 430-438, WOS:000380754500004, 0378-5173, doi 10.1016/j.ijpharm.2015.09.043                                                                                                                                                                                                                                                                                                                     |       |            |          |
| 15       | Voicu, G.; Grumezescu, V.; Andronesu, E.; Grumezescu, A.M.; Fikai, A.; Fikai, D.; Ghitulica, C.D.; Gheorghe, I.; Chifiriuc, M.C. Caprolactam-silica network, a strong potentiator of the antimicrobial activity of kanamycin against gram-positive and gram-negative bacterial strains. International Journal of Pharmaceutics 2013, 446, 63-69, WOS:000316736500008, 0378-5173, doi 10.1016/j.ijpharm.2013.02.011                                                  | 4,845 | A.P.       | 4,845    |
| 16       | Cristescu, R.; Popescu, C.; Socol, G.; Iordache, I.; Mihailescu, I.N.; Mihaiescu, D.E.; Grumezescu, A.M.; Balan, A.; Stamatina, I.; Chifiriuc, C.; Bleotu, C.; Saviuc, C.; Popa, M.; Chrisey, D.B. Magnetic core/shell nanoparticle thin films deposited by maple: Investigation by chemical, morphological and in vitro biological assays. Applied Surface Science 2012, 258, 9250-9255, WOS:000307241800030, 0169-4332, doi 10.1016/j.apsusc.2012.02.055          | 6,182 | 14         | 0,441571 |
| 17       | Cristescu, R.; Surdu, A.V.; Grumezescu, A.M.; Oprea, A.E.; Trusca, R.; Vasile, O.; Dorcioman, G.; Visan, A.; Socol, G.; Mihailescu, I.N.; Mihaiescu, D.; Enculescu, M.; Chifiriuc, M.C.; Boehm, R.D.; Narayan, R.J.; Chrisey, D.B. Microbial colonization of biopolymeric thin films containing natural compounds and antibiotics fabricated by maple. Applied Surface Science 2015, 336, 234-239, WOS:000351617600041, 0169-4332, doi 10.1016/j.apsusc.2014.11.145 | 6,182 | 16         | 0,386375 |
| 18       | Cristescu, R.; Visan, A.; Socol, G.; Surdu, A.V.; Oprea, A.E.; Grumezescu, A.M.; Chifiriuc, M.C.; Boehm, R.D.; Yamaleyeva, D.; Taylor, M.; Narayan, R.J.; Chrisey, D.B. Antimicrobial activity of biopolymeric thin films containing flavonoid natural compounds and silver nanoparticles fabricated by maple: A comparative study. Applied Surface Science 2016, 374, 290-296, WOS:000375937300045, 0169-4332, doi 10.1016/j.apsusc.2015.11.252                    | 6,182 | 12         | 0,515167 |

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                                                                                                                           | FI    | Nr. autori | FIC    |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|--------|
| 19       | Grumezescu, V.; Andronescu, E.; Holban, A.M.; Mogoanta, L.; Mogosanu, G.D.; Grumezescu, A.M.; Stanculescu, A.; Socol, G.; Iordache, F.; Maniu, H.; Chifiriuc, M.C. Maple fabrication of thin films based on kanamycin functionalized magnetite nanoparticles with anti-pathogenic properties. <i>Applied Surface Science</i> 2015, 336, 188-195, WOS:000351617600033, 0169-4332, doi 10.1016/j.apsusc.2014.10.177                                 | 6,182 | A.P.       | 6,182  |
| 20       | Grumezescu, V.; Andronescu, E.; Holban, A.M.; Socol, G.; Grumezescu, A.M.; Ficai, A.; Lazar, V.; Chifiriuc, M.C.; Trusca, R.; Iordache, F. Fabrication and characterization of functionalized surfaces with 3-amino propyltrimethoxysilane films for anti-infective therapy applications. <i>Applied Surface Science</i> 2015, 336, 401-406, WOS:000351617600068, 0169-4332, doi 10.1016/j.apsusc.2015.01.080                                     | 6,182 | A.P.       | 6,182  |
| 21       | Grumezescu, V.; Holban, A.M.; Iordache, F.; Socol, G.; Mogosanu, G.D.; Grumezescu, A.M.; Ficai, A.; Vasile, B.S.; Trusca, R.; Chifiriuc, M.C.; Maniu, H. Maple fabricated magnetite@eugenol and (3-hidroxybutyric acid-co-3-hidroxyvaleric acid)-polyvinyl alcohol microspheres coated surfaces with anti-microbial properties. <i>Applied Surface Science</i> 2014, 306, 16-22, WOS:000336591500004, 0169-4332, doi 10.1016/j.apsusc.2014.01.126 | 6,182 | A.P.       | 6,182  |
| 22       | Grumezescu, V.; Negut, I.; Gherasim, O.; Birca, A.C.; Grumezescu, A.M.; Hudita, A.; Galateanu, B.; Costache, M.; Andronescu, E.; Holban, A.M. Antimicrobial applications of maple processed coatings based on plga and lincomycin functionalized magnetite nanoparticles. <i>Applied Surface Science</i> 2019, 484, 587-599, WOS:000471830700065, 0169-4332, doi 10.1016/j.apsusc.2019.04.112                                                     | 6,182 | 10         | 0,6182 |
| 23       | Grumezescu, V.; Negut, I.; Grumezescu, A.M.; Ficai, A.; Dorcioman, G.; Socol, G.; Iordache, F.; Trusca, R.; Vasile, B.S.; Holban, A.M. Maple fabricated coatings based on magnetite nanoparticles embedded into biopolymeric spheres resistant to microbial colonization. <i>Applied Surface Science</i> 2018, 448, 230-236, WOS:000432797100026, 0169-4332, doi                                                                                  | 6,182 | 10         | 0,6182 |

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | FI    | Nr. autori | FIC   |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|-------|
|          | 10.1016/j.apsusc.2018.04.053                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |            |       |
| 24       | Grumezescu, V.; Socol, G.; Grumezescu, A.M.; Holban, A.M.; Fikai, A.; Trusca, R.; Bleotu, C.; Balaure, P.C.; Cristescu, R.; Chifiriuc, M.C. Functionalized antibiofilm thin coatings based on pla-pva microspheres loaded with usnic acid natural compounds fabricated by maple. Applied Surface Science 2014, 302, 262-267, WOS:000333405800053, 0169-4332, doi 10.1016/j.apsusc.2013.09.081                                                                                                                 | 6,182 | A.P.       | 6,182 |
| 25       | Iordache, F.; Grumezescu, V.; Grumezescu, A.M.; Curutu, C.; Ditu, L.M.; Socol, G.; Fikai, A.; Trusca, R.; Holban, A.M. Gamma-cyclodextrin/usnic acid thin film fabricated by maple for improving the resistance of medical surfaces to staphylococcus aureus colonization. Applied Surface Science 2015, 336, 407-412, WOS:000351617600069, 0169-4332, doi 10.1016/j.apsusc.2015.01.081                                                                                                                       | 6,182 | A.P.       | 6,182 |
| 26       | Negut, I.; Grumezescu, V.; Fikai, A.; Grumezescu, A.M.; Holban, A.M.; Popescu, R.C.; Savu, D.; Vasile, B.S.; Socol, G. Maple deposition of nigella sativa functionalized fe <sub>3</sub> o <sub>4</sub> nanoparticles for antimicrobial coatings. Applied Surface Science 2018, 455, 513-521, WOS:000438578700061, 0169-4332, doi 10.1016/j.apsusc.2018.05.202                                                                                                                                                | 6,182 | A.P.       | 6,182 |
| 27       | Radulescu, D.; Grumezescu, V.; Andronesu, E.; Holban, A.M.; Grumezescu, A.M.; Socol, G.; Oprea, A.E.; Radulescu, M.; Surdu, A.; Trusca, R.; Radulescu, R.; Chifiriuc, M.C.; Stan, M.S.; Constanda, S.; Dinischiotu, A. Biocompatible cephalosporin-hydroxyapatite-poly(lactic-co-glycolic acid)-coatings fabricated by maple technique for the prevention of bone implant associated infections. Applied Surface Science 2016, 374, 387-396, WOS:000375937300060, 0169-4332, doi 10.1016/j.apsusc.2016.02.072 | 6,182 | A.P.       | 6,182 |
| 28       | Radulescu, D.; Voicu, G.; Oprea, A.E.; Andronesu, E.; Grumezescu, V.; Holban, A.M.; Vasile, B.S.; Surdu, A.V.; Grumezescu, A.M.; Socol, G.; Mogoanta, L.; Mogosanu, G.D.; Balaure, P.C.; Radulescu, R.; Chifiriuc, M.C. Mesoporous silica coatings for cephalosporin active release at the bone-implant interface.                                                                                                                                                                                            | 6,182 | A.P.       | 6,182 |

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FI    | Nr. autori | FIC      |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|----------|
|          | Applied Surface Science 2016, 374, 165-171, WOS:000375937300027, 0169-4332, doi 10.1016/j.apsusc.2015.10.183                                                                                                                                                                                                                                                                                                                                                                          |       |            |          |
| 29       | Stan, M.S.; Constanda, S.; Grumezescu, V.; Andronesco, E.; Ene, A.M.; Holban, A.M.; Vasile, B.S.; Mogoanta, L.; Balseanu, T.A.; Mogosanu, G.D.; Socol, G.; Grumezescu, A.M.; Dinischiotu, A.; Lazar, V.; Chifiriuc, M.C. Thin coatings based on zno@c-18-usnic acid nanoparticles prepared by maple inhibit the development of salmonella enterica early biofilm growth. Applied Surface Science 2016, 374, 318-325, WOS:000375937300049, 0169-4332, doi 10.1016/j.apsusc.2015.12.063 | 6,182 | A.P.       | 6,182    |
| 30       | Anghel, I.; Grumezescu, A.M.; Holban, A.M.; Ficai, A.; Anghel, A.G.; Chifiriuc, M.C. Biohybrid nanostructured iron oxide nanoparticles and satureja hortensis to prevent fungal biofilm development. International Journal of Molecular Sciences 2013, 14, 18110-18123, WOS:000328623900047, doi 10.3390/ijms140918110                                                                                                                                                                | 4,556 | 6          | 0,759333 |
| 31       | Docea, A.O.; Calina, D.; Buga, A.M.; Zlatian, O.; Paoliello, M.M.B.; Mogosanu, G.D.; Streba, C.T.; Popescu, E.L.; Stoica, A.E.; Birca, A.C.; Vasile, B.S.; Grumezescu, A.M.; Mogoanta, L. The effect of silver nanoparticles on antioxidant/pro-oxidant balance in a murine model. International Journal of Molecular Sciences 2020, 21, WOS:000522524400060, doi 10.3390/ijms21041233, IF2017 =.                                                                                     | 4,556 | 13         | 0,350462 |
| 32       | Limban, C.; Grumezescu, A.M.; Saviuc, C.; Voicu, G.; Predan, G.; Sakizlian, R.; Chifiriuc, M.C. Optimized anti-pathogenic agents based on core/shell nanostructures and 2-((4-ethylphenoxy)ethyl)-n-(substituted-phenylcarbamothioyl)-benzamides. International Journal of Molecular Sciences 2012, 13, 12584-12597, WOS:000310677800027, 1661-6596, doi 10.3390/ijms131012584                                                                                                        | 4,556 | A.P.       | 4,556    |
| 33       | Beiu, C.; Giurcaneanu, C.; Grumezescu, A.M.; Holban, A.M.; Popa, L.G.; Mihai, M.M. Nanosystems for improved targeted therapies in melanoma. Journal of Clinical Medicine 2020, 9, WOS:000518823000031, doi                                                                                                                                                                                                                                                                            | 3,303 | 6          | 0,5505   |

