

INFORMAȚII PERSONALE



Alexandru Mihai GRUMEZESCU

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Sexul [Redacted] | Data nașterii [Redacted] | Naționalitatea [Redacted]

EXPERIENȚA PROFESIONALĂ

10.2019 - prezent

Conferentiar

Universitatea Politehnica din București, Facultatea de Chimie Aplicată și Știința Materialelor, Departamentul Știința și Ingineria Materialelor Oxidice și Nanomateriale

02.2016-09.2019

Sef de Lucrari (Lector)

Universitatea Politehnica din București, Facultatea de Chimie Aplicată și Știința Materialelor, Departamentul Știința și Ingineria Materialelor Oxidice și Nanomateriale

03.2014-02.2016

Asistent Universitar

Universitatea Politehnica din București, Facultatea de Chimie Aplicată și Știința Materialelor, Departamentul Știința și Ingineria Materialelor Oxidice și Nanomateriale

EDUCAȚIE ȘI FORMARE

2011 - 2013

Diplomă de Doctor

Universitatea Politehnica din București, Facultatea de Chimie Aplicată și Știința Materialelor, Departamentul Știința și Ingineria Materialelor Oxidice și Nanomateriale

2009 - 2011

Diplomă de Master

Universitatea Politehnica din București, Facultatea de Chimie Aplicată și Știința Materialelor, Specializarea Produse Farmaceutice si Cosmetice

2005 - 2009

Diplomă de Licență

Universitatea Politehnica din București, Facultatea de Chimie Aplicată și Știința Materialelor, Specializarea Chimia și Ingineria Substanțelor Organice, Petrochimie și Carbochimie

2009-2011

Certificate de absolvire pentru urmatoarele cursuri post-universitare

Principii, operare și aplicații HPLC-MS
 Determinarea pesticidelor prin cromatografie de gaze (GC)
 Spectrometrie de Emisie Optică prin ICP
 Determinarea nutrienților și metalelor din apă, sedimente și suspensii
 Spectroscopie de infra-roșu (FT-IR)
 GC-MS: Tehnici avansate și validare

Limba(i) maternă(e)

Română

Alte limbi străine cunoscute

	INTELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
Engleza	C1	C1	C1	C1	C1

INFORMAȚII SUPLIMENTARE

- Publicații**
Articole publicate în jurnale indexate Clarivate Analytics (Web of Science-ISI), cu factor de impact: **164**
Capitole indexate Clarivate Analytics (Web of Science-ISI), în cărți publicate în străinătate: **31**
Cărți publicate la edituri în străinătate (în calitate de autor/co-autor): **7**
Cărți publicate la edituri în străinătate (în calitate de editor): **97**
Îndrumare și culegeri publicate în țară: **3**
- Distincții**
2013 GTIS (Green Technology Invention Society) Fellow, Taiwan
2015 BS (Biotechnology Society) Fellow, Taiwan

Lista de lucrări

Alexandru Mihai GRUMEZESCU

Articole publicate in reviste ISI

Nr. crt.	Articol
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. <i>International Journal of Pharmaceutics</i> 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. <i>International Journal of Pharmaceutics</i> 2017, 531, 35-46, WOS:000410648200004, 0378-5173, doi 10.1016/j.ijpharm.2017.08.062
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 bioactive dressings based on collagen and zinc oxide 3d scaffolds. <i>International Journal of Pharmaceutics</i> 2019, 557, 199-207, WOS:000457290600023, 0378-5173, doi 10.1016/j.ijpharm.2018.12.063
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. <i>International Journal of Pharmaceutics</i> 2016, 510, 532-542, WOS:000380754500016, 0378-5173, doi 10.1016/j.ijpharm.2016.03.037
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. <i>International Journal of Pharmaceutics</i> 2012, 436, 201-205, WOS:000308597600023, 0378-5173, doi 10.1016/j.ijpharm.2012.06.031
6	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. <i>International Journal of Pharmaceutics</i> 2012, 436, 771-777, WOS:000308597600085, 0378-5173, doi 10.1016/j.ijpharm.2012.07.063
7	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. <i>International Journal of Pharmaceutics</i> 2013, 454, 233-240, WOS:000323854600028, 0378-5173, doi 10.1016/j.ijpharm.2013.06.054
8	Grumezescu, A.M.; Ghitulica, C.D.; Voicu, G.; Huang, K.S.; Yang, C.H.; Fikai, A.;

