

# Alexandru Mihai Grumezescu

## List of Publications by Citations

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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	Natural and synthetic polymers for wounds and burns dressing. <i>International Journal of Pharmaceutics</i> , <b>2014</b> , 463, 127-36	6.5	638
233	Biomedical Applications of Silver Nanoparticles: An Up-to-Date Overview. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	538
232	Treatment Strategies for Infected Wounds. <i>Molecules</i> , <b>2018</b> , 23,	4.8	212
231	Applications and toxicity of silver nanoparticles: a recent review. <i>Current Topics in Medicinal Chemistry</i> , <b>2015</b> , 15, 1596-604	3	157
230	Methods of Synthesis, Properties and Biomedical Applications of CuO Nanoparticles. <i>Pharmaceutics</i> , <b>2016</b> , 9,	5.2	156
229	Nanomaterials for Wound Healing and Infection Control. <i>Materials</i> , <b>2019</b> , 12,	3.5	145
228	Recent trends and methodologies in gold nanoparticle synthesis [A prospective review on drug delivery aspect. <i>OpenNano</i> , <b>2017</b> , 2, 37-46	8.4	141
227	Tumor Angiogenesis and Anti-Angiogenic Strategies for Cancer Treatment. <i>Journal of Clinical Medicine</i> , <b>2019</b> , 9,	5.1	138
226	Biomedical applications of gold nanoparticles. <i>Current Topics in Medicinal Chemistry</i> , <b>2015</b> , 15, 1605-13	3	136
225	Blood-Brain Delivery Methods Using Nanotechnology. <i>Pharmaceutics</i> , <b>2018</b> , 10,	6.4	113
224	Hybrid magnetite nanoparticles/Rosmarinus officinalis essential oil nanobiosystem with antibiofilm activity. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 209	5	98
223	Impact of Nanoparticles on Brain Health: An Up to Date Overview. <i>Journal of Clinical Medicine</i> , <b>2018</b> , 7,	5.1	84
222	Biohybrid nanostructured iron oxide nanoparticles and <i>Satureja hortensis</i> to prevent fungal biofilm development. <i>International Journal of Molecular Sciences</i> , <b>2013</b> , 14, 18110-23	6.3	68
221	Neurotoxicity of Nanomaterials: An Up-to-Date Overview. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	68
220	Nanomaterials for Wound Dressings: An Up-to-Date Overview. <i>Molecules</i> , <b>2020</b> , 25,	4.8	65
219	Fabrication and Applications of Microfluidic Devices: A Review. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	63
218	Water dispersible cross-linked magnetic chitosan beads for increasing the antimicrobial efficiency of aminoglycoside antibiotics. <i>International Journal of Pharmaceutics</i> , <b>2013</b> , 454, 233-40	6.5	61

217	Nanomaterials for Drug Delivery to the Central Nervous System. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	59
216	Electrospun Fiber Pads of Cellulose Acetate and Essential Oils with Antimicrobial Activity. <i>Nanomaterials</i> , <b>2017</b> , 7,	5.4	57
215	Functionalized antibiofilm thin coatings based on PLGA microspheres loaded with usnic acid natural compounds fabricated by MAPLE. <i>Applied Surface Science</i> , <b>2014</b> , 302, 262-267	6.7	56
214	Nanocoatings for Chronic Wound Repair-Modulation of Microbial Colonization and Biofilm Formation. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	55
213	Nanobiomaterials Used in Cancer Therapy: An Up-To-Date Overview. <i>Molecules</i> , <b>2019</b> , 24,	4.8	51
212	Biocompatible Fe <sub>3</sub> O <sub>4</sub> increases the efficacy of amoxicillin delivery against Gram-positive and Gram-negative bacteria. <i>Molecules</i> , <b>2014</b> , 19, 5013-27	4.8	49
211	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> , <b>2012</b> , 436, 771-7	6.5	49
210	Magnetite nanostructures as novel strategies for anti-infectious therapy. <i>Molecules</i> , <b>2014</b> , 19, 12710-26	4.8	48
209	An Updated Review on Silver Nanoparticles in Biomedicine. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	48
208	Inhibitory activity of Fe <sub>3</sub> O <sub>4</sub> /oleic acid/usnic acid-core/shell/extra-shell nanofluid on <i>S. aureus</i> biofilm development. <i>IEEE Transactions on Nanobioscience</i> , <b>2011</b> , 10, 269-74	3.4	46
207	Polymeric protective agents for nanoparticles in drug delivery and targeting. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 510, 419-29	6.5	44
206	MAPLE fabricated magnetite@eugenol and (3-hidroxybutyric acid-co-3-hidroxyvaleric acid)polyvinyl alcohol microspheres coated surfaces with anti-microbial properties. <i>Applied Surface Science</i> , <b>2014</b> , 306, 16-22	6.7	43
205	Improved antibacterial activity of cephalosporins loaded in magnetic chitosan microspheres. <i>International Journal of Pharmaceutics</i> , <b>2012</b> , 436, 201-5	6.5	43
204	Water dispersible magnetite nanoparticles influence the efficacy of antibiotics against planktonic and biofilm embedded <i>Enterococcus faecalis</i> cells. <i>Anaerobe</i> , <b>2013</b> , 22, 14-9	2.8	42
203	Magnetite nanoparticles for functionalized textile dressing to prevent fungal biofilms development. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 501	5	42
202	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> , <b>2019</b> , 557, 199-207	6.5	42
201	Modified wound dressing with phyto-nanostructured coating to prevent staphylococcal and pseudomonal biofilm development. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 690	5	41
200	The Effect of Silver Nanoparticles on Antioxidant/Pro-Oxidant Balance in a Murine Model. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	38

