

**Fisa de verificare a indeplinirii standardelor minimale
in domeniul INGINERIA MEDIULUI
a candidatului**

**Conf. Dr. Ing. Andra Mihaela PREDESCU, conform ANEXA Nr. 4 din Ordinul nr.
6129/2016 (Anexa nr. 18 la Ordinul nr. 6.560/2012, Anexa nr. 18 - COMISIA INGINERIA
MEDIULUI)**

Standarde minimale necesare și obligatorii pentru conferirea titlurilor didactice din
învățământul superior și a gradelor profesionale de cercetare-dezvoltare

1. Conditii minimale (cumulative)			
		Conditii Profesor	Punctaj obtinut
a)	NT	≥ 25	42
b1)	NP	≥ 10	12
b2)	Numar lucrari în reviste cu FI > 1	Minim 6	9
c)	FIC	≥ 20	31.58
	Brevetele naționale (FI-1) și internaționale (FI – 3) intră în calcul	-	2
d)	NC	≥ 100	189

Se definesc:

NT- număr total de articole în reviste ISI

FIC – factor de impact cumulate (suma factorilor de impact al revistelor la momentul suținerii publice a tezei de doctorat sau la momentul înscrierii la concursul pentru ocuparea unei poziții didactice)

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

NC – număr total de citări din baza SCOPUS sau ISI Web of Science, excluzându-se autocitățile

Andra Mihaela PREDESCU

Data: 21.04.2021

Conditii minimale (cumulative)

a) NT - număr total de articole în reviste ISI

Nr. crt.	Date articol:	Factor Impact (FI)
1.	Matei E., Gaidau C., Rapa M., Stefan L. M., Ditu L. M., Predescu A. M., Stanca M., Pantilimon M. C., Berechet M. D., Predescu C., Mosutiu A., <i>Sustainable coated nanostructures based on alginate and electrospun collagen loaded with antimicrobial agents</i>, in Coatings, Vol. 11, Issue 2, article no. 121, pages 1-16, 2021, WOS:000622376200001 https://apps.webofknowledge.com/InboundService.do?product=WOS&Func=Frame&DestFail=http%3A%2F%2Fwww.webofknowledge.com&SrcApp=RRC&locale=en_US&SrcAuth=RRC&SID=F5gQqOta72qrLUez25k&customersID=RRC&mode=FullRecord&IsProductCode=Yes&Init=Yes&action=retrieve&UT=WOS%3A000622376200001	2.436
2.	Ecaterina Matei, Cristina Ileana Covaliu, George Coman, Mihai Neegroiu, Maria Rapa, Andra Mihaela Predescu, Andrei Constantin Berbecaru, Cristian Predescu, Dumitru Vaju, Vlad Grigore, <i>Nonwoven Bio-Based Membranes for Removal of Micropollutants from Aqueous Water</i>, Materiale Plastice, 57 (4), 2020, 34-44, 2021, WOS:000617344900004 https://apps.webofknowledge.com/InboundService.do?product=WOS&Func=Frame&DestFail=http%3A%2F%2Fwww.webofknowledge.com&SrcApp=RRC&locale=en_US&SrcAuth=RRC&SID=F5gQqOta72qrLUez25k&customersID=RRC&mode=FullRecord&IsProductCode=Yes&Init=Yes&action=retrieve&UT=WOS%3A000617344900004	1.517
3.	Matei E., Gaidau C., Rapa M., Constantinescu R., Savin S., Berechet M. D., Predescu A. M., Berbecaru A. C., Coman G., Predescu C., <i>Sustainable Rabbit Skin Glue to Produce Bioactive Nanofibers for Nonactive Wound Dressings</i>, MATERIALS, Vol. 13, Issue 23, Article No. 5388, DOI: 10.3390/ma13235388, 2020, WOS: 000597553100001 https://apps.webofknowledge.com/InboundService.do?product=WOS&Func=Frame&DestFail=http%3A%2F%2Fwww.webofknowledge.com&SrcApp=RRC&locale=en_US&SrcAuth=RRC&SID=F5gQqOta72qrLUez25k&customersID=RRC&mode=FullRecord&IsProductCode=Yes&Init=Yes&action=retrieve&UT=WOS%3A000597553100001	FI – 3.057

4.	Vidu R., Matei E., Predescu A. M*, Alhalaili B., Pantilimon C., Tarcea C., Predescu C., <i>Removal of Heavy Metals from Wastewaters: A challenge from current treatment methods to nanotechnology applications</i>, Toxics, vol. 8, Issue 4, article no. 101, DOI: 10.3390/toxics8040101, 2020, WOS:000601835900001 https://apps.webofknowledge.com/InboundService.do?product=WOS&Func=Frame&DestFail=http%3A%2F%2Fwww.webofknowledge.com&SrcApp=RRC&locale=en_US&SrcAuth=RRC&SID=F5gQgOta72qrLUez25k&customersID=RRC&mode=FullRecord&IsProductCode=Yes&Init=Yes&action=retrieve&UT=WOS%3A000601835900001	FI – 3.271
5.	Predescu A. M., Vidu R., Vizureanu P., Predescu A., Matei E., Predescu C., <i>Properties of Cu-xFe3O4 nanocomposites for electrical application</i>, Materials, vol. 13, Issue 14, article no. 3086, ISSN 19961944, DOI: 10.3390/ma13143086, 2020, WOS: 000557810700001 https://apps.webofknowledge.com/InboundService.do?product=WOS&Func=Frame&DestFail=http%3A%2F%2Fwww.webofknowledge.com&SrcApp=RRC&SrcAuth=RRC&locale=en_US&SID=F444XjBhwAfN7OqTwNO&customersID=RRC&mode=FullRecord&IsProductCode=Yes&Init=Yes&action=retrieve&UT=WOS%3A000557810700001	FI - 3.05
6.	Bobirica C., Bobirica L., Rapa M., Matei E., Predescu A. M., Orbeci C., <i>Photocatalytic degradation of ampicillin using PLA/TiO2 hybrid nanofibers coated on different types of fiberglass</i>, Water, vol. 12, issue 1, article no. 176, 2020, WOS: 000519847200176 https://apps.webofknowledge.com/InboundService.do?product=WOS&Func=Frame&DestFail=http%3A%2F%2Fwww.webofknowledge.com&SrcApp=RRC&locale=en_US&SrcAuth=RRC&SID=F444XjBhwAfN7OqTwNO&customersID=RRC&mode=FullRecord&IsProductCode=Yes&Init=Yes&action=retrieve&UT=WOS%3A000519847200176	FI - 2.54
7.	Rapa M., Stefan L. M., Zaharescu T., Seciu A. M., Turcanu A. A., Matei E., Predescu A. M., Antoniac I., Predescu C., <i>Development of bionanocomposites based on PLA, collagen and AgNPs and characterization of their stability and in vitro biocompatibility</i>, Applied Sciences, vol. 10, Issue 7, 2020, article no. 2265, WOS:000533356200064 https://apps.webofknowledge.com/InboundService.do?product=WOS&Func=Frame&DestFail=http%3A%2F%2Fwww.webofknowledge.com&SrcApp=RRC&locale=en_US&SrcAuth=RRC&SID=F444XjBhwAfN7OqTwNO&customersID=RRC&mode=FullRecord&IsProductCode=Yes&Init=Yes&action=retrieve&UT=WOS%3A000533356200064	FI – 2.4

