

LISTĂ DE LUCRĂRI

I. TEZA DE DOCTORAT

T1. Titlul tezei: Materiale nanostructurate cu rol fotocatalitic în procesele de epurare a apelor (Conducători de doctorat Prof.Dr.Ing. Cristian Predescu și Prof. Dr. Chim. Ecaterina Matei), Universitatea Politehnică din București, Facultatea Știința și Ingineria Materialelor, Data susținerii tezei de doctorat: 27.08.2020.

II. CĂRȚI PUBLICATE (C)

Cb01.	A. Berbecaru, A. Predescu, G. Coman, C. Pantilimon, C. Drăgan , C. Grădinaru, C. Predescu, A. Nicolae – “ <i>Ramuri Științifice de Dezvoltare Durabilă – Sustenabilă în Metalurgie</i> ”, Ed. Printech, București, 2018, ISBN: 978-606-23-0847-6
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IV. ARTICOLE/ STUDII IN EXTENSO PUBLICATE

Ris – Reviste de specialitate de circulație internațională recunoscute (cotate / indexate ISI Thomson Reuters, sau indexate în alte Baze de Date Internaționale – BDI specifice domeniului, care fac un proces de selecție a revistelor pe baza unor criterii de performanță)

Reviste de specialitate indexate ISI Thomson Reuters Web of Science [ISI Web of Knowledge]

Ris1.	Tarcea, CI ; Stefan, DI; Turcanu, A; Matei, E; Predescu, A; Coman, G; Predescu, C. <i>Assesment of soil quality through physical and chemical analyses. University Politehnica of Bucharest scientific bulletin series b-chemistry and materials science 2021</i> , 83, 249-254. WOS:000627764100023
Ris2.	Vidu, R; Matei, E; Predescu, AM; Alhalaili, B; Pantilimon, C ; Tarcea, C ; Predescu, C. <i>Removal of Heavy Metals from Wastewaters: A Challenge from Current Treatment Methods to Nanotechnology Applications. Toxics 2020</i> , 8(4). https://doi.org/10.3390/toxics8040101 , WOS:000601835900001, FI 2019 = 3,217
Ris3.	Tarcea, CI ; Predescu, C; Matei, E; Predescu, AM; Rapa, M; Turcanu, A. <i>Use of nano-anatase in degradation of heterocyclic dyes from waters. University Politehnica of Bucharest scientific bulletin series b-chemistry and materials science 2019</i> , 81(3), 169-178; WOS:000487215400017.
Ris4.	E. Matei, A. M. Predescu, M. Râpă, C. Tarcea , C.M. Pantilimon, L. Favier, A. C. Berbecaru, M. Sohaciu, C. Predescu. <i>Removal of Chromium(VI) from Aqueous Solution Using a Novel Green Magnetic Nanoparticle – Chitosan Adsorbent. Analytical Letters, 2019</i> , 52(15), 2416-2438, Doi: 10.1080/00032719.2019.1601734. WOS:000465837200001, FI = 1,248. ISSN: 0003-2719
Ris5.	E. Matei, C. I. Covaliu, A. Predescu, A. Berbecaru, C. Tarcea , and C. Predescu, "Remediation of Wastewater with Ultraviolet Irradiation Using a Novel Titanium (IV) Oxide Photocatalyst," Analytical Letters , vol. 52, pp. 2180-2187, 2019, DOI: 10.1080/00032719.2019.1604723, IF: 1,467
Ris6.	Vidu, R; Predescu, AM; Matei, E; Berbecaru, A; Pantilimon, C; Dragan, C ; Predescu, C. <i>Template-Assisted Co-Ni Nanowire Arrays. Nanomaterials 2019</i> , 9(10); DOI: 10.3390/nano9101446, WOS:000495666800101, IF – 4,324
Ris7.	Matei, E; Covaliu, CI; Predescu, A; Coman, G; Dragan, C ; Nitu, CV; Predescu, C. <i>Synthesis of a magnetic composite for environmental engineering application. Revista romana de materiale-romanian journal of materials 2019</i> , 49(4), 475-482; WOS:000502552300004, IF – 5,42
Ris8.	Pantilimon, C; Coman, G; Gradinaru, C; Tarcea, C ; Ciuca, S; Sohaciu, M; Berbecaru; Matei, E; Predescu, A; Predescu, C. <i>Elaboration of Ti-based Biocompatible Alloys Using Nb, Fe and Zr as Alloying Elements. Rev. Chim. 2018</i> , 69 (11), 4064-4068, DOI:10.37358/RC.18.11.6704 , WOS:000451931500043, IF-1,755
Ris9.	Predescu, AM; Matei, E; Berbecaru, AC; Pantilimon, C; Dragan, C ; Vidu, R; Predescu, C; Kuncser, V. <i>Synthesis and characterization of dextran-coated iron oxide nanoparticles, Royal society open science, 2018</i> , 5(93). Doi: 10.1098/rsos.171525, WOS:000428874600022, FI 2,646
Ris10.	Pantilimon, M; Dragan, CI ; Gradinaru, C; Predescu, AM; Sohaciu, M; Coman, G; Matei, E; Predescu, C. <i>Morphological analysis of magnetic nanomaterials through comparative methods. University Politehnica</i>

