

Thomas J 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.

314
papers

20,778
citations

74
h-index

138
g-index

345
ext. papers

22,382
ext. citations

6.9
avg, IF

7.26
L-index

#	Paper	IF	Citations
314	Protein Interactions at Material Surfaces 2021 , 399-422		
313	Effect of Precursor Deficiency Induced Ca/P Ratio on Antibacterial and Osteoblast Adhesion Properties of Ag-Incorporated Hydroxyapatite: Reducing Ag Toxicity. <i>Materials</i> , 2021 , 14,	3.5	3
312	Biological Applications of Severely Plastically Deformed Nano-Grained Medical Devices: A Review. <i>Nanomaterials</i> , 2021 , 11,	5.4	5
311	Transparent Nano Thin -Film Transistors for Medical Sensors, OLED and Display Applications. <i>International Journal of Nanomedicine</i> , 2020 , 15, 3597-3603	7.3	3
310	Recent Developments in the Facile Bio-Synthesis of Gold Nanoparticles (AuNPs) and Their Biomedical Applications. <i>International Journal of Nanomedicine</i> , 2020 , 15, 275-300	7.3	111
309	Advances in dual functional antimicrobial and osteoinductive biomaterials for orthopaedic applications. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020 , 24, 102143	6	28
308	Advances in Translational Nanotechnology: Challenges and Opportunities. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4881	2.6	2
307	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> , 2019 , 10, 89-96	4.4	1
306	Nanotechnology and picotechnology 2019 , 191-212		25
305	Functionalized Nanomaterial Assembling and Biosynthesis Using the Extremophile <i>Deinococcus radiodurans</i> for Multifunctional Applications. <i>Small</i> , 2019 , 15, e1900600	11	11
304	Recent insights on nanomedicine for augmented infection control. <i>International Journal of Nanomedicine</i> , 2019 , 14, 2301-2325	7.3	13
303	Translational medicine and biomaterials 2019 , 1-22		1
302	A Status Report on FDA Approval of Medical Devices Containing Nanostructured Materials. <i>Trends in Biotechnology</i> , 2019 , 37, 117-120	15.1	45
301	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> , 2019 , 14, 9955-9970	7.3	20
300	Surface energy-mediated fibronectin adsorption and osteoblast responses on nanostructured diamond. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 817-823	9.1	9
299	Synergic antibacterial coatings combining titanium nanocolumns and tellurium nanorods. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019 , 17, 36-46	6	13
298	How can 3D printing be a powerful tool in nanomedicine?. <i>Nanomedicine</i> , 2018 , 13, 251-253	5.6	10