8.	Matei E., Covaliu C. I., Predescu A., Coman G., Dragan C., Nitu C. V., Predescu C., <i>Synthesis of magnetic composite for environmental engineering application</i>, Revista Romana de Materiale, 2019, Vol. 49, Issue 4, p. 475-482, WOS:000502552300004 https://apps.webofknowledge.com/InboundService.do?product=WOS&Func=Frame&DestFail=http%3A%2F%2Fwww.webofknowledge.com&SrcApp=RRC&locale=en_US&SrcAuth=RRC&SID=F444XjBhwAfN7OqTwNO&customersID=RRC&mode=FullRecord&IsProductCode=Yes&Init=Yes&action=retrieve&UT=WOS%3A000502552300004	FI – 0.628
9.	Rapa M., Darie-Nita R. N., Preda P., Coroiu V., Tatia R., Vasile C., Matei E., Predescu A. M., Maxim M. E., <i>PLA/collagen hydrolysate/silver nanoparticles bionanocomposite for potential antimicrobial urinary drains</i>, Polymer - Plastics Technology and Materials, 2019, vol. 58, Issue 18, p. 2041 – 2055, WOS:000470320800001 https://apps.webofknowledge.com/InboundService.do?product=WOS&Func=Frame&DestFail=http%3A%2F%2Fwww.webofknowledge.com&SrcApp=RRC&locale=en_US&SrcAuth=RRC&SID=F444XjBhwAfN7OqTwNO&customersID=RRC&mode=FullRecord&IsProductCode=Yes&Init=Yes&action=retrieve&UT=WOS%3A000470320800001	FI – 0.857
10.	Vidu R., Predescu A. M*, Matei E., Berbecaru A., Pantilimon C., Dragan C., Predescu C., <i>Temple-assisted Co-Ni nanowire arrays</i>, Nanomaterials, vol. 9, Issue 10, article no. 1446, 2019, WOS:000495666800101 https://apps.webofknowledge.com/InboundService.do?product=WOS&Func=Frame&DestFail=https%3A%2F%2Fwww.webofknowledge.com&SrcApp=RRC&locale=en_US&SrcAuth=RRC&SID=F3I9wKokmSJAZAYXyJ&customersID=RRC&mode=FullRecord&IsProductCode=Yes&Init=Yes&action=retrieve&UT=WOS%3A000495666800101	FI – 4.324
11.	Predescu C., Berbecaru A.C., Coman G., Sohaciu M. G., Predescu A. M., Matei E., Dumitrescu R. E., Ciuca S., Gherghescu I. A., <i>Corrosion resistance evaluation of some stainless steels used in manufacture of hydraulic turbine runner blades</i>, Revista de Chimie, (2019), vol. 70, issue 7, p. 2491-2496, WOS:000485843500040 https://apps.webofknowledge.com/InboundService.do?product=WOS&Func=Frame&DestFail=http%3A%2F%2Fwww.webofknowledge.com&SrcApp=RRC&locale=en_US&SrcAuth=RRC&SID=F444XjBhwAfN7OqTwNO&customersID=RRC&mode=FullRecord&IsProductCode=Yes&Init=Yes&action=retrieve&UT=WOS%3A000485843500040	FI - 0

12.	Rapa, M., Stefan, L.M., Preda, P., Darie-Nita, R.N., Gaspar-Pintiliescu, A., Seciu, A.M., Vasile, C., Matei, E., Predescu, A.M. <i>Effect of hydrolyzed collagen on thermal, mechanical and biological properties of poly(lactic acid) bionanocomposites</i>, Iranian Polymer Journal (English Edition), 28(4), pp. 271-282, 2019, WOS:000464870300001 https://apps.webofknowledge.com/InboundService.do?customersID=RRC&mode=FullRecord&IsProductCode=Yes&product=WOS&Init=Yes&Func=Frame&DestFail=http%3A%2F%2Fwww.webofknowledge.com&action=retrieve&SrcApp=RRC&SrcAuth=RRC&SID=E4ulkq2Nixxl6I7c7Lb&UT=WOS%3A000464870300001	FI - 1.707
13.	Predescu A. M., Matei E., Răpă M., Pantilimon C., Coman G., Savin S., Elisabeta Popa E., Predescu C., <i>Adsorption of Lead(II) from Aqueous Solution Using Chitosan and Polyvinyl Alcohol Blends</i>, (2019), Analytical Letters. Vol. 52, issue 15, pp. 2365-2392, WOS:000474683600003 http://apps.webofknowledge.com/full_record.do?product=WOS&searchmode=DaisyOneClickSearch&qid=3&SID=D47j9VSqUhXZuQx31a5&page=1&doc=1	FI – 1.467
14.	Rapa M., Matei E., Turcanu A., Predescu A. M., Pantilimon M. C., Predescu C., <i>Structural, morphological and thermal analysis of some alginate/starch/dellite HPS composites for aqueous Cu(II) removal</i>, (2019), Cellulose Chemistry and Technology, vol. 53, Issue 5-6, pp. 561-571, WOS:000473779300016 http://apps.webofknowledge.com/full_record.do?product=WOS&searchmode=DaisyOneClickSearch&qid=6&SID=D47j9VSqUhXZuQx31a5&page=1&doc=2	FI – 0
15.	Milosan I., Cristea D., Voiculescu I., Pop M. A., Balat-Pichelin M., Predescu A. M., Bogatu C. A., Bedo T., Berbecaru A. C., Geantă V., Gabor, C., Isac L. A., Sârbu F. A., Oancea G., <i>Characterisation of EN 1.4136 stainless steel heat-treated in solar furnace</i>, (2019), International Journal of Advanced Manufacturing Technology, vol. 101, Issue 9-12, pp. 2955-2964, WOS:000463669500060 https://apps.webofknowledge.com/full_record.do?product=WOS&searchmode=DaisyOneClickSearch&qid=10&SID=E32Nklo6bjktVNO1hr6&page=1&doc=1	FI – 2.63
16.	Matei E., Covaliu C., Predescu A. M., Berbecaru A., Tarcea C., Predescu C., <i>Remediation of Wastewater with Ultraviolet Irradiation Using a Novel Titanium (IV) Oxide Photocatalyst</i>, (2019), Analytical Letters, nr. pag. 8, WOS:000466644300001 https://apps.webofknowledge.com/full_record.do?product=WOS&search	FI – 1.467

