

## Lista de lucrări

Alexandru Mihai GRUMEZESCU

### I. TEZA DE DOCTORAT

Nr. crt.	Detalii teza
1	Titlu: Biomateriale Compozite; Conducator științific: Prof.Dr.Ing. Ecaterina Andronescu; Diploma de Doctor in domeniul Inginerie Chimica, nr 44 din 15.01.2014 emisa de Universitatea Politehnica din Bucuresti in baza Ordinului Ministrului Educatiei Nationale Nr. 5581 MD, din 03.12.2013.

### II. CĂRȚI PUBLICATE

Cărți publicate la edituri în străinătate (in calitate de autor/co-autor)

Nr. crt.	Detalii
1	Mariana Oana Mihaela Fufa, Alexandru Mihai Grumezescu, Bioactive and nanostructured surfaces: new strategies to control microbial infections, Lambert Academic Publishing, Germany, 978-3-659-32735-3, 2015.
2	Crina Maria Saviuc, Ani Ioana Cotar, Alexandru Mihai Grumezescu, Essential oils with antimicrobial properties: New strategies to control the infections with biofilms related microorganisms, Lambert Academic Publishing, Germany, 978-659-42461-8, 2013.
3	Carmen Limban, Alexandru Mihai Grumezescu, Mariana Carmen Chifiriuc, Thiourea Derivatives As Antimicrobials: Synthesis, Biological Activity and Potentiation by Nanotechnological solutions, Lambert Academic Publishing, Germany, 978-659-38540-7, 2013.
4	Rebecca A. Puiu, Ecaterina Andronescu, Alexandru M. Grumezescu, Zinc oxide thin coatings: new trend to reduce microbial colonization on nasogastric tubes, Lambert Academic Publishing, Germany, 978-3-659-76748-7, 2015.
5	Kostantinos Pantapasis, Alexandru Mihai Grumezescu, Biomedical applications of gold nanoparticles, Lambert Academic Publishing, Germany, 978-3-659-82295-7, 2016.
6	Denisa Alexandra Florea, Alexandru Mihai Grumezescu, Titanium implants with modified surface for rapid osseointegration, Lambert Academic Publishing, Germany, 978-3-659-87169-6, 2016.
7	Alina Maria Holban, Alexandru Mihai Grumezescu, Novel Molecular Approaches in Targeting Microbial Virulence for Handling Infections, De Gruyter OPEN, Germany, 978-3-11-044949-5, 2015.