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                                                                                                                | FI    | Nr. autori | FIC    |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|--------|
|          | 10.3390/jcm9020318                                                                                                                                                                                                                                                                                                                                                                                                                     |       |            |        |
| 34       | Grumezescu, A.M.; Stoica, A.E.; Dima-Balcescu, M.S.; Chircov, C.; Gharbia, S.; Balta, C.; Rosu, M.; Herman, H.; Holban, A.M.; Ficai, A.; Vasile, B.S.; Andronesu, E.; Chifiriuc, M.C.; Hermenean, A. Electrospun polyethylene terephthalate nanofibers loaded with silver nanoparticles: Novel approach in anti-infective therapy. <i>Journal of Clinical Medicine</i> 2019, 8, WOS:000479003300123, doi 10.3390/jcm8071039, IF2017 =. | 3,303 | A.P.       | 3,303  |
| 35       | Teleanu, D.M.; Chircov, C.; Grumezescu, A.M.; Volceanov, A.; Teleanu, R.I. Impact of nanoparticles on brain health: An up to date overview. <i>Journal of Clinical Medicine</i> 2018, 7, WOS:000455409100027, 2077-0383, doi 10.3390/jcm7120490                                                                                                                                                                                        | 3,303 | 5          | 0,6606 |
| 36       | Teleanu, R.I.; Chircov, C.; Grumezescu, A.M.; Teleanu, D.M. Tumor angiogenesis and anti-angiogenic strategies for cancer treatment. <i>Journal of Clinical Medicine</i> 2020, 9, WOS:000515388400084, doi 10.3390/jcm9010084                                                                                                                                                                                                           | 3,303 | A.P.       | 3,303  |
| 37       | Teleanu, R.I.; Chircov, C.; Grumezescu, A.M.; Volceanov, A.; Teleanu, D.M. Antioxidant therapies for neuroprotection-a review. <i>Journal of Clinical Medicine</i> 2019, 8, WOS:000498398500157, doi 10.3390/jcm8101659                                                                                                                                                                                                                | 3,303 | 5          | 0,6606 |
| 38       | Teleanu, D.M.; Chircov, C.; Grumezescu, A.M.; Teleanu, R.I. Neuronanomedicine: An up-to-date overview. <i>Pharmaceutics</i> 2019, 11, WOS:000466897800003, doi 10.3390/pharmaceutics11030101                                                                                                                                                                                                                                           | 4,421 | A.P.       | 4,421  |
| 39       | Teleanu, D.M.; Chircov, C.; Grumezescu, A.M.; Volceanov, A.; Teleanu, R.I. Blood-brain delivery methods using nanotechnology. <i>Pharmaceutics</i> 2018, 10, WOS:000455853800107, 1999-4923, doi 10.3390/pharmaceutics10040269                                                                                                                                                                                                         | 4,421 | 5          | 0,8842 |
| 40       | Teleanu, R.I.; Gherasim, O.; Gherasim, T.G.; Grumezescu, V.; Grumezescu, A.M.; Teleanu, D.M. Nanomaterial-based approaches for neural regeneration. <i>Pharmaceutics</i> 2019, 11, WOS:000475330500018, doi                                                                                                                                                                                                                            | 4,421 | A.P.       | 4,421  |



| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                                                                                | FI    | Nr. autori | FIC      |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|----------|
|          | 10.3390/pharmaceutics11060266                                                                                                                                                                                                                                                                                                                                                                          |       |            |          |
| 41       | Liakos, I.L.; Iordache, F.; Carzino, R.; Scarpellini, A.; Oneto, M.; Bianchini, P.; Grumezescu, A.M.; Holban, A.M. Cellulose acetate - essential oil nanocapsules with antimicrobial activity for biomedical applications. Colloids and Surfaces B-Biointerfaces 2018, 172, 471-479, WOS:000455858500057, 0927-7765, doi 10.1016/j.colsurfb.2018.08.069, IF2017 =.                                     | 4,389 | 8          | 0,548625 |
| 42       | Grigore, M.E.; Grumezescu, A.M.; Holban, A.M.; Mogosanu, G.D.; Andronesu, E. Collagen-nanoparticles composites for wound healing and infection control. Metals 2017, 7, WOS:000419184500001, 2075-4701, doi 10.3390/met7120516                                                                                                                                                                         | 2,117 | 5          | 0,4234   |
| 43       | Radulescu, M.; Andronesu, E.; Holban, A.M.; Vasile, B.S.; Iordache, F.; Mogoanta, L.; Mogosanu, G.D.; Grumezescu, A.M.; Georgescu, M.; Chifiriuc, M.C. Antimicrobial nanostructured bioactive coating based on fe3o4 and patchouli oil for wound dressing. Metals 2016, 6, WOS:000378861000009, doi 10.3390/met6050103                                                                                 | 2,117 | A.P.       | 2,117    |
| 44       | Grumezescu, A.M.; Cristescu, R.; Chifiriuc, M.C.; Dorcioman, G.; Socol, G.; Mihailescu, I.N.; Mihaiescu, D.E.; Fikai, A.; Vasile, O.R.; Enculescu, M.; Chrisey, D.B. Fabrication of magnetite-based core-shell coated nanoparticles with antibacterial properties. Biofabrication 2015, 7, WOS:000353341000015, 1758-5082, doi 10.1088/1758-5090/7/1/015014                                            | 8,213 | A.P.       | 8,213    |
| 45       | Grumezescu, V.; Holban, A.M.; Grumezescu, A.M.; Socol, G.; Fikai, A.; Vasile, B.S.; Trusca, R.; Bleotu, C.; Lazar, V.; Chifiriuc, C.M.; Mogosanu, G.D. Usnic acid-loaded biocompatible magnetic plga-pva microsphere thin films fabricated by maple with increased resistance to staphylococcal colonization. Biofabrication 2014, 6, WOS:000341823500002, 1758-5082, doi 10.1088/1758-5082/6/3/035002 | 8,213 | 11         | 0,746636 |
| 46       | Mihaiescu, D.E.; Cristescu, R.; Dorcioman, G.; Popescu, C.E.; Nita, C.; Socol, G.; Mihailescu, I.N.; Grumezescu, A.M.; Gudovan, D.; Enculescu, M.; Negrea, R.F.; Ghica, C.;                                                                                                                                                                                                                            | 8,213 | 15         | 0,547533 |

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                                                                 | FI    | Nr. autori | FIC   |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|-------|
|          | Chifiriuc, C.; Bleotu, C.; Chrisey, D.B. Functionalized magnetite silica thin films fabricated by maple with antibiofilm properties. Biofabrication 2013, 5, WOS:000314813200007, 1758-5082, doi 10.1088/1758-5082/5/1/015007                                                                                                                                                           |       |            |       |
| 47       | Guzun, A.S.; Stroescu, M.; Jinga, S.I.; Voicu, G.; Grumezescu, A.M.; Holban, A.M. Plackett-burman experimental design for bacterial cellulose-silica composites synthesis. Materials Science & Engineering C-Materials for Biological Applications 2014, 42, 280-288, WOS:000340687400037, 0928-4931, doi 10.1016/j.msec.2014.05.031, IF2017 =.                                         | 5,88  | 6          | 0,98  |
| 48       | Anghel, I.; Grumezescu, A.M. Hybrid nanostructured coating for increased resistance of prosthetic devices to staphylococcal colonization. Nanoscale Research Letters 2013, 8, 1-6, WOS:000316273800001, 1931-7573, doi 10.1186/1556-276x-8-6                                                                                                                                            | 3,581 | A.P.       | 3,581 |
| 49       | Anghel, I.; Grumezescu, A.M.; Andronescu, E.; Anghel, A.G.; Fikai, A.; Saviuc, C.; Grumezescu, V.; Vasile, B.S.; Chifiriuc, M.C. Magnetite nanoparticles for functionalized textile dressing to prevent fungal biofilms development. Nanoscale Research Letters 2012, 7, WOS:000310951100001, 1931-7573, doi 10.1186/1556-276x-7-501                                                    | 3,581 | A.P.       | 3,581 |
| 50       | Anghel, I.; Holban, A.M.; Grumezescu, A.M.; Andronescu, E.; Fikai, A.; Anghel, A.G.; Maganu, M.; Lazar, V.; Chifiriuc, M.C. Modified wound dressing with phyto-nanostructured coating to prevent staphylococcal and pseudomonal biofilm development. Nanoscale Research Letters 2012, 7, 1-8, WOS:000314703400001, 1931-7573, doi 10.1186/1556-276x-7-690                               | 3,581 | A.P.       | 3,581 |
| 51       | Anghel, I.; Limban, C.; Grumezescu, A.M.; Anghel, A.G.; Bleotu, C.; Chifiriuc, M.C. In vitro evaluation of anti-pathogenic surface coating nanofluid, obtained by combining fe <sub>3</sub> o <sub>4</sub> /c-12 nanostructures and 2-((4-ethylphenoxy)methyl)-n-(substituted-phenylcarbamothioyl)-benzamide s. Nanoscale Research Letters 2012, 7, WOS:000310383300001, 1931-7573, doi | 3,581 | A.P.       | 3,581 |