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17.	Matei E., Predescu A. M* , Râpă M., Tarcea C., Pantilimon C. M., Favier L., Berbecaru A. C., Sohaciu M., Predescu C., <i>Removal of Chromium(VI) from Aqueous Solution Using a Novel Green Magnetic Nanoparticle–Chitosan Adsorbent</i> , (2019), Analytical Letters, nr. pag. 23, WOS:000465837200001 https://apps.webofknowledge.com/full_record.do?product=WOS&searchmode=OneClickSearch&qid=22&SID=D52znAvgATZ475Asis6&page=1&doc=1	FI – 1.467
18.	Predescu A. M. Vidu , R., Predescu A., Matei E., Pantilimon C., Predescu C., <i>Synthesis and characterization of bimodal structured Cu-Fe₃O₄ nanocomposites</i> (2019), <i>Powder Technology</i> , vol. 342, pp. 938-953, WOS:000454375100093 http://apps.webofknowledge.com/full_record.do?product=WOS&searchmode=DaisyOneClickSearch&qid=3&SID=E68yvngEKk6GqMMOfvv&page=1&doc=1	FI – 4.142
19.	Pantilimon C., Coman G., Gradinaru C., Tarcea C., Ciuca S., Sohaciu M., Berbecaru A., Matei E., Predescu A. , Predescu C., <i>Elaboration of Ti-based biocompatible alloys using Nb, Fe and Zr as alloying elements</i> , (2018), <i>Revista de Chimie</i> , vol. 69, Issue 11, pp. 4064-4068, WOS:000451931500043 http://apps.webofknowledge.com/full_record.do?product=WOS&searchmode=DaisyOneClickSearch&qid=6&SID=E68yvngEKk6GqMMOfvv&page=1&doc=2	FI – 0
20.	Predescu, A.M. , Matei, E., Berbecaru, A.C., Pantilimon, C., Drăgan, C., Vidu, R., Predescu, C., Kuncser, V., "Synthesis and characterization of dextran-coated iron oxide nanoparticles", (2018) <i>Royal Society Open Science</i> , 5 (3), art. no. 171525, no. pages 11, WOS:000428874600022, http://apps.webofknowledge.com/full_record.do?product=WOS&searchmode=GeneralSearch&qid=1&SID=C4oPdh9ULrWW5tVZcVe&page=1&doc=2	FI - 2.647
21.	Predescu C., Ciuca S., Predescu A* , Banu A., Pantilimon C., Matei E., Sohaciu M., Berbecaru A., Coman G., <i>Structure and properties of some metallic biomaterials from system Ti-Nb-Fe used in implantology</i> , in <i>Revista de Chimie</i> , vol. 69, Issue 3, 2018, p. 557-560, WOS:000430946500005 http://apps.webofknowledge.com/full_record.do?product=WOS&searchmode=GeneralSearch&qid=1&SID=C4oPdh9ULrWW5tVZcVe&page=1&doc=1	FI – 0
22.	Matei E., Predescu A* , Drăgan C., Pantilimon C., Predescu C., <i>Characterization of magnetic nanoiron oxides for the removal of metal ions from aqueous solution</i> in <i>Analytical Letters</i> , p. 2822-2838, 2017, WOS:000415951900013	FI – 1.467

	http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C4oPdh9ULrWW5tVZcVe&page=1&doc=7	
23.	Predescu C., Vlad G., Matei E., Predescu A* , Sohaciu M., Coman G., <i>Methods for heavy metals (HM) extraction from sludge samples and their use for soil upgrading</i> in Environmental Engineering and Management Journal, vol 16, Issue 11, 2017, p. 2469-2474, WOS:000419141500005 http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C4oPdh9ULrWW5tVZcVe&page=1&doc=3	FI – 0
24.	Râpă M., Matei E., Ghioca P. N., Grosu E., Iancu L., Spurcaci B., Trifoi A.R., Gherman T., Pica A., Predescu A. M. , Cincu C., Andras A. A., <i>Improvement of some post-consumer polypropylene (RPP) by melt modification with styrene-diene block copolymers</i> , in Environmental Engineering and Management Journal, vol. 16, Issue 11, 2017, p. 2615-2624, WOS:000419141500022 http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C4oPdh9ULrWW5tVZcVe&page=1&doc=4	FI – 0
25.	Drăgan C., Matei E., Predescu A.M. , Predescu C., Coman G., <i>Identifying of uncertainty sources: A useful tool for validation process of heavy metals in waters</i> , in UPB Scientific Bulletin, Series B., Chemistry and Materials Science, vol. 79, Issue 2, 2017, p. 217 – 227, WOS:000405523600020 http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C4oPdh9ULrWW5tVZcVe&page=1&doc=8	FI – 0
26.	Matei E., Rapa M., Andras AA, Predescu A.M* , Pantilimon C., Pica A., Predescu C., <i>Recycled Polypropylene improved with thermoplastic elastomers</i> , International Journal of Polymer Science, Article ID 7525923, 10 pages, 2017, WOS:000399244300001 http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C4oPdh9ULrWW5tVZcVe&page=1&doc=12	FI – 1.646
27.	Predescu, C., Pantilimon, C., Sohaciu, M., Matei, E., Savastru, D., Berbecaru, A., Predescu A. , Anton, MG., Coman, G., <i>Investigation of the corrosion cracks in a C4 heavy transport pipeline by microscopy, fluorescence and diffraction techniques</i> , Journal of Optoelectronics and Advanced Materials, vol. 18, issue 9-10, p. 873-877, 2016, WOS:000389728900023 http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C4oPdh9ULrWW5tVZcVe&page=1&doc=13	FI – 0.631
28.	Gherghescu I.A, Jicmon G.L., Cotrut C., Brânzei M., Berbecaru A.C., Predescu A. M. , Ciucă S., <i>Influence of aging parameters on the corrosion resistance of</i>	FI – 0

	<i>a biocompatible Ni50.6Ti49.4 Shape memory Alloy</i> , Revista de Chimie, vol. 67, Issue 9, , 2016, Pp. 1734-1738, WOS:000385266600018 http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C4oPdh9ULrWW5tVZcVe&page=1&doc=14	
29.	Predescu, A. , Matei, E., Predescu, A., Berbecaru, A., Sohaciu, M., Predescu, C., <i>Removal of hexavalent chromium from waters by means of a TiO2-Fe3O4 nanocomposite</i> , Environmental Engineering and Management Journal, Vol. 15, Issue 5, P. 989-994, 2016, WOS:000381274100006 http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C4oPdh9ULrWW5tVZcVe&page=1&doc=15	FI – 0
30.	Matei, E., Predescu A. M* , Coman, G., Balanescu, M., Sohaciu, M., Predescu, C., Favier, L., Niculescu, M., <i>Magnetic nanoparticles used in environmental engineering for Pb and Zn removal</i> , Environmental Engineering and Management Journal, Vol. 15, Issue 5, P.1019-1025, 2016, WOS:000381274100010 http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C4oPdh9ULrWW5tVZcVe&page=1&doc=16	FI – 0
31.	Sohaciu, M., Ciucă, S., Savastru D., Coman, G., Predescu A. , Berbecaru, A., Cotruț, C., Matei, E., Gherghescu, I. A., Predescu, C., <i>Influence of turbine blades fabrication conditions on their lifetime</i> , Optoelectronics and Advanced Materials, Rapid Communications, Vol. 10, Issues 3-4, P. 257-261, 2016, WOS:000381274100010 http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C4oPdh9ULrWW5tVZcVe&page=1&doc=16	FI – 0.445
32.	R. Comaneci, L.G. Bujoreanu, C. Baci, A.M. Predescu , D. Savastru, <i>Finite element analysis of equal channel angular pressing by using a multi-pass die</i> , Optoelectronics and advanced materials – Rapid Communications, vol. 9, Issue: 9-10, Pages: 1322-1327, 2015, WOS:000364600500046 http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C4oPdh9ULrWW5tVZcVe&page=1&doc=18	FI – 0.445
33.	E. Matei, C. Predescu, A. Badanoiu, A. Predescu , D. Ficai, <i>Application of Magnetite Nanoparticles as Adsorbent for Cr, Cd, Ni and Cu from Aqueous Solution</i> , Environmental Engineering and Management Journal, 14(5), 1001-1010, 2015, WOS:000355847800004 http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C4oPdh9ULrWW5tVZcVe&page=1&doc=20	FI – 0
34.	Predescu, A. , Matei, E., Predescu, A., Dascălu, O., Predescu, C., <i>Efficient</i>	FI – 0