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Nr. crt.	Detalii
1	Alexandru Mihai Grumezescu: Applications of Nanobiomaterials (Muti-Volume SET I-XI), Volume I: Fabrication and Self-Assembly of Nanobiomaterials, 1st Edition, ISBN: 9780323415330, ELSEVIER (William Andrew), Oxford, UK, 2016.
2	Alexandru Mihai Grumezescu: Applications of Nanobiomaterials (Muti-Volume SET I-XI), Volume II: Engineering of NanoBioMaterials, 1st Edition, ISBN: 9780323415323, ELSEVIER (William Andrew), Oxford, UK, 2016.
3	Alexandru Mihai Grumezescu: Applications of Nanobiomaterials (Muti-Volume SET I-XI), Volume III: Surface Chemistry of NanoBioMaterials, 1st Edition, ISBN: 9780323428613, ELSEVIER (William Andrew), Oxford, UK, 2016
4	Alexandru Mihai Grumezescu: Applications of Nanobiomaterials (Muti-Volume SET I-XI), Volume IV: NanoBioMaterials in Hard Tissue Engineering, 1st Edition, ISBN: 9780323428620, ELSEVIER (William Andrew), Oxford, UK, 2016.
5	Alexandru Mihai Grumezescu: Applications of Nanobiomaterials (Muti-Volume SET I-XI), Volume V: NanoBioMaterials in Soft Tissue Engineering, 1st Edition, ISBN: 9780323428651, ELSEVIER (William Andrew), Oxford, UK, 2016.
6	Alexandru Mihai Grumezescu: Applications of Nanobiomaterials (Muti-Volume SET I-XI), Volume VI: NanoBioMaterials in Antimicrobial Therapy, 1st Edition, ISBN: 9780323428644, ELSEVIER (William Andrew), Oxford, UK, 2016.
7	Alexandru Mihai Grumezescu: Applications of Nanobiomaterials (Muti-Volume SET I-XI), Volume VII: NanoBioMaterials in Cancer Therapy, 1st Edition, ISBN: 9780323428637, ELSEVIER (William Andrew), Oxford, UK, 2016.
8	Alexandru Mihai Grumezescu: Applications of Nanobiomaterials (Muti-Volume SET I-XI), Volume VIII: NanoBioMaterials in Medical Imaging, 1st Edition, ISBN: 9780323417365, ELSEVIER (William Andrew), Oxford, UK, 2016.
9	Alexandru Mihai Grumezescu: Applications of Nanobiomaterials (Muti-Volume SET I-XI), Volume IX: NanoBioMaterials in Drug Delivery, 1st Edition, ISBN: 9780323428668, ELSEVIER (William Andrew), Oxford, UK, 2016.
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12	Alina Maria Holban, Alexandru Mihai Grumezescu: Nanoarchitectonics for Smart Delivery and Drug Targeting, ISBN: 9780323477222, ELSEVIER (William Andrew), Oxford, UK, 2016.
13	Alexandru Mihai Grumezescu: Nanotechnology in the agri-food industry (Muti-Volume SET I-X), Volume I: Novel Approaches of Nanotechnology in Food, 1st Edition, ISBN: 9780128043790, ELSEVIER (Academic Press), Cambridge, USA, 2017.
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	Volume SET I-X), Volume II: Encapsulations, 1st Edition, ISBN: 9780128043783, ELSEVIER (Academic Press), Cambridge, USA, 2017.
15	Alexandru Mihai Grumezescu: Nanotechnology in the agri-food industry (Multi-Volume SET I-X), Volume III: Emulsions, 1st Edition, ISBN: 9780128043066, ELSEVIER (Academic Press), Cambridge, USA, 2017.
16	Alexandru Mihai Grumezescu: Nanotechnology in the agri-food industry (Multi-Volume SET I-X), Volume IV: Nutraceuticals, 1st Edition, ISBN: 9780128043769, ELSEVIER (Academic Press), Cambridge, USA, 2017.
17	Alexandru Mihai Grumezescu: Nanotechnology in the agri-food industry (Multi-Volume SET I-X), Volume V: Nutrient Delivery, 1st Edition, ISBN: 9780128043042, ELSEVIER (Academic Press), Cambridge, USA, 2017.
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20	Alexandru Mihai Grumezescu: Nanotechnology in the agri-food industry (Multi-Volume SET I-X), Volume VIII: Nanobiosensors, 1st Edition, ISBN: 9780128043721, ELSEVIER (Academic Press), Cambridge, USA, 2017.
21	Alexandru Mihai Grumezescu: Nanotechnology in the agri-food industry (Multi-Volume SET I-X), Volume IX: Water Purifications, 1st Edition, ISBN: 9780128043004, ELSEVIER (Academic Press), Cambridge, USA, 2017.
22	Alexandru Mihai Grumezescu: Nanotechnology in the agri-food industry (Multi-Volume SET I-X), Volume X: New Pesticides and Soil Sensors, 1st Edition, ISBN: 9780128042991, ELSEVIER (Academic Press), Cambridge, USA, 2017.
23	Alexandru Mihai Grumezescu, Alina Maria Holban: Handbook of Food Bioengineering (Multi Volume SET I-XX), Volume I: Food Biosynthesis, 1st Edition, ISBN: 9780128112076, ELSEVIER (Academic Press), Cambridge, USA, 2018.
24	Alexandru Mihai Grumezescu, Alina Maria Holban: Handbook of Food Bioengineering (Multi Volume SET I-XX), Volume II: Food Bioconversion, 1st Edition, ISBN: 9780128114131, ELSEVIER (Academic Press), Cambridge, USA, 2018.
25	Alexandru Mihai Grumezescu, Alina Maria Holban: Handbook of Food Bioengineering (Multi Volume SET I-XX), Volume III: Soft Chemistry and food fermentation, 1st Edition, ISBN: 9780128114124, ELSEVIER (Academic Press), Cambridge, USA, 2018.
26	Alexandru Mihai Grumezescu, Alina Maria Holban: Handbook of Food Bioengineering (Multi Volume SET I-XX), Volume IV: Ingredients extraction by physico-chemical methods in food, 1st Edition, ISBN: 9780128115213, ELSEVIER (Academic Press), Cambridge, USA, 2018.
27	Alina Maria Holban, Alexandru Mihai Grumezescu: Handbook of Food Bioengineering (Multi Volume SET I-XX), Volume V: Microbial production of ingredients and additives, 1st Edition, ISBN: 9780128115206, ELSEVIER (Academic Press), Cambridge, USA, 2018.