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                                                              | FI    | Nr. autori | FIC      |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|----------|
|          | 10.1186/1556-276x-7-513                                                                                                                                                                                                                                                                                                                                                              |       |            |          |
| 52       | Chifiriuc, C.; Grumezescu, V.; Grumezescu, A.M.; Saviuc, C.; Lazar, V.; Andronesu, E. Hybrid magnetite nanoparticles/rosmarinus officinalis essential oil nanobiosystem with antibiofilm activity. <i>Nanoscale Research Letters</i> 2012, 7, WOS:000305237100001, 1556-276X, doi 10.1186/1556-276x-7-209                                                                            | 3,581 | A.P.       | 3,581    |
| 53       | Yang, C.H.; Wang, W.T.; Grumezescu, A.M.; Huang, K.S.; Lin, Y.S. One-step synthesis of platinum nanoparticles loaded in alginate bubbles. <i>Nanoscale Research Letters</i> 2014, 9, WOS:000339825100001, 1556-276X, doi 10.1186/1556-276x-9-277                                                                                                                                     | 3,581 | 5          | 0,7162   |
| 54       | Balaure, P.C.; Grumezescu, A.M. Methods for synthesizing the macromolecular constituents of smart nanosized carriers for controlled drug delivery. <i>Current Medicinal Chemistry</i> 2014, 21, 3333-3374, WOS:000341968600004, 0929-8673, doi 10.2174/0929867321666140304103437                                                                                                     | 4,184 | A.P.       | 4,184    |
| 55       | Bertesteanu, S.; Chifiriuc, M.C.; Grumezescu, A.M.; Printza, A.G.; Marie-Paule, T.; Grumezescu, V.; Mihaela, V.; Lazar, V.; Grigore, R. Biomedical applications of synthetic, biodegradable polymers for the development of anti-infective strategies. <i>Current Medicinal Chemistry</i> 2014, 21, 3383-3390, WOS:000341968600006, 0929-8673, doi 10.2174/0929867321666140304104328 | 4,184 | 9          | 0,464889 |
| 56       | Holban, A.M.; Gestal, M.C.; Grumezescu, A.M. New molecular strategies for reducing implantable medical devices associated infections. <i>Current Medicinal Chemistry</i> 2014, 21, 3375-3382, WOS:000341968600005, 0929-8673, doi 10.2174/0929867321666140304103810                                                                                                                  | 4,184 | A.P.       | 4,184    |
| 57       | Balaure, P.C.; Grumezescu, A.M. Recent advances in surface nanoengineering for biofilm prevention and control. Part ii: Active, combined active and passive, and smart bacteria-responsive antibiofilm nanocoatings. <i>Nanomaterials</i> 2020, 10, WOS:000564757600001, doi 10.3390/nano10081527                                                                                    | 4,324 | A.P.       | 4,324    |
| 58       | Balaure, P.C.; Grumezescu, A.M. Recent                                                                                                                                                                                                                                                                                                                                               | 4,324 | A.P.       | 4,324    |

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                                                                     | FI    | Nr. autori | FIC      |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|----------|
|          | advances in surface nanoengineering for biofilm prevention and control. Part i: Molecular basis of biofilm recalcitrance. Passive anti-biofouling nanocoatings. Nanomaterials 2020, 10, WOS:000552438700001, doi 10.3390/nano10061230                                                                                                                                                       |       |            |          |
| 59       | Burdusel, A.C.; Gherasim, O.; Grumezescu, A.M.; Mogoanta, L.; Ficai, A.; Andronesu, E. Biomedical applications of silver nanoparticles: An up-to-date overview. Nanomaterials 2018, 8, WOS:000448659200049, 2079-4991, doi 10.3390/nano8090681                                                                                                                                              | 4,324 | 6          | 0,720667 |
| 60       | Ficai, D.; Grumezescu, V.; Fufa, O.M.; Popescu, R.C.; Holban, A.M.; Ficai, A.; Grumezescu, A.M.; Mogoanta, L.; Mogosanu, G.D.; Andronesu, E. Antibiofilm coatings based on plga and nanostructured cefepime-functionalized magnetite. Nanomaterials 2018, 8, WOS:000448659200001, 2079-4991, doi 10.3390/nano8090633                                                                        | 4,324 | 10         | 0,4324   |
| 61       | Liakos, I.L.; Holban, A.M.; Carzino, R.; Lauciello, S.; Grumezescu, A.M. Electrospun fiber pads of cellulose acetate and essential oils with antimicrobial activity. Nanomaterials 2017, 7, WOS:000404048100013, 2079-4991, doi 10.3390/nano7040084, IF2017 =.                                                                                                                              | 4,324 | 5          | 0,8648   |
| 62       | Limban, C.; Missir, A.V.; Caproiu, M.T.; Grumezescu, A.M.; Chifiriuc, M.C.; Bleotu, C.; Marutescu, L.; Papacoccea, M.T.; Nuta, D.C. Novel hybrid formulations based on thiourea derivatives and core@shell fe <sub>3</sub> o <sub>4</sub> @c-18 nanostructures for the development of antifungal strategies. Nanomaterials 2018, 8, WOS:000424131600046, 2079-4991, doi 10.3390/nano8010047 | 4,324 | 9          | 0,480444 |
| 63       | Teleanu, D.M.; Chircov, C.; Grumezescu, A.M.; Teleanu, R.I. Neurotoxicity of nanomaterials: An up-to-date overview. Nanomaterials 2019, 9, WOS:000459737200096, doi 10.3390/nano9010096                                                                                                                                                                                                     | 4,324 | A.P.       | 4,324    |
| 64       | Teleanu, D.M.; Chircov, C.; Grumezescu, A.M.; Volceanov, A.; Teleanu, R.I. Contrast agents delivery: An up-to-date review of nanodiagnostics in neuroimaging. Nanomaterials 2019, 9, WOS:000467768800058, doi                                                                                                                                                                               | 4,324 | 5          | 0,8648   |

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                     | FI    | Nr. autori | FIC    |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|--------|
|          | 10.3390/nano9040542                                                                                                                                                                                                                                                                                                                         |       |            |        |
| 65       | Teleanu, D.M.; Negut, I.; Grumezescu, V.; Grumezescu, A.M.; Teleanu, A.I. Nanomaterials for drug delivery to the central nervous system. <i>Nanomaterials</i> 2019, 9, WOS:000465603800009, doi 10.3390/nano9030371                                                                                                                         | 4,324 | A.P.       | 4,324  |
| 66       | Chircov, C.; Grumezescu, A.M.; Holban, A.M. Magnetic particles for advanced molecular diagnosis. <i>Materials</i> 2019, 12, WOS:000477043900122, doi 10.3390/ma12132158                                                                                                                                                                     | 3,057 | A.P.       | 3,057  |
| 67       | Gherasim, O.; Grumezescu, A.M.; Grumezescu, V.; Iordache, F.; Vasile, B.S.; Holban, A.M. Bioactive surfaces of polylactide and silver nanoparticles for the prevention of microbial contamination. <i>Materials</i> 2020, 13, WOS:000515503100275, doi 10.3390/ma13030768                                                                   | 3,057 | 6          | 0,5095 |
| 68       | Radulescu, M.; Andronescu, E.; Dolete, G.; Popescu, R.C.; Fufa, O.; Chifiriuc, M.C.; Mogoanta, L.; Balseanu, T.A.; Mogosanu, G.D.; Grumezescu, A.M.; Holban, A.M. Silver nanocoatings for reducing the exogenous microbial colonization of wound dressings. <i>Materials</i> 2016, 9, WOS:000378628500040, 1996-1944, doi 10.3390/ma9050345 | 3,057 | A.P.       | 3,057  |
| 69       | Stoica, A.E.; Chircov, C.; Grumezescu, A.M. Hydrogel dressings for the treatment of burn wounds: An up-to-date overview. <i>Materials</i> 2020, 13, WOS:000554697800001, doi 10.3390/ma13122853                                                                                                                                             | 3,057 | A.P.       | 3,057  |
| 70       | Anghel, A.G.; Grumezescu, A.M.; Chirea, M.; Grumezescu, V.; Socol, G.; Iordache, F.; Oprea, A.E.; Anghel, I.; Holban, A.M. Maple fabricated $Fe_3O_4@Cinnamomum$ verum antimicrobial surfaces for improved gastrostomy tubes. <i>Molecules</i> 2014, 19, 8981-8994, WOS:000340036200018, 1420-3049, doi 10.3390/molecules19078981           | 3,267 | 9          | 0,363  |
| 71       | Bilcu, M.; Grumezescu, A.M.; Oprea, A.E.; Popescu, R.C.; Mogosanu, G.D.; Hristu, R.; Stanciu, G.A.; Mihailescu, D.F.; Lazar, V.; Bezirtzoglou, E.; Chifiriuc, M.C. Efficiency of vanilla, patchouli and ylang ylang essential oils                                                                                                          | 3,267 | 11         | 0,297  |

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FI    | Nr. autori | FIC    |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|--------|
|          | stabilized by iron oxide@c-14 nanostructures against bacterial adherence and biofilms formed by staphylococcus aureus and klebsiella pneumoniae clinical strains. <i>Molecules</i> 2014, 19, 17943-17956, WOS:000345564300050, 1420-3049, doi 10.3390/molecules191117943                                                                                                                                                                                                     |       |            |        |
| 72       | Grumezescu, A.M.; Gestal, M.C.; Holban, A.M.; Grumezescu, V.; Vasile, B.S.; Mogoanta, L.; Iordache, F.; Bleotu, C.; Mogosanu, G.D. Biocompatible fe3o4 increases the efficacy of amoxicillin delivery against gram-positive and gram-negative bacteria. <i>Molecules</i> 2014, 19, 5013-5027, WOS:000336087800076, doi 10.3390/molecules19045013                                                                                                                             | 3,267 | 9          | 0,363  |
| 73       | Huang, K.S.; Wang, C.Y.; Yang, C.H.; Grumezescu, A.M.; Lin, Y.S.; Kung, C.P.; Lin, I.Y.; Chang, Y.C.; Weng, W.J.; Wang, W.T. Synthesis and characterization of oil-chitosan composite spheres. <i>Molecules</i> 2013, 18, 5749-5760, WOS:000319446900061, 1420-3049, doi 10.3390/molecules18055749,IF2017 =.                                                                                                                                                                 | 3,267 | 10         | 0,3267 |
| 74       | Ion, A.; Andronescu, E.; Radulescu, D.; Radulescu, M.; Iordache, F.; Vasile, B.S.; Surdu, A.V.; Albu, M.G.; Maniu, H.; Chifiriuc, M.C.; Grumezescu, A.M.; Holban, A.M. Biocompatible 3d matrix with antimicrobial properties. <i>Molecules</i> 2016, 21, WOS:000369486800043, doi 10.3390/molecules21010115,IF2017 =.                                                                                                                                                        | 3,267 | A.P.       | 3,267  |
| 75       | Liakos, I.; Grumezescu, A.M.; Holban, A.M. Magnetite nanostructures as novel strategies for anti-infectious therapy. <i>Molecules</i> 2014, 19, 12710-12726, WOS:000341502600111, doi 10.3390/molecules190812710                                                                                                                                                                                                                                                             | 3,267 | 3          | 1,089  |
| 76       | Limban, C.; Missir, A.V.; Grumezescu, A.M.; Oprea, A.E.; Grumezescu, V.; Vasile, B.S.; Socol, G.; Trusca, R.; Caproiu, M.T.; Chifiriuc, M.C.; Galateanu, B.; Costache, M.; Morusciag, L.; Pircalabioru, G.; Nuta, D.C. Bioevaluation of novel anti-biofilm coatings based on pvp/fe3o4 nanostructures and 2-((4-ethylphenoxy) methyl)-n-(arylcabamothioyl)benzamides. <i>Molecules</i> 2014, 19, 12011-12030, WOS:000341502600074, 1420-3049, doi 10.3390/molecules190812011 | 3,267 | 15         | 0,2178 |