	of Bucharest scientific bulletin series b-chemistry and materials science, 2018, 80(3), 175-182. WOS:000440890800015
Ris11.	Dragan, CI; Pantilimon, C; Popa, EE; Coman, G; Gradinaru, C. <i>Green synthesis, characterization and antimicrobial of silver nanoparticles.</i> University Politehnica of Bucharest scientific bulletin series b-chemistry and materials science, 2018, 8(4), 267-275. WOS:000454986600022
Ris12.	Dragan, CI; Matei, E; Predescu, AM; Predescu, C; Coman, G. <i>Identifying of uncertainty sources: a useful tool for validation process of heavy metals in waters.</i> University Politehnica of Bucharest scientific bulletin series b-chemistry and materials science, 2017, 79(2), 217-227. WOS:000405523600020
Ris13.	Matei, E; Predescu, A; Dragan, C; Pantilimon, C; Predescu, C. <i>Characterization of Magnetic Nanoiron Oxides for the Removal of Metal Ions from Aqueous Solution.</i> Analytical letters, 2017, 50(17), 2822-2838. DOI: 10.1080/00032719.2016.1257016, WOS:000415951900013, FI 1,467
Ris14.	Balanescu, M; Sohaci, M; Dragan, C; Gradinaru, C. <i>Comparative analysis of co2 emissions allocated and verified under eu-ets for the romanian iron and steel sector</i> University Politehnica of Bucharest scientific bulletin series b-chemistry and materials science, 2017, 79(3), 113-120, WOS:000416417800012

Reviste de specialitate indexate în alte Baze de Date Internaționale (BDI)

Ris1.	CI Tarcea, CM Pantilimon, E Matei, AM Predescu, AC Berbecaru, M Rapa., <i>Photocatalytic Degradation of Methylene Blue Dye Using TiO2 and Fe3O4/SiO2/TiO2 as Photocatalysts.</i> IOP Conference Series: Materials Science and Engineering 2020, 877(1), 012008, DOI: 10.1088/1757-899X/877/1/012008
Ris2.	MC Pantilimon, CI Tarcea, CS Gradinaru, G Coman, S Ciuca, M Sohaci, C Predescu. <i>Novel Trip Steel–Characterization, Impact Test and Comparison with Existing Trip Steels.</i> IOP Conference Series: Materials Science and Engineering 2020, 877(1), 012007, DOI: 10.1088/1757-899X/877/1/012007
Ris3.	A. Nicolae, C.I. Dragan, Catalin Stefan Gradinaru, Valeriu Rucai, Maria Nicolae, <i>Ecotechnologies–A Major Route for Durable Sustainable Development in the Metal Materials Industry,</i> The Annals of “Dunarea de Jos” University of Galati. Fascicle IX, Metallurgy and Materials Science, 2016, 39(9), 27-34

V. BREVETE DE INVENȚIE

B1	Cerere de brevet – C. Predescu, A. M. Predescu, E. Matei, A. C. Berbecaru, G. Coman, C Tarcea, M. Râpă <i>Procedeu de sinteză a nanocompozitului de tip Fe₃O₄@SiO₂@TiO₂ prin valorificarea unui deșeu feros</i>
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VI. CONTRACTE ȘTIINȚIFICE

Proiecte de cercetare-dezvoltare (Pn1, Pn2 etc.) pe bază de contract/grant naționale

Membri în echipa de cercetare	
Pn1	P_37_649/2016, <i>Eco-nano-tehnologii pentru dezvoltarea unui modul cu dubla functionalitate pe baza de nanofire</i>
Pn2	26PCCDI, <i>Procese integrate și sustenabile de depoluare a mediului, reutilizare a apelor uzate și valorificare a deșeurilor</i>
Pn3	POC:P_40_253, <i>Eco-Nanotehnologii de depoluare a apelor și valorificarea deșeurilor</i>

VII. COMUNICĂRI ȘTIINȚIFICE NEPUBLICATE (E)

E – Lucrări prezentate la diferite seminarii/expoziții, conferințe, etc

E1.	C.Tarcea, C. Predescu, E. Matei, C. Orbeci, L. Bobirică, L. Favier, M. Rapa, A. Predescu, A. Berbecaru and R. Vidu. Performances in photodegradation process applied for dyes effluents using nano-photocatalysts (Oral Presentation O. IV.10.) The 8th International Conference on Materials Science and Technologies – RoMat 2020, Bucharest (Romania), November 26th to November 27th, 2020.
E2.	D. Ștefan, E. Matei, A.A. Țurcanu, C. Tarcea, G. Coman, L.Favier, M. Râpă and C. Predescu. The use of digestate in green agriculture. The 8th International Conference on Materials Science and

