Alexandru Mihai Grumezescu

List of Publications by Year in Descending Order

234 papers	6,004 citations	37 h-index	68 g-index
269 ext. papers	7,886 ext. citations	4.3 avg, IF	6.72 L-index

#	Paper	IF	Citations
234	Microelectromechanical Systems (MEMS) for Biomedical Applications.. *Micromachines*, **2022**, 13,	3.3	6
233	Applications of Chitosan-Alginate-Based Nanoparticles-An Up-to-Date Review.. *Nanomaterials*, **2022**, 12,	5.4	14
232	An Up-to-Date Review of Biomaterials Application in Wound Management.. *Polymers*, **2022**, 14,	4.5	10
231	New Insights of Scaffolds Based on Hydrogels in Tissue Engineering.. *Polymers*, **2022**, 14,	4.5	7
230	Bee-Derived Products: Chemical Composition and Applications in Skin Tissue Engineering.. *Pharmaceutics*, **2022**, 14,	6.4	3
229	Clinical Applications of Artificial Intelligence-An Updated Overview.. *Journal of Clinical Medicine*, **2022**, 11,	5.1	8
228	Current Strategies to Enhance Delivery of Drugs across the Blood–Brain Barrier. *Pharmaceutics*, **2022**, 14, 987	6.4	2
227	Magnetite Nanoparticles Functionalized with Therapeutic Agents for Enhanced ENT Antimicrobial Properties. *Antibiotics*, **2022**, 11, 623	4.9	3
226	An Overview of Oxidative Stress, Neuroinflammation and Neurodegenerative Diseases. *International Journal of Molecular Sciences*, **2022**, 23, 5938	6.3	6
225	Neurotransmitters—Key Factors in Neurological and Neurodegenerative Disorders of the Central Nervous System. *International Journal of Molecular Sciences*, **2022**, 23, 5954	6.3	2
224	PEG-Functionalized Magnetite Nanoparticles for Modulation of Microbial Biofilms on Voice Prosthesis.. *Antibiotics*, **2021**, 11,	4.9	3
223	Atmospheric Pressure Plasma Activation of Hydroxyapatite to Improve Fluoride Incorporation and Modulate Bacterial Biofilm. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
222	Polymer-Based Nanosystems-A Versatile Delivery Approach. *Materials*, **2021**, 14,	3.5	5
221	Surface Modification to Modulate Microbial Biofilms-Applications in Dental Medicine. *Materials*, **2021**, 14,	3.5	4
220	Modified Composite Based on Magnetite and Polyvinyl Alcohol: Synthesis, Characterization, and Degradation Studies of the Methyl Orange Dye from Synthetic Wastewater. *Polymers*, **2021**, 13,	4.5	4
219	Anti-Biofilm Coatings Based on Chitosan and Lysozyme Functionalized Magnetite Nanoparticles. *Antibiotics*, **2021**, 10,	4.9	5
218	Synthesis of Magnetite Nanoparticles through a Lab-On-Chip Device. *Materials*, **2021**, 14,	3.5	3

217	MAPLE Coatings Embedded with Essential Oil-Conjugated Magnetite for Anti-Biofilm Applications. *Materials*, **2021**, 14,	3.5	14
216	Nanomaterials Synthesis through Microfluidic Methods: An Updated Overview. *Nanomaterials*, **2021**, 11,	5.4	27
215	Photodynamic Therapy: An Up-to-Date Review. *Applied Sciences (Switzerland)*, **2021**, 11, 3626	2.6	26
214	Eugenol-Functionalized Magnetite Nanoparticles Modulate Virulence and Persistence in Clinical Strains. *Molecules*, **2021**, 26,	4.8	16
213	Essential Oils for Bone Repair and Regeneration-Mechanisms and Applications. *Materials*, **2021**, 14,	3.5	7
212	Inorganic Nanoparticles and Composite Films for Antimicrobial Therapies. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	22
211	Magnetite nanoparticles: Synthesis methods - A comparative review. *Methods*, **2021**,	4.6	23
210	Cardiovascular Stents: A Review of Past, Current, and Emerging Devices. *Materials*, **2021**, 14,	3.5	10
209	Nanoparticles for the Treatment of Inner Ear Infections. *Nanomaterials*, **2021**, 11,	5.4	5
208	Biomaterials for the Prevention of Oral Candidiasis Development. *Pharmaceutics*, **2021**, 13,	6.4	8
207	Isoflavonoid-Antibiotic Thin Films Fabricated by MAPLE with Improved Resistance to Microbial Colonization. *Molecules*, **2021**, 26,	4.8	1
206	ZnO Nanoparticles-Modified Dressings to Inhibit Wound Pathogens. *Materials*, **2021**, 14,	3.5	10
205	Electrochemotherapy and Other Clinical Applications of Electroporation for the Targeted Therapy of Metastatic Melanoma. *Materials*, **2021**, 14,	3.5	1
204	Unexpected Ferromagnetism: A Review. *Applied Sciences (Switzerland)*, **2021**, 11, 6707	2.6	1
203	Fabrication and Applications of Microfluidic Devices: A Review. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	63
202	Polymeric Nanoparticles for Antimicrobial Therapies: An Up-To-Date Overview. *Polymers*, **2021**, 13,	4.5	34
201	Bioactive Coatings Based on Hydroxyapatite, Kanamycin, and Growth Factor for Biofilm Modulation. *Antibiotics*, **2021**, 10,	4.9	4
200	Anti-Cancer Nanopowders and MAPLE-Fabricated Thin Films Based on SPIONs Surface Modified with Paclitaxel Loaded Cyclodextrin. *Pharmaceutics*, **2021**, 13,	6.4	6