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                                                                                                           | FI    | Nr. autori | FIC      |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|----------|
| 77       | Lin, Y.S.; Yang, C.H.; Wu, C.T.; Grumezescu, A.M.; Wang, C.Y.; Hsieh, W.C.; Chen, S.Y.; Huang, K.S. A microfluidic chip using phenol formaldehyde resin for uniform-sized polycaprolactone and chitosan microparticle generation. <i>Molecules</i> 2013, 18, 6521-6531, WOS:000320770800023, 1420-3049, doi 10.3390/molecules18066521, IF2017 =.                                                                                  | 3,267 | 8          | 0,408375 |
| 78       | Lungu, II; Grumezescu, A.M.; Volceanov, A.; Andronescu, E. Nanobiomaterials used in cancer therapy: An up-to-date overview. <i>Molecules</i> 2019, 24, WOS:000496242300132, doi 10.3390/molecules24193547                                                                                                                                                                                                                         | 3,267 | A.P.       | 3,267    |
| 79       | Negut, I.; Grumezescu, V.; Grumezescu, A.M. Treatment strategies for infected wounds. <i>Molecules</i> 2018, 23, WOS:000447365100303, doi 10.3390/molecules23092392                                                                                                                                                                                                                                                               | 3,267 | A.P.       | 3,267    |
| 80       | Oprea, A.E.; Pandel, L.M.; Dumitrescu, A.M.; Andronescu, E.; Grumezescu, V.; Chifiriuc, M.C.; Mogoanta, L.; Balseanu, T.A.; Mogosanu, G.D.; Socol, G.; Grumezescu, A.M.; Iordache, F.; Maniu, H.; Chirea, M.; Holban, A.M. Bioactive zno coatings deposited by maple-an appropriate strategy to produce efficient anti-biofilm surfaces. <i>Molecules</i> 2016, 21, WOS:000371895900042, 1420-3049, doi 10.3390/molecules21020220 | 3,267 | 15         | 0,2178   |
| 81       | Popescu, R.C.; Andronescu, E.; Vasile, B.S.; Trusca, R.; Boldeiu, A.; Mogoanta, L.; Mogosanu, G.D.; Temelie, M.; Radu, M.; Grumezescu, A.M.; Savu, D. Fabrication and cytotoxicity of gemcitabine-functionalized magnetite nanoparticles. <i>Molecules</i> 2017, 22, WOS:000406621300055, doi 10.3390/molecules22071080                                                                                                           | 3,267 | 11         | 0,297    |
| 82       | Radulescu, M.; Holban, A.M.; Mogoanta, L.; Balseanu, T.A.; Mogosanu, G.D.; Savu, D.; Popescu, R.C.; Fufa, O.; Grumezescu, A.M.; Bezirtzoglou, E.; Lazar, V.; Chifiriuc, M.C. Fabrication, characterization, and evaluation of bionanocomposites based on natural polymers and antibiotics for wound healing applications. <i>Molecules</i> 2016, 21, WOS:000378757600087, 1420-3049, doi 10.3390/molecules21060761                | 3,267 | 12         | 0,27225  |
| 83       | Stoica, A.E.; Chircov, C.; Grumezescu, A.M.                                                                                                                                                                                                                                                                                                                                                                                       | 3,267 | A.P.       | 3,267    |

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                                                                                         | FI    | Nr. autori | FIC      |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|----------|
|          | Nanomaterials for wound dressings: An up-to-date overview. <i>Molecules</i> 2020, 25, WOS:000553858800236, doi 10.3390/molecules25112699                                                                                                                                                                                                                                                                        |       |            |          |
| 84       | Balasa, A.F.; Chircov, C.; Grumezescu, A.M. Marine biocompounds for neuroprotection-a review. <i>Marine Drugs</i> 2020, 18, WOS:000551180900002, doi 10.3390/md18060290                                                                                                                                                                                                                                         | 4,073 | A.P.       | 4,073    |
| 85       | Florea, D.A.; Chircov, C.; Grumezescu, A.M. Hydroxyapatite particles-directing the cellular activity in bone regeneration processes: An up-to-date review. <i>Applied Sciences-Basel</i> 2020, 10, WOS:000541440000144, doi 10.3390/app10103483                                                                                                                                                                 | 2,474 | A.P.       | 2,474    |
| 86       | Negut, I.; Visan, A.I.; Popescu, C.; Cristescu, R.; Ficai, A.; Grumezescu, A.M.; Chifiriuc, M.C.; Boehm, R.D.; Yamaleyeva, D.; Taylor, M.; Narayan, R.J.; Chrisey, D.B. Successful release of voriconazole and flavonoids from maple deposited bioactive surfaces. <i>Applied Sciences-Basel</i> 2019, 9, WOS:000460696500172, doi 10.3390/app9040786                                                           | 2,474 | 12         | 0,206167 |
| 87       | Florea, D.A.; Albulet, D.; Grumezescu, A.M.; Andronesu, E. Surface modification - a step forward to overcome the current challenges in orthopedic industry and to obtain an improved osseointegration and antimicrobial properties. <i>Materials Chemistry and Physics</i> 2020, 243, WOS:000523631300029, 0254-0584, doi 10.1016/j.matchemphys.2019.122579                                                     | 3,408 | A.P.       | 3,408    |
| 88       | Grumezescu, A.M.; Andronesu, E.; Oprea, A.E.; Holban, A.M.; Socol, G.; Grumezescu, V.; Chifiriuc, M.C.; Iordache, F.; Maniu, H. Maple fabricated magnetite@melissa officinalis and poly lactic acid: Chitosan coated surfaces with anti-staphylococcal properties. <i>Journal of Sol-Gel Science and Technology</i> 2015, 73, 612-619, WOS:000350684600015, 0928-0707, doi 10.1007/s10971-014-3558-3, IF2017 =. | 2,008 | A.P.       | 2,008    |
| 89       | Holban, A.M.; Andronesu, E.; Grumezescu, V.; Oprea, A.E.; Grumezescu, A.M.; Socol, G.; Chifiriuc, M.C.; Lazar, V.; Iordache, F. Carvone functionalized iron oxide nanostructures thin films prepared by maple for improved resistance                                                                                                                                                                           | 2,008 | A.P.       | 2,008    |



| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FI    | Nr. autori | FIC      |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|----------|
|          | to microbial colonization. Journal of Sol-Gel Science and Technology 2015, 73, 605-611, WOS:000350684600014, 0928-0707, doi 10.1007/s10971-014-3552-9                                                                                                                                                                                                                                                                                                                  |       |            |          |
| 90       | Iordache, F.; Oprea, A.E.; Grumezescu, V.; Andronesu, E.; Socol, G.; Grumezescu, A.M.; Popa, M.; Mogosanu, G.D.; Holban, A.M.; Maniu, H. Poly(lactic-co-glycolic) acid/chitosan microsphere thin films functionalized with cinnamomi aetheroleum and magnetite nanoparticles for preventing the microbial colonization of medical surfaces. Journal of Sol-Gel Science and Technology 2015, 73, 679-686, WOS:000350684600025, 0928-0707, doi 10.1007/s10971-015-3659-7 | 2,008 | A.P.       | 2,008    |
| 91       | Balaure, P.C.; Grumezescu, A.M. Smart synthetic polymer nanocarriers for controlled and site-specific drug delivery. Current Topics in Medicinal Chemistry 2015, 15, 1424-1490, WOS:000355196100002, 1568-0266                                                                                                                                                                                                                                                         | 3,218 | 2          | 1,609    |
| 92       | Cabuzu, D.; Cirja, A.; Puiu, R.; Grumezescu, A.M. Biomedical applications of gold nanoparticles. Current Topics in Medicinal Chemistry 2015, 15, 1605-1613, WOS:000355196900007, 1568-0266, doi,IF2017 =.                                                                                                                                                                                                                                                              | 3,218 | A.P.       | 3,218    |
| 93       | Marin, S.; Vlasceanu, G.M.; Tiplea, R.E.; Bucur, I.R.; Lemnaru, M.; Marin, M.M.; Grumezescu, A.M. Applications and toxicity of silver nanoparticles: A recent review. Current Topics in Medicinal Chemistry 2015, 15, 1596-1604, WOS:000355196900006, 1568-0266                                                                                                                                                                                                        | 3,218 | A.P.       | 3,218    |
| 94       | Pop, C.S.; Hussien, M.D.; Popa, M.; Mares, A.; Grumezescu, A.M.; Grigore, R.; Lazar, V.; Chifiriuc, M.C.; Sakizlian, M.; Bezirtzoglou, E.; Bertesteanu, S. Metallic-based micro and nanostructures with antimicrobial activity. Current Topics in Medicinal Chemistry 2015, 15, 1577-1582, WOS:000355196900003, 1568-0266                                                                                                                                              | 3,218 | 11         | 0,292545 |
| 95       | Popescu, R.C.; Grumezescu, A.M. Metal based frameworks for drug delivery systems. Current Topics in Medicinal Chemistry 2015, 15, 1532-1542, WOS:000355196100007, 1568-0266                                                                                                                                                                                                                                                                                            | 3,218 | A.P.       | 3,218    |
| 96       | Huang, K.S.; Yang, C.H.; Kung, C.P.; Grumezescu, A.M.; Ker, M.D.; Lin, Y.S.; Wang,                                                                                                                                                                                                                                                                                                                                                                                     | 3,081 | 7          | 0,440143 |

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                                               | FI    | Nr. autori | FIC      |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|----------|
|          | C.Y. Synthesis of uniform core-shell gelatin-alginate microparticles as intestine-released oral delivery drug carrier. Electrophoresis 2014, 35, 330-336, WOS:000331899400013, 0173-0835, doi 10.1002/elps.201300194,IF2017 =.                                                                                                                                        |       |            |          |
| 97       | Yang, C.H.; Huang, K.S.; Grumezescu, A.M.; Wang, C.Y.; Tzeng, S.C.; Chen, S.Y.; Lin, Y.H.; Lin, Y.S. Synthesis of uniform poly(d,l-lactide) and poly(d,l-lactide-co-glycolide) microspheres using a microfluidic chip for comparison. Electrophoresis 2014, 35, 316-322, WOS:000331899400011, 0173-0835, doi 10.1002/elps.201300185,IF2017 =.                         | 3,081 | 8          | 0,385125 |
| 98       | Yang, C.H.; Wang, C.Y.; Grumezescu, A.M.; Wang, A.H.J.; Hsiao, C.J.; Chen, Z.Y.; Huang, K.S. Core-shell structure microcapsules with dual ph-responsive drug release function. Electrophoresis 2014, 35, 2673-2680, WOS:000341874400016, 0173-0835, doi 10.1002/elps.201400210,IF2017 =.                                                                              | 3,081 | 7          | 0,440143 |
| 99       | Holban, A.M.; Grumezescu, V.; Grumezescu, A.M.; Vasile, B.S.; Trusca, R.; Cristescu, R.; Socol, G.; Iordache, F. Antimicrobial nanospheres thin coatings prepared by advanced pulsed laser technique. Beilstein Journal of Nanotechnology 2014, 5, 872-880, WOS:000337812700001, 2190-4286, doi 10.3762/bjnano.5.99                                                   | 2,612 | A.P.       | 2,612    |
| 100      | Grumezescu, A.M.; Chifiriuc, M.C.; Saviuc, C.; Grumezescu, V.; Hristu, R.; Mihaiescu, D.E.; Stanciu, G.A.; Andronescu, E. Hybrid nanomaterial for stabilizing the antibiofilm activity of eugenia carryophyllata essential oil. Ieee Transactions on Nanobioscience 2012, 11, 360-365, WOS:000312103600006, 1536-1241, doi 10.1109/tnb.2012.2208474,IF2017 =.         | 2,791 | A.P.       | 2,791    |
| 101      | Grumezescu, A.M.; Saviuc, C.; Chifiriuc, M.C.; Hristu, R.; Mihaiescu, D.E.; Balaure, P.; Stanciu, G.A.; Lazar, V. Inhibitory activity of fe3o4/oleic acid/usnic acid-core/shell/extra-shell nanofluid on s. Aureus biofilm development. Ieee Transactions on Nanobioscience 2011, 10, 269-274, WOS:000299525900008, 1536-1241, doi 10.1109/tnb.2011.2178263,IF2017 =. | 2,791 | A.P.       | 2,791    |
| 102      | Chifiriuc, M.C.; Grumezescu, A.M.;                                                                                                                                                                                                                                                                                                                                    | 1,933 | 6          | 0,322167 |