	<i>methods for nanomagnetite synthesis</i>, (2015) UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 77 (4), 291-298, WOS:000417047800026 http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C4oPdh9ULrWW5tVZcVe&page=1&doc=24	
35.	A. M. Predescu, E. Matei, D. Savastru, G. Coman, C. Predescu, G. Vlad, L.Favier, <i>Nanostructures with iron oxides core applied for water treatment</i>, Digest Journal of Nanomaterials and Biostructures, 2014, 9(3), 2014, 987-995, WOS:000346138400011 http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C4oPdh9ULrWW5tVZcVe&page=1&doc=25	FI – 0.785
36.	C. Predescu, N. Ghiban, M. Sohaciu, D. Savastru, E. Matei, A. Predescu, A. Berbecaru, G. Coman, <i>Researches concerning the influence of the heating on quality of forged parts from micro alloyed with boron steel</i>, Optoelectronics and Advanced Materials, Rapid Communications ,8 (1-2), 2014, 149-152, WOS:000331369200031 http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C4oPdh9ULrWW5tVZcVe&page=1&doc=28	FI – 0.445
37.	Ecaterina Matei, A. M. Predescu, C. Predescu, M.G. Sohaciu, A. Berbecaru, C. I. Covaliu, <i>Characterization and application results of two magnetic nanomaterials</i>, Journal of Environmental Quality, 42 (1) , pp. 129-136, 2013, WOS:000314749500016 http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C4oPdh9ULrWW5tVZcVe&page=1&doc=30	FI – 2.142
38.	A. M. Predescu, E. Matei, A. Predescu, B. Stroe, G. Coman, D. Nagy, <i>Characterization of magnetic nanomaterials used for waste water treatment applications</i>, Metalurgia International, Volume 18, Issue SPEC.2, 2013, Pages 122-125, WOS:000315312100026 http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C4oPdh9ULrWW5tVZcVe&page=1&doc=31	FI – 0
39.	Ecaterina Matei, A. M. Predescu, A. Predescu, E. Vasile, <i>Characterization and testing of the maghemite nanoparticles used for removal of hexavalent chromium from aqueous synthetic solutions</i>, Environmental Engineering and Management Journal, 10 (11), 2011, 1711-1717, ISSN 1582-9596, WOS:000298662900012	FI – 0

	http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C4oPdh9ULrWW5tVZcVe&page=1&doc=39	
40.	Ecaterina Matei, C. Predescu, A. Berbecaru, A. M. Predescu , R. Trusca, <i>Leaching tests for synthesized magnetite nanoparticles used as adsorbent for metal ions from liquid solutions</i> , Digest Journal of Nanomaterials and Biostructures, 6 (9), 2011, 1701 – 1708, ISSN 1842 – 3582, WOS:000300568100027 http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C4oPdh9ULrWW5tVZcVe&page=1&doc=40	FI – 0.785
41.	Ecaterina Matei, A. M. Predescu , E. Vasile, C. Predescu, <i>Investigations on nano-iron oxides properties used for different industrial applications</i> , Optoelectronics and Advanced Materials – Rapid Communications, 5 (3), 2011, 296 – 301, ISSN 1842-6573, WOS:000290774800023 http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C4oPdh9ULrWW5tVZcVe&page=1&doc=42	FI – 0.445
42.	Nicolae A., Predescu C., Matei Ecaterina, Stoica A. , <i>About the Mechanism of the Pelletizing Processes of the Powdery Materials for Sintering Agglomeration</i> , Journal of Iron and Steel Research International, 16, 2009, 139-143, ISSN 1006-706X, WOS:000273086300022 http://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=79&SID=C4oPdh9ULrWW5tVZcVe&page=1&doc=1	FI – 1.213

b1) NP – Număr articole ISI la care candidatul este autor principal (prim autor sau autor de corespondență)

Nr. Crt.	Date articole	Condiții Profesor ≥ 10
1.	Vidu R., Matei E., Predescu A. M* , Alhalaili B., Pantilimon C., Tarcea C., Predescu C., <i>Removal of Heavy Metals from Wastewaters: A challenge from current treatment methods to nanotechnology applications</i> , Toxics, vol. 8, Issue 4, article no. 101, DOI: 10.3390/toxics8040101, 2020, WOS:000601835900001	Autor corespondent
2.	Predescu A. M. , Vidu R., Vizureanu P., Predescu A., Matei E., Predescu C., <i>Properties of Cu-xFe3O4 nanocomposites for electrical application</i> , Materials, vol. 13, Issue 14, article no. 3086, ISSN 19961944, DOI: 10.3390/ma13143086, 2020, WOS: 000557810700001	Prim autor

3.	Vidu R., Predescu A. M. , Matei E., Berbecaru A., Pantilimon C., Dragan C., Predescu C., <i>Temple-assisted Co-Ni nanowire arrays</i> , Nanomaterials, vol. 9, Issue 10, article no. 1446, 2019, DOI: 10.3390/nano9101446	Autor correspondent
4.	Predescu A. M. , Matei E., Râpă M., Pantilimon C., Coman G., Savin S., Elisabeta Popa E., Predescu C., <i>Adsorption of Lead(II) from Aqueous Solution Using Chitosan and Polyvinyl Alcohol Blends</i> , (2019), Analytical Letters. Vol. 52, issue 15, pp. 2365-2392, WOS:000474683600003	Prim autor
5.	Matei E., Predescu A. M.* , Râpă M., Tarcea C., Pantilimon C. M., Favier L., Berbecaru A. C., Sohaciu M., Predescu C., <i>Removal of Chromium(VI) from Aqueous Solution Using a Novel Green Magnetic Nanoparticle–Chitosan Adsorbent</i> , (2019), Analytical Letters, nr. pag. 23, WOS:000465837200001	Autor correspondent
6.	Predescu A. M. Vidu , R., Predescu A., Matei E., Pantilimon C., Predescu C., <i>Synthesis and characterization of bimodal structured Cu-Fe₃O₄ nanocomposites</i> (2019), <i>Powder Technology</i> , vol. 342, pp. 938-953, WOS:000454375100093,	Prim autor
7.	Predescu, A.M. , Matei, E., Berbecaru, A.C., Pantilimon, C., Drăgan, C., Vidu, R., Predescu, C., Kuncser, V. "Synthesis and characterization of dextran-coated iron oxide nanoparticles", (2018) <i>Royal Society Open Science</i> , 5 (3), art. no. 171525 no. pages 11, WOS:000428874600022	Prim autor
8.	Matei E., Predescu A* , Drăgan C., Pantilimon C., Predescu C., <i>Characterization of magnetic nanoiron oxides for the removal of metal ions from aqueous solution</i> in Analytical Letters, p. 2822-2838, 2017, ISSN 00032719, WOS:000415951900013	Autor correspondent
9.	Matei E., Rapa M., Andras AA, Predescu A.M* , Pantilimon C., Pica A., Predescu C., <i>Recycled Polypropylene improved with thermoplastic elastomers</i> , International Journal of Polymer Science, Article ID 7525923, 2017, WOS:000399244300001	Autor correspondent
10.	Predescu, A. , Matei, E., Predescu, A., Dascălu, O., Predescu, C., <i>Efficient methods for nanomagnetite synthesis</i> , (2015) UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 77 (4), 291-298, WOS:000417047800026	Prim autor
11.	A. M. Predescu , E. Matei, D. Savastru, G. Coman, C. Predescu, G. Vlad, L.Favier, <i>Nanostructures with iron oxides core applied for water treatment</i> , Digest Journal of Nanomaterials and Biostructures, 2014, 9(3), 2014, 987-995, WOS:000346138400011	Prim autor
12.	A. M. Predescu , E. Matei, A. Predescu, B. Stroe, G. Coman, D. Nagy, <i>Characterization of magnetic nanomaterials used for waste water treatment applications</i> , Metalurgia International, Volume 18, Issue SPEC.2, 2013, Pages 122-125, WOS:000315312100026	Prim autor