297	The era of biofunctional biomaterials in orthopedics: what does the future hold?. <i>Expert Review of Medical Devices</i> , 2018 , 15, 193-204	3.5	15
296	Nanotechnology and Nanomaterials for Improving Neural Interfaces. <i>Advanced Functional Materials</i> , 2018 , 28, 1700905	15.6	45
295	Bacteria antibiotic resistance: New challenges and opportunities for implant-associated orthopedic infections. <i>Journal of Orthopaedic Research</i> , 2018 , 36, 22-32	3.8	333
294	Personalized nanomedicine: a rapid, sensitive, and selective UV-vis spectrophotometry method for the quantification of nanostructured PEG-asparaginase activity in children's plasma. <i>International Journal of Nanomedicine</i> , 2018 , 13, 6337-6344	7.3	4
293	Stability, safety, and transcorneal mechanistic studies of ophthalmic lyophilized cyclosporine-loaded polymeric micelles. <i>International Journal of Nanomedicine</i> , 2018 , 13, 8281-8296	7.3	10
292	A review of using green chemistry methods for biomaterials in tissue engineering. <i>International Journal of Nanomedicine</i> , 2018 , 13, 5953-5969	7.3	33
291	Nanoparticles in tissue engineering: applications, challenges and prospects. <i>International Journal of Nanomedicine</i> , 2018 , 13, 5637-5655	7.3	188
290	Increased viability of fibroblasts when pretreated with ceria nanoparticles during serum deprivation. <i>International Journal of Nanomedicine</i> , 2018 , 13, 895-901	7.3	10
289	Reducing Bacterial Infections and Biofilm Formation Using Nanoparticles and Nanostructured Antibacterial Surfaces. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1800103	10.1	78
288	pH-Controlled Cerium Oxide Nanoparticle Inhibition of Both Gram-Positive and Gram-Negative Bacteria Growth. <i>Scientific Reports</i> , 2017 , 7, 45859	4.9	75
287	Antibacterial properties of PEKK for orthopedic applications. <i>International Journal of Nanomedicine</i> , 2017 , 12, 6471-6476	7.3	23
286	Lipase degradation of plasticized polyvinyl chloride endotracheal tube surfaces to create nanoscale features. <i>International Journal of Nanomedicine</i> , 2017 , 12, 2109-2115	7.3	6
285	Electrostatic interactions between polyglutamic acid and polylysine yields stable polyion complex micelles for deoxy podophyllotoxin delivery. <i>International Journal of Nanomedicine</i> , 2017 , 12, 7963-7977	7.3	11
284	Decreased bacterial growth on titanium nanoscale topographies created by ion beam assisted evaporation. <i>International Journal of Nanomedicine</i> , 2017 , 12, 1161-1169	7.3	16
283	Reduced bacterial growth and increased osteoblast proliferation on titanium with a nanophase TiO surface treatment. <i>International Journal of Nanomedicine</i> , 2017 , 12, 363-369	7.3	29
282	Orthopedic implant biomaterials with both osteogenic and anti-infection capacities and associated in vivo evaluation methods. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017 , 13, 123-142	6	56
281	Nanotechnology for Reducing Orthopedic Implant Infections: Synthesis, Characterization, and Properties 2017 , 31-62		0
280	Atomic layer deposition of nano-TiO thin films with enhanced biocompatibility and antimicrobial activity for orthopedic implants. <i>International Journal of Nanomedicine</i> , 2017 , 12, 8711-8723	7.3	68

279	Elastic liposomes as novel carriers: recent advances in drug delivery. <i>International Journal of Nanomedicine</i> , 2017 , 12, 5087-5108	7.3	91
278	Synthesis, characterization, and antimicrobial properties of novel double layer nanocomposite electrospun fibers for wound dressing applications. <i>International Journal of Nanomedicine</i> , 2017 , 12, 2205-2213	7.3	61
277	Two-dimensional collagen-graphene as colloidal templates for biocompatible inorganic nanomaterial synthesis. <i>International Journal of Nanomedicine</i> , 2017 , 12, 3605-3616	7.3	8
276	Self-Assembled Organic Nanotubes: Novel Bionanomaterials for Orthopedics and Tissue Engineering 2017 , 17-46		
275	Self-assembled peptide nanomaterials for biomedical applications: promises and pitfalls. <i>International Journal of Nanomedicine</i> , 2017 , 12, 73-86	7.3	113
274	Enhancing Stent Effectiveness with Nanofeatures. <i>Methodist DeBakey Cardiovascular Journal</i> , 2016 , 12, 163-168	2.1	9
273	Improved molecular fingerprint analysis employing multi-branched gold nanoparticles in conjunction with surface-enhanced Raman scattering. <i>International Journal of Nanomedicine</i> , 2016 , 11, 45-52	7.3	4
272	The effect of red-allotrope selenium nanoparticles on head and neck squamous cell viability and growth. <i>International Journal of Nanomedicine</i> , 2016 , 11, 3641-54	7.3	17
271	Endothelial glycocalyx conditions influence nanoparticle uptake for passive targeting. <i>International Journal of Nanomedicine</i> , 2016 , 11, 3305-15	7.3	27
270	Enhanced chondrocyte culture and growth on biologically inspired nanofibrous cell culture dishes. <i>International Journal of Nanomedicine</i> , 2016 , 11, 479-83	7.3	4
269	Antimicrobial performance of mesoporous titania thin films: role of pore size, hydrophobicity, and antibiotic release. <i>International Journal of Nanomedicine</i> , 2016 , 11, 977-90	7.3	17
268	Enhanced tumor delivery and antitumor response of doxorubicin-loaded albumin nanoparticles formulated based on a Schiff base. <i>International Journal of Nanomedicine</i> , 2016 , 11, 3875-90	7.3	21
267	Synthesis, characterization, and efficacy of antituberculosis isoniazid zinc aluminum-layered double hydroxide based nanocomposites. <i>International Journal of Nanomedicine</i> , 2016 , 11, 3225-37	7.3	14
266	Cytoprotective effects of cerium and selenium nanoparticles on heat-shocked human dermal fibroblasts: an in vitro evaluation. <i>International Journal of Nanomedicine</i> , 2016 , 11, 1427-33	7.3	12
265	Graphene oxide/multi-walled carbon nanotubes as nanofeatured scaffolds for the assisted deposition of nanohydroxyapatite: characterization and biological evaluation. <i>International Journal of Nanomedicine</i> , 2016 , 11, 2569-85	7.3	17
264	The role of surfactants in the formulation of elastic liposomal gels containing a synthetic opioid analgesic. <i>International Journal of Nanomedicine</i> , 2016 , 11, 1475-82	7.3	29
263	Synthesis, characterization, and performance evaluation of multilayered photoanodes by introducing mesoporous carbon and TiO ₂ for humic acid adsorption. <i>International Journal of Nanomedicine</i> , 2016 , 11, 3969-78	7.3	6
262	Preparation, characterization, and in ovo vaccination of dextran-spermine nanoparticle DNA vaccine coexpressing the fusion and hemagglutinin genes against Newcastle disease. <i>International Journal of Nanomedicine</i> , 2016 , 11, 259-67	7.3	12