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                       | FI    | Nr. autori | FIC      |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|----------|
|          | Grumezescu, V.; Bezirtzoglou, E.; Lazar, V.; Bolocan, A. Biomedical applications of natural polymers for drug delivery. Current Organic Chemistry 2014, 18, 152-164, WOS:000333808400002, 1385-2728, doi 10.2174/138527281802140129104525                                                                                                     |       |            |          |
| 103      | Chifiriuc, M.C.; Grumezescu, A.M.; Lazar, V. Quorum sensing inhibitors from the sea: Lessons from marine symbiotic relationships. Current Organic Chemistry 2014, 18, 823-839, WOS:000337249400006, 1385-2728, doi 10.2174/138527281807140515150356                                                                                           | 1,933 | A.P.       | 1,933    |
| 104      | Chifiriuc, M.C.; Grumezescu, A.M.; Saviuc, C.; Hristu, R.; Grumezescu, V.; Bleotu, C.; Stanciu, G.; Mihaiescu, D.E.; Andronescu, E.; Lazar, V.; Radulescu, R. Magnetic nanoparticles for controlling in vitro fungal biofilms. Current Organic Chemistry 2013, 17, 1023-1028, WOS:000318688700003, 1385-2728, doi 10.2174/1385272811317100004 | 1,933 | 11         | 0,175727 |
| 105      | Ditu, L.M.; Lazar, V.; Grumezescu, A.M.; Holban, A.M. Biopolymers tailored for intelligent scaffolding and drug delivery. Current Organic Chemistry 2016, 20, 2989-2995, WOS:000390348100007, 1385-2728, doi 10.2174/1385272820666160511103622                                                                                                | 1,933 | 4          | 0,48325  |
| 106      | Grumezescu, A.M. Essential oils and nanotechnology for combating microbial biofilms. Current Organic Chemistry 2013, 17, 90-96, WOS:000317273500002, 1385-2728, doi,IF2017 =.                                                                                                                                                                 | 1,933 | A.P.       | 1,933    |
| 107      | Grumezescu, A.M.; Andronescu, E.; Albu, M.G.; Fikai, A.; Bleotu, C.; Dragu, D.; Lazar, V. Wound dressing based collagen biomaterials containing usnic acid as quorum sensing inhibitor agent: Synthesis, characterization and bioevaluation. Current Organic Chemistry 2013, 17, 125-131, WOS:000317273500006, 1385-2728, doi,IF2017 =.       | 1,933 | A.P.       | 1,933    |
| 108      | Grumezescu, A.M.; Andronescu, E.; Fikai, A.; Grumezescu, V.; Bleotu, C.; Saviuc, C.; Mihaiescu, D.E.; Chifiriuc, C.M. Biocompatible magnetic hollow silica microspheres for drug delivery. Current Organic Chemistry 2013, 17, 1029-1033, WOS:000318688700004, 1385-                                                                          | 1,933 | A.P.       | 1,933    |

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                               | FI    | Nr. autori | FIC      |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|----------|
|          | 2728, doi<br>10.2174/1385272811317100005,IF2017 =.                                                                                                                                                                                                                                                                                    |       |            |          |
| 109      | Holban, A.M.; Grumezescu, A.M.; Gestal, M.C.; Mogoanta, L.; Mogosanu, G.D. Novel drug delivery magnetite nano-systems used in antimicrobial therapy. Current Organic Chemistry 2014, 18, 185-191, WOS:000333808400005, 1385-2728, doi 10.2174/13852728113176660142                                                                    | 1,933 | A.P.       | 1,933    |
| 110      | Limban, C.; Grumezescu, A.M.; Chirea, M.; Matei, L.; Chifiriuc, M.C. Antimicrobial potential of benzamides and derived nanosystems for controlling in vitro biofilm development on medical devices. Current Organic Chemistry 2013, 17, 162-175, WOS:000317273500012, 1385-2728, doi 10.2174/1385272811317020013                      | 1,933 | 5          | 0,3866   |
| 111      | Lin, M.Y.; Lu, Y.P.; Grumezescu, A.M.; Ho, F.H.; Kao, Y.H.; Yang, Y.S.; Yang, C.H. Tumor marker detection by aptamer-functionalized graphene oxide. Current Organic Chemistry 2013, 17, 132-136, WOS:000317273500007, 1385-2728, doi 10.2174/1385272811317020008,IF2017 =.                                                            | 1,933 | 7          | 0,276143 |
| 112      | Lin, M.Y.; Lu, Y.P.; Yang, Y.S.; Chen, H.L.; Yang, C.H.; Grumezescu, A.M.; Wang, E.C.; Lai, Y.S. Alignment of stretchable nanoparticle chains with tunable optical properties formed from molecular machinery. Current Organic Chemistry 2013, 17, 144-148, WOS:000317273500009, 1385-2728, doi 10.2174/1385272811317020010,IF2017 =. | 1,933 | 8          | 0,241625 |
| 113      | Mihaiescu, D.E.; Grumezescu, A.M.; Andronescu, E.; Voicu, G.; Fikai, A.; Vasile, O.R.; Bleotu, C.; Saviuc, C. Prosthetic devices with functionalized anti-biofilm surface based nanoag@c18. Current Organic Chemistry 2013, 17, 105-112, WOS:000317273500004, 1385-2728                                                               | 1,933 | 8          | 0,241625 |
| 114      | Voicu, G.; Andronescu, E.; Grumezescu, A.M.; Huang, K.S.; Fikai, A.; Yang, C.H.; Bleotu, C.; Chifiriuc, M.C. Antitumor activity of magnetite nanoparticles: Influence of hydrocarbonated chain of saturated aliphatic monocarboxylic acids. Current Organic Chemistry 2013, 17, 831-                                                  | 1,933 | A.P.       | 1,933    |

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                                                                                   | FI    | Nr. autori | FIC    |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|--------|
|          | 840, WOS:000317653500007, 1385-2728, doi 10.2174/1385272811317080008                                                                                                                                                                                                                                                                                                                                      |       |            |        |
| 115      | Grumezescu, A.M.; Cotar, A.I.; Andronescu, E.; Ficai, A.; Ghitulica, C.D.; Grumezescu, V.; Vasile, B.S.; Chifiriuc, M.C. In vitro activity of the new water-dispersible $Fe_3O_4$ @chitosan acid nanostructure against planktonic and sessile bacterial cells. JOURNAL OF NANOPARTICLE RESEARCH 2013, 15, WOS:000322173600014, 1388-0764, doi 10.1007/s11051-013-1766-3                                   | 2,132 | A.P.       | 2,132  |
| 116      | Voicu, G.; Dogaru, I.; Melita, D.; Mesterca, R.; Spirescu, V.; Stan, E.; Tote, E.; Mogoanta, L.; Mogosanu, G.D.; Grumezescu, A.M.; Trusca, R.; Vasile, E.; Iordache, F.; Chifiriuc, M.C.; Holban, A.M. Nanostructured mesoporous silica: New perspectives for fighting antimicrobial resistance. JOURNAL OF NANOPARTICLE RESEARCH 2015, 17, WOS:000355689300001, 1388-0764, doi 10.1007/s11051-015-3004-7 | 2,132 | A.P.       | 2,132  |
| 117      | Holban, A.M.; Iordanskii, A.; Grumezescu, A.M.; Bychkova, A.; Andronescu, E.; Mogoanta, L.; Mogosanu, G.D.; Iordache, F. Prosthetic devices with nanostructured surfaces for increased resistance to microbial colonization. CURRENT PHARMACEUTICAL BIOTECHNOLOGY 2015, 16, 112-120, WOS:000349389400004, 1389-2010, doi 10.2174/138920101602150112150303                                                 | 2,097 | A.P.       | 2,097  |
| 118      | Mateescu, A.L.; Dimov, T.V.; Grumezescu, A.M.; Gestal, M.C.; Chifiriuc, M.C. Nanostructured bioactive polymers used in food-packaging. CURRENT PHARMACEUTICAL BIOTECHNOLOGY 2015, 16, 121-127, WOS:000349389400005, 1389-2010, doi 10.2174/1389201015666141202110919                                                                                                                                      | 2,097 | 5          | 0,4194 |
| 119      | Mogosanu, G.D.; Grumezescu, A.M.; Huang, K.S.; Bejenaru, L.E.; Bejenaru, C. Prevention of microbial communities: Novel approaches based natural products. CURRENT PHARMACEUTICAL BIOTECHNOLOGY 2015, 16, 94-111, WOS:000349389400003, 1389-2010, doi 10.2174/138920101602150112145916                                                                                                                     | 2,097 | A.P.       | 2,097  |
| 120      | Mogosanu, G.D.; Grumezescu, A.M.; Chifiriuc, M.C.                                                                                                                                                                                                                                                                                                                                                         | 2,632 | A.P.       | 2,632  |