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	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
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 fe ₃ o ₄ @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
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. <i>International Journal of Pharmaceutics</i> 2017, 521, 184-195, WOS:000397613700021, 0378-5173, doi 10.1016/j.ijpharm.2017.01.069
11	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
12	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
13	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
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 antimicrobial use. <i>International Journal of Pharmaceutics</i> 2016, 510, 430-438, WOS:000380754500004, 0378-5173, doi 10.1016/j.ijpharm.2015.09.043
15	Voicu, G.; Grumezescu, V.; Andronescu, 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
16	Cristescu, R.; Popescu, C.; Socol, G.; Iordache, I.; Mihailescu, I.N.; Mihaiescu, D.E.; Grumezescu, A.M.; Balan, A.; Stamatin, 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. <i>Applied Surface Science</i> 2012, 258, 9250-9255, WOS:000307241800030, 0169-4332, doi 10.1016/j.apsusc.2012.02.055
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,

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	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. <i>Applied Surface Science</i> 2015, 336, 234-239, WOS:000351617600041, 0169-4332, doi 10.1016/j.apsusc.2014.11.145
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. <i>Applied Surface Science</i> 2016, 374, 290-296, WOS:000375937300045, 0169-4332, doi 10.1016/j.apsusc.2015.11.252
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
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
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-hydroxybutyric acid-co-3-hydroxyvaleric 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
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
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 10.1016/j.apsusc.2018.04.053
24	Grumezescu, V.; Socol, G.; Grumezescu, A.M.; Holban, A.M.; Ficai, 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. <i>Applied Surface Science</i> 2014, 302, 262-267, WOS:000333405800053, 0169-4332, doi 10.1016/j.apsusc.2013.09.081
25	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

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26	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 ₃ o ₄ 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
27	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
28	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
29	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
30	Anghel, I.; Grumezescu, A.M.; Holban, A.M.; Ficai, A.; Anghel, A.G.; Chifiriuc, M.C. Biohybrid nanostructured iron oxide nanoparticles and satreja hortensis to prevent fungal biofilm development. <i>International Journal of Molecular Sciences</i> 2013, 14, 18110-18123, WOS:000328623900047, doi 10.3390/ijms140918110
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. <i>International Journal of Molecular Sciences</i> 2020, 21, WOS:000522524400060, doi 10.3390/ijms21041233
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. <i>International Journal of Molecular Sciences</i> 2012, 13, 12584-12597, WOS:000310677800027, 1661-6596, doi 10.3390/ijms131012584
33	Beiu, C.; Giurcaneanu, C.; Grumezescu, A.M.; Holban, A.M.; Popa, L.G.; Mihai, M.M. Nanosystems for improved targeted therapies in melanoma. <i>Journal of Clinical Medicine</i> 2020, 9, WOS:000518823000031, doi 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.; 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,

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	doi 10.3390/jcm8071039
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
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
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
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
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
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 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. <i>Colloids and Surfaces B-Biointerfaces</i> 2018, 172, 471-479, WOS:000455858500057, 0927-7765, doi 10.1016/j.colsurfb.2018.08.069
42	Grigore, M.E.; Grumezescu, A.M.; Holban, A.M.; Mogosanu, G.D.; Andronescu, E. Collagen-nanoparticles composites for wound healing and infection control. <i>Metals</i> 2017, 7, WOS:000419184500001, 2075-4701, doi 10.3390/met7120516
43	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 Fe ₃ O ₄ and patchouli oil for wound dressing. <i>Metals</i> 2016, 6, WOS:000378861000009, doi 10.3390/met6050103
44	Grumezescu, A.M.; Cristescu, R.; Chifiriuc, M.C.; Dorcioman, G.; Socol, G.; Mihailescu, I.N.; Mihaiescu, D.E.; Ficai, A.; Vasile, O.R.; Enculescu, M.; Chrisey, D.B. Fabrication of magnetite-based core-shell coated nanoparticles with antibacterial properties. <i>Biofabrication</i> 2015, 7, WOS:000353341000015, 1758-5082, doi 10.1088/1758-5090/7/1/015014
45	Grumezescu, V.; Holban, A.M.; Grumezescu, A.M.; Socol, G.; Ficai, 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. <i>Biofabrication</i> 2014, 6, WOS:000341823500002, 1758-5082, doi 10.1088/1758-5082/6/3/035002
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.; Chifiriuc, C.; Bleotu, C.; Chrisey, D.B. Functionalized magnetite silica