261	A novel dissolution media for testing drug release from a nanostructured polysaccharide-based colon specific drug delivery system: an approach to alternative colon media. <i>International Journal of Nanomedicine</i> , 2016 , 11, 1089-95	7.3	10
260	XanoMatrix surfaces as scaffolds for mesenchymal stem cell culture and growth. <i>International Journal of Nanomedicine</i> , 2016 , 11, 2655-61	7.3	1
259	Monte Carlo and analytic simulations in nanoparticle-enhanced radiation therapy. <i>International Journal of Nanomedicine</i> , 2016 , 11, 4735-4741	7.3	23
258	Optimizing superparamagnetic iron oxide nanoparticles as drug carriers using an in vitro blood-brain barrier model. <i>International Journal of Nanomedicine</i> , 2016 , 11, 5371-5379	7.3	30
257	Cold atmospheric plasma (CAP) surface nanomodified 3D printed polylactic acid (PLA) scaffolds for bone regeneration. <i>Acta Biomaterialia</i> , 2016 , 46, 256-265	10.8	108
256	Selenium nanoparticles incorporated into titania nanotubes inhibit bacterial growth and macrophage proliferation. <i>Nanoscale</i> , 2016 , 8, 15783-94	7.7	53
255	Reducing bacteria and macrophage density on nanophase hydroxyapatite coated onto titanium surfaces without releasing pharmaceutical agents. <i>Nanoscale</i> , 2015 , 7, 8416-27	7.7	37
254	The influence of nanostructured features on bacterial adhesion and bone cell functions on severely shot peened 316L stainless steel. <i>Biomaterials</i> , 2015 , 73, 185-97	15.6	167
253	Lubricin: a novel means to decrease bacterial adhesion and proliferation. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 451-62	5.4	22
252	Reducing Staphylococcus aureus growth on Ti alloy nanostructured surfaces through the addition of Sn. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 3757-63	5.4	8
251	Cytotoxicity and physicochemical characterization of iron-manganese-doped sulfated zirconia nanoparticles. <i>International Journal of Nanomedicine</i> , 2015 , 10, 5739-50	7.3	8
250	Inhibition of various gram-positive and gram-negative bacteria growth on selenium nanoparticle coated paper towels. <i>International Journal of Nanomedicine</i> , 2015 , 10, 2885-94	7.3	17
249	Today's diverse nano-theranostic applications and tomorrow's promises. <i>International Journal of Nanomedicine</i> , 2015 , 10, 1-2	7.3	8
248	Increased NIH 3T3 fibroblast functions on cell culture dishes which mimic the nanometer fibers of natural tissues. <i>International Journal of Nanomedicine</i> , 2015 , 10, 5293-9	7.3	4
247	Selective inhibition of MG-63 osteosarcoma cell proliferation induced by curcumin-loaded self-assembled arginine-rich-RGD nanospheres. <i>International Journal of Nanomedicine</i> , 2015 , 10, 3351-65	7.3	18
246	Molecular plasma deposition: biologically inspired nanohydroxyapatite coatings on anodized nanotubular titanium for improving osteoblast density. <i>International Journal of Nanomedicine</i> , 2015 , 10, 527-35	7.3	3
245	The ability of streptomycin-loaded chitosan-coated magnetic nanocomposites to possess antimicrobial and antituberculosis activities. <i>International Journal of Nanomedicine</i> , 2015 , 10, 3269-74	7.3	51
244	Nanostructured anti-bacterial poly-lactic-co-glycolic acid films for skin tissue engineering applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 4598-608	5.4	7