199	Preventing Biofilm Formation and Development on Ear, Nose and Throat Medical Devices. *Biomedicines*, **2021**, 9,	4.8	1
198	Recent Advances in the Treatment of Bone Metastases and Primary Bone Tumors: An Up-to-Date Review. *Cancers*, **2021**, 13,	6.6	5
197	Natural Compounds for Preventing Ear, Nose, and Throat-Related Oral Infections. *Plants*, **2021**, 10,	4.5	3
196	Biofilm-Resistant Nanocoatings Based on ZnO Nanoparticles and Linalool. *Nanomaterials*, **2021**, 11,	5.4	2
195	An Up-to-Date Review of Natural Nanoparticles for Cancer Management.. *Pharmaceutics*, **2021**, 14,	6.4	2
194	Biosensors-on-Chip: An Up-to-Date Review. *Molecules*, **2020**, 25,	4.8	12
193	Scar-Free Healing: Current Concepts and Future Perspectives. *Nanomaterials*, **2020**, 10,	5.4	10
192	Nanomaterials for Wound Dressings: An Up-to-Date Overview. *Molecules*, **2020**, 25,	4.8	65
191	Hydroxyapatite Particles□Directing the Cellular Activity in Bone Regeneration Processes: An Up-To-Date Review. *Applied Sciences (Switzerland)*, **2020**, 10, 3483	2.6	8
190	Marine Biocompounds for Neuroprotection-A Review. *Marine Drugs*, **2020**, 18,	6	17
189	Hydrogel Dressings for the Treatment of Burn Wounds: An Up-To-Date Overview. *Materials*, **2020**, 13,	3.5	33
188	Recent Advances in Surface Nanoengineering for Biofilm Prevention and Control. Part I: Molecular Basis of Biofilm Recalcitrance. Passive Anti-Biofouling Nanocoatings. *Nanomaterials*, **2020**, 10,	5.4	22
187	The Effect of Silver Nanoparticles on Antioxidant/Pro-Oxidant Balance in a Murine Model. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	38
186	Nanosystems for Improved Targeted Therapies in Melanoma. *Journal of Clinical Medicine*, **2020**, 9,	5.1	13
185	Bioactive Surfaces of Polylactide and Silver Nanoparticles for the Prevention of Microbial Contamination. *Materials*, **2020**, 13,	3.5	18
184	Surface modification □A step forward to overcome the current challenges in orthopedic industry and to obtain an improved osseointegration and antimicrobial properties. *Materials Chemistry and Physics*, **2020**, 243, 122579	4.4	19
183	Regenerative Wound Dressings for Skin Cancer. *Cancers*, **2020**, 12,	6.6	8
182	Body Fluid Biomarkers for Alzheimer□s Disease-An Up-To-Date Overview. *Biomedicines*, **2020**, 8,	4.8	16

