

# Thomas Jay Webster

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

218  
papers

11,720  
citations

53  
h-index

104  
g-index

250  
ext. papers

13,832  
ext. citations

6.6  
avg, IF

7.11  
L-index

#	Paper	IF	Citations
218	Green nanotechnology in cardiovascular tissue engineering <b>2022</b> , 237-281		1
217	Nanobiomaterials for three-dimensional bioprinting <b>2022</b> , 1-24		0
216	A voyage from 3D to 4D printing in nanomedicine and healthcare: part II.. <i>Nanomedicine</i> , <b>2022</b> ,	5.6	1
215	Fabrication of cellulose nanocrystals as potential anticancer drug delivery systems for colorectal cancer treatment.. <i>International Journal of Biological Macromolecules</i> , <b>2022</b> ,	7.9	2
214	Cell-Seeded Biomaterial Scaffolds: The Urgent Need for Unanswered Accelerated Angiogenesis.. <i>International Journal of Nanomedicine</i> , <b>2022</b> , 17, 1035-1068	7.3	1
213	Accelerated neutral atom beam (ANAB) modified polyethylene for decreased wear and reduced bacteria colonization: An in vitro study.. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2022</b> , 102540	6	0
212	Radiation dose and schedule influence the abscopal effect in a bilateral murine CT26 tumor model.. <i>International Immunopharmacology</i> , <b>2022</b> , 108, 108737	5.8	0
211	Ciprofloxacin-Loaded Gold Nanoparticles against Antimicrobial Resistance: An In Vivo Assessment. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	6
210	A Novel Para-Amino Salicylic Acid Magnesium Layered Hydroxide Nanocomposite Anti-Tuberculosis Drug Delivery System with Enhanced in vitro Therapeutic and Anti-Inflammatory Properties. <i>International Journal of Nanomedicine</i> , <b>2021</b> , 16, 7035-7050	7.3	0
209	Green Synthesis of FeO Nanoparticles Stabilized by a Fruit Peel Extract for Hyperthermia and Anticancer Activities. <i>International Journal of Nanomedicine</i> , <b>2021</b> , 16, 2515-2532	7.3	16
208	Recent progress and challenges for polymeric microsphere compared to nanosphere drug release systems: Is there a real difference?. <i>Bioorganic and Medicinal Chemistry</i> , <b>2021</b> , 33, 116028	3.4	4
207	Antibacterial behavior of oxynitride glasses as a glassy grain boundary phase for silicon nitride-based ceramics. <i>International Journal of Applied Glass Science</i> , <b>2021</b> , 12, 328-336	1.8	0
206	Carbon Nanotubes: Smart Drug/Gene Delivery Carriers. <i>International Journal of Nanomedicine</i> , <b>2021</b> , 16, 1681-1706	7.3	47
205	Mesoporous Silica Based Nanostructures for Bone Tissue Regeneration. <i>Frontiers in Materials</i> , <b>2021</b> , 8,	4	11
204	In situ printing of scaffolds for reconstruction of bone defects. <i>Acta Biomaterialia</i> , <b>2021</b> , 127, 313-326	10.8	12
203	Nanoscale pathogens treated with nanomaterial-like peptides: a platform technology appropriate for future pandemics. <i>Nanomedicine</i> , <b>2021</b> , 16, 1237-1254	5.6	4
202	Effect of Precursor Deficiency Induced Ca/P Ratio on Antibacterial and Osteoblast Adhesion Properties of Ag-Incorporated Hydroxyapatite: Reducing Ag Toxicity. <i>Materials</i> , <b>2021</b> , 14,	3.5	3