243	Development of a Novel Zinc Oxide/Polyvinyl Chloride Nanocomposite Material for Medical Implant Applications. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1626, 1		
242	Multi-scale strategy to eradicate <i>Pseudomonas aeruginosa</i> on surfaces using solid lipid nanoparticles loaded with free fatty acids. <i>Nanoscale</i> , 2014 , 6, 825-32	7.7	23
241	Synthesis, characterization, and antimicrobial activity of an ampicillin-conjugated magnetic nanoantibiotic for medical applications. <i>International Journal of Nanomedicine</i> , 2014 , 9, 3801-14	7.3	71
240	Decreased <i>Staphylococcus aureus</i> and increased osteoblast density on nanostructured electrophoretic-deposited hydroxyapatite on titanium without the use of pharmaceuticals. <i>International Journal of Nanomedicine</i> , 2014 , 9, 1775-81	7.3	11
239	Novel nano-rough polymers for cartilage tissue engineering. <i>International Journal of Nanomedicine</i> , 2014 , 9, 1845-53	7.3	20
238	Novel kojic acid-polymer-based magnetic nanocomposites for medical applications. <i>International Journal of Nanomedicine</i> , 2014 , 9, 351-62	7.3	23
237	Synthesis, characterization, controlled release, and antibacterial studies of a novel streptomycin chitosan magnetic nanoantibiotic. <i>International Journal of Nanomedicine</i> , 2014 , 9, 549-57	7.3	45
236	Understanding improved osteoblast behavior on select nanoporous anodic alumina. <i>International Journal of Nanomedicine</i> , 2014 , 9, 3325-34	7.3	15
235	Antimycobacterial, antimicrobial, and biocompatibility properties of para-aminosalicylic acid with zinc layered hydroxide and Zn/Al layered double hydroxide nanocomposites. <i>Drug Design, Development and Therapy</i> , 2014 , 8, 1029-36	4.4	9
234	Lubricin as a novel nanostructured protein coating to reduce fibroblast density. <i>International Journal of Nanomedicine</i> , 2014 , 9, 3131-5	7.3	8
233	Greater cardiomyocyte density on aligned compared with random carbon nanofibers in polymer composites. <i>International Journal of Nanomedicine</i> , 2014 , 9, 5533-9	7.3	8
232	Nanotechnology and picotechnology to increase tissue growth: a summary of in vivo studies. <i>International Journal of Nanomedicine</i> , 2014 , 9 Suppl 1, 7-12	7.3	1
231	Advances in calcium phosphate coatings--anodic spark deposition: a review. <i>Frontiers in Bioscience - Landmark</i> , 2014 , 19, 475-89	2.8	3
230	Similar healthy osteoclast and osteoblast activity on nanocrystalline hydroxyapatite and nanoparticles of tri-calcium phosphate compared to natural bone. <i>International Journal of Nanomedicine</i> , 2014 , 9, 5627-37	7.3	18
229	Decreased bacteria density on nanostructured polyurethane. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 1823-8	5.4	18
228	Greater fibroblast proliferation on an ultrasonicated ZnO/PVC nanocomposite material. <i>International Journal of Nanomedicine</i> , 2014 , 9, 257-63	7.3	10
227	Proteins: Structure and Interaction Patterns to Solid Surfaces 2014 , 3945-3960		
226	A nanoparticulate injectable hydrogel as a tissue engineering scaffold for multiple growth factor delivery for bone regeneration. <i>International Journal of Nanomedicine</i> , 2013 , 8, 47-59	7.3	64