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28	Alina Maria Holban, Alexandru Mihai Grumezescu: Handbook of Food Bioengineering (Multi Volume SET I-XX), Volume VI: Genetically engineered foods, 1st Edition, ISBN: 9780128115190, ELSEVIER (Academic Press), Cambridge, USA, 2018.
29	Alexandru Mihai Grumezescu, Alina Maria Holban: Handbook of Food Bioengineering (Multi Volume SET I-XX), Volume VII: Natural and artificial flavouring agents and food dyes, 1st Edition, ISBN: 9780128115183, ELSEVIER (Academic Press), Cambridge, USA, 2018.
30	Alina Maria Holban, Alexandru Mihai Grumezescu: Handbook of Food Bioengineering (Multi Volume SET I-XX), Volume VIII: Therapeutic foods, 1st Edition, ISBN: 9780128115176, ELSEVIER (Academic Press), Cambridge, USA, 2018.
31	Alexandru Mihai Grumezescu, Alina Maria Holban: Handbook of Food Bioengineering (Multi Volume SET I-XX), Volume IX: Food packaging and preservation, 1st Edition, ISBN: 9780128115169, ELSEVIER (Academic Press), Cambridge, USA, 2018.
32	Alina Maria Holban, Alexandru Mihai Grumezescu: Handbook of Food Bioengineering (Multi Volume SET I-XX), Volume X: Microbial Contamination and food degradation, 1st Edition, ISBN: 9780128115152, ELSEVIER (Academic Press), Cambridge, USA, 2018.
33	Alina Maria Holban, Alexandru Mihai Grumezescu: Handbook of Food Bioengineering (Multi Volume SET I-XX), Volume XI: Diet, Microbiome and health, 1st Edition, ISBN: 9780128114407, ELSEVIER (Academic Press), Cambridge, USA, 2018.
34	Alexandru Mihai Grumezescu, Alina Maria Holban: Handbook of Food Bioengineering (Multi Volume SET I-XX), Volume XII: Impact of nanoscience in the food industry, 1st Edition, ISBN: 9780128114414, ELSEVIER (Academic Press), Cambridge, USA, 2018.
35	Alina Maria Holban, Alexandru Mihai Grumezescu: Handbook of Food Bioengineering (Multi Volume SET I-XX), Volume XIII: Food quality: balance health and disease, 1st Edition, ISBN: 9780128114421, ELSEVIER (Academic Press), Cambridge, USA, 2018.
36	Alina Maria Holban, Alexandru Mihai Grumezescu: Handbook of Food Bioengineering (Multi Volume SET I-XX), Volume XIV: Advances in biotechnology for food industry, 1st Edition, ISBN: 9780128114438, ELSEVIER (Academic Press), Cambridge, USA, 2018.
37	Alina Maria Holban, Alexandru Mihai Grumezescu: Handbook of Food Bioengineering (Multi Volume SET I-XX), Volume XV: Foodborne diseases, 1st Edition, ISBN: 9780128114445, ELSEVIER (Academic Press), Cambridge, USA, 2018.
38	Alina Maria Holban, Alexandru Mihai Grumezescu: Handbook of Food Bioengineering (Multi Volume SET I-XX), Volume XVI: Food control and biosecurity, 1st Edition, ISBN: 9780128114452, ELSEVIER (Academic Press), Cambridge, USA, 2018.
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42	Alexandru Mihai Grumezescu, Alina Maria Holban: Handbook of Food Bioengineering (Multi Volume SET I-XX), Volume XX: Biopolymers for food design, 1st Edition, ISBN: 9780128114490, ELSEVIER (Academic Press), Cambridge, USA, 2018.
43	Alexandra Elena Oprea, Alexandru Mihai Grumezescu: Nanotechnology applications in food: flavour, stability, nutrition and safety, ISBN: 978-0-12-811942-6, ELSEVIER (Academic Press), Cambridge, USA, 2017.
44	Alexandru Mihai Grumezescu: Multifunctional systems for combined delivery, biosensing and diagnostics, ISBN: 978-0-323-52725-5, ELSEVIER, USA, 2017.
45	Alexandru Mihai Grumezescu: Nano-and microscale drug delivery systems: design and fabrication, ISBN: 978-0-323-52727-9, ELSEVIER, USA, 2017.
46	Alexandru Mihai Grumezescu: Antimicrobial nanoarchitectonics, ISBN: 978-0-323-52733-0, ELSEVIER, USA, 2017.
47	Denisa Ficai, Alexandru Mihai Grumezescu: Nanostructures for novel therapy: synthesis, characterization and applications, ISBN: 978-0-323-46142-9, ELSEVIER, USA, 2017.
48	Ecaterina Andronescu, Alexandru Mihai Grumezescu: Nanostructures for drug delivery, ISBN: 978-0-323-46143-6, ELSEVIER, USA, 2017.
49	Anton Ficai, Alexandru Mihai Grumezescu: Nanostructures for cancer therapy, ISBN: 978-0-323-46144-3, ELSEVIER, USA, 2017.
50	Ecaterina Andronescu, Alexandru Mihai Grumezescu: Nanostructures for oral medicine, ISBN: 978-0-323-47720-8, ELSEVIER, USA, 2017.
51	Anton Ficai, Alexandru Mihai Grumezescu: Nanostructures for antimicrobial therapy, ISBN: 978-0-323-46152-8, ELSEVIER, USA, 2017.
52	Alexandru Mihai Grumezescu: Fullerenes, Graphenes and Nanotubes, ISBN: 9780128136928, ELSEVIER, USA, 2018.
53	Alexandru Mihai Grumezescu: Design and Development of New Nanocarriers, ISBN: 9780128136287, ELSEVIER, USA, 2018.
54	Alexandru Mihai Grumezescu: Design of Nanostructures for Versatile Therapeutic Applications, ISBN: 9780128136683, ELSEVIER, USA, 2018.
55	Alexandru Mihai Grumezescu: Nanostructures for the Engineering of Cells, Tissues and Organs, ISBN: 9780128136669, ELSEVIER, USA, 2018.
56	Alexandru Mihai Grumezescu: Inorganic Frameworks as Smart Nanomedicines, ISBN: 9780128136621, ELSEVIER, USA, 2018.
57	Alexandru Mihai Grumezescu: Design of Nanostructures for Theranostics Applications, ISBN: 9780128136706, ELSEVIER, USA, 2018.