181	Magnetite Nanoparticles and Essential Oils Systems for Advanced Antibacterial Therapies. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	16
180	An Updated Review on Silver Nanoparticles in Biomedicine. *Nanomaterials*, **2020**, 10,	5.4	48
179	Polyphenols of Honeybee Origin with Applications in Dental Medicine. *Antibiotics*, **2020**, 9,	4.9	3
178	Anti-biofilm FeO@C-[1,3,4]thiadiazolo[3,2-]pyrimidin-4-ium-2-thiolate Derivative Core-shell Nanocoatings. *Materials*, **2020**, 13,	3.5	3
177	Nanostructured Thin Coatings Containing Extract with Dual Bioactivity. *Molecules*, **2020**, 25,	4.8	3
176	Recent Advances in Surface Nanoengineering for Biofilm Prevention and Control. Part II: Active, Combined Active and Passive, and Smart Bacteria-Responsive Antibiofilm Nanocoatings. *Nanomaterials*, **2020**, 10,	5.4	17
175	Trends in the Immunomodulatory Effects of : Total Extracts, Polysaccharides and Cordycepin. *Frontiers in Pharmacology*, **2020**, 11, 575704	5.6	10
174	Biodistribution of essential oil-conjugated silver nanoparticles. *Romanian Journal of Morphology and Embryology*, **2020**, 61, 1099-1109	0.6	
173	Nanobiomaterials Used in Cancer Therapy: An Up-To-Date Overview. *Molecules*, **2019**, 24,	4.8	51
172	Nanomaterial-Based Approaches for Neural Regeneration. *Pharmaceutics*, **2019**, 11,	6.4	8
171	Nanomaterials for Drug Delivery to the Central Nervous System. *Nanomaterials*, **2019**, 9,	5.4	59
170	Neuronanomedicine: An Up-to-Date Overview. *Pharmaceutics*, **2019**, 11,	6.4	28
169	Contrast Agents Delivery: An Up-to-Date Review of Nanodiagnostics in Neuroimaging. *Nanomaterials*, **2019**, 9,	5.4	12
168	Antimicrobial applications of MAPLE processed coatings based on PLGA and lincomycin functionalized magnetite nanoparticles. *Applied Surface Science*, **2019**, 484, 587-599	6.7	7
167	Magnetic Particles for Advanced Molecular Diagnosis. *Materials*, **2019**, 12,	3.5	12
166	Nanomaterials for Wound Healing and Infection Control. *Materials*, **2019**, 12,	3.5	145
165	Electrospun Polyethylene Terephthalate Nanofibers Loaded with Silver Nanoparticles: Novel Approach in Anti-Infective Therapy. *Journal of Clinical Medicine*, **2019**, 8,	5.1	20
164	Suberin/Cinnamaldehyde Oil Nanoparticles with Antimicrobial Activity and Anticancer Properties When Loaded with Paclitaxel.. *ACS Applied Bio Materials*, **2019**, 2, 3484-3497	4.1	6

163	Antioxidant Therapies for Neuroprotection-A Review. *Journal of Clinical Medicine*, **2019**, 8,	5.1	37
162	Recent progress in polyester□urethanes **2019**, 409-423		
161	Microfluidics □Organ-on-chip **2019**, 1, 2-8		3
160	Tailored Gold Nanoparticles for Cancer Imaging and Therapy. *Materials International*, **2019**, 1, 013-024	1.8	3
159	Biomedical Engineering International joins the Family of Platinum Open Access Journals **2019**, 1, 1-1		
158	Innovative Biomaterials in Bone Tissue Engineering. *Materials International*, **2019**, 1, 002-012	1.8	
157	Bioengineering International joins the Family of Platinum Open Access Journals **2019**, 1, 001-001		
156	Tumor Angiogenesis and Anti-Angiogenic Strategies for Cancer Treatment. *Journal of Clinical Medicine*, **2019**, 9,	5.1	138
155	Clinical applications of bioactive materials **2019**, 527-543		
154	Degradation versus resorption **2019**, 1-18		
153	Successful Release of Voriconazole and Flavonoids from MAPLE Deposited Bioactive Surfaces. *Applied Sciences (Switzerland)*, **2019**, 9, 786	2.6	4
152	In vitro and in vivo studies of novel fabricated bioactive dressings based on collagen and zinc oxide 3D scaffolds. *International Journal of Pharmaceutics*, **2019**, 557, 199-207	6.5	42
151	Neurotoxicity of Nanomaterials: An Up-to-Date Overview. *Nanomaterials*, **2019**, 9,	5.4	68
150	MAPLE fabricated coatings based on magnetite nanoparticles embedded into biopolymeric spheres resistant to microbial colonization. *Applied Surface Science*, **2018**, 448, 230-236	6.7	10
149	Nanocoatings for Chronic Wound Repair-Modulation of Microbial Colonization and Biofilm Formation. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	55
148	Novel Hybrid Formulations Based on Thiourea Derivatives and Core@Shell Fe□□@C Nanostructures for the Development of Antifungal Strategies. *Nanomaterials*, **2018**, 8,	5.4	13
147	Blood-Brain Delivery Methods Using Nanotechnology. *Pharmaceutics*, **2018**, 10,	6.4	113
146	Impact of Nanoparticles on Brain Health: An Up to Date Overview. *Journal of Clinical Medicine*, **2018**, 7,	5.1	84