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                                                                 | FI    | Nr. autori | FIC      |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|----------|
|          | M.C. Keratin-based biomaterials for biomedical applications. CURRENT DRUG TARGETS 2014, 15, 518-530, WOS:000334351400005, 1389-4501, doi 10.2174/1389450115666140307154143                                                                                                                                                                                                              |       |            |          |
| 121      | Chifiriuc, M.C.; Grumezescu, A.M.; Andronescu, E.; Fikai, A.; Cotar, A.I.; Grumezescu, V.; Bezirtzoglou, E.; Lazar, V.; Radulescu, R. Water dispersible magnetite nanoparticles influence the efficacy of antibiotics against planktonic and biofilm embedded enterococcus faecalis cells. ANAEROBE 2013, 22, 14-19, WOS:000323297700003, 1075-9964, doi 10.1016/j.ANAEROBE.2013.04.013 | 2,709 | A.P.       | 2,709    |
| 122      | Anghel, I.; Holban, A.M.; Andronescu, E.; Grumezescu, A.M.; Chifiriuc, M.C. Efficient surface functionalization of wound dressings by a phytoactive nanocoating refractory to candida albicans biofilm development. BIOINTERPHASES 2013, 8, WOS:000322582800001, 1934-8630, doi 10.1186/1559-4106-8-12                                                                                  | 2,043 | A.P.       | 2,043    |
| 123      | Hsiao, W.T.; Lin, J.C.; Huang, K.S.; Yang, C.H.; Grumezescu, A.M.; Tseng, S.F.; Lin, Y.S. A novel continuous extrusion process to fabricate wedge-shaped light guide plates. INTERNATIONAL JOURNAL OF POLYMER SCIENCE 2013, 2013, WOS:000328772900001, 1687-9422, doi 10.1155/2013/610132                                                                                               | 1,646 | 7          | 0,235143 |
| 124      | Chifiriuc, M.C.; Mihaiescu, D.; Ilinca, E.; Marutescu, L.; Mihaescu, G.; Grumezescu, A.M. Influence of hybrid inorganic/organic mesoporous and nanostructured materials on the cephalosporins' efficacy on different bacterial strains. IET NANOBIO TECHNOLOGY 2012, 6, 156-161, WOS:000310517600005, 1751-8741, doi 10.1049/iet-nbt.2011.0066                                          | 1,859 | 6          | 0,309833 |
| 125      | Iordache, F.; Grumezescu, A.M.; Maniu, H.; Curutiu, C. Development of scaffolds for vascular tissue engineering: Biomaterial mediated neovascularization. Current Stem Cell Research & Therapy 2017, 12, 155-164, WOS:000390784200007, 1574-888X, doi 10.2174/1574888x11666151203223658                                                                                                 | 2,614 | 4          | 0,6535   |
| 126      | Anghel, I.; Grumezescu, A.M.; Anghel, A.G.;                                                                                                                                                                                                                                                                                                                                             | 1,607 | 7          | 0,229571 |

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                                                                    | FI    | Nr. autori | FIC      |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|----------|
|          | Chireac, I.; Marutescu, L.; Mihaiescu, D.E.; Chifiriuc, M.C. Antibiotic potentiator effect of the natural and synthetic zeolites with well defined nanopores with possible ent clinical applications. FARMACIA 2012, 60, 688-695, WOS:000310112300010, 0014-8237                                                                                                                           |       |            |          |
| 127      | Anghel, I.; Grumezescu, A.M.; Holban, A.M.; Gheorghe, I.; Vlad, M.; Anghel, G.A.; Balaure, P.C.; Chifiriuc, C.M.; Ciuca, I.M. Improved activity of aminoglycosides entrapped in silica networks against microbial strains isolated from otolaryngological infections. FARMACIA 2014, 62, 69-78, WOS:000331664700007, 0014-8237                                                             | 1,607 | 9          | 0,178556 |
| 128      | Bubulica, M.V.; Anghel, I.; Grumezescu, A.M.; Saviuc, C.; Anghel, G.A.; Chifiriuc, M.C.; Gheorghe, I.; Lazar, V.; Popescu, A. In vitro evaluation of bactericidal and antibiofilm activity of Ionicera tatarica and viburnum opulus plant extracts on staphylococcus strains. FARMACIA 2012, 60, 80-91, WOS:000300542400009, 0014-8237                                                     | 1,607 | 9          | 0,178556 |
| 129      | Saviuc, C.M.; Grumezescu, A.M.; Bleotu, C.; Holban, A.M.; Chifiriuc, M.C.; Balaure, P.; Predan, G.; Lazar, V. Culture methods versus flow cytometry for the comparative assessment of the antifungal activity of eugenia caryophyllata thunb. (myrtaceae) essential oil. FARMACIA 2013, 61, 912-919, WOS:000325909700008, 0014-8237                                                        | 1,607 | 8          | 0,200875 |
| 130      | Anghel, I.; Grumezescu, V.; Andronesu, E.; Anghel, G.A.; Grumezescu, A.M.; Mihaiescu, D.E.; Chifiriuc, M.C. Protective effect of magnetite nanoparticle/salvia officinalis essential oil hybrid nanobiosystem against fungal colonization on the provox (r) voice section prosthesis. DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 2012, 7, 1205-1212, WOS:000312709300039, 1842-3582 | 0,785 | A.P.       | 0,785    |
| 131      | Buteica, A.S.; Mihaiescu, D.E.; Grumezescu, A.M.; Vasile, B.S.; Popescu, A.; Calina, D.; Mihaiescu, O.M. The cytotoxicity of (non) magnetic nanoparticles tested on escherichia coli and staphylococcus aureus. DIGEST JOURNAL OF NANOMATERIALS AND                                                                                                                                        | 0,785 | 7          | 0,112143 |

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                                                                                                                     | FI    | Nr. autori | FIC      |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|----------|
|          | BIOSTRUCTURES 2010, 5, 651-655, WOS:000279345400011, 1842-3582                                                                                                                                                                                                                                                                                                                                                                              |       |            |          |
| 132      | Buteica, A.S.; Mihaiescu, D.E.; Grumezescu, A.M.; Vasile, B.S.; Popescu, A.; Mihaiescu, O.M.; Cristescu, R. The anti-bacterial activity of magnetic nanofluid: Fe <sub>3</sub> O <sub>4</sub> /oleic acid/cephalosporins core/shell/adsorption-shell proved on s. Aureus and e. Coli and possible applications as drug delivery systems. DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 2010, 5, 927-932, WOS:000284000400016, 1842-3582 | 0,785 | 7          | 0,112143 |
| 133      | Chifiriuc, C.; Lazar, V.; Bleotu, C.; Calugarescu, I.; Grumezescu, A.M.; Mihaiescu, D.E.; Mogosanu, D.E.; Buteica, A.S.; Buteica, E. Bacterial adherence to the cellular and inert substrate in the presence of coFe <sub>2</sub> O <sub>4</sub> and Fe <sub>3</sub> O <sub>4</sub> /oleic acid - core/shell. DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 2011, 6, 37-42, WOS:000289716200006, 1842-3582                              | 0,785 | A.P.       | 0,785    |
| 134      | Grumezescu, A.M.; Fikai, A.; Fikai, D.; Predan, G.; Chifiriuc, M.C. Polymeric magnetic silica microspheres as a drug loader for antimicrobial delivery substances. DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 2012, 7, 1891-1896, WOS:000312710300056, 1842-3582                                                                                                                                                                     | 0,785 | A.P.       | 0,785    |
| 135      | Grumezescu, V.; Chifiriuc, C.M.; Holban, A.M.; Stoica, P.; Grumezescu, A.M.; Voicu, G.; Socol, G.; Huang, K.S.; Bleotu, C.; Radulescu, R. Antimicrobial and biocompatibility assay of newly fabricated materials based copper or zinc alginate and SiO <sub>2</sub> network. DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 2013, 8, 869-U507, WOS:000322737500040, 1842-3582                                                            | 0,785 | 10         | 0,0785   |
| 136      | Jinga, S.I.; Voicu, G.; Stoica-Guzun, A.; Stroescu, M.; Grumezescu, A.M.; Bleotu, C. Biocellulose nanowhiskers cement composites for endodontic use. DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 2014, 9, 543-550, WOS:000339050700012, 1842-3582                                                                                                                                                                                     | 0,785 | 6          | 0,130833 |
| 137      | Mihaiescu, D.E.; Grumezescu, A.M.; Buteica,                                                                                                                                                                                                                                                                                                                                                                                                 | 0,785 | A.P.       | 0,785    |



| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                         | FI    | Nr. autori | FIC      |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|----------|
|          | A.S.; Mogosanu, D.E.; Balaure, P.C.; Mihaiescu, O.M.; Traistaru, V.; Vasile, B.S. Bioassay and electrochemical evaluation of controlled release behavior of cephalosporins from magnetic nanoparticles. DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 2012, 7, 253-260, WOS:000303649000028, 1842-3582                                      |       |            |          |
| 138      | Saviuc, C.; Grumezescu, A.M.; Chifiriuc, C.M.; Mihaiescu, D.E.; Hristu, R.; Stanciu, G.; Oprea, E.; Radulescu, V.; Lazar, V. Hybrid nanosystem for stabilizing essential oils in biomedical applications. DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES 2011, 6, 1657-1666, WOS:000300568100022, 1842-3582                                  | 0,785 | A.P.       | 0,785    |
| 139      | Holban, A.M.; Chifiriuc, M.C.; Cotar, A.I.; Bleotu, C.; Grumezescu, A.M.; Banu, O.; Lazar, V. Virulence markers in pseudomonas aeruginosa isolates from hospital-acquired infections occurred in patients with underlying cardiovascular disease. ROMANIAN BIOTECHNOLOGICAL LETTERS 2013, 18, 8843-8854, WOS:000330029900013, 1224-5984         | 0,765 | 7          | 0,109286 |
| 140      | Stoica, P.; Rapa, M.; Chifiriuc, M.C.; Lungu, M.; Tatia, R.; Nita, M.I.; Grumezescu, A.M.; Bertesteanu, S.; Bezirtzoglou, E.; Lazar, V. Antifungal bionanocomposites based on poly(lactic acid) and silver nanoparticles for potential medical devices. ROMANIAN BIOTECHNOLOGICAL LETTERS 2015, 20, 10696-10707, WOS:000361481700017, 1224-5984 | 0,765 | 10         | 0,0765   |
| 141      | Grumezescu, A.M.; Andronescu, E.; Fikai, A.; Saviuc, C.; Mihaiescu, D.; Chifiriuc, M.C. Deacellulose/fe3o4/cephalosporins hybrid materials for targeted drug delivery. REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS 2011, 41, 383-387, WOS:000298204200010, 1583-3186                                                              | 0,542 | A.P.       | 0,542    |
| 142      | Grumezescu, A.M.; Andronescu, E.; Fikai, A.; Voicu, G.; Cocos, O.; Chifiriuc, M.C. Eugenia caryophyllata essential oil-sio2 biohybrid structure for the potentiation of antibiotics' activity. REVISTA ROMANA DE                                                                                                                                | 0,542 | 6          | 0,090333 |