225	Novel injectable biomimetic hydrogels with carbon nanofibers and self assembled rosette nanotubes for myocardial applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 1095-1102	5.4	52
224	Gene expression in osteoblast cells treated with submicron to nanometer hydroxyapatite-mullite eluate particles. <i>Journal of Biomaterials Applications</i> , 2013 , 27, 891-908	2.9	4
223	Fructose Enhanced Reduction of Bacterial Growth on Nanorough Surfaces. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1498, 73-78		3
222	Nano-BaSO ₄ : A Novel Bacteriostatic Polymer Additive 2013 ,		2
221	Effects of different sterilization techniques and varying anodized TiO ₂ nanotube dimensions on bacteria growth. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013 , 101, 677-88	3.5	56
220	Short communication: Carboxylate functionalized superparamagnetic iron oxide nanoparticles (SPION) for the reduction of <i>S. aureus</i> growth post biofilm formation. <i>International Journal of Nanomedicine</i> , 2013 , 8, 731-6	7.3	26
219	Decreased cervical cancer cell adhesion on nanotubular titanium for the treatment of cervical cancer. <i>International Journal of Nanomedicine</i> , 2013 , 8, 995-1001	7.3	1
218	Understanding the wetting properties of nanostructured selenium coatings: the role of nanostructured surface roughness and air-pocket formation. <i>International Journal of Nanomedicine</i> , 2013 , 8, 2001-9	7.3	18
217	Using mathematical models to understand the effect of nanoscale roughness on protein adsorption for improving medical devices. <i>International Journal of Nanomedicine</i> , 2013 , 8 Suppl 1, 75-81	7.3	4
216	Nano-BaSO ₄ : a novel antimicrobial additive to pellethane. <i>International Journal of Nanomedicine</i> , 2013 , 8, 1197-205	7.3	16
215	Anodizing color coded anodized Ti6Al4V medical devices for increasing bone cell functions. <i>International Journal of Nanomedicine</i> , 2013 , 8, 109-17	7.3	20
214	Increased healthy osteoblast to osteosarcoma density ratios on specific PLGA nanopatterns. <i>International Journal of Nanomedicine</i> , 2013 , 8, 159-66	7.3	10
213	Reduced adhesion of <i>Staphylococcus aureus</i> to ZnO/PVC nanocomposites. <i>International Journal of Nanomedicine</i> , 2013 , 8, 1177-84	7.3	19
212	Nanostructured polyurethane-poly-lactic-co-glycolic acid scaffolds increase bladder tissue regeneration: an in vivo study. <i>International Journal of Nanomedicine</i> , 2013 , 8, 3285-96	7.3	19
211	Antibacterial effect of zinc oxide nanoparticles combined with ultrasound. <i>Nanotechnology</i> , 2012 , 23, 495101	3.4	68
210	Surface Energy-mediated Protein and Osteoblast Responses on Nanostructured Stiff Surfaces. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1486, 10		
209	Decreased platelet adhesion and enhanced endothelial cell functions on nano and submicron-rough titanium stents. <i>Tissue Engineering - Part A</i> , 2012 , 18, 1389-98	3.9	34
208	Altering surface energy of nanocrystalline diamond to control osteoblast responses. <i>Journal of Materials Chemistry</i> , 2012 , 22, 205-214		25