199	In vitro activity of the new water-dispersible Fe <sub>3</sub> O <sub>4</sub> @usnic acid nanostructure against planktonic and sessile bacterial cells. <i>Journal of Nanoparticle Research</i> , <b>2013</b> , 15, 1	2.3	38
198	Antioxidant Therapies for Neuroprotection-A Review. <i>Journal of Clinical Medicine</i> , <b>2019</b> , 8,	5.1	37
197	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. <i>Molecules</i> , <b>2014</b> , 19, 17943-56	4.8	37
196	All natural cellulose acetate-Lemongrass essential oil antimicrobial nanocapsules. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 510, 508-15	6.5	34
195	Hybrid nanomaterial for stabilizing the antibiofilm activity of Eugenia carryophyllata essential oil. <i>IEEE Transactions on Nanobioscience</i> , <b>2012</b> , 11, 360-5	3.4	34
194	Polymeric Nanoparticles for Antimicrobial Therapies: An Up-To-Date Overview. <i>Polymers</i> , <b>2021</b> , 13,	4.5	34
193	Hydrogel Dressings for the Treatment of Burn Wounds: An Up-To-Date Overview. <i>Materials</i> , <b>2020</b> , 13,	3.5	33
192	Usnic acid-loaded biocompatible magnetic PLGA-PVA microsphere thin films fabricated by MAPLE with increased resistance to staphylococcal colonization. <i>Biofabrication</i> , <b>2014</b> , 6, 035002	10.5	33
191	Keratin-based biomaterials for biomedical applications. <i>Current Drug Targets</i> , <b>2014</b> , 15, 518-30	3	33
190	Polylactic Acid-Lemongrass Essential Oil Nanocapsules with Antimicrobial Properties. <i>Pharmaceutics</i> , <b>2016</b> , 9,	5.2	33
189	Anionic polymers and 10 nm Fe <sub>3</sub> O <sub>4</sub> @UA wound dressings support human foetal stem cells normal development and exhibit great antimicrobial properties. <i>International Journal of Pharmaceutics</i> , <b>2014</b> , 463, 146-54	6.5	32
188	Fabrication, characterization and in vitro profile based interaction with eukaryotic and prokaryotic cells of alginate-chitosan-silica biocomposite. <i>International Journal of Pharmaceutics</i> , <b>2013</b> , 441, 555-61	6.5	32
187	MAPLE fabricated Fe <sub>3</sub> O <sub>4</sub> @Cinnamomum verum antimicrobial surfaces for improved gastrostomy tubes. <i>Molecules</i> , <b>2014</b> , 19, 8981-94	4.8	31
186	Functionalized magnetite silica thin films fabricated by MAPLE with antibiofilm properties. <i>Biofabrication</i> , <b>2013</b> , 5, 015007	10.5	31
185	Silver Nanocoatings for Reducing the Exogenous Microbial Colonization of Wound Dressings. <i>Materials</i> , <b>2016</b> , 9,	3.5	31
184	Neuronanomedicine: An Up-to-Date Overview. <i>Pharmaceutics</i> , <b>2019</b> , 11,	6.4	28
183	Nanomaterials Synthesis through Microfluidic Methods: An Updated Overview. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	27
182	Cellulose acetate - essential oil nanocapsules with antimicrobial activity for biomedical applications. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2018</b> , 172, 471-479	6	27