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58	Alexandru Mihai Grumezescu: Lipid Nanocarriers for Drug Targeting, ISBN: 9780128136881, ELSEVIER, USA, 2018.
59	Alexandru Mihai Grumezescu: Nanoscale Fabrication, Optimization, Scale-up and Biological Aspects of Pharmaceutical Nanotechnology, ISBN: 9780128136300, ELSEVIER, USA, 2018.
60	Alexandru Mihai Grumezescu: Drug Targeting and Stimuli Sensitive Drug Delivery Systems, ISBN: 9780128136904, ELSEVIER, USA, 2018.
61	Alexandru Mihai Grumezescu: Organic Materials as Smart Nanocarriers for Drug Delivery, ISBN: 9780128136645, ELSEVIER, USA, 2018.
62	Alexandru Mihai Grumezescu, Alina Maria Holban: Nanoengineering in the Beverage Industry, ISBN: 9780128172841, Academic Press, USA, 2019
63	Alexandru Mihai Grumezescu, Alina Maria Holban: Biotechnological Progress and Beverage Consumption, ISBN: 9780128172858, Academic Press, USA, 2019
64	Alexandru Mihai Grumezescu, Alina Maria Holban: Safety Issues in Beverage Production, ISBN: 9780128166802, Academic Press, USA, 2019
65	Alexandru Mihai Grumezescu, Alina Maria Holban: Quality Control in the Beverage Industry, ISBN: 9780128166826, Academic Press, USA, 2019
66	Alexandru Mihai Grumezescu, Alina Maria Holban: Trends in Beverage Packaging, ISBN: 9780128166840, Academic Press, USA, 2019
67	Alexandru Mihai Grumezescu, Alina Maria Holban: Preservatives and Preservation Approaches in Beverages, ISBN: 9780128166864, Academic Press, USA, 2019
68	Alexandru Mihai Grumezescu, Alina Maria Holban: Natural Beverages, ISBN: 9780128166901, Academic Press, USA, 2019
69	Alexandru Mihai Grumezescu, Alina Maria Holban: Value-Added Ingredients and Enrichments of Beverages, ISBN: 9780128166888, Academic Press, USA, 2019
70	Alexandru Mihai Grumezescu, Alina Maria Holban: Nutrients in Beverages, ISBN: 9780128169254, Academic Press, USA, 2019
71	Alexandru Mihai Grumezescu, Alina Maria Holban: Functional and Medicinal Beverages, ISBN: 9780128172636, Academic Press, USA, 2019
72	Alexandru Mihai Grumezescu, Alina Maria Holban: Sports and Energy Drinks, ISBN: 9780128165294, Academic Press, USA, 2019
73	Alexandru Mihai Grumezescu, Alina Maria Holban: Milk-Based Beverages, ISBN: 9780128157114, Academic Press, USA, 2019
74	Alexandru Mihai Grumezescu, Alina Maria Holban: Caffeinated and Cocoa Based Beverages, ISBN: 9780128158654, Academic Press, USA, 2019
75	Alexandru Mihai Grumezescu, Alina Maria Holban: Alcoholic Beverages, ISBN: 9780128157015, Academic Press, USA, 2019
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77	Alexandru Mihai Grumezescu, Alina Maria Holban: Fermented Beverages, ISBN: 9780128157039, Academic Press, USA, 2019
78	Alexandru Mihai Grumezescu, Alina Maria Holban: Bottled and Packaged Water, ISBN: 9780128157046, Academic Press, USA, 2019
79	Alexandru Mihai Grumezescu, Alina Maria Holban: Engineering Tools in the Beverage Industry, ISBN: 9780128156988, Academic Press, USA, 2019