207	Biological Responses to and Toxicity of Nanoscale Implant Materials 2012 , 481-508		1
206	Decreased bacteria activity on SiN ₃ surfaces compared with PEEK or titanium. <i>International Journal of Nanomedicine</i> , 2012 , 7, 4829-40	7-3	74
205	Fructose-enhanced reduction of bacterial growth on nanorough surfaces. <i>International Journal of Nanomedicine</i> , 2012 , 7, 537-45	7-3	20
204	Carbon nanotubes impregnated with subventricular zone neural progenitor cells promotes recovery from stroke. <i>International Journal of Nanomedicine</i> , 2012 , 7, 2751-65	7-3	32
203	Antimicrobial applications of nanotechnology: methods and literature. <i>International Journal of Nanomedicine</i> , 2012 , 7, 2767-81	7-3	45 ¹
202	Lubricin as a Novel Protein Coating to Prevent Bacterial Biofouling. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1417, 1		
201	Effects of PLGA Nano Patterns on the Responses of Healthy Osteoblasts. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1412, 32		
200	Improved Cardiomyocyte Functions of Carbon Nanofiber Cardiac Patches. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1417, 87		2
199	Lubricin as a Surface Treatment to Reduce Post-operative Biofouling and Infection. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1486, 16		
198	Orthopedic implants from bioactive rosette nanotubes/poly(2-hydroxyethyl methacrylate)/nano-hydroxyapatite composites. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1417, 99		1
197	Nanostructured Selenium for Preventing Biofilm Formation on Medical Devices. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1415, 29		
196	Mechanisms of greater cardiomyocyte functions on conductive nanoengineered composites for cardiovascular application. <i>International Journal of Nanomedicine</i> , 2012 , 7, 5653-69	7-3	45
195	Nanomodified Endotracheal Tubes: Spatial Analysis of Reduced Bacterial Colonization in a Bench Top Airway Model. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1418, 261		
194	Breast Adenocarcinoma Cell Functions on Nanopatterned PLGA Surfaces. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1416, 67		
193	Nanostructured magnesium increases bone cell density. <i>Nanotechnology</i> , 2012 , 23, 485105	3-4	15
192	Carbon nanostructures for orthopedic medical applications. <i>Nanomedicine</i> , 2011 , 6, 1231-44	5-6	53
191	Spray deposition of live cells throughout the electrospinning process produces nanofibrous three-dimensional tissue scaffolds. <i>International Journal of Nanomedicine</i> , 2011 , 6, 1095-9	7-3	13
190	Reduced adhesion of macrophages on anodized titanium with select nanotube surface features. <i>International Journal of Nanomedicine</i> , 2011 , 6, 1765-71	7-3	53

189	Reducing infections through nanotechnology and nanoparticles. <i>International Journal of Nanomedicine</i> , 2011 , 6, 1463-73	7.3	116
188	Poly(lactic-co-glycolic acid): carbon nanofiber composites for myocardial tissue engineering applications. <i>Acta Biomaterialia</i> , 2011 , 7, 3101-12	10.8	164
187	Nanostructured bladder tissue replacements. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2011 , 3, 134-145	9.2	15
186	Nanobiomaterials: State of the Art and Future Trends. <i>Advanced Engineering Materials</i> , 2011 , 13, B197-B217	3.7	47
185	Nanostructured titanium promotes keratinocyte density. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 97, 59-65	5.4	17
184	Understanding osteoblast responses to stiff nanotopographies through experiments and computational simulations. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 97, 375-82	5.4	24
183	Molecular plasma deposited peptides on anodized nanotubular titanium: an osteoblast density study. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 98, 192-200	5.4	8
182	Comparison of quantification methods illustrates reduced <i>Pseudomonas aeruginosa</i> activity on nanorough polyvinyl chloride. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011 , 98, 1-7	3.5	19
181	Synthesis and microstructural characterization of nano-size calcium phosphates with different stoichiometry. <i>Ceramics International</i> , 2011 , 37, 971-977	5.1	23
180	Effects of increasing carbon nanofiber density in polyurethane composites for inhibiting bladder cancer cell functions. <i>Tissue Engineering - Part A</i> , 2011 , 17, 1879-89	3.9	11
179	Diameter of titanium nanotubes influences anti-bacterial efficacy. <i>Nanotechnology</i> , 2011 , 22, 295102	3.4	167
178	Increased osteoblast functions in the presence of hydroxyapatite-coated iron oxide nanoparticles. <i>Acta Biomaterialia</i> , 2011 , 7, 1298-306	10.8	104
177	Analysis on migration and activation of live macrophages on transparent flat and nanostructured titanium. <i>Acta Biomaterialia</i> , 2011 , 7, 2337-44	10.8	82
176	Decreased <i>Staphylococcus aureus</i> biofilm growth on anodized nanotubular titanium and the effect of electrical stimulation. <i>Acta Biomaterialia</i> , 2011 , 7, 3003-12	10.8	90
175	Control of macrophage responses on hydrophobic and hydrophilic carbon nanostructures. <i>Carbon</i> , 2011 , 49, 2092-2103	10.4	23
174	Enhanced biological and mechanical properties of well-dispersed nanophase ceramics in polymer composites: From 2D to 3D printed structures. <i>Materials Science and Engineering C</i> , 2011 , 31, 77-89	8.3	32
173	Development of a dual growth factor loaded biodegradable hydrogel and its evaluation on osteoblast differentiation in vitro. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1312, 1		
172	Decreased Attachment of Bacteria to Lubricin Coated Intraocular Lenses. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1316, 1		1