145	Preface for Volume 18: Food Processing for Increased Quality and Consumption **2018**, xxiii-xxvi		3
144	Treatment Strategies for Infected Wounds. *Molecules*, **2018**, 23,	4.8	212
143	Antibiofilm Coatings Based on PLGA and Nanostructured Cefepime-Functionalized Magnetite. *Nanomaterials*, **2018**, 8,	5.4	16
142	Biomedical Applications of Silver Nanoparticles: An Up-to-Date Overview. *Nanomaterials*, **2018**, 8,	5.4	538
141	Cellulose acetate - essential oil nanocapsules with antimicrobial activity for biomedical applications. *Colloids and Surfaces B: Biointerfaces*, **2018**, 172, 471-479	6	27
140	MAPLE deposition of Nigella sativa functionalized Fe3O4 nanoparticles for antimicrobial coatings. *Applied Surface Science*, **2018**, 455, 513-521	6.7	18
139	Hyaluronic acid-based scaffolds for tissue engineering. *Romanian Journal of Morphology and Embryology*, **2018**, 59, 71-76	0.6	27
138	Microorganisms: new trends in environment-friendly and energy-saving water purification **2017**, 263-288		3
137	Preparation and Antimicrobial Activity of Inorganic Nanoparticles **2017**, 325-340		2
136	Silver-based nanostructures for cancer therapy **2017**, 405-428		0
135	Nanostructures for cancer therapy: from targeting to selective toxicology **2017**, 831-847		3
134	Nanotherapeutics in the management of infections and cancer **2017**, 163-189		
133	Nanostructurated Composites Based on Biodegradable Polymers and Silver Nanoparticles **2017**, 585-621		
132	Bioactive mesoporous silica nanostructures with anti-microbial and anti-biofilm properties. *International Journal of Pharmaceutics*, **2017**, 531, 35-46	6.5	21
131	Recent trends and methodologies in gold nanoparticle synthesis A prospective review on drug delivery aspect. *OpenNano*, **2017**, 2, 37-46	8.4	141
130	Gold nanoparticles: advances in water purification approaches **2017**, 447-477		5
129	Bioengineered nanomaterials for chemotherapy **2017**, 23-49		8
128	Antimicrobial Thin Coatings Prepared by Laser Processing **2017**, 223-236		1

127	Electrospun Fiber Pads of Cellulose Acetate and Essential Oils with Antimicrobial Activity. *Nanomaterials*, **2017**, 7,	5.4	57
126	Nanostructurated materials for prolonged and safe food preservation **2017**, 305-335		6
125	Zinc Oxide Nanostrucures **2017**, 503-514		1
124	Fabrication and Cytotoxicity of Gemcitabine-Functionalized Magnetite Nanoparticles. *Molecules*, **2017**, 22,	4.8	25
123	Natural products used for food preservation **2017**, 365-411		11
122	Nanostructurated membranes for the microbiological purification of drinking water **2017**, 421-446		5
121	Development of Scaffolds for Vascular Tissue Engineering: Biomaterial Mediated Neovascularization. *Current Stem Cell Research and Therapy*, **2017**, 12, 155-164	3.6	5
120	Mesoporous silica coatings for cephalosporin active release at the bone-implant interface. *Applied Surface Science*, **2016**, 374, 165-171	6.7	16
119	Biocompatible cephalosporin-hydroxyapatite-poly(lactic-co-glycolic acid)-coatings fabricated by MAPLE technique for the prevention of bone implant associated infections. *Applied Surface Science*, **2016**, 374, 387-396	6.7	15
118	All natural cellulose acetate-Lemongrass essential oil antimicrobial nanocapsules. *International Journal of Pharmaceutics*, **2016**, 510, 508-15	6.5	34
117	Control of biofilm-associated infections by signaling molecules and nanoparticles. *International Journal of Pharmaceutics*, **2016**, 510, 409-18	6.5	22
116	Polymeric protective agents for nanoparticles in drug delivery and targeting. *International Journal of Pharmaceutics*, **2016**, 510, 419-29	6.5	44
115	Thin coatings based on ZnO@C18-usnic acid nanoparticles prepared by MAPLE inhibit the development of Salmonella enterica early biofilm growth. *Applied Surface Science*, **2016**, 374, 318-325	6.7	18
114	Preparation and characterization of undoped and cobalt doped ZnO for antimicrobial use. *International Journal of Pharmaceutics*, **2016**, 510, 430-8	6.5	4
113	Comparative Dynamic Characteristics of Electrospun Ultrathin Fibers and Films Based on Poly(3-hydroxybutyrate). *Chemistry and Chemical Technology*, **2016**, 10, 151-158	0.9	3
112	Renoprotective Effects of Shout Camphor Medicinal Mushroom (Taiwanofungus camphorates, Basidiomycetes) Mycelia on Several Media in Mice with Chronic Kidney Disease. *International Journal of Medicinal Mushrooms*, **2016**, 18, 1105-1114	1.3	1
111	Soft tissue engineering and microbial infections: Challenges and perspectives **2016**, 1-29		2
110	Toxicity of inorganic nanoparticles against prokaryotic cells **2016**, 29-65		