201	Advances in 3D-Printed Surface-Modified Ca-Si Bioceramic Structures and Their Potential for Bone Tumor Therapy. <i>Materials</i> , <b>2021</b> , 14,	3.5	1
200	Polymeric Nanoparticles for Nasal Drug Delivery to the Brain: Relevance to Alzheimer's Disease. <i>Advanced Therapeutics</i> , <b>2021</b> , 4, 2000076	4.9	20
199	A novel technique to produce tubular scaffolds based on collagen and elastin. <i>Artificial Organs</i> , <b>2021</b> , 45, E113-E122	2.6	8
198	Improved green biosynthesis of chitosan decorated Ag- and CoO-nanoparticles: A relationship between surface morphology, photocatalytic and biomedical applications. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2021</b> , 32, 102331	6	14
197	Green nanomedicine: the path to the next generation of nanomaterials for diagnosing brain tumors and therapeutics?. <i>Expert Opinion on Drug Delivery</i> , <b>2021</b> , 18, 715-736	8	12
196	A Study of the Chemistries, Growth Mechanisms, and Antibacterial Properties of Cerium- and Yttrium-Containing Nanoparticles. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> , 7, 1787-1807	5.5	1
195	Nanobiosensors for theranostic applications <b>2021</b> , 511-543		3
194	Bi <sub>2</sub> O <sub>3</sub> nano-flakes as a cost-effective antibacterial agent. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 4106-4118	5.1	4
193	Nanoparticle-impregnated biopolymers as novel antimicrobial nanofilms <b>2021</b> , 269-309		4
192	Antimicrobial Double-Layer Wound Dressing Based on Chitosan/Polyvinyl Alcohol/Copper: In vitro and in vivo Assessment. <i>International Journal of Nanomedicine</i> , <b>2021</b> , 16, 223-235	7.3	24
191	Nanotechnology-assisted microfluidic systems: from bench to bedside. <i>Nanomedicine</i> , <b>2021</b> , 16, 237-258	5.6	16
190	Aloe Vera-Mediated Te Nanostructures: Highly Potent Antibacterial Agents and Moderated Anticancer Effects. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	8
189	Metallic Nanoscaffolds as Osteogenic Promoters: Advances, Challenges and Scope. <i>Metals</i> , <b>2021</b> , 11, 1356	2.3	10
188	The Use of Infrapatellar Fat Pad-Derived Mesenchymal Stem Cells in Articular Cartilage Regeneration: A Review. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	5
187	Calcium-based nanomaterials and their interrelation with chitosan: optimization for pCRISPR delivery. <i>Journal of Nanostructure in Chemistry</i> , <b>2021</b> , 1-14	7.6	4
186	Novel and Future Treatment Strategies for Biofilm-Associated Infections <b>2021</b> , 239-276		
185	The colorful world of carotenoids: a profound insight on therapeutics and recent trends in nano delivery systems. <i>Critical Reviews in Food Science and Nutrition</i> , <b>2021</b> , 1-40	11.5	8
184	ROS-Responsive Chitosan Coated Magnetic Iron Oxide Nanoparticles as Potential Vehicles for Targeted Drug Delivery in Cancer Therapy. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 3333-3346	7.3	17

183	Transparent Nano Thin -Film Transistors for Medical Sensors, OLED and Display Applications. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 3597-3603	7.3	3
182	Emerging Antineoplastic Biogenic Gold Nanomaterials for Breast Cancer Therapeutics: A Systematic Review. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 3577-3595	7.3	34
181	siVEGF-loaded nanoparticle uptake by tumor-associated vascular endothelial cells for hepatocellular carcinoma. <i>Nanomedicine</i> , <b>2020</b> ,	5.6	2
180	Harnessing nanoparticles for the efficient delivery of the CRISPR/Cas9 system. <i>Nano Today</i> , <b>2020</b> , 34, 100895	17.9	22
179	Electroconductive Nanobiomaterials for Tissue Engineering and Regenerative Medicine. <i>Bioelectricity</i> , <b>2020</b> , 2, 120-149	2	24
178	Development of a novel carboxamide-based off-on switch fluorescence sensor: Hg <sup>2+</sup> , Zn <sup>2+</sup> and Cd <sup>2+</sup> . <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 11841-11852	3.6	14
177	Biodegradable Nanopolymers in Cardiac Tissue Engineering: From Concept Towards Nanomedicine. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 4205-4224	7.3	45
176	Aptamer Hybrid Nanocomplexes as Targeting Components for Antibiotic/Gene Delivery Systems and Diagnostics: A Review. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 4237-4256	7.3	18
175	Implementation of PPI with Nano Amorphous Oxide Semiconductor Devices for Medical Applications. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 1863-1870	7.3	2
174	Green nanotechnology-based zinc oxide (ZnO) nanomaterials for biomedical applications: a review. <i>JPhys Materials</i> , <b>2020</b> , 3, 034005	4.2	34
173	Applications of Inorganic Nanomaterials in Photothermal Therapy Based on Combinational Cancer Treatment. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 1903-1914	7.3	56
172	Bismuth-Based Nanomaterials: Recent Advances in Tumor Targeting and Synergistic Cancer Therapy Techniques. <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e1901695	10.1	21
171	Low-cost hybrid scaffolds based on polyurethane and gelatin. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 7777-7785	5.5	3
170	Green synthesis of CuO- and CuO-NPs in assistance with high-gravity: The flowering of nanobiotechnology. <i>Nanotechnology</i> , <b>2020</b> , 31, 425101	3.4	22
169	Artemisinin Loaded mPEG-PCL Nanoparticle Based Photosensitive Gelatin Methacrylate Hydrogels for the Treatment of Gentamicin Induced Hearing Loss. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 4591-4606	7.3	5
168	Burgeoning Polymer Nano Blends for Improved Controlled Drug Release: A Review. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 4363-4392	7.3	40
167	Naked Selenium Nanoparticles for Antibacterial and Anticancer Treatments. <i>ACS Omega</i> , <b>2020</b> , 5, 2660-2669	5.9	60
166	Nanoscale 3D Bioprinting for Osseous Tissue Manufacturing. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 215-226	7.3	10