b2) NP – Număr articole ISI la care candidatul este autor principal (prim autor sau autor de corespondență) cu FI > 1

Nr. Crt.	Date articole	Condiții Profesor ≥ 6
1.	Vidu R., Matei E., Predescu A. M* , Alhalaili B., Pantilimon C., Tarcea C., Predescu C., <i>Removal of Heavy Metals from Wastewaters: A challenge from current treatment methods to nanotechnology applications</i> , Toxics, vol. 8, Issue 4, article no. 101, DOI: 10.3390/toxics8040101, 2020, WOS:000601835900001	FI – 3.271
2.	Predescu A. M. , Vidu R., Vizureanu P., Predescu A., Matei E., Predescu C., <i>Properties of Cu-xFe₃O₄ nanocomposites for electrical application</i> , Materials, vol. 13, Issue 14, article no. 3086, ISSN 19961944, DOI: 10.3390/ma13143086, 2020, WOS: 000557810700001	FI - 3.05
3.	Vidu R., Predescu A. M. , Matei E., Berbecaru A., Pantilimon C., Dragan C., Predescu C., <i>Temple-assisted Co-Ni nanowire arrays</i> , Nanomaterials, vol. 9, Issue 10, article no. 1446, 2019, DOI: 10.3390/nano9101446	FI – 4.324
4.	Predescu A. M. , Matei E., Râpă M., Pantilimon C., Coman G., Savin S., Elisabeta Popa E., Predescu C., <i>Adsorption of Lead(II) from Aqueous Solution Using Chitosan and Polyvinyl Alcohol Blends</i> , (2019), Analytical Letters. Vol. 52, issue 15, pp. 2365-2392, WOS:000474683600003	FI – 1.467
5.	Matei E., Predescu A. M* , Râpă M., Tarcea C., Pantilimon C. M., Favier L., Berbecaru A. C., Sohaciu M., Predescu C., <i>Removal of Chromium(VI) from Aqueous Solution Using a Novel Green Magnetic Nanoparticle–Chitosan Adsorbent</i> , (2019), Analytical Letters, nr. pag. 23, WOS:000465837200001 https://doi.org/10.1080/00032719.2019.1601734	FI – 1.437
6.	Predescu A. M. Vidu , R., Predescu A., Matei E., Pantilimon C., Predescu C., <i>Synthesis and characterization of bimodal structured Cu-Fe₃O₄ nanocomposites</i> (2019), <i>Powder Technology</i> , vol. 342, pp. 938-953, WOS:000454375100093,	FI – 4.142
7.	Predescu, A.M. , Matei, E., Berbecaru, A.C., Pantilimon, C., Drăgan, C., Vidu, R., Predescu, C., Kuncser, V. "Synthesis and characterization of dextran-coated iron oxide nanoparticles", (2018) <i>Royal Society Open Science</i> , 5 (3), art. no. 171525, no. pages 11, WOS:000428874600022	FI – 2.647
8.	Matei E., Predescu A* , Drăgan C., Pantilimon C., Predescu C., <i>Characterization of magnetic nanoiron oxides for the removal of metal ions from aqueous solution</i> in Analytical Letters, p. 2822-2838, 2017, WOS:000415951900013	FI – 1.467
9.	Matei E., Rapa M., Andras AA, Predescu A.M* , Pantilimon C., Pica A., Predescu C., <i>Recycled Polypropylene improved with thermoplastic elastomers</i> , International Journal of Polymer Science, Article ID 7525923, 2017, WOS:000399244300001	FI – 1.718

c) FIC – Factor de impact cumulat (suma factorilor de impact ai revistelor la momentul sustinerii publice a tezei de doctorat sau la momentul înscrierii la concursul pentru ocuparea unei poziții didactice

Nota: Brevetele naționale (FI-1) și internaționale (FI – 3) intră în calcul

Nr. Crt.	Date articol	Factor impact (≥ 20)	Punctaj obținut: 31.58
1.	Matei E., Gaidau C., Rapa M., Stefan L. M., Ditu L. M., Predescu A. M. , Stanca M., Pantilimon M. C., Berechet M. D., Predescu C., Mosutiu A., <i>Sustainable coated nanostructures based on alginate and electrospun collagen loaded with antimicrobial agents</i> , in Coatings, Vol. 11, Issue 2, article no. 121, pages 1-16, 2021, WOS:000622376200001	FI – 2.436	0.22
2.	Ecaterina Matei, Cristina Ileana Covaliu, George Coman, Mihai Neegroiu, Maria Rapa, Andra Mihaela Predescu , Andrei Constantin Berbecaru, Cristian Predescu, Dumitru Vaju, Vlad Grigore, <i>Nonwoven Bio-Based Membranes for Removal of Micropollutants from Aqueous Water</i> , Materiale Plastice, 57 (4), 2020, 34-44, 2021, WOS:000617344900004	FI - 1.517	0.15
3.	Matei E., Gaidau C., Rapa M., Constantinescu R., Savin S., Berechet M. D., Predescu A. M. , Berbecaru A. C., Coman G., Predescu C., <i>Sustainable Rabbit Skin Glue to Produce Bioactive Nanofibers for Nonactive Wound Dressings</i> , MATERIALS, Vol. 13, Issue 23, Article No. 5388, DOI: 10.3390/ma13235388, 2020, WOS: 000597553100001	FI – 3.057	0.3
4.	Vidu R., Matei E., Predescu A. M* , Alhalaili B., Pantilimon C., Tarcea C., Predescu C., <i>Removal of Heavy Metals from Wastewaters: A challenge from current treatment methods to nanotechnology applications</i> , Toxics, vol. 8, Issue 4, article no. 101, DOI: 10.3390/toxics8040101, 2020, WOS:000601835900001	FI – 3.271	3.271
5.	Predescu A. M. , Vidu R., Vizureanu P., Predescu A., Matei E., Predescu C., <i>Properties of Cu-xFe3O4 nanocomposites for electrical application</i> , Materials, vol. 13, Issue 14, article no. 3086, ISSN 19961944, DOI: 10.3390/ma13143086, 2020, WOS: 000557810700001	FI – 3.05	3.05
6.	Rapa M., Stefan L. M., Zaharescu T., Seciu A. M., Turcanu A. A., Matei E., Predescu A. M. , Antoniac I., Predescu C, <i>Development of bionanocomposites based on PLA, collagen and AgNPs and characterization of their stability and in</i>	FI – 2.4 /nr. Autori 9	0.266