109	Inorganic nanoarchitectonics designed for drug delivery and anti-infective surfaces **2016**, 301-327		11
108	Nano-hydroxyapatite **2016**, 189-213		4
107	Understanding dental implants **2016**, 27-47		1
106	Specifically targeted imaging using functionalized nanoparticles **2016**, 1-44		
105	Silver Nanocoatings for Reducing the Exogenous Microbial Colonization of Wound Dressings. *Materials*, **2016**, 9,	3.5	31
104	Antimicrobial Nanostructured Bioactive Coating Based on Fe3O4 and Patchouli Oil for Wound Dressing. *Metals*, **2016**, 6, 103	2.3	17
103	Biocompatible 3D Matrix with Antimicrobial Properties. *Molecules*, **2016**, 21, E115	4.8	4
102	Bioactive ZnO Coatings Deposited by MAPLE-An Appropriate Strategy to Produce Efficient Anti-Biofilm Surfaces. *Molecules*, **2016**, 21,	4.8	22
101	Fabrication, Characterization, and Evaluation of Bionanocomposites Based on Natural Polymers and Antibiotics for Wound Healing Applications. *Molecules*, **2016**, 21,	4.8	20
100	Polylactic Acid-Lemongrass Essential Oil Nanocapsules with Antimicrobial Properties. *Pharmaceuticals*, **2016**, 9,	5.2	33
99	Methods of Synthesis, Properties and Biomedical Applications of CuO Nanoparticles. *Pharmaceuticals*, **2016**, 9,	5.2	156
98	Metallic nanosystems in hard tissue implants **2016**, 381-412		
97	Antimicrobial Lemongrass Essential Oil-Copper Ferrite Cellulose Acetate Nanocapsules. *Molecules*, **2016**, 21, 520	4.8	22
96	Natural and synthetic polymers for drug delivery and targeting **2016**, 229-284		9
95	Iron oxide nanomaterials for functional imaging **2016**, 279-301		2
94	Biocompatible hybrid silica nanobiocomposites for the efficient delivery of anti-staphylococcal drugs. *International Journal of Pharmaceutics*, **2016**, 510, 532-42	6.5	8
93	Silver nanoparticles in cancer therapy **2016**, 29-56		15
92	Antimicrobial coatings based on zinc oxide and orange oil for improved bioactive wound dressings and other applications. *Romanian Journal of Morphology and Embryology*, **2016**, 57, 107-14	0.6	14

91	Poly(lactic-co-glycolic) acid/chitosan microsphere thin films functionalized with Cinnamomi aetheroleum and magnetite nanoparticles for preventing the microbial colonization of medical surfaces. *Journal of Sol-Gel Science and Technology*, **2015**, 73, 679-686	2.3	7
90	Microbial colonization of biopolymeric thin films containing natural compounds and antibiotics fabricated by MAPLE. *Applied Surface Science*, **2015**, 336, 234-239	6.7	9
89	Gamma-cyclodextrin/usnic acid thin film fabricated by MAPLE for improving the resistance of medical surfaces to Staphylococcus aureus colonization. *Applied Surface Science*, **2015**, 336, 407-412	6.7	15
88	Carvone functionalized iron oxide nanostructures thin films prepared by MAPLE for improved resistance to microbial colonization. *Journal of Sol-Gel Science and Technology*, **2015**, 73, 605-611	2.3	10
87	Nanoarchitectonics Prepared by MAPLE for Biomedical Applications **2015**, 303-325		0
86	Magnetite Nanocomposites Thin Coatings Prepared by MAPLE to Prevent Microbial Colonization of Medical Surfaces. *Advanced Structured Materials*, **2015**, 311-339	0.6	2
85	MAPLE fabrication of thin films based on kanamycin functionalized magnetite nanoparticles with anti-pathogenic properties. *Applied Surface Science*, **2015**, 336, 188-195	6.7	21
84	Pharmaceutical Natural Polymers: Structure and Chemistry **2015**, 477-519		1
83	Fabrication of magnetite-based core-shell coated nanoparticles with antibacterial properties. *Biofabrication*, **2015**, 7, 015014	10.5	22
82	Nanostructured mesoporous silica: new perspectives for fighting antimicrobial resistance. *Journal of Nanoparticle Research*, **2015**, 17, 1	2.3	4
81	Magnetite Nanostructures **2015**, 51-67		
80	Fabrication and characterization of functionalized surfaces with 3-amino propyltrimethoxysilane films for anti-infective therapy applications. *Applied Surface Science*, **2015**, 336, 401-406	6.7	6
79	MAPLE fabricated magnetite@Melissa officinalis and poly lactic acid: chitosan coated surfaces with anti-staphylococcal properties. *Journal of Sol-Gel Science and Technology*, **2015**, 73, 612-619	2.3	8
78	Nanostructured bioactive polymers used in food-packaging. *Current Pharmaceutical Biotechnology*, **2015**, 16, 121-7	2.6	5
77	Prevention of microbial communities: novel approaches based natural products. *Current Pharmaceutical Biotechnology*, **2015**, 16, 94-111	2.6	18
76	Prosthetic devices with nanostructurated surfaces for increased resistance to microbial colonization. *Current Pharmaceutical Biotechnology*, **2015**, 16, 112-20	2.6	5
75	Smart synthetic polymer nanocarriers for controlled and site-specific drug delivery. *Current Topics in Medicinal Chemistry*, **2015**, 15, 1424-90	3	16
74	Metallic-based micro and nanostructures with antimicrobial activity. *Current Topics in Medicinal Chemistry*, **2015**, 15, 1577-82	3	20