165	Macrophage escape by cholesterol-polyoxyethylene sorbitol oleate micelles for pulmonary delivery. <i>Nanomedicine</i> , <b>2020</b> , 15, 489-509	5.6	2
164	Short Communication: Fructose-Enhanced Antibacterial Activity of Self-Assembled Nano-Peptide Amphiphiles for Treating Antibiotic-Resistant Bacteria. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 513-519	7.3	6
163	Green nanotechnology-based drug delivery systems for osteogenic disorders. <i>Expert Opinion on Drug Delivery</i> , <b>2020</b> , 17, 341-356	8	19
162	Green Synthesis of Zeolite/FeO Nanocomposites: Toxicity & Cell Proliferation Assays and Application as a Smart Iron Nanofertilizer. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 1005-1020	7.3	26
161	Green Synthesized BSA-Coated Selenium Nanoparticles Inhibit Bacterial Growth While Promoting Mammalian Cell Growth. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 115-124	7.3	13
160	Recent Developments in the Facile Bio-Synthesis of Gold Nanoparticles (AuNPs) and Their Biomedical Applications. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 275-300	7.3	111
159	Fabrication of Polymeric Microparticles by Electrospray: The Impact of Experimental Parameters. <i>Journal of Functional Biomaterials</i> , <b>2020</b> , 11,	4.8	21
158	Novel Silver-Platinum Nanoparticles for Anticancer and Antimicrobial Applications. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 169-179	7.3	19
157	PMMA-silica nanocomposite coating: Effective corrosion protection and biocompatibility for a Ti6Al4V alloy. <i>Materials Science and Engineering C</i> , <b>2020</b> , 110, 110713	8.3	15
156	A highly accurate methodology for the prediction and correlation of mechanical properties based on the slimmness ratio of additively manufactured tensile test specimens. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 9578-9596	4.3	5
155	The Pimpled Gold Nanosphere: A Superior Candidate for Plasmonic Photothermal Therapy. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 2903-2920	7.3	13
154	High-Gravity-Assisted Green Synthesis of NiO-NPs Anchored on the Surface of Biodegradable Nanobeads with Potential Biomedical Applications. <i>Journal of Biomedical Nanotechnology</i> , <b>2020</b> , 16, 520-530	4.3	14
153	Green Synthesis of ZnO NPs via : Evaluation of Potential Antioxidant, Antibacterial, Mammalian Cell Viability, H1N1 Influenza Virus Inhibition and Photocatalytic Activities. <i>Journal of Biomedical Nanotechnology</i> , <b>2020</b> , 16, 456-466	4	22
152	Controlled Gene Delivery Systems: Nanomaterials and Chemical Approaches. <i>Journal of Biomedical Nanotechnology</i> , <b>2020</b> , 16, 553-582	4	12
151	Tellurium, the Forgotten Element: A Review of the Properties, Processes, and Biomedical Applications of the Bulk and Nanoscale Metalloid <b>2020</b> , 723-783		3
150	Metal- and Polymer-Based Nanoparticles for Advanced Therapeutic and Diagnostic System Applications <b>2020</b> , 357-384		1
149	Development of a nano biosensor for anti-gliadin detection for Celiac disease based on suspension microarrays. <i>Biomedical Physics and Engineering Express</i> , <b>2020</b> , 6, 055015	1.5	6
148	Wound dressings functionalized with silver nanoparticles: promises and pitfalls. <i>Nanoscale</i> , <b>2020</b> , 12, 2268-2291	7.7	118

147	A Review on the Biodistribution, Pharmacokinetics and Toxicity of Bismuth-Based Nanomaterials. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 7079-7096	7.3	11
146	High-gravity-assisted green synthesis of palladium nanoparticles: the flowering of nanomedicine. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2020</b> , 30, 102297	6	16
145	Modeling and Mechanism of Enhanced Performance of In-Ga-Zn-O Thin-Film Transistors with Nanometer Thicknesses under Temperature Stress. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 22793-22798	7.8	1
144	Green synthesis of zinc oxide nanoparticles by Neem extract as multi-facet therapeutic agents. <i>Journal of Drug Delivery Science and Technology</i> , <b>2020</b> , 59, 101911	4.5	14
143	3D Bioprinting in Tissue Engineering for Medical Applications: The Classic and the Hybrid. <i>Polymers</i> , <b>2020</b> , 12,	4.5	36
142	Advances in Translational Nanotechnology: Challenges and Opportunities. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 4881	2.6	2
141	Flexible and Transparent Artificial Synapse Devices Based on Thin-Film Transistors with Nanometer Thickness. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 8037-8043	7.3	5
140	Nano liposomal and cubosomal formulations with platinum-based anticancer agents: therapeutic advances and challenges. <i>Nanomedicine</i> , <b>2020</b> , 15, 2399-2410	5.6	7
139	Cetuximab-Coated Thermo-Sensitive Liposomes Loaded with Magnetic Nanoparticles and Doxorubicin for Targeted EGFR-Expressing Breast Cancer Combined Therapy. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 8201-8215	7.3	21
138	Synthesis, characterization and mechanistic study of nano chitosan tetrazole as a novel and promising platform for CRISPR delivery. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , <b>2020</b> , 1-11	3	15
137	Short Communication: An Updated Design to Implement Artificial Neuron Synaptic Behaviors in One Device with a Control Gate. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 6239-6245	7.3	4
136	The Potential Anticancer Activity of 5-Fluorouracil Loaded in Cellulose Fibers Isolated from Rice Straw. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 5417-5432	7.3	17
135	Encapsulated Checkpoint Blocker Before Chemotherapy: The Optimal Sequence of Anti-CTLA-4 and Doxil Combination Therapy. <i>International Journal of Nanomedicine</i> , <b>2020</b> , 15, 5279-5288	7.3	8
134	Electrospun Nanofibers for Improved Angiogenesis: Promises for Tissue Engineering Applications. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	44
133	Novel magnetic nanocomposites combining selenium and iron oxide with excellent anti-biofilm properties. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 1012-1022	4.3	6
132	Fumaryl diketopiperazine based effervescent microparticles to escape macrophage phagocytosis for enhanced treatment of pneumonia via pulmonary delivery. <i>Biomaterials</i> , <b>2020</b> , 228, 119575	15.6	12
131	Biomimetic proteoglycan nanoparticles for growth factor immobilization and delivery. <i>Biomaterials Science</i> , <b>2020</b> , 8, 1127-1136	7.4	9
130	Dual targeting curcumin loaded alendronate-hyaluronan- octadecanoic acid micelles for improving osteosarcoma therapy. <i>International Journal of Nanomedicine</i> , <b>2019</b> , 14, 6425-6437	7.3	22