	<i>vitro biocompatibility</i> , Applied Sciences, vol. 10, Issue 7, 2020, article no. 2265		
7.	Bobirica C., Bobirica L., Rapa M., Matei E., Predescu A. M. , Orbeci C., <i>Photocatalytic degradation of ampicillin using PLA/TiO₂ hybrid nanofibers coated on different types of fiberglass</i> , Water, vol. 12, issue 1, article no. 176, 2020, WOS:000519847200176	FI – 2.54 /nr. Autori 6	0.423
8.	Matei E., Covaliu C. I., Predescu A. , Coman G., Dragan C., Nitu C. V., Predescu C., <i>Synthesis of magnetic composite for environmental engineering application</i> , Revista Romana de Materiale, 2019, Vol. 49, Issue 4, p. 475-482	FI – 0.628/nr. Autori 7	0.089
9.	Rapa M., Darie-Nita R. N., Preda P., Coroiu V., Tatia R., Vasile C., Matei E., Predescu A. M. , Maxim M. E., <i>PLA/collagen hydrolysate/silver nanoparticles bionanocomposites for potential antimicrobial urinary drains</i> , Polymer -Plastics Technology and Materials, 2019, vol. 58, Issue 18, p. 2041 – 2055	FI – 0.857/nr. Autori 9	0.095
10.	Vidu R., Predescu A. M.* , Matei E., Berbecaru A., Pantilimon C., Dragan C., Predescu C., <i>Temple-assisted Co-Ni nanowire arrays</i> , Nanomaterials, vol. 9, Issue 10, article no. 1446, 2019, WOS:000495666800101	FI – 4.324	4.324
11.	Predescu C., Berbecaru A.C., Coman G., Sohaciu M. G., Predescu A. M. , Matei E., Dumitrescu R. E., Ciuca S., Gherghescu I. A., <i>Corrosion resistance evaluation of some stainless steels used in manufacture of hydraulic turbine runner blades</i> , Revista de Chimie, (2019), vol. 70, issue 7, p. 2491-2496	FI - 0	0
12.	Rapa, M., Stefan, L.M., Preda, P., Darie-Nita, R.N., Gaspar-Pintiliescu, A., Seciu, A.M., Vasile, C., Matei, E., Predescu, A.M. <i>Effect of hydrolyzed collagen on thermal, mechanical and biological properties of poly(lactic acid) bionanocomposites</i> , Iranian Polymer Journal (English Edition), 28(4), pp. 271-282, 2019, WOS:000464870300001	FI - 1.707/nr. Autori 9	0.189
13.	Predescu A. M. , Matei E., Răpă M., Pantilimon C., Coman G., Savin S., Elisabeta Popa E., Predescu C., <i>Adsorption of Lead(II) from Aqueous Solution Using Chitosan and Polyvinyl Alcohol Blends</i> , (2019), Analytical Letters. Vol. 52, issue 15, pp. 2365-2392, WOS:000474683600003	FI – 1.467	1.467
14.	Rapa M., Matei E., Turcanu A., Predescu A. M. , Pantilimon M. C., Predescu C., <i>Structural, morphological and thermal analysis of some alginate/starch/dellite HPS composites for aqueous Cu(II) removal</i> , (2019), Cellulose Chemistry and	FI – 0.857/nr. Autori 6	0

	Technology, vol. 53, Issue 5-6, pp. 561-571, WOS:000473779300016		
15.	Milosan I., Cristea D., Voiculescu I., Pop M. A., Balat-Pichelin M., Predescu A. M. , Bogatu C. A., Bedo T., Berbecaru A. C., Geantă V., Gabor, C., Isac L. A., Sârbu F. A., Oancea G., <i>Characterisation of EN 1.4136 stainless steel heat-treated in solar furnace</i> , (2019), International Journal of Advanced Manufacturing Technology, vol. 101, Issue 9-12, pp. 2955-2964, WOS:000463669500060	FI – 2.63/nr. Autori 15	0.175
16.	Matei E., Covaliu C., Predescu A. M. , Berbecaru A., Tarcea C., Predescu C., <i>Remediation of Wastewater with Ultraviolet Irradiation Using a Novel Titanium (IV) Oxide Photocatalyst</i> , (2019), Analytical Letters, nr. pag. 8, WOS:000466644300001	FI – 1.467/nr. Autori 6	0.244
17.	Matei E., Predescu A. M.* , Râpă M., Tarcea C., Pantilimon C. M., Favier L., Berbecaru A. C., Sohaciu M., Predescu C., <i>Removal of Chromium(VI) from Aqueous Solution Using a Novel Green Magnetic Nanoparticle–Chitosan Adsorbent</i> , (2019), Analytical Letters, nr. pag. 23, WOS:000465837200001	FI – 1.467	1.467
18.	Predescu A. M. Vidu, R., Predescu A., Matei E., Pantilimon C., Predescu C., <i>Synthesis and characterization of bimodal structured Cu-Fe₃O₄ nanocomposites</i> (2019), <i>Powder Technology</i> , vol. 342, pp. 938-953, WOS:000454375100093	FI – 4.142	4.142
19.	Pantilimon C., Coman G., Gradinaru C., Tarcea C., Ciuca S., Sohaciu M., Berbecaru A., Matei E., Predescu A. , Predescu C., <i>Elaboration of Ti-based biocompatible alloys using Nb, Fe and Zr as alloying elements</i> , (2018), <i>Revista de Chimie</i> , vol. 69, Issue 11, pp. 4064-4068, WOS:000451931500043	FI – 0	0
20.	Predescu, A.M. , Matei, E., Berbecaru, A.C., Pantilimon, C., Drăgan, C., Vidu, R., Predescu, C., Kuncser, V., "Synthesis and characterization of dextran-coated iron oxide nanoparticles", (2018) <i>Royal Society Open Science</i> , 5 (3), art. no. 171525, no. pages 11, WOS:000428874600022,	FI - 2.647	2.647
21.	Predescu C., Ciuca S., Predescu A* , Banu A., Pantilimon C., Matei E., Sohaciu M., Berbecaru A., Coman G., <i>Structure and properties of some metallic biomaterials from system Ti-Nb-Fe used in implantology</i> , in <i>Revista de Chimie</i> , vol. 69, Issue 3, 2018, p. 557-560, WOS:000430946500005	FI – 0	0
22.	Matei E., Predescu A* , Drăgan C., Pantilimon C., Predescu C., <i>Characterization of magnetic nanoiron oxides for the removal of metal ions from aqueous solution</i> in <i>Analytical Letters</i> , p. 2822-2838, 2017, WOS:000415951900013	FI – 1.467	1.467