181	Hyaluronic acid-based scaffolds for tissue engineering. <i>Romanian Journal of Morphology and Embryology</i> , <b>2018</b> , 59, 71-76	0.6	27
180	Efficient surface functionalization of wound dressings by a phytoactive nanocoating refractory to <i>Candida albicans</i> biofilm development. <i>Biointerphases</i> , <b>2013</b> , 8, 12	1.8	26
179	Photodynamic Therapy: An Up-to-Date Review. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 3626	2.6	26
178	Plackett-Burman experimental design for bacterial cellulose-silica composites synthesis. <i>Materials Science and Engineering C</i> , <b>2014</b> , 42, 280-8	8.3	25
177	Fabrication and Cytotoxicity of Gemcitabine-Functionalized Magnetite Nanoparticles. <i>Molecules</i> , <b>2017</b> , 22,	4.8	25
176	Identification and phenotypic characterization of the most frequent bacterial etiologies in chronic skin ulcers. <i>Romanian Journal of Morphology and Embryology</i> , <b>2014</b> , 55, 1401-8	0.6	25
175	Antimicrobial nanospheres thin coatings prepared by advanced pulsed laser technique. <i>Beilstein Journal of Nanotechnology</i> , <b>2014</b> , 5, 872-80	3	23
174	Magnetite nanoparticles: Synthesis methods - A comparative review. <i>Methods</i> , <b>2021</b> ,	4.6	23
173	Recent Advances in Surface Nanoengineering for Biofilm Prevention and Control. Part I: Molecular Basis of Biofilm Recalcitrance. Passive Anti-Biofouling Nanocoatings. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	22
172	Control of biofilm-associated infections by signaling molecules and nanoparticles. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 510, 409-18	6.5	22
171	Hybrid nanostructured coating for increased resistance of prosthetic devices to staphylococcal colonization. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 6	5	22
170	Fabrication of magnetite-based core-shell coated nanoparticles with antibacterial properties. <i>Biofabrication</i> , <b>2015</b> , 7, 015014	10.5	22
169	Biomedical applications of synthetic, biodegradable polymers for the development of anti-infective strategies. <i>Current Medicinal Chemistry</i> , <b>2014</b> , 21, 3383-90	4.3	22
168	Inorganic Nanoparticles and Composite Films for Antimicrobial Therapies. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	22
167	Bioactive ZnO Coatings Deposited by MAPLE-An Appropriate Strategy to Produce Efficient Anti-Biofilm Surfaces. <i>Molecules</i> , <b>2016</b> , 21,	4.8	22
166	Antimicrobial Lemongrass Essential Oil-Copper Ferrite Cellulose Acetate Nanocapsules. <i>Molecules</i> , <b>2016</b> , 21, 520	4.8	22
165	MAPLE fabrication of thin films based on kanamycin functionalized magnetite nanoparticles with anti-pathogenic properties. <i>Applied Surface Science</i> , <b>2015</b> , 336, 188-195	6.7	21
164	Bioactive mesoporous silica nanostructures with anti-microbial and anti-biofilm properties. <i>International Journal of Pharmaceutics</i> , <b>2017</b> , 531, 35-46	6.5	21

163	Essential Oils and Nanotechnology for Combating Microbial Biofilms. <i>Current Organic Chemistry</i> , <b>2013</b> , 17, 90-96	1.7	21
162	Electrospun Polyethylene Terephthalate Nanofibers Loaded with Silver Nanoparticles: Novel Approach in Anti-Infective Therapy. <i>Journal of Clinical Medicine</i> , <b>2019</b> , 8,	5.1	20
161	Metallic-based micro and nanostructures with antimicrobial activity. <i>Current Topics in Medicinal Chemistry</i> , <b>2015</b> , 15, 1577-82	3	20
160	Fabrication, Characterization, and Evaluation of Bionanocomposites Based on Natural Polymers and Antibiotics for Wound Healing Applications. <i>Molecules</i> , <b>2016</b> , 21,	4.8	20
159	Core-shell structure microcapsules with dual pH-responsive drug release function. <i>Electrophoresis</i> , <b>2014</b> , 35, 2673-80	3.6	19
158	Synthesis of uniform core-shell gelatin-alginate microparticles as intestine-released oral delivery drug carrier. <i>Electrophoresis</i> , <b>2014</b> , 35, 330-6	3.6	19
157	Magnetic core/shell nanoparticle thin films deposited by MAPLE: Investigation by chemical, morphological and in vitro biological assays. <i>Applied Surface Science</i> , <b>2012</b> , 258, 9250-9255	6.7	19
156	Novel Drug Delivery Magnetite Nano-systems Used in Antimicrobial Therapy. <i>Current Organic Chemistry</i> , <b>2014</b> , 18, 185-191	1.7	19
155	Surface modification A step forward to overcome the current challenges in orthopedic industry and to obtain an improved osseointegration and antimicrobial properties. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 243, 122579	4.4	19
154	Thin coatings based on ZnO@C18-usnic acid nanoparticles prepared by MAPLE inhibit the development of Salmonella enterica early biofilm growth. <i>Applied Surface Science</i> , <b>2016</b> , 374, 318-325	6.7	18
153	Prevention of microbial communities: novel approaches based natural products. <i>Current Pharmaceutical Biotechnology</i> , <b>2015</b> , 16, 94-111	2.6	18
152	Bioactive Surfaces of Polylactide and Silver Nanoparticles for the Prevention of Microbial Contamination. <i>Materials</i> , <b>2020</b> , 13,	3.5	18
151	MAPLE deposition of Nigella sativa functionalized Fe <sub>3</sub> O <sub>4</sub> nanoparticles for antimicrobial coatings. <i>Applied Surface Science</i> , <b>2018</b> , 455, 513-521	6.7	18
150	Marine Biocompounds for Neuroprotection-A Review. <i>Marine Drugs</i> , <b>2020</b> , 18,	6	17
149	New silica nanostructure for the improved delivery of topical antibiotics used in the treatment of staphylococcal cutaneous infections. <i>International Journal of Pharmaceutics</i> , <b>2014</b> , 463, 170-6	6.5	17
148	Biocompatible Magnetic Hollow Silica Microspheres for Drug Delivery. <i>Current Organic Chemistry</i> , <b>2013</b> , 17, 1029-1033	1.7	17
147	Recent Advances in Surface Nanoengineering for Biofilm Prevention and Control. Part II: Active, Combined Active and Passive, and Smart Bacteria-Responsive Antibiofilm Nanocoatings. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	17
146	Antimicrobial Nanostructured Bioactive Coating Based on Fe <sub>3</sub> O <sub>4</sub> and Patchouli Oil for Wound Dressing. <i>Metals</i> , <b>2016</b> , 6, 103	2.3	17