129	Porous Titanium Surfaces to Control Bacteria Growth: Mechanical Properties and Sulfonated Polyetheretherketone Coatings as Antibiofouling Approaches. <i>Metals</i> , <b>2019</b> , 9, 995	2.3	5
128	Dual effective core-shell electrospun scaffolds: Promoting osteoblast maturation and reducing bacteria activity. <i>Materials Science and Engineering C</i> , <b>2019</b> , 103, 109778	8.3	13
127	One-Transistor Memory Compatible with Si-Based Technology with Multilevel Applications. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1900262	6.4	2
126	Comparison of cytocompatibility and anticancer properties of traditional and green chemistry-synthesized tellurium nanowires. <i>International Journal of Nanomedicine</i> , <b>2019</b> , 14, 3155-3176	7.3	13
125	A hierarchical integration pyramid to increase translation of biomaterials based on recent successes in multiscale synthetic biomaterials research. <i>Current Opinion in Biomedical Engineering</i> , <b>2019</b> , 10, 89-96	4.4	1
124	A review of small molecules and drug delivery applications using gold and iron nanoparticles. <i>International Journal of Nanomedicine</i> , <b>2019</b> , 14, 1633-1657	7.3	104
123	Citric Juice-mediated Synthesis of Tellurium Nanoparticles with Antimicrobial and Anticancer Properties. <i>Green Chemistry</i> , <b>2019</b> , 21, 1982-1988	10	38
122	Nanotechnology and picotechnology <b>2019</b> , 191-212		25
121	The Binary Effect on Methicillin-Resistant Staphylococcus aureus of Polymeric Nanovesicles Appended by Proline-Rich Amino Acid Sequences and Inorganic Nanoparticles. <i>Small</i> , <b>2019</b> , 15, e1804247 <sup>11</sup>		12
120	Starch-mediated synthesis of mono- and bimetallic silver/gold nanoparticles as antimicrobial and anticancer agents. <i>International Journal of Nanomedicine</i> , <b>2019</b> , 14, 2171-2190	7.3	53
119	Translational medicine and biomaterials <b>2019</b> , 1-22		1
118	A Status Report on FDA Approval of Medical Devices Containing Nanostructured Materials. <i>Trends in Biotechnology</i> , <b>2019</b> , 37, 117-120	15.1	45
117	Decontamination of mobile phones and electronic devices for health care professionals using a chlorhexidine/carbomer 940 gel. <i>Frontiers of Chemical Science and Engineering</i> , <b>2019</b> , 13, 192-198	4.5	1
116	3-D printed Ti-6Al-4V scaffolds for supporting osteoblast and restricting bacterial functions without using drugs: Predictive equations and experiments. <i>Acta Biomaterialia</i> , <b>2019</b> , 96, 662-673	10.8	19
115	Status of Plant Protein-Based Green Scaffolds for Regenerative Medicine Applications. <i>Biomolecules</i> , <b>2019</b> , 9,	5.9	26
114	Advances in nanomedicine for the treatment of ankylosing spondylitis. <i>International Journal of Nanomedicine</i> , <b>2019</b> , 14, 8521-8542	7.3	8
113	Would Colloidal Gold Nanocarriers Present An Effective Diagnosis Or Treatment For Ischemic Stroke?. <i>International Journal of Nanomedicine</i> , <b>2019</b> , 14, 8013-8031	7.3	89
112	Electrospun Nanofibrous Poly (Lactic Acid)/Titanium Dioxide Nanocomposite Membranes for Cutaneous Scar Minimization. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2019</b> , 7, 421	5.8	4