73	Applications and toxicity of silver nanoparticles: a recent review. *Current Topics in Medicinal Chemistry*, **2015**, 15, 1596-604	3	157
72	Biomedical applications of gold nanoparticles. *Current Topics in Medicinal Chemistry*, **2015**, 15, 1605-13	3	136
71	Metal based frameworks for drug delivery systems. *Current Topics in Medicinal Chemistry*, **2015**, 15, 1532-42	3	12
70	SYNTHESIS AND BIOEVALUATION OF MAGNETIC PARTICLES BASED ON CHITOSAN AND PHYTOCOMPONENTS FROM Eugenia carryophyllata AQUEOUS EXTRACT. *Environmental Engineering and Management Journal*, **2015**, 14, 855-861	0.6	
69	Carbon nanotubes for cancer therapy and neurodegenerative diseases. *Romanian Journal of Morphology and Embryology*, **2015**, 56, 349-56	0.6	8
68	Biocompatible hydrodispersible magnetite nanoparticles used as antibiotic drug carriers. *Romanian Journal of Morphology and Embryology*, **2015**, 56, 365-70	0.6	7
67	Metal-based nanosystems for diagnosis. *Romanian Journal of Morphology and Embryology*, **2015**, 56, 635-49	0.6	6
66	In vitro and in vivo applications of 3D dendritic gold nanostructures. *Romanian Journal of Morphology and Embryology*, **2015**, 56, 915-24	0.6	2
65	In vivo biodistribution of CNTs using a BALB/c mouse experimental model. *Romanian Journal of Morphology and Embryology*, **2015**, 56, 1481-93	0.6	5
64	Improved wound dressing: Novel approaches. *International Journal of Pharmaceutics*, **2014**, 463, 117-118	6.5	2
63	Natural and synthetic polymers for wounds and burns dressing. *International Journal of Pharmaceutics*, **2014**, 463, 127-36	6.5	638
62	New silica nanostructure for the improved delivery of topical antibiotics used in the treatment of staphylococcal cutaneous infections. *International Journal of Pharmaceutics*, **2014**, 463, 170-6	6.5	17
61	Core-shell structure microcapsules with dual pH-responsive drug release function. *Electrophoresis*, **2014**, 35, 2673-80	3.6	19
60	New molecular strategies for reducing implantable medical devices associated infections. *Current Medicinal Chemistry*, **2014**, 21, 3375-82	4.3	16
59	Usnic acid-loaded biocompatible magnetic PLGA-PVA microsphere thin films fabricated by MAPLE with increased resistance to staphylococcal colonization. *Biofabrication*, **2014**, 6, 035002	10.5	33
58	One-step synthesis of platinum nanoparticles loaded in alginate bubbles. *Nanoscale Research Letters*, **2014**, 9, 277	5	8
57	Synthesis of uniform core-shell gelatin-alginate microparticles as intestine-released oral delivery drug carrier. *Electrophoresis*, **2014**, 35, 330-6	3.6	19
56	Functionalized antibiofilm thin coatings based on PLA-PVA microspheres loaded with usnic acid natural compounds fabricated by MAPLE. *Applied Surface Science*, **2014**, 302, 262-267	6.7	56