	Technologies – RoMat 2020, Bucharest (Romania), November 26th to November 27th, 2020.
E3.	<u>CI Tarcea</u>, C. M. Pantilimon, G. Coman, A. Turcanu, A. M. Predescu, E. Matei, C. Predescu., TiO₂ nanostructures obtained on the surface of titanium sheet as photocatalyst for wastewater treatment (Poster Presentation, P1.18), 5th Green and Sustainable Chemistry Conference, Dresda (Germania), 9 - 11 November 2020.
E4.	<u>C.I. Tarcea</u>, C.M. Pantilimon, E. Matei, A.M. Predescu, A.C. Berbecaru, M. Rapa, A. Turcanu and C. Predescu. Photocatalytic Degradation of Methylene Blue Dye Using TiO₂ and Fe₃O₄/SiO₂/TiO₂ as Photocatalysts (Oral Presentation), International Conference on Innovative Research - ICIR EUROINVENT 2020, Iasi (Romania), 21-23 May 2020.
E5.	<u>Tarcea C</u>, Matei E, Predescu A, Berbecaru A, Turcanu A, Vidu R, Predescu C. Photocatalytic activity of magnetic nanocomposite Fe₃O₄/SiO₂/TiO₂ on methylen-blue solutions, (Poster Presentation) The 43rd Congress of the American Romanian Academy of Art and Sciences, Greece, 10-13 June 2019
E6.	<u>C.I. Tarcea</u>, E. Matei, A.M. Predescu, M. Rapa, A. Turcanu. Use of nano-anatase in degradation of heterocyclic dyes from waters. (Poster Presentation V.PO.12) 11th International conference on materials science & engineering, BRAMAT 2019, 13 - 16 March 2019
E7.	A.M. Predescu, E. Matei, M.Rapa, C. Pantilimon, A. Turcanu, <u>C. Dragan</u>, C. Predescu, Structural, morphological and thermal analysis evaluation of some alginate/starch/n-clay composites, (Poster Presentation, S1-P24), 4th International Conference of chemical engineering, ICCE, Iasi (Romania), 31 oct- 2 nov. 2018
E8.	E. Matei, C. I. Covaliu, A. Predescu, A. Berbecaru, <u>C. Dragn</u>, L. Favier, C. Predescu, Depollution of watewaters using nanobiotechnology based on new TiO₂ photocatalyst (Poster Presentation), The Fifth Edition of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences” IC-ANMBES 2018”, Brasov (Romania), 23-25 mai 2018.
E9.	<u>C.I. Dragan</u>, E. Matei, G. Coman, A. M. Predescu, M. Sohaciu, A.C. Berbecaru, M.C. Pantilimon. Magnetic material with nanosize dimensions: synthesis, characterization and testing (Poster Presentation, V.PO.4), 10th International conference on materials science &engineering, Brasov, Romania, 9-11 march 2017.
E10.	A.M. Predescu, E. Matei, A.C.Berbecaru, M.C. Pantilimon, <u>C.I.Dragan</u>, C. Predescu, C. Gradinaru. Properties analysis of dextrane magnetic carrier compounds with potential applications in environmental and biomedical fields (Poster Presentation, V.O.4), 10th International conference on materials science &engineering, Brasov (Romania), 8-11 march 2017.
E11.	E. Matei, A. Predescu, <u>C. Drăgan</u>, C. Pantilimon, C. Predescu Methods for Assessment of Two Promising Nano-hybrids Materials used for Metallic Ions Removal (Poster Presentation), 10th International conference on materials science & engineering Bramat, Brasov (Romania), 8-11 martie 2017.
E12.	<u>C Dragan</u>, C. Pantilimon, A. Predescu, G. Coman, E. Matei and C. Covaliu, Removal of Cr (VI) from aqueous solution using activated charcoal (Oral Presentation), 8-th International Conference on Materials Science and Technologies, Bucuresti (Romania), 2016.
E13.	<u>C. Dragan</u>, A. Predescu, E. Matei, M. Rapa, A. Berbecaru, C. Predescu and L. Favier Removal of certain heavy metals using ion exchange resin as sustainable material (Poster Presentation), 8-th International Conference on Materials Science and Technologies, Bucuresti (Romania), 2016.

Declar pe proprie răspundere că datele prezentate sunt în conformitate cu realitatea.

SL.Dr.ing.Tarcea Claudia Ionela