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80	Alexandru Mihai Grumezescu, Alina Maria Holban: Production and Management of Beverages, ISBN: 9780128157008, Academic Press, USA, 2019
81	Alexandru Mihai Grumezescu, Alina Maria Holban: Processing and Sustainability of Beverages, ISBN: 9780128156995, Academic Press, USA, 2018
82	Valentina Grumezescu, Alexandru Mihai Grumezescu: Materials for Biomedical Engineering, ISBN: 9780081028155, Elsevier, USA, 2019
83	Alina Maria Holban, Alexandru Mihai Grumezescu: Materials for Biomedical Engineering: Organic Micro and Nanostructures, ISBN: 9780128184349, Elsevier, USA, 2019
84	Alina Maria Holban, Alexandru Mihai Grumezescu: Materials for Biomedical Engineering: Bioactive Materials for Antimicrobial, Anticancer, and Gene Therapy, ISBN: 9780128184363, Elsevier, USA, 2019
85	Valentina Grumezescu, Alexandru Mihai Grumezescu: Materials for Biomedical Engineering: Bioactive Materials, Properties, and Applications, ISBN: 9780128184325, Elsevier, USA, 2019
86	Valentina Grumezescu, Alexandru Mihai Grumezescu: Materials for Biomedical Engineering: Absorbable Polymers, ISBN: 9780128184165, Elsevier, USA, 2019
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88	Alina Maria Holban, Alexandru Mihai Grumezescu: Materials for Biomedical Engineering: Hydrogels and Polymer-based Scaffolds, ISBN: 9780128169025, Elsevier, USA, 2019
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90	Valentina Grumezescu, Alexandru Mihai Grumezescu: Materials for Biomedical Engineering: Thermoset and Thermoplastic Polymers, ISBN: 9780128168752, Elsevier, USA, 2019
91	Alina Maria Holban, Alexandru Mihai Grumezescu: Materials for Biomedical Engineering: Nanobiomaterials in Tissue Engineering, ISBN: 9780128169100, Elsevier, USA, 2019
92	Alexandru Mihai Grumezescu: Nanoparticles in Pharmacotherapy, ISBN: 9780128166284, William Andrew, USA, 2019
93	Alexandru Mihai Grumezescu: Nanoarchitectonics in Biomedicine, ISBN: 9780128172612, William Andrew, USA, 2019
94	Alexandru Mihai Grumezescu: Nanomaterials for Drug Delivery and Therapy, ISBN: 9780128166291, Elsevier, USA, 2019
95	Alexandru Mihai Grumezescu: Biomedical Applications of Nanoparticles, ISBN: 9780128166307, William Andrew, USA, 2019
96	Alina Maria Holban, Alexandru Mihai Grumezescu: Therapeutic, Probiotic, and Unconventional Foods, ISBN: 9780128146262, Academic Press, USA, 2018
97	Alina Maria Holban, Alexandru Mihai Grumezescu: Food Safety and Preservation, ISBN: 9780128149577, Academic Press, USA, 2018