111	Atomic Layer Deposition Coating of TiO Nano-Thin Films on Magnesium-Zinc Alloys to Enhance Cytocompatibility for Bioresorbable Vascular Stents. <i>International Journal of Nanomedicine</i> , <b>2019</b> , 14, 9955-9970	7.3	20
110	PEGylated hollow gold nanoparticles for combined X-ray radiation and photothermal therapy in vitro and enhanced CT imaging in vivo. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2019</b> , 16, 195-205	6	29
109	Bacterial behavior on coated porous titanium substrates for biomedical applications. <i>Surface and Coatings Technology</i> , <b>2019</b> , 357, 896-902	4.4	17
108	Three-Dimensional Graphene Foams: Synthesis, Properties, Biocompatibility, Biodegradability, and Applications in Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 193-214	5.5	91
107	Surface energy-mediated fibronectin adsorption and osteoblast responses on nanostructured diamond. <i>Journal of Materials Science and Technology</i> , <b>2019</b> , 35, 817-823	9.1	9
106	Synergic antibacterial coatings combining titanium nanocolumns and tellurium nanorods. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2019</b> , 17, 36-46	6	13
105	In vitro and ex vivo systems at the forefront of infection modeling and drug discovery. <i>Biomaterials</i> , <b>2019</b> , 198, 228-249	15.6	22
104	Osteoblast responses to injectable bone substitutes of kappa-carrageenan and nano hydroxyapatite. <i>Acta Biomaterialia</i> , <b>2019</b> , 83, 425-434	10.8	26
103	Biomedical applications of chitosan electrospun nanofibers as a green polymer - Review. <i>Carbohydrate Polymers</i> , <b>2019</b> , 207, 588-600	10.3	182
102	The comparative effect of wrapping solid gold nanoparticles and hollow gold nanoparticles with doxorubicin-loaded thermosensitive liposomes for cancer thermo-chemotherapy. <i>Nanoscale</i> , <b>2018</b> , 10, 8628-8641	7.7	40
101	Synthesis and characterization of biogenic selenium nanoparticles with antimicrobial properties made by Staphylococcus aureus, methicillin-resistant Staphylococcus aureus (MRSA), Escherichia coli, and Pseudomonas aeruginosa. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2018</b> , 106, 1400-1412	5.4	61
100	Engineering Adhesive and Antimicrobial Hyaluronic Acid/Elastin-like Polypeptide Hybrid Hydrogels for Tissue Engineering Applications. <i>ACS Biomaterials Science and Engineering</i> , <b>2018</b> , 4, 2528-2540	5.5	58
99	Introducing Unnatural Amino Acids-Containing Tripeptides as Antimicrobial and Anticancer Agents. <i>Journal of Biomedical Nanotechnology</i> , <b>2018</b> , 14, 987-993	4	7
98	Nanofibrous scaffolds for biomedical applications. <i>Nanoscale</i> , <b>2018</b> , 10, 12228-12255	7.7	42
97	Bacteria antibiotic resistance: New challenges and opportunities for implant-associated orthopedic infections. <i>Journal of Orthopaedic Research</i> , <b>2018</b> , 36, 22-32	3.8	333
96	Electrospun nanofiber blend with improved mechanical and biological performance. <i>International Journal of Nanomedicine</i> , <b>2018</b> , 13, 7891-7903	7.3	42
95	Understanding the impact of crosslinked PCL/PEG/GelMA electrospun nanofibers on bactericidal activity. <i>PLoS ONE</i> , <b>2018</b> , 13, e0209386	3.7	23
94	Acid-Induced Activated Cell-Penetrating Peptide-Modified Cholesterol-Conjugated Polyoxyethylene Sorbitol Oleate Mixed Micelles for pH-Triggered Drug Release and Efficient Brain Tumor Targeting Based on a Charge Reversal Mechanism. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 42111-42128	9.5	28



93	A review of using green chemistry methods for biomaterials in tissue engineering. <i>International Journal of Nanomedicine</i> , <b>2018</b> , 13, 5953-5969	7.3	33
92	Micro-Nanofibrillar Polycaprolactone Scaffolds as Translatable Osteoconductive Grafts for the Treatment of Musculoskeletal Defects without Infection.. <i>ACS Applied Bio Materials</i> , <b>2018</b> , 1, 1566-1578	4.1	4
91	Synthesis and characterization of PVP-coated tellurium nanorods and their antibacterial and anticancer properties. <i>Journal of Nanoparticle Research</i> , <b>2018</b> , 20, 1	2.3	18
90	Carbon Nanomaterials for Treating Osteoporotic Vertebral Fractures. <i>Current Osteoporosis Reports</i> , <b>2018</b> , 16, 626-634	5.4	7
89	Reducing Bacterial Infections and Biofilm Formation Using Nanoparticles and Nanostructured Antibacterial Surfaces. <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, e1800103	10.1	78
88	pH-Controlled Cerium Oxide Nanoparticle Inhibition of Both Gram-Positive and Gram-Negative Bacteria Growth. <i>Scientific Reports</i> , <b>2017</b> , 7, 45859	4.9	75
87	Enhanced Antibacterial Properties of Self-Assembling Peptide Amphiphiles Functionalized with Heparin-Binding Cardin-Motifs. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 22350-22360	9.5	35
86	In vitro performance of Ag-incorporated hydroxyapatite and its adhesive porous coatings deposited by electrostatic spraying. <i>Materials Science and Engineering C</i> , <b>2017</b> , 77, 556-564	8.3	24
85	Self-assembled arginine-rich peptides as effective antimicrobial agents. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2017</b> , 105, 1046-1054	5.4	21
84	Superparamagnetic iron oxide-encapsulating polymersome nanocarriers for biofilm eradication. <i>Biomaterials</i> , <b>2017</b> , 119, 78-85	15.6	109
83	Shape-dependent antibacterial effects of non-cytotoxic gold nanoparticles. <i>International Journal of Nanomedicine</i> , <b>2017</b> , 12, 2457-2468	7.3	73
82	Noninvasive nanoparticle strategies for brain tumor targeting. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2017</b> , 13, 2605-2621	6	46
81	Atomic layer deposition of nano-TiO thin films with enhanced biocompatibility and antimicrobial activity for orthopedic implants. <i>International Journal of Nanomedicine</i> , <b>2017</b> , 12, 8711-8723	7.3	68
80	Synthesis, characterization, and antimicrobial properties of novel double layer nanocomposite electrospun fibers for wound dressing applications. <i>International Journal of Nanomedicine</i> , <b>2017</b> , 12, 2205-2213	7.3	61
79	A review of fibrin and fibrin composites for bone tissue engineering. <i>International Journal of Nanomedicine</i> , <b>2017</b> , 12, 4937-4961	7.3	209
78	A review of drug delivery systems based on nanotechnology and green chemistry: green nanomedicine. <i>International Journal of Nanomedicine</i> , <b>2017</b> , 12, 2957-2978	7.3	267
77	Reducing bone cancer cell functions using selenium nanocomposites. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2016</b> , 104, 476-82	5.4	37
76	Review of recent research on biomedical applications of electrospun polymer nanofibers for improved wound healing. <i>Nanomedicine</i> , <b>2016</b> , 11, 715-37	5.6	121