145	Iron oxide nanoparticles modulate the interaction of different antibiotics with cellular membranes. <i>Romanian Journal of Morphology and Embryology</i> , <b>2014</b> , 55, 849-56	0.6	17
144	Mesoporous silica coatings for cephalosporin active release at the bone-implant interface. <i>Applied Surface Science</i> , <b>2016</b> , 374, 165-171	6.7	16
143	New molecular strategies for reducing implantable medical devices associated infections. <i>Current Medicinal Chemistry</i> , <b>2014</b> , 21, 3375-82	4.3	16
142	Smart synthetic polymer nanocarriers for controlled and site-specific drug delivery. <i>Current Topics in Medicinal Chemistry</i> , <b>2015</b> , 15, 1424-90	3	16
141	Body Fluid Biomarkers for Alzheimer's Disease-An Up-To-Date Overview. <i>Biomedicines</i> , <b>2020</b> , 8,	4.8	16
140	Magnetite Nanoparticles and Essential Oils Systems for Advanced Antibacterial Therapies. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	16
139	Eugenol-Functionalized Magnetite Nanoparticles Modulate Virulence and Persistence in Clinical Strains. <i>Molecules</i> , <b>2021</b> , 26,	4.8	16
138	Antibiofilm Coatings Based on PLGA and Nanostructured Cefepime-Functionalized Magnetite. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	16
137	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> , <b>2015</b> , 336, 407-412	6.7	15
136	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> , <b>2016</b> , 374, 387-396	6.7	15
135	In vitro evaluation of anti-pathogenic surface coating nanofluid, obtained by combining Fe <sub>3</sub> O <sub>4</sub> /C12 nanostructures and 2-((4-ethylphenoxy)methyl)-N-(substituted-phenylcarbamothioyl)-benzamides. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 513	5	15
134	Biomedical Applications of Natural Polymers for Drug Delivery. <i>Current Organic Chemistry</i> , <b>2014</b> , 18, 1521-154	16.4	15
133	Silver nanoparticles in cancer therapy <b>2016</b> , 29-56		15
132	Applications of Chitosan-Alginate-Based Nanoparticles-An Up-to-Date Review.. <i>Nanomaterials</i> , <b>2022</b> , 12,	5.4	14
131	MAPLE Coatings Embedded with Essential Oil-Conjugated Magnetite for Anti-Biofilm Applications. <i>Materials</i> , <b>2021</b> , 14,	3.5	14
130	Antimicrobial coatings based on zinc oxide and orange oil for improved bioactive wound dressings and other applications. <i>Romanian Journal of Morphology and Embryology</i> , <b>2016</b> , 57, 107-14	0.6	14
129	Nanosystems for Improved Targeted Therapies in Melanoma. <i>Journal of Clinical Medicine</i> , <b>2020</b> , 9,	5.1	13
128	Novel Hybrid Formulations Based on Thiourea Derivatives and Core@Shell Fe <sub>3</sub> O <sub>4</sub> @C Nanostructures for the Development of Antifungal Strategies. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	13