23.	Predescu C., Vlad G., Matei E., <u>Predescu A*</u> , Sohaciu M., Coman G., <i>Methods for heavy metals (HM) extraction from sludge samples and their use for soil upgrading</i> in Environmental Engineering and Management Journal, vol 16, Issue 11, 2017, p. 2469-2474, WOS:000419141500005	FI – 0	0
24.	Râpă M., Matei E., Ghioca P. N., Grosu E., Iancu L., Spurcaci B., Trifoi A.R., Gherman T., Pica A., <u>Predescu A. M.</u> , Cincu C., Andraș A. A., <i>Improvement of some post-consumer polypropylene (RPP) by melt modification with styrene-diene block copolymers</i> , in Environmental Engineering and Management Journal, vol. 16, Issue 11, 2017, p. 2615-2624, WOS:000419141500022	FI – 0	0
25.	Drăgan C., Matei E., <u>Predescu A.M.</u> , Predescu C., Coman G., <i>Identifying of uncertainty sources: A useful tool for validation process of heavy metals in waters</i> , in UPB Scientific Bulletin, Series B., Chemistry and Materials Science, vol. 79, Issue 2, 2017, p. 217 – 227, WOS:000405523600020	FI – 0	0
26.	Matei E., Rapa M., Andras AA, <u>Predescu A.M*</u> , Pantilimon C., Pica A., Predescu C., <i>Recycled Polypropylene improved with thermoplastic elastomers</i> , International Journal of Polymer Science, Article ID 7525923, 10 pages, 2017, WOS:000399244300001	FI – 1.646	1.646
27.	Predescu, C., Pantilimon, C., Sohaciu, M., Matei, E., Savastru, D., Berbecaru, A., <u>Predescu A.</u> , Anton, MG., Coman, G., <i>Investigation of the corrosion cracks in a C4 heavy transport pipeline by microscopy, fluorescence and diffraction techniques</i> , Journal of Optoelectronics and Advanced Materials, vol. 18, issue 9-10, p. 873-877, 2016, WOS:000389728900023	FI – 0.631/nr. Autori 9	0.07
28.	Gherghescu I.A, Jicmon G.L., Cotrut C., Brânzei M., Berbecaru A.C., <u>Predescu A. M.</u> , Ciucă S., <i>Influence of aging parameters on the corrosion resistance of a biocompatible Ni50.6Ti49.4 Shape memory Alloy</i> , Revista de Chimie, vol. 67, Issue 9, , 2016, Pp. 1734-1738, WOS:000385266600018	FI – 0	0
29.	<u>Predescu, A.</u> , Matei, E., Predescu, A., Berbecaru, A., Sohaciu, M., Predescu, C., <i>Removal of hexavalent chromium from waters by means of a TiO2-Fe3O4 nanocomposite</i> , Environmental Engineering and Management Journal, Vol. 15, Issue 5, P. 989-994, 2016, WOS:000381274100006	FI – 0	0
30.	Matei, E., <u>Predescu A. M*</u> , Coman, G., Balanescu, M., Sohaciu, M., Predescu, C., Favier, L., Niculescu, M., <i>Magnetic nanoparticles used in environmental engineering</i>	FI – 0	0

	<i>for Pb and Zn removal</i> , Environmental Engineering and Management Journal, Vol. 15, Issue 5, P.1019-1025, 2016, WOS:000381274100010		
31.	Sohaciu, M., Ciucă, S., Savastru D., Coman, G., Predescu A. , Berbecaru, A., Cotruț, C., Matei, E., Gherghescu, I. A., Predescu, C., <i>Influence of turbine blades fabrication conditions on their lifetime</i> , Optoelectronics and Advanced Materials, Rapid Communications, Vol. 10, Issues 3-4, P. 257-261, 2016, WOS:000381274100010	FI – 0.445/nr. Autori 10	0.044
32.	R. Comaneci, L.G. Bujoreanu, C. Baci, A.M. Predescu , D. Savastru, <i>Finite element analysis of equal channel angular pressing by using a multi-pass die</i> , Optoelectronics and advanced materials – Rapid Communications, vol. 9, Issue: 9-10, Pages: 1322-1327, 2015, WOS:000364600500046	FI – 0.445/nr. Autori 5	0.089
33.	E. Matei, C. Predescu, A. Badanoiu, A. Predescu , D. Fici, <i>Application of Magnetite Nanoparticles as Adsorbent for Cr, Cd, Ni and Cu from Aqueous Solution</i> , Environmental Engineering and Management Journal, 14(5), 1001-1010, 2015, WOS:000355847800004	FI – 0	0
34.	Predescu, A. , Matei, E., Predescu, A., Dascălu, O., Predescu, C., <i>Efficient methods for nanomagnetite synthesis</i> , (2015) UPB Scientific Bulletin, Series B: Chemistry and Materials Science, 77 (4), 291-298, WOS:000417047800026	FI – 0	0
35.	A. M. Predescu , E. Matei, D. Savastru, G. Coman, C. Predescu, G. Vlad, L.Favier, <i>Nanostructures with iron oxides core applied for water treatment</i> , Digest Journal of Nanomaterials and Biostructures, 2014, 9(3), 2014, 987-995, WOS:000346138400011	FI – 0.785	0.785
36.	C. Predescu, N. Ghiban, M. Sohaciu, D. Savastru, E. <u>Matei</u> , A. Predescu , A. Berbecaru, G. Coman, <i>Researches concerning the influence of the heating on quality of forged parts from micro alloyed with boron steel</i> , Optoelectronics and Advanced Materials, Rapid Communications ,8 (1-2), 2014, 149-152, WOS:000331369200031	FI – 0.445/nr. Autori 8	0.055
37.	Ecaterina Matei, A. M. Predescu , C. Predescu, M.G. Sohaciu, A. Berbecaru, C. I. Covaliu, <i>Characterization and application results of two magnetic nanomaterials</i> , Journal of Environmental Quality, 42 (1) , pp. 129-136, 2013, WOS:000314749500016	FI – 2.142/nr. Autori 6	0.357
38.	A. M. Predescu , E. Matei, A. Predescu, B. Stroe, G. Coman, D. Nagy, <i>Characterization of magnetic nanomaterials used</i>	FI – 0.134	0