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                                                                                                                     | FI    | Nr. autori | FIC      |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|----------|
|          | MATERIALE-ROMANIAN JOURNAL OF MATERIALS 2013, 43, 160-166, WOS:000320638300005, 1583-3186                                                                                                                                                                                                                                                                                                                                                   |       |            |          |
| 143      | Holban, A.M.; Grumezescu, A.M.; Andronesu, E.; Grumezescu, V.; Chifiriuc, C.M.; Radulescu, R. Magnetite - usnic acid nanostructured bioactive material with antimicrobial activity. REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS 2013, 43, 402-407, WOS:000328923700006, 1583-3186                                                                                                                                             | 0,542 | A.P.       | 0,542    |
| 144      | Holban, A.M.; Grumezescu, A.M.; Ficai, A.; Chifiriuc, C.M.; Lazar, V.; Radulescu, R. Fe <sub>3</sub> O <sub>4</sub> @c-18-carvone to prevent candida tropicalis biofilm development. REVISTA ROMANA DE MATERIALE-ROMANIAN JOURNAL OF MATERIALS 2013, 43, 300-305, WOS:000324848100009, 1583-3186                                                                                                                                            | 0,542 | A.P.       | 0,542    |
| 145      | Wang, S.C.; Yang, C.H.; Grumezescu, A.M.; Lin, Y.M.; Huang, K.S.; Wang, W.T.; Su, H.Y.; Jhang, C.Y.; Chung, R.Y.; Chou, J.H. Renoprotective effects of shout camphor medicinal mushroom (taiwanofungus camphoratus, basidiomycetes) mycelia on several media in mice with chronic kidney disease. International Journal of Medicinal Mushrooms 2016, 18, 1105-1114, WOS:000395937300005, 1521-9437, doi 10.1615/IntJMedMushrooms.v18.i12.50 | 1,423 | 10         | 0,1423   |
| 146      | Anghel, I.; Grumezescu, A.M.; Anghel, A.G.; Saviuc, C.; Croitoru, C.; Mihaiescu, D.E.; Chifiriuc, C.M. Synthesis and bioevaluation of magnetic particles based on chitosan and phytocomponents from eugenia carryophyllata aqueous extract. ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL 2015, 14, 855-861, WOS:000353483700017, 1582-9596, doi 10.30638/eemj.2015.096                                                                  | 1,186 | 7          | 0,169429 |
| 147      | Chifiriuc, M.C.; Grumezescu, A.M.; Lazar, V.; Bolocan, A.; Triaridis, S.; Grigore, R.; Bertesteanu, S. Contribution of antimicrobial peptides to the development of new and efficient antimicrobial strategies. CURRENT PROTEOMICS 2014, 11, 98-107,                                                                                                                                                                                        | 0,68  | A.P.       | 0,68     |

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                                                                     | FI    | Nr. autori | FIC      |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|----------|
|          | WOS:000346476400005, 1570-1646, doi 10.2174/157016461102140917121943                                                                                                                                                                                                                                                                                                                        |       |            |          |
| 148      | Popescu, R.C.; Grumezescu, A.M. Magnetite nanostructures with applications in cancer therapy. CURRENT PROTEOMICS 2014, 11, 128-138, WOS:000346476400009, 1570-1646, doi 10.2174/157016461102140917122621                                                                                                                                                                                    | 0,68  | A.P.       | 0,68     |
| 149      | Vlad, M.; Andronesu, E.; Grumezescu, A.M.; Fikai, A.; Voicu, G.; Bleotu, C.; Chifiriuc, M.C. Carboxymethyl-cellulose/fe3o4 nanostructures for antimicrobial substances delivery. BIO-MEDICAL MATERIALS AND ENGINEERING 2014, 24, 1639-1646, WOS:000336408500010, 0959-2989, doi 10.3233/bme-140967                                                                                          | 1,243 | A.P.       | 1,243    |
| 150      | Grumezescu, A.M.; Mihaiescu, D.E.; Mogosanu, D.E.; Chifiriuc, M.C.; Lazar, V.; Calugarescu, I.; Traistaru, V. In vitro assay of the antimicrobial activity of fe3o4 and cofe2o4/oleic acid - core/shell on clinical isolates of bacterial and fungal strains. OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS 2010, 4, 1798-1801, WOS:000285399400040, 1842-6573, doi,IF2017 =. | 0,445 | A.P.       | 0,445    |
| 151      | Bolocan, A.; Mihaiescu, D.E.; Andronesu, E.; Voicu, G.; Grumezescu, A.M.; Fikai, A.; Vasile, B.S.; Bleotu, C.; Chifiriuc, M.C.; Pop, C.S. Biocompatible hydrodispersible magnetite nanoparticles used as antibiotic drug carriers. Romanian Journal Of Morphology And Embryology 2015, 56, 365-370, WOS:000358559400004, 1220-0522                                                          | 1,411 | 10         | 0,1411   |
| 152      | Bolocan, A.; Mihaiescu, D.E.; Mesterca, A.R.; Spirescu, V.A.; Tote, E.M.; Mogoanta, L.; Mogosanu, G.D.; Grumezescu, A.M. In vitro and in vivo applications of 3d dendritic gold nanostructures. Romanian Journal Of Morphology And Embryology 2015, 56, 915-924, WOS:000366837600002, 1220-0522                                                                                             | 1,411 | 8          | 0,176375 |
| 153      | Chircov, C.; Grumezescu, A.M.; Bejenaru, L.E. Hyaluronic acid-based scaffolds for tissue engineering. Romanian Journal Of Morphology And Embryology 2018, 59, 71-76, WOS:000438117200009, 1220-0522                                                                                                                                                                                         | 1,411 | A.P.       | 1,411    |

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                                                                  | FI    | Nr. autori | FIC      |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------|----------|
| 154      | Croitoru, C.D.; Mihaiescu, D.E.; Chifiriuc, M.C.; Bolocan, A.; Bleotu, C.; Grumezescu, A.M.; Saviuc, C.M.; Lazar, V.; Curutiu, C. Efficiency of gentamicin loaded in bacterial polysaccharides microcapsules against intracellular gram-positive and gram-negative invasive pathogens. Romanian Journal Of Morphology And Embryology 2015, 56, 1417-1421, WOS:000368382400022, 1220-0522 | 1,411 | 9          | 0,156778 |
| 155      | Fufa, M.O.M.; Mihaiescu, D.E.; Mogoanta, L.; Balseanu, T.A.; Mogosanu, G.D.; Grumezescu, A.M.; Bolocan, A. In vivo biodistribution of cnts using a balb/c mouse experimental model. Romanian Journal Of Morphology And Embryology 2015, 56, 1481-1493, WOS:000368382400031, 1220-0522                                                                                                    | 1,411 | 7          | 0,201571 |
| 156      | Istrate, C.M.; Holban, A.M.; Grumezescu, A.M.; Mogoanta, L.; Mogosanu, G.D.; Savopol, T.; Moiescu, M.; Iordache, M.; Vasile, B.S.; Kovacs, E. Iron oxide nanoparticles modulate the interaction of different antibiotics with cellular membranes. Romanian Journal Of Morphology And Embryology 2014, 55, 849-856, WOS:000344040000013, 1220-0522                                        | 1,411 | A.P.       | 1,411    |
| 157      | Lungu, II; Radulescu, M.; Mogosanu, G.D.; Grumezescu, A.M. Ph sensitive core-shell magnetic nanoparticles for targeted drug delivery in cancer therapy. Romanian Journal Of Morphology And Embryology 2016, 57, 23-32, WOS:000376048800002, 1220-0522                                                                                                                                    | 1,411 | 4          | 0,35275  |
| 158      | Melita, E.D.; Purcel, G.; Grumezescu, A.M. Carbon nanotubes for cancer therapy and neurodegenerative diseases. Romanian Journal Of Morphology And Embryology 2015, 56, 349-356, WOS:000358559400002, 1220-0522                                                                                                                                                                           | 1,411 | A.P.       | 1,411    |
| 159      | Popescu, E.L.; Balasoiu, M.; Cristea, O.M.; Stoica, A.E.; Oprea, O.C.; Vasile, B.S.; Grumezescu, A.M.; Bancescu, G.; Busuioc, C.J.; Mogosanu, G.D.; Streba, C.T.; Mogoanta, L. Study of antimicrobial effects of functionalized silver nanoparticles. Romanian Journal Of Morphology And Embryology 2019, 60, 939-946, WOS:000505600500025, 1220-0522                                    | 1,411 | 12         | 0,117583 |
| 160      | Popescu, R.C.; Andronesu, E.; Grumezescu, A.M. In vivo evaluation of fe <sub>3</sub> o <sub>4</sub> nanoparticles.                                                                                                                                                                                                                                                                       | 1,411 | A.P.       | 1,411    |

| Nr. crt. | Articol                                                                                                                                                                                                                                                                                                                                                                                                                                   | FI    | Nr. autori   | FIC             |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------|-----------------|
|          | Romanian Journal Of Morphology And Embryology 2014, 55, 1013-1018, WOS:000346957100001, 1220-0522                                                                                                                                                                                                                                                                                                                                         |       |              |                 |
| 161      | Popescu, R.C.; Fufa, M.O.M.; Grumezescu, A.M. Metal-based nanosystems for diagnosis. Romanian Journal Of Morphology And Embryology 2015, 56, 635-649, WOS:000362801600001, 1220-0522                                                                                                                                                                                                                                                      | 1,411 | A.P.         | 1,411           |
| 162      | Radulescu, M.; Andronescu, E.; Cirja, A.; Holban, A.M.; Mogoanta, L.; Balseanu, T.A.; Catalin, B.; Neagu, T.P.; Lascar, I.; Florea, D.A.; Grumezescu, A.M.; Ciubuca, B.; Lazar, V.; Chifiriuc, M.C.; Bolocan, A. Antimicrobial coatings based on zinc oxide and orange oil for improved bioactive wound dressings and other applications. Romanian Journal Of Morphology And Embryology 2016, 57, 107-114, WOS:000376048800012, 1220-0522 | 1,411 | A.P.         | 1,411           |
| 163      | Voicu, G.; Anghel, A.G.; Badea, M.; Bordei, E.; Crantea, G.; Gavrilă, R.I.; Grecu, A.; Jercan, D.A.M.; Nicolae, B.C.; Vochitoaia, G.C.; Tchinda, K.; Holban, A.M.; Bleotu, C.; Grumezescu, A.M. Silica network improve the effect of fludarabine and paclitaxel on hct8 cell line. Romanian Journal Of Morphology And Embryology 2014, 55, 545-551, WOS:000342868500006, 1220-0522                                                        | 1,411 | A.P.         | 1,411           |
| 164      | Voicu, G.; Crica, L.E.; Fufa, O.; Moraru, L.I.; Popescu, R.C.; Purcel, G.; Stoilescu, M.C.; Grumezescu, A.M.; Bleotu, C.; Holban, A.M.; Andronescu, E. Magnetite nanostructures functionalized with cytostatic drugs exhibit great anti-tumoral properties without application of high amplitude alternating magnetic fields. Romanian Journal Of Morphology And Embryology 2014, 55, 357-362, WOS:000338329700016, 1220-0522             | 1,411 | A.P.         | 1,411           |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                           |       | <b>Total</b> | <b>316,9063</b> |

19.11.2020

Conf.Dr.Ing. Alexandru Mihai GRUMEZESCU

**ANEXA LA FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR DE  
PREZENTARE LA CONCURS**

**– OBȚINEREA ATESTATULUI DE ABILITARE –**

**4. NC - Număr total de citări din baza SCOPUS.**

**Standarde minimale (cumulative): NC ≥ 120 conform OMEN nr. 6129/2016; Anexa nr. 8**

| Standarde minimale și obligatorii                                                 | Minim prevăzut | Realizat    |
|-----------------------------------------------------------------------------------|----------------|-------------|
| NC - Număr total de citări din baza SCOPUS (se exclude autocitările candidatului) | <b>≥ 120</b>   | <b>2569</b> |