75	Preparation and characterization of biodegradable nano hydroxyapatite/bacterial cellulose composites with well-defined honeycomb pore arrays for bone tissue engineering applications. <i>Cellulose</i> , <b>2016</b> , 23, 1263-1282	5.5	50
74	Inhibition of <i>E. coli</i> and <i>S. aureus</i> with selenium nanoparticles synthesized by pulsed laser ablation in deionized water. <i>International Journal of Nanomedicine</i> , <b>2016</b> , 11, 3731-6	7.3	57
73	Synthesis, characterization, and efficacy of antituberculosis isoniazid zinc aluminum-layered double hydroxide based nanocomposites. <i>International Journal of Nanomedicine</i> , <b>2016</b> , 11, 3225-37	7.3	14
72	Cytoprotective effects of cerium and selenium nanoparticles on heat-shocked human dermal fibroblasts: an in vitro evaluation. <i>International Journal of Nanomedicine</i> , <b>2016</b> , 11, 1427-33	7.3	12
71	Addition of Selenium Nanoparticles to Electrospun Silk Scaffold Improves the Mammalian Cell Activity While Reducing Bacterial Growth. <i>Frontiers in Physiology</i> , <b>2016</b> , 7, 297	4.6	20
70	Optimizing superparamagnetic iron oxide nanoparticles as drug carriers using an in vitro blood-brain barrier model. <i>International Journal of Nanomedicine</i> , <b>2016</b> , 11, 5371-5379	7.3	30
69	Cold atmospheric plasma (CAP) surface nanomodified 3D printed polylactic acid (PLA) scaffolds for bone regeneration. <i>Acta Biomaterialia</i> , <b>2016</b> , 46, 256-265	10.8	108
68	Selenium nanoparticles incorporated into titania nanotubes inhibit bacterial growth and macrophage proliferation. <i>Nanoscale</i> , <b>2016</b> , 8, 15783-94	7.7	53
67	Shape and surface effects on the cytotoxicity of nanoparticles: Gold nanospheres versus gold nanostars. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2015</b> , 103, 3449-62	5.4	91
66	The influence of nanostructured features on bacterial adhesion and bone cell functions on severely shot peened 316L stainless steel. <i>Biomaterials</i> , <b>2015</b> , 73, 185-97	15.6	167
65	Lubricin: a novel means to decrease bacterial adhesion and proliferation. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2015</b> , 103, 451-62	5.4	22
64	Shape and surface chemistry effects on the cytotoxicity and cellular uptake of metallic nanorods and nanospheres. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2015</b> , 103, 3940-55	5.4	31
63	Inhibition of various gram-positive and gram-negative bacteria growth on selenium nanoparticle coated paper towels. <i>International Journal of Nanomedicine</i> , <b>2015</b> , 10, 2885-94	7.3	17
62	The ability of streptomycin-loaded chitosan-coated magnetic nanocomposites to possess antimicrobial and antituberculosis activities. <i>International Journal of Nanomedicine</i> , <b>2015</b> , 10, 3269-74	7.3	51
61	Adding MgO nanoparticles to hydroxyapatite-PLLA nanocomposites for improved bone tissue engineering applications. <i>Acta Biomaterialia</i> , <b>2015</b> , 14, 175-84	10.8	119
60	Silver nanoparticle-embedded polymersome nanocarriers for the treatment of antibiotic-resistant infections. <i>Nanoscale</i> , <b>2015</b> , 7, 3511-9	7.7	61
59	Effect of the protein corona on nanoparticles for modulating cytotoxicity and immunotoxicity. <i>International Journal of Nanomedicine</i> , <b>2015</b> , 10, 97-113	7.3	145
58	Understanding greater cardiomyocyte functions on aligned compared to random carbon nanofibers in PLGA. <i>International Journal of Nanomedicine</i> , <b>2015</b> , 10, 89-96	7.3	5