	<i>for waste water treatment applications</i> , Metalurgia International, Volume 18, Issue SPEC.2, 2013, Pages 122-125, WOS:000315312100026		
39.	Ecaterina Matei, A. M. Predescu , A. Predescu, E. Vasile, <i>Characterization and testing of the maghemite nanoparticles used for removal of hexavalent chromium from aqueous synthetic solutions</i> , Environmental Engineering and Management Journal, 10 (11), 2011, 1711-1717, ISSN 1582-9596, WOS:000298662900012	FI - 0	0
40.	Ecaterina Matei, C. Predescu, A. Berbecaru, A. M. Predescu , R. Trusca, <i>Leaching tests for synthesized magnetite nanoparticles used as adsorbent for metal ions from liquid solutions</i> , Digest Journal of Nanomaterials and Biostructures, 6 (9), 2011, 1701 – 1708, ISSN 1842 – 3582, WOS:000300568100027	FI – 0.785/nr. Autori 5	0.157
41.	Ecaterina Matei, A. M. Predescu , E. Vasile, C. Predescu, <i>Investigations on nano-iron oxides properties used for different industrial applications</i> , Optoelectronics and Advanced Materials – Rapid Communications, 5 (3), 2011, 296 – 301, ISSN 1842-6573, WOS:000290774800023	FI – 0.445/nr. Autori 4	0.111
42	Nicolae A., Predescu C., Matei Ecaterina, Stoica A. , <i>About the Mechanism of the Pelletizing Processes of the Powdery Materials for Sintering Agglomeration</i> , Journal of Iron and Steel Research International, 16, 2009, 139-143, ISSN 1006-706X, WOS:000273086300022	FI – 1.213/nr. Autori 4	0.3
Brevete de inventie			
1.	Rapa, M., Gaidau, C., Matei, E., Berechet, M.D., Pantilimon, M.C., Predescu, A.M. , Predescu, C. <i>Compozitie de nanofire pe baza de colagen din clei de iepure si agenti antimicrobieni si procedeu de obtinere a acestora / Composition of nanowires based on collagen from rabbit glue and antimicrobial agents and process for obtaining of them</i> , RO 133873-A0/2020	FI – 1, brevet national	0
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Cb01. Ruxandra Vidu, Cristian Predescu, Andra Mihaela Predescu, Ecaterina Matei, „*Nanomateriale pentru epurarea apelor*”, Ed. Printech, 2020, ISBN 978-606-23-1062-2, (pag. 160)

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Rns - Reviste de specialitate de circulație națională recunoscute de CNCSIS. Se menționează Categoria CNCSIS.

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VI. CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P,F)

P – Proiecte de cercetare-dezvoltare – inovare obținute prin competiție, pe bază de contract/grant, în țara/străinătate (**Pn** – naționale, **Pi** - internaționale).

Pn– nationale

Pn01. „Eco-nanotehnologii de depoluare a apelor si valorificarea deșeurilor”, nr. 130/2018, cod SMIS 105558, **Responsabil proiect UPB-CCEEM**

Pn02. „Tehnologie spectrală pentru securizarea avansată a documentelor”, nr. 51BG/2016, durata 18 luni, **102.000 Eur, Membru in echipa**

Pn03. „Sistem inovativ pentru epurarea apelor uzate industriale utilizând materiale magnetice nanostructurate”, nr. 7PTE/2016, durata 18 luni, **130.600, Membru in echipa**

Pn04. „Tehnologie îmbunătățită pentru producerea materialelor de înaltă puritate pentru aplicații speciale destinate infrastructurii și mijloacelor de transport”, nr. 87 BG/2016, durata 18 luni, **102.000 Eur, Membru in echipa**

Pn05. „Eco-Nano-Tehnologii pentru dezvoltarea unui modul cu dublă funcționalitate pe bază de nanofire”, POC: P_37_649, Cod SMIS: 104141, Ctr. de finaț. nr. 49/05.09.2016, durata 48 luni, **1.037.250 Eur, Membru in echipa**

Pn06. „Modul magnetic pentru tratarea apelor industriale”, Applied Research and Tehcnological Entrepreneurship – Fundația Română Americană , 2013 – 2014, **61.000 Euro, Membru in echipa**

Pn07. “Reuse of waste polypropylene using a new aditive”, contract PN 2 nr. 67/2012, Conducător Proiect Institutul de Cercetări pentru Acoperiri Avansate ICAA, Durata 36 luni, **11.111 Euro, membru in echipa**

Pn08. “Multilayer Systems for cryogenic and high temperature applications”, contract PN 2 nr. 182/2012, Conducător Proiect, Institutul de National de Cercetare Dezvoltare pentru Tehnologii Criogenice și Izotopice ICSI Râmnicu Vâlcea, Durata 36 luni, **10.000 Euro, membru în echipă**

Pn09. “Tehnologie de obținere a straturilor superficiale modificate ale pieselor și componentelor auto prin prelucrări combinate în fază lichidă și solidă”, tip proiect PCCA tip 2, nr. 185/2012, durată 36 luni, **membru în echipă**

Pn10. „Noi concepte tehnologice privind dezvoltarea unor nanomateriale cu impact scăzut asupra mediului”, C-PN II, 2839/2008, durata 36 luni, **40.500 Euro, Responsabil UPB-CCEEM**

Pn11. “Instalatie de obtinere a apei ultrapure din surse primare”, CeEx Nr. 177 / 2008, Contractor ICPE Bistrița, Durata 36 luni, **25.000 Euro, membru in echipa**

Pn12. “Modalitati de valorificare a namolurilor provenite din deseuri biodegradabile (din bazinele hidrotehnice de acumulare si statii de epurare) in vederea reducerii poluarii mediului”, C PN II 32-105/2008, Conducător Proiect: UPB-CCEEM, durata 34 luni, **46.000 Euro, membru în echipa**

Pn13. “Metoda noua, neconventionala de evaluare IN- SITU a contaminarii solului cu metale grele”, C PN II 32-118/2008, Conducător Proiect Institutul Național de Cercetare-Dezvoltare

pentru Metale Neferoase și Rare-INCDMNR-IMNR, Durata 34 luni, **46.000 Euro, membru în echipa**

Pn14. „Tehnologii ecologice avansate de tratare a apelor din piscinele olimpice”, CeEx Nr. 96 / 2007, Contractor ICPE Bistrița, Durata 24 luni, **76.000 Euro, membru in echipa**

Pn15. „Consolidarea infrastructurii Laboratorului de Ecometalurgie din Universitatea Politehnica din București pentru caracterizarea și expertizarea materialelor și deșeurilor industriale”, contract de finanțare nr. 16 CP / I / 14.09.2007, PN2 – CAPACITĂȚI, Contractor UPB-CCEEM, Durată 15 luni, **125.000 Euro, membru în echipă**

Pn16. „Dezvoltarea Laboratorului de Eco-metalurgie pentru determinarea unor substanțe prioritar periculoase din factorii de mediu”, contract de finanțare nr.106 / 10.08.2006, Contractor UPB-CCEEM (Program CeEx, Modulul IV), Durată 15 luni, **150.000 Euro, membru în echipă**

Pi -Proiecte internationale

Pi01. „Innovative techniques for advanced wastewaters treatment”, Project no. 775/2014, Bilateral cooperation Romania – France, Durata 24 luni, **7.333 Euro, Membru in echipa**

Pi02. „Research to identify plants specific from Romanian ecosystems contaminated by toxic metals”, Project no. 555/2010, Bilateral cooperation Romania – Austria, Durata 24 luni, **8.500 Euro, Membru in echipa**

Proiecte interne de cercetare UPB

PiUPB01. „Eco-sistem pentru epurarea apelor”, proiect GEX, ID 43/2017 nr. contract 68/25.09.2017, **5.000 Euro, Director proiect**

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Semnatura

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