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### III. Alte materiale publicate

#### Culegeri și îndrumare publicate

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1	Denisa Ficai, Anton Ficai, Alexandru Mihai Grumezescu, Organic Chemistry : Collection of theoretical applications (Chimie organica : Culegere de aplicatii teoretice), Ed. Sitech, Craiova, Romania, 978-606-11-2343-8, 2013.
2	Paul Catalin Balaure, Alexandru Mihai Grumezescu, Application of molecular orbital theory in advanced organic synthesis. Commented problems (Aplicatii ale teoriei orbitalilor moleculari in Sinteza Organica Avansata. Probleme comentate) Ed. Sitech, Craiova, Romania, 978-606-11-0883-1, 2010.
3	Alexandru Mihai Grumezescu, Theoretical aspects of fragmentation mechanisms specific to electron ionization and interpretation of MS spectra with 1H-NMR simulated assistance (Bazele teoretice ale mecanismelor de fragmentare specifice ionizarii electronice, și interpretarea spectrelor MS cu asistență 1H-RMN simulată), Ed. Sitech, Craiova, Romania, 978-606-11-0699-8, 2010.

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1	Nicolae, A.; Grumezescu, A.M. <i>Recent progress in polyester-urethanes</i> ; 2019; 10.1016/b978-0-12-818415-8.00014-0pp. 409-423. (Materials for Biomedical Engineering: Absorbable Polymers 9780128184165)
2	Florea, D.A.; Grumezescu, V.; Grumezescu, A.M.; Andronescu, E. <i>Clinical applications of bioactive materials</i> ; 2019; 10.1016/b978-0-12-818431-8.00016-7pp. 527-543. (Materials for Biomedical Engineering: Bioactive Materials, Properties, and Applications 9780128184325)
3	Burdusel, A.C.; Gherasim, O.; Grumezescu, V.; Grumezescu, A.M. <i>Degradation versus resorption</i> ; 2019; 10.1016/b978-0-12-818415-8.00001-2pp. 1-18. (Materials for Biomedical Engineering: Absorbable Polymers 9780128184165)
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5	Vlasceanu, G.M.; Holban, A.M.; Grumezescu, A.M. Alternative strategies to reduce the incidence of severe infections. In <i>Biofilms and Implantable Medical Devices: Infection and Control</i> , Deng, Y., Lv, W., Eds. 2017; 10.1016/b978-0-08-100382-4.00009-5pp. 195-221. (Woodhead Publishing Series in Biomaterials 9780081003985)
6	Puiu, R.A.; Dolete, G.; Ene, A.M.; Nicoara, B.; Vlasceanu, G.M.; Holban, A.M.; Grumezescu, A.M.; Bolocan, A. Properties of biofilms developed on medical devices. In <i>Biofilms and Implantable Medical Devices: Infection and Control</i> , Deng, Y., Lv, W., Eds. 2017; 10.1016/b978-0-08-100382-4.00002-2pp. 25-46. (Woodhead Publishing Series in Biomaterials 9780081003985)
7	Popescu, R.C.; Popescu, D.; Grumezescu, A.M. <i>Applications of rubber-based blends</i> ; 2017; 10.1016/b978-0-08-100408-1.00004-2pp. 75-109. (Recent Developments in Polymer Macro, Micro and Nano Blends: Preparation and Characterization)