55	Anionic polymers and 10 nm Fe□□@UA wound dressings support human foetal stem cells normal development and exhibit great antimicrobial properties. *International Journal of Pharmaceutics*, **2014**, 463, 146-54	6.5	32
54	Plackett-Burman experimental design for bacterial cellulose-silica composites synthesis. *Materials Science and Engineering C*, **2014**, 42, 280-8	8.3	25
53	MAPLE fabricated Fe3O4@Cinnamomum verum antimicrobial surfaces for improved gastrostomy tubes. *Molecules*, **2014**, 19, 8981-94	4.8	31
52	Biocompatible Fe3O4 increases the efficacy of amoxicillin delivery against Gram-positive and Gram-negative bacteria. *Molecules*, **2014**, 19, 5013-27	4.8	49
51	Bioevaluation of novel anti-biofilm coatings based on PVP/Fe3O4 nanostructures and 2-((4-ethylphenoxy)methyl)-N- (arylcarbamothioyl)benzamides. *Molecules*, **2014**, 19, 12011-30	4.8	11
50	Magnetite nanostructures as novel strategies for anti-infectious therapy. *Molecules*, **2014**, 19, 12710-26	4.8	48
49	Antimicrobial nanospheres thin coatings prepared by advanced pulsed laser technique. *Beilstein Journal of Nanotechnology*, **2014**, 5, 872-80	3	23
48	Synthesis of uniform poly(d,l-lactide) and poly(d,l-lactide-co-glycolide) microspheres using a microfluidic chip for comparison. *Electrophoresis*, **2014**, 35, 316-22	3.6	13
47	Efficiency of vanilla, patchouli and ylang ylang essential oils stabilized by iron oxide@C14 nanostructures against bacterial adherence and biofilms formed by Staphylococcus aureus and Klebsiella pneumoniae clinical strains. *Molecules*, **2014**, 19, 17943-56	4.8	37
46	Carboxymethyl-cellulose/Fe3O4 nanostructures for antimicrobial substances delivery. *Bio-Medical Materials and Engineering*, **2014**, 24, 1639-46	1	4
45	MAPLE fabricated magnetite@eugenol and (3-hidroxybutyric acid-co-3-hidroxyvaleric acid)□polyvinyl alcohol microspheres coated surfaces with anti-microbial properties. *Applied Surface Science*, **2014**, 306, 16-22	6.7	43
44	Methods for synthesizing the macromolecular constituents of smart nanosized carriers for controlled drug delivery. *Current Medicinal Chemistry*, **2014**, 21, 3333-74	4.3	8
43	Biomedical applications of synthetic, biodegradable polymers for the development of anti-infective strategies. *Current Medicinal Chemistry*, **2014**, 21, 3383-90	4.3	22
42	Novel Drug Delivery Magnetite Nano-systems Used in Antimicrobial Therapy. *Current Organic Chemistry*, **2014**, 18, 185-191	1.7	19
41	Biomedical Applications of Natural Polymers for Drug Delivery. *Current Organic Chemistry*, **2014**, 18, 152-164	1.7	15
40	Quorum Sensing Inhibitors from the Sea: Lessons from Marine Symbiotic Relationships. *Current Organic Chemistry*, **2014**, 18, 823-839	1.7	7
39	Keratin-based biomaterials for biomedical applications. *Current Drug Targets*, **2014**, 15, 518-30	3	33
38	Magnetite nanostructures functionalized with cytostatic drugs exhibit great anti-tumoral properties without application of high amplitude alternating magnetic fields. *Romanian Journal of Morphology and Embryology*, **2014**, 55, 357-62	0.6	5

37	Silica network improve the effect of fludarabine and paclitaxel on HCT8 cell line. *Romanian Journal of Morphology and Embryology*, **2014**, 55, 545-51	0.6	4
36	Iron oxide nanoparticles modulate the interaction of different antibiotics with cellular membranes. *Romanian Journal of Morphology and Embryology*, **2014**, 55, 849-56	0.6	17
35	In vivo evaluation of Fe□□nanoparticles. *Romanian Journal of Morphology and Embryology*, **2014**, 55, 1013-8	0.6	10
34	Identification and phenotypic characterization of the most frequent bacterial etiologies in chronic skin ulcers. *Romanian Journal of Morphology and Embryology*, **2014**, 55, 1401-8	0.6	25
33	Efficient surface functionalization of wound dressings by a phytoactive nanocoating refractory to Candida albicans biofilm development. *Biointerphases*, **2013**, 8, 12	1.8	26
32	In vitro activity of the new water-dispersible Fe3O4@usnic acid nanostructure against planktonic and sessile bacterial cells. *Journal of Nanoparticle Research*, **2013**, 15, 1	2.3	38
31	Water dispersible cross-linked magnetic chitosan beads for increasing the antimicrobial efficiency of aminoglycoside antibiotics. *International Journal of Pharmaceutics*, **2013**, 454, 233-40	6.5	61
30	Hybrid nanostructured coating for increased resistance of prosthetic devices to staphylococcal colonization. *Nanoscale Research Letters*, **2013**, 8, 6	5	22
29	Functionalized magnetite silica thin films fabricated by MAPLE with antibiofilm properties. *Biofabrication*, **2013**, 5, 015007	10.5	31
28	Water dispersible magnetite nanoparticles influence the efficacy of antibiotics against planktonic and biofilm embedded Enterococcus faecalis cells. *Anaerobe*, **2013**, 22, 14-9	2.8	42
27	Synthesis, characterization and bioevaluation of irinotecan-collagen hybrid materials for biomedical applications as drug delivery systems in tumoral treatments. *Open Chemistry*, **2013**, 11, 2134-2143	1.6	5
26	Biohybrid nanostructured iron oxide nanoparticles and Satureja hortensis to prevent fungal biofilm development. *International Journal of Molecular Sciences*, **2013**, 14, 18110-23	6.3	68
25	Caprolactam-silica network, a strong potentiator of the antimicrobial activity of kanamycin against gram-positive and gram-negative bacterial strains. *International Journal of Pharmaceutics*, **2013**, 446, 63-9	6.5	10
24	Fabrication, characterization and in vitro profile based interaction with eukaryotic and prokaryotic cells of alginate-chitosan-silica biocomposite. *International Journal of Pharmaceutics*, **2013**, 441, 555-61	6.5	32
23	A microfluidic chip using phenol formaldehyde resin for uniform-sized polycaprolactone and chitosan microparticle generation. *Molecules*, **2013**, 18, 6521-31	4.8	12
22	Synthesis and characterization of oil-chitosan composite spheres. *Molecules*, **2013**, 18, 5749-60	4.8	10
21	Tumor Marker Detection by Aptamer-Functionalized Graphene Oxide. *Current Organic Chemistry*, **2013**, 17, 132-136	1.7	6
20	Biocompatible Magnetic Hollow Silica Microspheres for Drug Delivery. *Current Organic Chemistry*, **2013**, 17, 1029-1033	1.7	17