127	Synthesis of uniform poly(d,l-lactide) and poly(d,l-lactide-co-glycolide) microspheres using a microfluidic chip for comparison. <i>Electrophoresis</i> , <b>2014</b> , 35, 316-22	3.6	13
126	Contrast Agents Delivery: An Up-to-Date Review of Nanodiagnostics in Neuroimaging. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	12
125	Biosensors-on-Chip: An Up-to-Date Review. <i>Molecules</i> , <b>2020</b> , 25,	4.8	12
124	Magnetic Particles for Advanced Molecular Diagnosis. <i>Materials</i> , <b>2019</b> , 12,	3.5	12
123	A microfluidic chip using phenol formaldehyde resin for uniform-sized polycaprolactone and chitosan microparticle generation. <i>Molecules</i> , <b>2013</b> , 18, 6521-31	4.8	12
122	Metal based frameworks for drug delivery systems. <i>Current Topics in Medicinal Chemistry</i> , <b>2015</b> , 15, 1532-42	4.2	12
121	Natural products used for food preservation <b>2017</b> , 365-411		11
120	Bioevaluation of novel anti-biofilm coatings based on PVP/Fe <sub>3</sub> O <sub>4</sub> nanostructures and 2-((4-ethylphenoxy)methyl)-N-(arylcarbamothioyl)benzamides. <i>Molecules</i> , <b>2014</b> , 19, 12011-30	4.8	11
119	Inorganic nanoarchitectonics designed for drug delivery and anti-infective surfaces <b>2016</b> , 301-327		11
118	Carvone functionalized iron oxide nanostructures thin films prepared by MAPLE for improved resistance to microbial colonization. <i>Journal of Sol-Gel Science and Technology</i> , <b>2015</b> , 73, 605-611	2.3	10
117	Scar-Free Healing: Current Concepts and Future Perspectives. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	10
116	MAPLE fabricated coatings based on magnetite nanoparticles embedded into biopolymeric spheres resistant to microbial colonization. <i>Applied Surface Science</i> , <b>2018</b> , 448, 230-236	6.7	10
115	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> , <b>2013</b> , 446, 63-9	6.5	10
114	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> , <b>2012</b> , 13, 12584-97	6.3	10
113	Synthesis and characterization of oil-chitosan composite spheres. <i>Molecules</i> , <b>2013</b> , 18, 5749-60	4.8	10
112	An Up-to-Date Review of Biomaterials Application in Wound Management.. <i>Polymers</i> , <b>2022</b> , 14,	4.5	10
111	Trends in the Immunomodulatory Effects of : Total Extracts, Polysaccharides and Cordycepin. <i>Frontiers in Pharmacology</i> , <b>2020</b> , 11, 575704	5.6	10
110	Cardiovascular Stents: A Review of Past, Current, and Emerging Devices. <i>Materials</i> , <b>2021</b> , 14,	3.5	10



109	ZnO Nanoparticles-Modified Dressings to Inhibit Wound Pathogens. <i>Materials</i> , <b>2021</b> , 14,	3.5	10
108	In vivo evaluation of Fe <sub>3</sub> O <sub>4</sub> Nanoparticles. <i>Romanian Journal of Morphology and Embryology</i> , <b>2014</b> , 55, 1013-8	0.6	10
107	Microbial colonization of biopolymeric thin films containing natural compounds and antibiotics fabricated by MAPLE. <i>Applied Surface Science</i> , <b>2015</b> , 336, 234-239	6.7	9
106	Magnetic Nanoparticles for Controlling in vitro Fungal Biofilms. <i>Current Organic Chemistry</i> , <b>2013</b> , 17, 1023-1028	1.7	9
105	Natural and synthetic polymers for drug delivery and targeting <b>2016</b> , 229-284		9
104	Nanomaterial-Based Approaches for Neural Regeneration. <i>Pharmaceutics</i> , <b>2019</b> , 11,	6.4	8
103	Hydroxyapatite Particles Directing the Cellular Activity in Bone Regeneration Processes: An Up-To-Date Review. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 3483	2.6	8
102	One-step synthesis of platinum nanoparticles loaded in alginate bubbles. <i>Nanoscale Research Letters</i> , <b>2014</b> , 9, 277	5	8
101	Bioengineered nanomaterials for chemotherapy <b>2017</b> , 23-49		8
100	MAPLE fabricated magnetite@ <i>Melissa officinalis</i> and poly lactic acid: chitosan coated surfaces with anti-staphylococcal properties. <i>Journal of Sol-Gel Science and Technology</i> , <b>2015</b> , 73, 612-619	2.3	8
99	Methods for synthesizing the macromolecular constituents of smart nanosized carriers for controlled drug delivery. <i>Current Medicinal Chemistry</i> , <b>2014</b> , 21, 3333-74	4.3	8
98	Wound Dressing Based Collagen Biomaterials Containing Usnic Acid as Quorum Sensing Inhibitor Agent: Synthesis, Characterization and Bioevaluation. <i>Current Organic Chemistry</i> , <b>2013</b> , 17, 125-131	1.7	8
97	Regenerative Wound Dressings for Skin Cancer. <i>Cancers</i> , <b>2020</b> , 12,	6.6	8
96	Biomaterials for the Prevention of Oral Candidiasis Development. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	8
95	Biocompatible hybrid silica nanobiocomposites for the efficient delivery of anti-staphylococcal drugs. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 510, 532-42	6.5	8
94	Carbon nanotubes for cancer therapy and neurodegenerative diseases. <i>Romanian Journal of Morphology and Embryology</i> , <b>2015</b> , 56, 349-56	0.6	8
93	Clinical Applications of Artificial Intelligence-An Updated Overview.. <i>Journal of Clinical Medicine</i> , <b>2022</b> , 11,	5.1	8
92	Antimicrobial applications of MAPLE processed coatings based on PLGA and lincomycin functionalized magnetite nanoparticles. <i>Applied Surface Science</i> , <b>2019</b> , 484, 587-599	6.7	7