Lista a fost realizată în conformitate cu prevederile **OMEN nr. 6129/2016; Anexa nr. 8 – Comisia de Inginerie Chimică, Inginerie Medicală, Știința Materialelor și Nanomateriale, Comisia CNATDCU Nr. 8**. Au fost utilizate doar citările indicate de baza de date **SCOPUS**. Au fost excluse autocitările.

| NC <sub>total</sub> | NC <sub>articol</sub> | Articolul care citeaza                                                                                                                                                                                                                                                                                                                     |
|---------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     |                       | Mogosanu, G.D.; Grumezescu, A.M. Natural and synthetic polymers for wounds and burns dressing. <i>International Journal of Pharmaceutics</i> 2014, 463, 127-136, WOS:000331188000003, 0378-5173, doi 10.1016/j.ijpharm.2013.12.015                                                                                                         |
| 1                   | 1.                    | Zia, T.; Usman, M.; Sabir, A.; Shafiq, M.; Khan, R.U. Development of inter-polymeric complex of anionic polysaccharides, alginate/k-carrageenan bio-platform for burn dressing. <i>International Journal of Biological Macromolecules</i> <b>2020</b> , 157, 83-95, doi:10.1016/j.ijbiomac.2020.04.157.                                    |
| 2                   | 2.                    | Zhang, A.; Liu, Y.; Qin, D.; Sun, M.; Wang, T.; Chen, X. Research status of self-healing hydrogel for wound management: A review. <i>International Journal of Biological Macromolecules</i> <b>2020</b> , 164, 2108-2123, doi:10.1016/j.ijbiomac.2020.08.109.                                                                              |
| 3                   | 3.                    | Zagórska-Dziok, M.; Sobczak, M. Hydrogel-based active substance release systems for cosmetology and dermatology application: A review. <i>Pharmaceutics</i> <b>2020</b> , 12, doi:10.3390/pharmaceutics12050396.                                                                                                                           |
| 4                   | 4.                    | Wu, T.; Ding, M.; Shi, C.; Qiao, Y.; Wang, P.; Qiao, R.; Wang, X.; Zhong, J. Resorbable polymer electrospun nanofibers: History, shapes and application for tissue engineering. <i>Chinese Chemical Letters</i> <b>2020</b> , 31, 617-625, doi:10.1016/j.cclet.2019.07.033.                                                                |
| 5                   | 5.                    | Wu, C.; Zhang, Z.; Zhou, K.; Chen, W.; Tao, J.; Li, C.; Xin, H.; Song, Y.; Ai, F. Preparation and characterization of borosilicate-bioglass-incorporated sodium alginate composite wound dressing for accelerated full-thickness skin wound healing. <i>Biomedical Materials (Bristol)</i> <b>2020</b> , 15, doi:10.1088/1748-605X/ab9421. |
| 6                   | 6.                    | Wen, Q.; Xu, L.; Xiao, X.; Wang, Z. Preparation, characterization, and antibacterial activity of cationic nanopolystyrenes. <i>Journal of Applied Polymer Science</i> <b>2020</b> , 137, doi:10.1002/app.48405.                                                                                                                            |

| NC total | NC articol | Articolul care citeaza                                                                                                                                                                                                                                                                                                                                  |
|----------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7        | 7.         | Wang, K.; Pan, S.; Qi, Z.; Xia, P.; Xu, H.; Kong, W.; Li, H.; Xue, P.; Yang, X.; Fu, C. Recent Advances in Chitosan-Based Metal Nanocomposites for Wound Healing Applications. <i>Advances in Materials Science and Engineering</i> <b>2020</b> , 2020, doi:10.1155/2020/3827912.                                                                       |
| 8        | 8.         | Wang, F.; Hu, S.; Jia, Q.; Zhang, L. Advances in Electrospinning of Natural Biomaterials for Wound Dressing. <i>Journal of Nanomaterials</i> <b>2020</b> , 2020, doi:10.1155/2020/8719859.                                                                                                                                                              |
| 9        | 9.         | Vivcharenko, V.; Benko, A.; Palka, K.; Wojcik, M.; Przekora, A. Elastic and biodegradable chitosan/agarose film revealing slightly acidic pH for potential applications in regenerative medicine as artificial skin graft. <i>International Journal of Biological Macromolecules</i> <b>2020</b> , 164, 172-183, doi:10.1016/j.ijbiomac.2020.07.099.    |
| 10       | 10.        | Vijayavenkataraman, S. Nerve guide conduits for peripheral nerve injury repair: A review on design, materials and fabrication methods. <i>Acta Biomaterialia</i> <b>2020</b> , 106, 54-69, doi:10.1016/j.actbio.2020.02.003.                                                                                                                            |
| 11       | 11.        | Varshney, N.; Sahi, A.K.; Poddar, S.; Mahto, S.K. Soy protein isolate supplemented silk fibroin nanofibers for skin tissue regeneration: Fabrication and characterization. <i>International Journal of Biological Macromolecules</i> <b>2020</b> , 160, 112-127, doi:10.1016/j.ijbiomac.2020.05.090.                                                    |
| 12       | 12.        | Varaprasad, K.; Jayaramudu, T.; Kanikireddy, V.; Toro, C.; Sadiku, E.R. Alginate-based composite materials for wound dressing application: A mini review. <i>Carbohydrate Polymers</i> <b>2020</b> , 236, doi:10.1016/j.carbpol.2020.116025.                                                                                                            |
| 13       | 13.        | Valério, A.; Wang, J.; Tong, S.; Ulson de Souza, A.A.; Hotza, D.; Gómez González, S.Y. Synergetic effect of photocatalysis and ozonation for enhanced tetracycline degradation using highly macroporous photocatalytic supports. <i>Chemical Engineering and Processing - Process Intensification</i> <b>2020</b> , 149, doi:10.1016/j.cep.2020.107838. |
| 14       | 14.        | Trevisol, T.C.; Scartazzini, L.; Valério, A.; Guelli Ulson de Souza, S.M.A.; Bierhalz, A.C.K.; Valle, J.A.B. Diclofenac release from alginate/carboxymethyl cellulose mono and bilayer films for wound dressing applications. <i>Cellulose</i> <b>2020</b> , 27, 6629-6642, doi:10.1007/s10570-020-03217-3.                                             |
| 15       | 15.        | Trache, D.; Tarchoun, A.F.; Derradji, M.; Hamidon, T.S.; Masruchin, N.; Brosse, N.; Hussin, M.H. Nanocellulose: From Fundamentals to Advanced Applications. <i>Frontiers in Chemistry</i> <b>2020</b> , 8, doi:10.3389/fchem.2020.00392.                                                                                                                |
| 16       | 16.        | Tolba, E. Diversity of Electrospinning Approach for Vascular Implants: Multilayered Tubular Scaffolds. <i>Regenerative Engineering and Translational Medicine</i> <b>2020</b> , 10.1007/s40883-020-00157-z, doi:10.1007/s40883-020-00157-z.                                                                                                             |
| 17       | 17.        | Tavakoli, S.; Klar, A.S. Advanced hydrogels as wound dressings. <i>Biomolecules</i> <b>2020</b> , 10, 1-20, doi:10.3390/biom10081169.                                                                                                                                                                                                                   |
| 18       | 18.        | Singh, B.; Kumar, A.; Rohit. Synthesis and characterization of alginate and sterculia gum based hydrogel for brain drug delivery applications.                                                                                                                                                                                                          |

| NC total | NC articol | Articolul care citeaza                                                                                                                                                                                                                                                                                                                                                                                |
|----------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |            | <i>International Journal of Biological Macromolecules</i> <b>2020</b> , 148, 248-257, doi:10.1016/j.ijbiomac.2020.01.147.                                                                                                                                                                                                                                                                             |
| 19       | 19.        | Schaefer, E.W.; Pavoni, J.M.F.; Luchese, C.L.; Faccin, D.J.L.; Tessaro, I.C. Influence of turmeric incorporation on physicochemical, antimicrobial and mechanical properties of the cornstarch and chitosan films. <i>International Journal of Biological Macromolecules</i> <b>2020</b> , 148, 342-350, doi:10.1016/j.ijbiomac.2020.01.148.                                                          |
| 20       | 20.        | Ranjbar Mohammadi, M.; Kargozar, S.; Bahrami, S.H.; Rabbani, S. An excellent nanofibrous matrix based on gum tragacanth-poly ( $\epsilon$ -caprolactone)-poly (vinyl alcohol) for application in diabetic wound healing. <i>Polymer Degradation and Stability</i> <b>2020</b> , 174, doi:10.1016/j.polymdegradstab.2020.109105.                                                                       |
| 21       | 21.        | Rajabi, M.; Ali, A.; McConnell, M.; Cabral, J. Keratinous materials: Structures and functions in biomedical applications. <i>Materials Science and Engineering C</i> <b>2020</b> , 110, doi:10.1016/j.msec.2019.110612.                                                                                                                                                                               |
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**ANEXA LA FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR DE  
PREZENTARE LA CONCURS**

**– OBȚINEREA ATESTATULUI DE ABILITARE –**

**5. NCO – număr contracte de cercetare-dezvoltare-inovare obținute prin competiție la nivel național sau internațional ori contracte de cercetare-dezvoltare-inovare cu terții în valoarea minimă echivalentă cu 10.000 euro (în calitate de director).**

**Standarde minimale (cumulative)  $NCO \geq 1$  conform OMEN nr. 6129/2016; Anexa nr. 8**

| Standarde minimale și obligatorii                                                                                                                                                                                                                  | Minim prevăzut | Realizat |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------|
| NCO – număr contracte de cercetare-dezvoltare-inovare obținute prin competiție la nivel național sau internațional ori contracte de cercetare-dezvoltare-inovare cu terții în valoarea minimă echivalentă cu 10.000 euro (în calitate de director) | $\geq 1$       | <b>1</b> |

Lista a fost realizată în conformitate cu prevederile **OMEN nr. 6129/2016; Anexa nr. 8 – Comisia de Inginerie Chimică, Inginerie Medicală, Știința Materialelor și Nanomateriale, Comisia CNATDCU Nr. 8.**

| Nr crt | Proiect                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | <p><b>Denumire proiect:</b> Platformă microfluidică multifuncțională de tipul lab-on-a-chip pentru fabricarea nanoparticulelor/Multifunctional lab-on-a-chip microfluidic platform for the fabrication of nanoparticles</p> <p><b>Acronim:</b> NANOCHIP</p> <p><b>Domeniu:</b> PE5_6 - New materials: oxides, alloys, composite, organic-inorganic hybrid, nanoparticles; PE5_7 - Biomaterials, biomaterials synthesis</p> <p><b>Cod proiect:</b> PN-III-P1-1.1-TE-2019-1450</p> <p><b>Nr contractului:</b> TE 103</p> <p><b>Valoarea totală a Contractului:</b> 431.900,00 RON ~ 86.000 EURO</p> <p><b>Calitate din partea UPB:</b> Director de proiect</p> |

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