Thomas J Webster

List of Publications by Citations

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	Nanotechnology and nanomaterials: Promises for improved tissue regeneration. *Nano Today*, **2009**, 4, 66-80	17.9	832
313	Osteoblast adhesion on nanophase ceramics. *Biomaterials*, **1999**, 20, 1221-7	15.6	800
312	Specific proteins mediate enhanced osteoblast adhesion on nanophase ceramics. *Journal of Biomedical Materials Research Part B*, **2000**, 51, 475-83		784
311	Increased osteoblast adhesion on nanophase metals: Ti, Ti6Al4V, and CoCrMo. *Biomaterials*, **2004**, 25, 4731-9	15.6	664
310	The relationship between the nanostructure of titanium surfaces and bacterial attachment. *Biomaterials*, **2010**, 31, 706-13	15.6	495
309	Antimicrobial applications of nanotechnology: methods and literature. *International Journal of Nanomedicine*, **2012**, 7, 2767-81	7.3	451
308	Mechanisms of enhanced osteoblast adhesion on nanophase alumina involve vitronectin. *Tissue Engineering*, **2001**, 7, 291-301		418
307	Endothelial and vascular smooth muscle cell function on poly(lactic-co-glycolic acid) with nano-structured surface features. *Biomaterials*, **2004**, 25, 53-61	15.6	377
306	Enhanced osteoclast-like cell functions on nanophase ceramics. *Biomaterials*, **2001**, 22, 1327-33	15.6	377
305	Using hydroxyapatite nanoparticles and decreased crystallinity to promote osteoblast adhesion similar to functionalizing with RGD. *Biomaterials*, **2006**, 27, 2798-805	15.6	360
304	Carbon nanofibers and carbon nanotubes in regenerative medicine. *Advanced Drug Delivery Reviews* , **2009**, 61, 1097-114	18.5	355
303	Osteoblast response to hydroxyapatite doped with divalent and trivalent cations. *Biomaterials*, **2004**, 25, 2111-21	15.6	337
302	The role of nanometer and sub-micron surface features on vascular and bone cell adhesion on titanium. *Biomaterials*, **2008**, 29, 970-83	15.6	334
301	Bacteria antibiotic resistance: New challenges and opportunities for implant-associated orthopedic infections. *Journal of Orthopaedic Research*, **2018**, 36, 22-32	3.8	333
300	Selective bone cell adhesion on formulations containing carbon nanofibers. *Biomaterials*, **2003**, 24, 1877-87	15.6	331
299	Increased osteoblast and decreased Staphylococcus epidermidis functions on nanophase ZnO and TiO2. *Journal of Biomedical Materials Research - Part A*, **2006**, 78, 595-604	5.4	310
298	Enhanced functions of osteoblasts on nanometer diameter carbon fibers. *Biomaterials*, **2002**, 23, 3279-87	15.6	309