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. <i>Journal of Sol-Gel Science and Technology</i> , <b>2015</b> , 73, 679-686	2.3	7
90	Quorum Sensing Inhibitors from the Sea: Lessons from Marine Symbiotic Relationships. <i>Current Organic Chemistry</i> , <b>2014</b> , 18, 823-839	1.7	7
89	Essential Oils for Bone Repair and Regeneration-Mechanisms and Applications. <i>Materials</i> , <b>2021</b> , 14,	3.5	7
88	Biocompatible hydrodispersible magnetite nanoparticles used as antibiotic drug carriers. <i>Romanian Journal of Morphology and Embryology</i> , <b>2015</b> , 56, 365-70	0.6	7
87	New Insights of Scaffolds Based on Hydrogels in Tissue Engineering.. <i>Polymers</i> , <b>2022</b> , 14,	4.5	7
86	Suberin/Cinnamaldehyde Oil Nanoparticles with Antimicrobial Activity and Anticancer Properties When Loaded with Paclitaxel.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 3484-3497	4.1	6
85	Nanostructured materials for prolonged and safe food preservation <b>2017</b> , 305-335		6
84	Fabrication and characterization of functionalized surfaces with 3-amino propyltrimethoxysilane films for anti-infective therapy applications. <i>Applied Surface Science</i> , <b>2015</b> , 336, 401-406	6.7	6
83	Tumor Marker Detection by Aptamer-Functionalized Graphene Oxide. <i>Current Organic Chemistry</i> , <b>2013</b> , 17, 132-136	1.7	6
82	Microelectromechanical Systems (MEMS) for Biomedical Applications.. <i>Micromachines</i> , <b>2022</b> , 13,	3.3	6
81	Antitumor Activity of Magnetite Nanoparticles: Influence of Hydrocarbonated Chain of Saturated Aliphatic Monocarboxylic Acids. <i>Current Organic Chemistry</i> , <b>2013</b> , 17, 831-840	1.7	6
80	Anti-Cancer Nanopowders and MAPLE-Fabricated Thin Films Based on SPIONs Surface Modified with Paclitaxel Loaded $\beta$ Cyclodextrin. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	6
79	Metal-based nanosystems for diagnosis. <i>Romanian Journal of Morphology and Embryology</i> , <b>2015</b> , 56, 635-640		6
78	An Overview of Oxidative Stress, Neuroinflammation and Neurodegenerative Diseases. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23, 5938	6.3	6
77	Synthesis, characterization and bioevaluation of irinotecan-collagen hybrid materials for biomedical applications as drug delivery systems in tumoral treatments. <i>Open Chemistry</i> , <b>2013</b> , 11, 2134-2143	1.6	5
76	Gold nanoparticles: advances in water purification approaches <b>2017</b> , 447-477		5
75	Nanostructured membranes for the microbiological purification of drinking water <b>2017</b> , 421-446		5
74	Polymer-Based Nanosystems-A Versatile Delivery Approach. <i>Materials</i> , <b>2021</b> , 14,	3.5	5