19	A Novel Continuous Extrusion Process to Fabricate Wedge-Shaped Light Guide Plates. *International Journal of Polymer Science*, **2013**, 2013, 1-6	2.4	0
18	Essential Oils and Nanotechnology for Combating Microbial Biofilms. *Current Organic Chemistry*, **2013**, 17, 90-96	1.7	21
17	Prosthetic Devices with Functionalized Anti-biofilm Surface Based NanoAg@C18. *Current Organic Chemistry*, **2013**, 17, 105-112	1.7	4
16	Wound Dressing Based Collagen Biomaterials Containing Usnic Acid as Quorum Sensing Inhibitor Agent: Synthesis, Characterization and Bioevaluation. *Current Organic Chemistry*, **2013**, 17, 125-131	1.7	8
15	Antimicrobial Potential of Benzamides and Derived Nanosystems for Controlling in vitro Biofilm Development on Medical Devices. *Current Organic Chemistry*, **2013**, 17, 162-175	1.7	3
14	Antitumor Activity of Magnetite Nanoparticles: Influence of Hydrocarbonated Chain of Saturated Aliphatic Monocarboxylic Acids. *Current Organic Chemistry*, **2013**, 17, 831-840	1.7	6
13	Magnetic Nanoparticles for Controlling in vitro Fungal Biofilms. *Current Organic Chemistry*, **2013**, 17, 1023-1028	1.7	9
12	Improved antibacterial activity of cephalosporins loaded in magnetic chitosan microspheres. *International Journal of Pharmaceutics*, **2012**, 436, 201-5	6.5	43
11	Synthesis, characterization and in vitro assessment of the magnetic chitosan-carboxymethylcellulose biocomposite interactions with the prokaryotic and eukaryotic cells. *International Journal of Pharmaceutics*, **2012**, 436, 771-7	6.5	49
10	Hybrid nanomaterial for stabilizing the antibiofilm activity of Eugenia carryophyllata essential oil. *IEEE Transactions on Nanobioscience*, **2012**, 11, 360-5	3.4	34
9	Magnetic core/shell nanoparticle thin films deposited by MAPLE: Investigation by chemical, morphological and in vitro biological assays. *Applied Surface Science*, **2012**, 258, 9250-9255	6.7	19
8	Hybrid magnetite nanoparticles/Rosmarinus officinalis essential oil nanobiosystem with antibiofilm activity. *Nanoscale Research Letters*, **2012**, 7, 209	5	98
7	Magnetite nanoparticles for functionalized textile dressing to prevent fungal biofilms development. *Nanoscale Research Letters*, **2012**, 7, 501	5	42
6	In vitro evaluation of anti-pathogenic surface coating nanofluid, obtained by combining Fe3O4/C12 nanostructures and 2-((4-ethylphenoxy)methyl)-N-(substituted-phenylcarbamothioyl)-benzamides. *Nanoscale Research Letters*, **2012**, 7, 513	5	15
5	Modified wound dressing with phyto-nanostructured coating to prevent staphylococcal and pseudomonal biofilm development. *Nanoscale Research Letters*, **2012**, 7, 690	5	41
4	Optimized anti-pathogenic agents based on core/shell nanostructures and 2-((4-ethylphenoxy)ethyl)-N-(substituted-phenylcarbamothioyl)-benzamides. *International Journal of Molecular Sciences*, **2012**, 13, 12584-97	6.3	10
3	Influence of hybrid inorganic/organic mesoporous and nanostructured materials on the cephalosporinsSefficacy on different bacterial strains. *IET Nanobiotechnology*, **2012**, 6, 156-61	2	4
2	Inhibitory activity of Fe(3) O(4)/oleic acid/usnic acid-core/shell/extra-shell nanofluid on S. aureus biofilm development. *IEEE Transactions on Nanobioscience*, **2011**, 10, 269-74	3.4	46

List of Publications

1 Pharmaceutical Polymers: Bioactive and Synthetic Hybrid Polymers315-340