57	Synthesis of TiO <sub>2</sub> nanotubes with ZnO nanoparticles to achieve antibacterial properties and stem cell compatibility. <i>Nanoscale</i> , <b>2014</b> , 6, 9050-62	7.7	81
56	Development of a highly biocompatible antituberculosis nanodelivery formulation based on para-aminosalicylic acid-zinc layered hydroxide nanocomposites. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 401460	2.2	15
55	Antimicrobial and controlled release studies of a novel nystatin conjugated iron oxide nanocomposite. <i>BioMed Research International</i> , <b>2014</b> , 2014, 651831	3	36
54	Development of a biocompatible nanodelivery system for tuberculosis drugs based on isoniazid-Mg/Al layered double hydroxide. <i>International Journal of Nanomedicine</i> , <b>2014</b> , 9, 4749-62	7.3	21
53	Silver nanoparticle-embedded polymersome nanocarriers for the treatment of antibiotic-resistant infections <b>2014</b> ,		1
52	Enhanced efficacy of superparamagnetic iron oxide nanoparticles against antibiotic-resistant biofilms in the presence of metabolites. <i>Advanced Materials</i> , <b>2013</b> , 25, 5706-13	24	108
51	Antimicrobial selenium nanoparticle coatings on polymeric medical devices. <i>Nanotechnology</i> , <b>2013</b> , 24, 155101	3.4	75
50	Short communication: inhibiting biofilm formation on paper towels through the use of selenium nanoparticles coatings. <i>International Journal of Nanomedicine</i> , <b>2013</b> , 8, 407-11	7.3	28
49	Decreased bacteria activity on SiO <sub>2</sub> surfaces compared with PEEK or titanium. <i>International Journal of Nanomedicine</i> , <b>2012</b> , 7, 4829-40	7.3	74
48	Cytotoxicity of selenium nanoparticles in rat dermal fibroblasts. <i>International Journal of Nanomedicine</i> , <b>2012</b> , 7, 3907-14	7.3	25
47	Fructose-enhanced reduction of bacterial growth on nanorough surfaces. <i>International Journal of Nanomedicine</i> , <b>2012</b> , 7, 537-45	7.3	20
46	Carbon nanotubes impregnated with subventricular zone neural progenitor cells promotes recovery from stroke. <i>International Journal of Nanomedicine</i> , <b>2012</b> , 7, 2751-65	7.3	32
45	Superparamagnetic iron oxide nanoparticles (SPION) for the treatment of antibiotic-resistant biofilms. <i>Small</i> , <b>2012</b> , 8, 3016-27	11	89
44	Nanostructured selenium for preventing biofilm formation on polycarbonate medical devices. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2012</b> , 100, 3205-10	5.4	69
43	Antimicrobial applications of nanotechnology: methods and literature. <i>International Journal of Nanomedicine</i> , <b>2012</b> , 7, 2767-81	7.3	45 <sup>1</sup>
42	Multifunctional magnetic nanoparticles for orthopedic and biofilm infections. <i>International Journal of Nanotechnology</i> , <b>2011</b> , 8, 21	1.5	11
41	Reducing infections through nanotechnology and nanoparticles. <i>International Journal of Nanomedicine</i> , <b>2011</b> , 6, 1463-73	7.3	116
40	Selenium nanoparticles inhibit Staphylococcus aureus growth. <i>International Journal of Nanomedicine</i> , <b>2011</b> , 6, 1553-8	7.3	207