73	Nanostructured bioactive polymers used in food-packaging. <i>Current Pharmaceutical Biotechnology</i> , <b>2015</b> , 16, 121-7	2.6	5
72	Prosthetic devices with nanostructured surfaces for increased resistance to microbial colonization. <i>Current Pharmaceutical Biotechnology</i> , <b>2015</b> , 16, 112-20	2.6	5
71	Development of Scaffolds for Vascular Tissue Engineering: Biomaterial Mediated Neovascularization. <i>Current Stem Cell Research and Therapy</i> , <b>2017</b> , 12, 155-164	3.6	5
70	Anti-Biofilm Coatings Based on Chitosan and Lysozyme Functionalized Magnetite Nanoparticles. <i>Antibiotics</i> , <b>2021</b> , 10,	4.9	5
69	Nanoparticles for the Treatment of Inner Ear Infections. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	5
68	Recent Advances in the Treatment of Bone Metastases and Primary Bone Tumors: An Up-to-Date Review. <i>Cancers</i> , <b>2021</b> , 13,	6.6	5
67	Magnetite nanostructures functionalized with cytostatic drugs exhibit great anti-tumoral properties without application of high amplitude alternating magnetic fields. <i>Romanian Journal of Morphology and Embryology</i> , <b>2014</b> , 55, 357-62	0.6	5
66	In vivo biodistribution of CNTs using a BALB/c mouse experimental model. <i>Romanian Journal of Morphology and Embryology</i> , <b>2015</b> , 56, 1481-93	0.6	5
65	Preparation and characterization of undoped and cobalt doped ZnO for antimicrobial use. <i>International Journal of Pharmaceutics</i> , <b>2016</b> , 510, 430-8	6.5	4
64	Nanostructured mesoporous silica: new perspectives for fighting antimicrobial resistance. <i>Journal of Nanoparticle Research</i> , <b>2015</b> , 17, 1	2.3	4
63	Carboxymethyl-cellulose/Fe <sub>3</sub> O <sub>4</sub> nanostructures for antimicrobial substances delivery. <i>Bio-Medical Materials and Engineering</i> , <b>2014</b> , 24, 1639-46	1	4
62	Influence of hybrid inorganic/organic mesoporous and nanostructured materials on the cephalosporins efficacy on different bacterial strains. <i>IET Nanobiotechnology</i> , <b>2012</b> , 6, 156-61	2	4
61	Surface Modification to Modulate Microbial Biofilms-Applications in Dental Medicine. <i>Materials</i> , <b>2021</b> , 14,	3.5	4
60	Modified Composite Based on Magnetite and Polyvinyl Alcohol: Synthesis, Characterization, and Degradation Studies of the Methyl Orange Dye from Synthetic Wastewater. <i>Polymers</i> , <b>2021</b> , 13,	4.5	4
59	Prosthetic Devices with Functionalized Anti-biofilm Surface Based NanoAg@C18. <i>Current Organic Chemistry</i> , <b>2013</b> , 17, 105-112	1.7	4
58	Nano-hydroxyapatite <b>2016</b> , 189-213		4
57	Biocompatible 3D Matrix with Antimicrobial Properties. <i>Molecules</i> , <b>2016</b> , 21, E115	4.8	4
56	Successful Release of Voriconazole and Flavonoids from MAPLE Deposited Bioactive Surfaces. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 786	2.6	4

55	Bioactive Coatings Based on Hydroxyapatite, Kanamycin, and Growth Factor for Biofilm Modulation. <i>Antibiotics</i> , <b>2021</b> , 10,	4.9	4
54	Silica network improve the effect of fludarabine and paclitaxel on HCT8 cell line. <i>Romanian Journal of Morphology and Embryology</i> , <b>2014</b> , 55, 545-51	0.6	4
53	Microorganisms: new trends in environment-friendly and energy-saving water purification <b>2017</b> , 263-288		3
52	Nanostructures for cancer therapy: from targeting to selective toxicology <b>2017</b> , 831-847		3
51	PEG-Functionalized Magnetite Nanoparticles for Modulation of Microbial Biofilms on Voice Prosthesis.. <i>Antibiotics</i> , <b>2021</b> , 11,	4.9	3
50	Antimicrobial Potential of Benzamides and Derived Nanosystems for Controlling in vitro Biofilm Development on Medical Devices. <i>Current Organic Chemistry</i> , <b>2013</b> , 17, 162-175	1.7	3
49	Comparative Dynamic Characteristics of Electrospun Ultrathin Fibers and Films Based on Poly(3-hydroxybutyrate). <i>Chemistry and Chemical Technology</i> , <b>2016</b> , 10, 151-158	0.9	3
48	Microfluidics [Organ-on-chip <b>2019</b> , 1, 2-8		3
47	Tailored Gold Nanoparticles for Cancer Imaging and Therapy. <i>Materials International</i> , <b>2019</b> , 1, 013-024	1.8	3
46	Synthesis of Magnetite Nanoparticles through a Lab-On-Chip Device. <i>Materials</i> , <b>2021</b> , 14,	3.5	3
45	Polyphenols of Honeybee Origin with Applications in Dental Medicine. <i>Antibiotics</i> , <b>2020</b> , 9,	4.9	3
44	Anti-biofilm FeO@C-[1,3,4]thiadiazolo[3,2-]pyrimidin-4-ium-2-thiolate Derivative Core-shell Nanocoatings. <i>Materials</i> , <b>2020</b> , 13,	3.5	3
43	Nanostructured Thin Coatings Containing Extract with Dual Bioactivity. <i>Molecules</i> , <b>2020</b> , 25,	4.8	3
42	Preface for Volume 18: Food Processing for Increased Quality and Consumption <b>2018</b> , xxiii-xxvi		3
41	Natural Compounds for Preventing Ear, Nose, and Throat-Related Oral Infections. <i>Plants</i> , <b>2021</b> , 10,	4.5	3
40	Bee-Derived Products: Chemical Composition and Applications in Skin Tissue Engineering.. <i>Pharmaceutics</i> , <b>2022</b> , 14,	6.4	3
39	Magnetite Nanoparticles Functionalized with Therapeutic Agents for Enhanced ENT Antimicrobial Properties. <i>Antibiotics</i> , <b>2022</b> , 11, 623	4.9	3
38	Magnetite Nanocomposites Thin Coatings Prepared by MAPLE to Prevent Microbial Colonization of Medical Surfaces. <i>Advanced Structured Materials</i> , <b>2015</b> , 311-339	0.6	2