171 Electrically Active Neural Biomaterials **2011**, 95-114

170 Monitoring Tissue Healing Through Nanosensors **2011**, 41-59 4

169 Mechanical properties of dispersed ceramic nanoparticles in polymer composites for orthopedic applications. *International Journal of Nanomedicine*, **2010**, 5, 299-313 7.3 62

168 Greater osteoblast and endothelial cell adhesion on nanostructured polyethylene and titanium. *International Journal of Nanomedicine*, **2010**, 5, 647-52 7.3 38

167 Differential effects of nanoselenium doping on healthy and cancerous osteoblasts in coculture on titanium. *International Journal of Nanomedicine*, **2010**, 5, 351-8 7.3 41

166 Bactericidal effect of iron oxide nanoparticles on *Staphylococcus aureus*. *International Journal of Nanomedicine*, **2010**, 5, 277-83 7.3 208

165 Selenium Nanocluster Coatings: Transforming Current Orthopedic Materials into Inhibiting Bone Cancer. *Materials Science Forum*, **2010**, 638-642, 718-723 0.4 1

164 Nanomaterials for Improved Orthopedic and Bone Tissue Engineering Applications **2010**, 205-241 4

163 Zinc oxide nanoparticle and polymer antimicrobial biomaterial composites **2010**, 2

162 An understanding of enhanced osteoblast adhesion on various nanostructured polymeric and metallic materials prepared by ionic plasma deposition. *Journal of Biomedical Materials Research - Part A*, **2010**, 92, 1190-201 5.4 9

161 Ceramic/polymer nanocomposites with tunable drug delivery capability at specific disease sites. *Journal of Biomedical Materials Research - Part A*, **2010**, 93, 1180-92 5.4 23

160 Titanium surfaces with adherent selenium nanoclusters as a novel anticancer orthopedic material. *Journal of Biomedical Materials Research - Part A*, **2010**, 93, 1417-28 5.4 30

159 Magnetic nanoparticles: biomedical applications and challenges. *Journal of Materials Chemistry*, **2010**, 20, 8760 284

158 Nanotechnology for regenerative medicine. *Biomedical Microdevices*, **2010**, 12, 575-87 3.7 93

157 Microstructural, mechanical, and osteocompatibility properties of Mg²⁺/F(-)-doped nanophase hydroxyapatite. *Journal of Biomedical Materials Research - Part A*, **2010**, 94, 806-15 5.4 7

156 Greater endothelial cell responses on submicron and nanometer rough titanium surfaces. *Journal of Biomedical Materials Research - Part A*, **2010**, 94, 1042-9 5.4 12

155 Tailoring nanocrystalline diamond coated on titanium for osteoblast adhesion. *Journal of Biomedical Materials Research - Part A*, **2010**, 95, 129-36 5.4 26

154 Tuning cell adhesion on titanium with osteogenic rosette nanotubes. *Journal of Biomedical Materials Research - Part A*, **2010**, 95, 550-63 5.4 34

153	Nanotextured titanium surfaces for enhancing skin growth on transcutaneous osseointegrated devices. <i>Acta Biomaterialia</i> , 2010 , 6, 2352-62	10.8	79
152	The relationship between the nanostructure of titanium surfaces and bacterial attachment. <i>Biomaterials</i> , 2010 , 31, 706-13	15.6	495
151	Electrically active nanomaterials as improved neural tissue regeneration scaffolds. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2010 , 2, 635-47	9.2	49
150	Nanofunctionalized zirconia and barium sulfate particles as bone cement additives. <i>International Journal of Nanomedicine</i> , 2010 , 5, 1-11	7.3	32
149	The use of superparamagnetic nanoparticles for prosthetic biofilm prevention. <i>International Journal of Nanomedicine</i> , 2009 , 145	7.3	20
148	Increased endothelial cell adhesion and elongation on micron-patterned nano-rough poly(dimethylsiloxane) films. <i>Nanotechnology</i> , 2009 , 20, 305102	3.4	58
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