	9780081004272)
8	Popescu, R.C.; Fufa, O.; Apostol, A.I.; Popescu, D.; Grumezescu, A.M.; Andronesu, E. <i>Antimicrobial Thin Coatings Prepared by Laser Processing</i> ; 2017; 10.1016/b978-0-323-46152-8.00009-3pp. 223-236. (Nanostructures for Antimicrobial Therapy 9780323461511)
9	Popescu, R.C.; Fufa, M.O.M.; Grumezescu, A.M.; Holban, A.M. <i>Nanostructured Membranes For The Microbiological Purification Of Drinking Water</i> ; 2017; Vol. 9, pp. 421-446. (Water Purification 978-0-12-804300-4)
10	Pantapasis, K.; Grumezescu, A.M. <i>Gold Nanoparticles: Advances In Water Purification Approaches</i> ; 2017; Vol. 9, pp. 447-477. (Water Purification 978-0-12-804300-4)
11	Pantapasis, K.; Anton, G.C.; Bontas, D.A.; Sarghiuta, D.; Grumezescu, A.M.; Holban, A.M. <i>Bioengineered Nanomaterials For Chemotherapy</i> ; 2017; pp. 23-49. (Nanostructures for Cancer Therapy 9780323461504)
12	Mogosanu, G.D.; Grumezescu, A.M.; Bejenaru, C.; Bejenaru, L.E. <i>Natural Products Used For Food Preservation</i> ; 2017; Vol. 6, pp. 365-411. (Food Preservation 9780128043745)
13	Lungu, II; Holban, A.M.; Ficai, A.; Grumezescu, A.M. <i>Zinc Oxide Nanostructures: New Trends in Antimicrobial Therapy</i> ; 2017; 10.1016/b978-0-323-46152-8.00022-6pp. 503-514. (Nanostructures for Antimicrobial Therapy 9780323461511)
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## V. BREVETE DE INVENȚIE

*Brevete de invenție. Inovații și alte creații.*

## VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE

Proiecte de cercetare-dezvoltare – inovare obtinute prin competitie, pe bază de contract/grant, in tara/străinatate.

Nr. crt.	Detalii
1	PN-III-P1-1.2-PCCDI-2017-0749 - Nanostructuri bioactive pentru strategii terapeutice inovatoare, Domeniu: Eco-nanotehnologii și materiale avansate, in calitate de responsabil din partea UPB, Valoare aferenta UPB: 500.000 RON.
2	Era Net Rus Plus project, „Titanium Oxynitride Coatings for the Improvement of Biocompatibility and Long-Term Functionality of Cardiovascular Stents: Development of Novel Deposition Technology- TIOXTECH-BIO”; Period of implementation: 2015-2018; membru in echipa de cercetare, Valoare proiect 818 999.5RON;
3	PN-III-P2-2.1-PTE-2016-0146; Novel nanostructured polymeric composite designed for pallet lining, connecting plate and other components for the railway industry; Period of implementation: 2016-2018; membru in echipa de cercetare, Valoare proiect 280 000RON;
4	PN-III-P2-2.1-PTE-2016-0156; Harnessing recycled thermoplastic polymers by reinforcement with functionalized natural fibers to obtain new added-value products; Period of implementation: 2016-2018; membru in echipa de cercetare, Valoare proiect 142 000RON;
5	PN-III-P2-2.1-PTE-2016-0177; Composite hydrogels based on inorganic nanoparticles and collagen with prolonged antimicrobial activity designed for the infection prevention of wound; Period of implementation: 2016-2018; membru in echipa de cercetare, Valoare proiect 332 600RON;
6	Reconstruction of the ligaments using advanced structured materials based on ligasint natural and synthetic polymers – LIGASINT- Period of implementation: 2014-2017; membru in echipa de cercetare, Valoare proiect 350000 RON;
7	Novel nanostructured prosthetic tubular devices with antibacterial and antibiofilm properties induced by physico-chemical and morphological changes – AntiBioTube- Period of implementation: 2012-2016; membru in echipa de cercetare, Valoare proiect 1300000 RON;
8	Hybrid composite materials with thermoplastic matrices doped with fibres and disperse nano fillings for materials with special purposes – HYBRIDMAT- AntiBioTube- Period of implementation: 2012-2016; membru in echipa de cercetare, Valoare proiect 880000 RON;
9	PN-III-P2-2.1-PED-2019-4569; Cold plasma for fluoride retention improvement and biofilm modulation in dental application- PlasmaDent – Period of

<b>Nr. crt.</b>	<b>Detalii</b>
	implementation: 2020-2022; Responsabil proiect din partea UPB; Valoare proiect: 600000 RON;
<b>10</b>	PN-III-P1-1.1-TE-2019-1450; Multifunctional lab-on-a-chip microfluidic platform for the fabrication of nanoparticles – NANOCHIP – Period of implementation: 2020-2022; Director de proiect din partea UPB; Valoare proiect: 431900 RON;

Conf. Dr. Ing. Alexandru Mihai GRUMEZESCU