37	Preparation and Antimicrobial Activity of Inorganic Nanoparticles <b>2017</b> , 325-340		2
36	Improved wound dressing: Novel approaches. <i>International Journal of Pharmaceutics</i> , <b>2014</b> , 463, 117-1186.5		2
35	Soft tissue engineering and microbial infections: Challenges and perspectives <b>2016</b> , 1-29		2
34	Iron oxide nanomaterials for functional imaging <b>2016</b> , 279-301		2
33	Biofilm-Resistant Nanocoatings Based on ZnO Nanoparticles and Linalool. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	2
32	In vitro and in vivo applications of 3D dendritic gold nanostructures. <i>Romanian Journal of Morphology and Embryology</i> , <b>2015</b> , 56, 915-24	0.6	2
31	An Up-to-Date Review of Natural Nanoparticles for Cancer Management.. <i>Pharmaceutics</i> , <b>2021</b> , 14,	6.4	2
30	Current Strategies to Enhance Delivery of Drugs across the BloodBrain Barrier. <i>Pharmaceutics</i> , <b>2022</b> , 14, 987	6.4	2
29	NeurotransmittersKey Factors in Neurological and Neurodegenerative Disorders of the Central Nervous System. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23, 5954	6.3	2
28	Antimicrobial Thin Coatings Prepared by Laser Processing <b>2017</b> , 223-236		1
27	Zinc Oxide Nanostrucures <b>2017</b> , 503-514		1
26	Pharmaceutical Natural Polymers: Structure and Chemistry <b>2015</b> , 477-519		1
25	Atmospheric Pressure Plasma Activation of Hydroxyapatite to Improve Fluoride Incorporation and Modulate Bacterial Biofilm. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	1
24	Renoprotective Effects of Shout Camphor Medicinal Mushroom (Taiwanofungus camphorates, Basidiomycetes) Mycelia on Several Media in Mice with Chronic Kidney Disease. <i>International Journal of Medicinal Mushrooms</i> , <b>2016</b> , 18, 1105-1114	1.3	1
23	Isoflavonoid-Antibiotic Thin Films Fabricated by MAPLE with Improved Resistance to Microbial Colonization. <i>Molecules</i> , <b>2021</b> , 26,	4.8	1
22	Electrochemotherapy and Other Clinical Applications of Electroporation for the Targeted Therapy of Metastatic Melanoma. <i>Materials</i> , <b>2021</b> , 14,	3.5	1
21	Unexpected FerromagnetismA Review. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 6707	2.6	1
20	Understanding dental implants <b>2016</b> , 27-47		1

- 19 Preventing Biofilm Formation and Development on Ear, Nose and Throat Medical Devices. *Biomedicines*, **2021**, 9, 4.8 1
- 18 Nanoarchitectonics Prepared by MAPLE for Biomedical Applications **2015**, 303-325 0
- 17 Silver-based nanostructures for cancer therapy **2017**, 405-428 0
- 16 A Novel Continuous Extrusion Process to Fabricate Wedge-Shaped Light Guide Plates. *International Journal of Polymer Science*, **2013**, 2013, 1-6 2.4 0
- 15 Nanotherapeutics in the management of infections and cancer **2017**, 163-189
- 14 Recent progress in polyesterurethanes **2019**, 409-423
- 13 Nanostructured Composites Based on Biodegradable Polymers and Silver Nanoparticles **2017**, 585-621
- 12 Magnetite Nanostructures **2015**, 51-67
- 11 Biomedical Engineering International joins the Family of Platinum Open Access Journals **2019**, 1, 1-1
- 10 Innovative Biomaterials in Bone Tissue Engineering. *Materials International*, **2019**, 1, 002-012 1.8
- 9 Bioengineering International joins the Family of Platinum Open Access Journals **2019**, 1, 001-001
- 8 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
- 7 Pharmaceutical Polymers: Bioactive and Synthetic Hybrid Polymers 315-340
- 6 Biodistribution of essential oil-conjugated silver nanoparticles. *Romanian Journal of Morphology and Embryology*, **2020**, 61, 1099-1109 0.6
- 5 Toxicity of inorganic nanoparticles against prokaryotic cells **2016**, 29-65
- 4 Specifically targeted imaging using functionalized nanoparticles **2016**, 1-44
- 3 Metallic nanosystems in hard tissue implants **2016**, 381-412
- 2 Clinical applications of bioactive materials **2019**, 527-543

- 1 Degradation versus resorption **2019**, 1-18