39	Electrically controlled drug release from nanostructured polypyrrole coated on titanium. <i>Nanotechnology</i> , <b>2011</b> , 22, 085101	3.4	124
38	Increased osteoblast functions in the presence of hydroxyapatite-coated iron oxide nanoparticles. <i>Acta Biomaterialia</i> , <b>2011</b> , 7, 1298-306	10.8	104
37	Greater osteoblast and endothelial cell adhesion on nanostructured polyethylene and titanium. <i>International Journal of Nanomedicine</i> , <b>2010</b> , 5, 647-52	7.3	38
36	Bactericidal effect of iron oxide nanoparticles on Staphylococcus aureus. <i>International Journal of Nanomedicine</i> , <b>2010</b> , 5, 277-83	7.3	208
35	The relationship between the nanostructure of titanium surfaces and bacterial attachment. <i>Biomaterials</i> , <b>2010</b> , 31, 706-13	15.6	495
34	Nanotechnology and nanomaterials: Promises for improved tissue regeneration. <i>Nano Today</i> , <b>2009</b> , 4, 66-80	17.9	832
33	Arginine-glycine-aspartic acid modified rosette nanotube-hydrogel composites for bone tissue engineering. <i>Biomaterials</i> , <b>2009</b> , 30, 1309-20	15.6	118
32	Nanotechnology controlled drug delivery for treating bone diseases. <i>Expert Opinion on Drug Delivery</i> , <b>2009</b> , 6, 851-64	8	69
31	The role of nanometer and sub-micron surface features on vascular and bone cell adhesion on titanium. <i>Biomaterials</i> , <b>2008</b> , 29, 970-83	15.6	334
30	Enhanced fibronectin adsorption on carbon nanotube/poly(carbonate) urethane: independent role of surface nano-roughness and associated surface energy. <i>Biomaterials</i> , <b>2007</b> , 28, 4756-68	15.6	212
29	VASCULAR CELLS RESPOND TO ENDOTHELIAL CELL FLOW- AND PRESSURE-RELEASED SOLUBLE PROTEINS. <i>Chemical Engineering Communications</i> , <b>2007</b> , 194, 309-321	2.2	3
28	Sol-gel derived materials as substrates for neuronal differentiation: effects of surface features and protein conformation. <i>Journal of Materials Chemistry</i> , <b>2006</b> , 16, 3221		32
27	Less harmful acidic degradation of poly(lactico-glycolic acid) bone tissue engineering scaffolds through titania nanoparticle addition. <i>International Journal of Nanomedicine</i> , <b>2006</b> , 1, 541-5	7.3	150
26	Mimicking the nanofeatures of bone increases bone-forming cell adhesion and proliferation. <i>Nanotechnology</i> , <b>2005</b> , 16, 1828-1835	3.4	182
25	Increased osteoblast function on PLGA composites containing nanophase titania. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2005</b> , 74, 677-86	5.4	92
24	Adhesion of Pseudomonas fluorescens onto nanophase materials. <i>Nanotechnology</i> , <b>2005</b> , 16, S449-57	3.4	15
23	Helical Rosette Nanotubes as a Potentially More Effective Orthopaedic Implant Material. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 845, 24		
22	Effect of Metal Substrate Nanometer Topography on Osteoblast Metabolic Activities. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 823, W13.6.1		2

21	More Efficient Capture of Bacteria on Nanostructured Materials. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 845, 134		
20	Directed Osteoblast Adhesion at Particle Boundaries: Promises for Nanophase Metals. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 823, W11.12.1		1
19	Osteoblast response to hydroxyapatite doped with divalent and trivalent cations. <i>Biomaterials</i> , <b>2004</b> , 25, 2111-21	15.6	337
18	Increased osteoblast adhesion on nanophase metals: Ti, Ti6Al4V, and CoCrMo. <i>Biomaterials</i> , <b>2004</b> , 25, 4731-9	15.6	664
17	Increased, Directed Osteoblast Adhesion at Nanophase Ti and Ti6Al4V Particle Boundaries. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 806, 47		1
16	Carbon Nanofiber Surface Roughness Increases Osteoblast Adhesion. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 774, 161		
15	In Vitro Vascular Cell Adhesion and Proliferation on Alkaline Degraded Poly-lactic/glycolic Acid Polymers. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 724, N4.2.1		
14	Hydroxylapatite with substituted magnesium, zinc, cadmium, and yttrium. I. Structure and microstructure. <i>Journal of Biomedical Materials Research Part B</i> , <b>2002</b> , 59, 305-11		157
13	Osteoblast and Chondrocyte Proliferation in the Presence of Alumina And Titania Nanoparticles. <i>Journal of Nanoparticle Research</i> , <b>2002</b> , 4, 231-238	2.3	58
12	Solubility Properties of Hydroxyapatite Doped with Divalent and Trivalent Ions. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 735, 1171		
11	Increased Osteoblast and Decreased Smooth Muscle Cell Adhesion on Biologically-inspired Carbon Nanofibers. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 676, 971		0
10	Enhanced Cytocompatibility Properties of Hydroxyapatite Doped with Trivalent Ions. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 711, 1		
9	An In Vitro Study of Nano-fiber Polymers for Guided Vascular Regeneration. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 711, 1		3
8	Small Diameter, High Surface Energy Carbon Nanofiber Formulations that Selectively Increase Osteoblast function. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 711, 1		6
7	An Investigation of Nano-structured Polymers for Use as Bladder Tissue Replacement Constructs. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 711, 1		2
6	Osteoblast adhesion on nanophase ceramics. <i>Biomaterials</i> , <b>1999</b> , 20, 1221-7	15.6	800
5	Nanophase Hydroxyapatite Coatings on Titanium for Improved Osteoblast Functions. <i>Ceramic Engineering and Science Proceedings</i> , 63-70	0.1	
4	Improved Bone Cell Adhesion on Ultrafine Grained Titanium and Ti-6Al-4V. <i>Ceramic Transactions</i> , 239-245.1		

3	Increased Osteoblast Functions on Nanophase Hydroxyapatite Coatings on Titanium. <i>Ceramic Transactions</i> ,175-191	0.1	
2	Increased Surface Area and Roughness Promotes Osteoblast Adhesion on Hydroxyapatite/Titania/PLGA Composite Coatings. <i>Ceramic Transactions</i> ,231-237	0.1	
1	Improved Dispersion of Nanophase Titania in PLGA Enhances Osteoblast Adhesion. <i>Ceramic Transactions</i> ,247-255	0.1	2