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	thin films fabricated by maple with antibiofilm properties. <i>Biofabrication</i> 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. <i>Materials Science & Engineering C-Materials for Biological Applications</i> 2014, 42, 280-288, WOS:000340687400037, 0928-4931, doi 10.1016/j.msec.2014.05.031
48	Anghel, I.; Grumezescu, A.M. Hybrid nanostructured coating for increased resistance of prosthetic devices to staphylococcal colonization. <i>Nanoscale Research Letters</i> 2013, 8, 1-6, WOS:000316273800001, 1931-7573, doi 10.1186/1556-276x-8-6
49	Anghel, I.; Grumezescu, A.M.; Andronescu, E.; Anghel, A.G.; Ficai, A.; Saviuc, C.; Grumezescu, V.; Vasile, B.S.; Chifiriuc, M.C. Magnetite nanoparticles for functionalized textile dressing to prevent fungal biofilms development. <i>Nanoscale Research Letters</i> 2012, 7, WOS:000310951100001, 1931-7573, doi 10.1186/1556-276x-7-501
50	Anghel, I.; Holban, A.M.; Grumezescu, A.M.; Andronescu, E.; Ficai, 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. <i>Nanoscale Research Letters</i> 2012, 7, 1-8, WOS:000314703400001, 1931-7573, doi 10.1186/1556-276x-7-690
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 $Fe_3O_4/C-12$ nanostructures and 2-((4-ethylphenoxy)methyl)-n-(substituted-phenylcarbamothioyl)-benzamide s. <i>Nanoscale Research Letters</i> 2012, 7, WOS:000310383300001, 1931-7573, doi 10.1186/1556-276x-7-513
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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), USA, 2017.
44	Alexandru Mihai Grumezescu: Multifunctional systems for combined delivery, biosensing and diagnostics, ISBN: 978-0-323-52725-5, ELSEVIER, USA, 2017.
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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.
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79	Alexandru Mihai Grumezescu, Alina Maria Holban: Engineering Tools in the Beverage Industry, ISBN: 9780128156988, Academic Press, USA, 2019
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

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84	Alina Maria Holban, Alexandru Mihai Grumezescu: Materials for Biomedical Engineering: Bioactive Materials for Antimicrobial, Anticancer, and Gene Therapy, ISBN: 9780128184363, Elsevier, USA, 2019
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III. Alte materiale publicate

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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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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)
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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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25	Iordanskii, A.L.; Karpova, S.G.; Olkhov, A.A.; Staroverova, O.V.; Khvatov, A.V.; Grumezescu, A.; Zaikov, G.E.; Berlin, A.A. <i>A Study On Electrospun Nanofiber Mats</i> ; 2016; pp. 401-415. (Nanostructured Polymer Blends and Composites in Textiles 978-1771881432)
26	Grumezescu, V.; Holban, A.M.; Barbu, I.; Popescu, R.C.; Oprea, A.E.; Lazar, V.; Grumezescu, A.M.; Chifiriuc, M.C.; Kon, K.; Rai, M. <i>Nanoarchitectonics Used In Antiinfective Therapy</i> ; 2016; 10.1016/b978-0-12-803642-6.00007-1pp. 145-166.

	(Antibiotic Resistance: Mechanisms and New Antimicrobial Approaches 9780128036686)
27	Fufa, O.; Andronescu, E.; Grumezescu, A.M.; Radulescu, D. <i>Metallic nanosystems in hard tissue implants</i> ; 2016; Vol. 4, pp. 381-412. (Nanobiomaterials in Hard Tissue Engineering: Applications of Nanobiomaterials, Vol 4 9780323428859)
28	Dolete, G.; Ilie, C.F.; Nicoara, I.F.; Vlasceanu, G.M.; Grumezescu, A.M. <i>Understanding dental implants</i> ; 2016; 10.1016/b978-0-323-42867-5.00002-3pp. 27-47. (Nanobiomaterials in Dentistry: Applications of Nanobiomaterials, Vol 11 9780323428903)
29	Chifiriuc, M.C.; Grumezescu, A.M. <i>Iron oxide nanomaterials for functional imaging</i> ; 2016; Vol. 8, pp. 279-301. (Nanobiomaterials in Medical Imaging: Applications of Nanobiomaterials, Vol 8 9780323417389)
30	Andronescu, E.; Grumezescu, A.M.; Gusa, M.I.; Holban, A.M.; Ilie, F.C.; Irimia, A.; Nicoara, I.F.; Tone, M. <i>Nano-hydroxyapatite: novel approaches in biomedical applications</i> ; 2016; Vol. 4, pp. 189-213. (Nanobiomaterials in Hard Tissue Engineering: Applications of Nanobiomaterials, Vol 4 9780323428859)
31	Mogosanu, G.D.; Grumezescu, A.M. <i>Pharmaceutical Natural Polymers: Structure and Chemistry</i> ; 2015; pp. 477-519. (Handbook of Polymers for Pharmaceutical Technologies, Vol 1: Structure and Chemistry 978-1-119-04134-4)

CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE

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

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

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	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 implementation: 2020-2022; Responsabil proiect din partea UPB; Valoare proiect: 600000 RON;
10	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