297	Magnetic nanoparticles: biomedical applications and challenges. *Journal of Materials Chemistry*, **2010**, 20, 8760		284
296	Nanobiomaterial applications in orthopedics. *Journal of Orthopaedic Research*, **2007**, 25, 11-22	3.8	278
295	Nano-biotechnology: carbon nanofibres as improved neural and orthopaedic implants.. *Nanotechnology*, **2004**, 15,	3.4	276
294	Hydroxylapatite with substituted magnesium, zinc, cadmium, and yttrium. II. Mechanisms of osteoblast adhesion. *Journal of Biomedical Materials Research Part B*, **2002**, 59, 312-7		224
293	Nanostructured polymer/nanophase ceramic composites enhance osteoblast and chondrocyte adhesion. *Tissue Engineering*, **2002**, 8, 753-61		223
292	Nanometer surface roughness increases select osteoblast adhesion on carbon nanofiber compacts. *Journal of Biomedical Materials Research Part B*, **2004**, 70, 129-38		220
291	Nano-structured polymers enhance bladder smooth muscle cell function. *Biomaterials*, **2003**, 24, 2915-26	15.6	220
290	Improved endothelial cell adhesion and proliferation on patterned titanium surfaces with rationally designed, micrometer to nanometer features. *Acta Biomaterialia*, **2008**, 4, 192-201	10.8	214
289	Enhanced fibronectin adsorption on carbon nanotube/poly(carbonate) urethane: independent role of surface nano-roughness and associated surface energy. *Biomaterials*, **2007**, 28, 4756-68	15.6	212
288	Bactericidal effect of iron oxide nanoparticles on Staphylococcus aureus. *International Journal of Nanomedicine*, **2010**, 5, 277-83	7.3	208
287	Three-dimensional, nano-structured PLGA scaffolds for bladder tissue replacement applications. *Biomaterials*, **2005**, 26, 2491-500	15.6	201
286	Accelerated chondrocyte functions on NaOH-treated PLGA scaffolds. *Biomaterials*, **2005**, 26, 3075-82	15.6	198
285	Decreased functions of astrocytes on carbon nanofiber materials. *Biomaterials*, **2004**, 25, 1309-17	15.6	192
284	Nanoparticles in tissue engineering: applications, challenges and prospects. *International Journal of Nanomedicine*, **2018**, 13, 5637-5655	7.3	188
283	Mimicking the nanofeatures of bone increases bone-forming cell adhesion and proliferation. *Nanotechnology*, **2005**, 16, 1828-1835	3.4	182
282	Polymers with nano-dimensional surface features enhance bladder smooth muscle cell adhesion. *Journal of Biomedical Materials Research - Part A*, **2003**, 67, 1374-83	5.4	172
281	The influence of nanostructured features on bacterial adhesion and bone cell functions on severely shot peened 316L stainless steel. *Biomaterials*, **2015**, 73, 185-97	15.6	167
280	Diameter of titanium nanotubes influences anti-bacterial efficacy. *Nanotechnology*, **2011**, 22, 295102	3.4	167

279	Poly(lactic-co-glycolic acid): carbon nanofiber composites for myocardial tissue engineering applications. *Acta Biomaterialia*, **2011**, 7, 3101-12	10.8	164
278	Hydroxylapatite with substituted magnesium, zinc, cadmium, and yttrium. I. Structure and microstructure. *Journal of Biomedical Materials Research Part B*, **2002**, 59, 305-11		157
277	An in vitro evaluation of the Ca/P ratio for the cytocompatibility of nano-to-micron particulate calcium phosphates for bone regeneration. *Acta Biomaterialia*, **2008**, 4, 1472-9	10.8	156
276	Enhanced osteoblast functions on anodized titanium with nanotube-like structures. *Journal of Biomedical Materials Research - Part A*, **2008**, 85, 157-66	5.4	153
275	TiO2 nanotubes functionalized with regions of bone morphogenetic protein-2 increases osteoblast adhesion. *Journal of Biomedical Materials Research - Part A*, **2008**, 84, 447-53	5.4	149
274	Increased viable osteoblast density in the presence of nanophase compared to conventional alumina and titania particles. *Biomaterials*, **2004**, 25, 4175-83	15.6	147
273	Nanobiotechnology: implications for the future of nanotechnology in orthopedic applications. *Expert Review of Medical Devices*, **2004**, 1, 105-14	3.5	125
272	Increased osteoblast functions on theta + delta nanofiber alumina. *Biomaterials*, **2005**, 26, 953-60	15.6	123
271	Arginine-glycine-aspartic acid modified rosette nanotube-hydrogel composites for bone tissue engineering. *Biomaterials*, **2009**, 30, 1309-20	15.6	118
270	Anodized Ti and Ti6Al4V Possessing Nanometer Surface Features Enhances Osteoblast Adhesion. *Journal of Biomedical Nanotechnology*, **2005**, 1, 68-73	4	118
269	Reducing infections through nanotechnology and nanoparticles. *International Journal of Nanomedicine*, **2011**, 6, 1463-73	7.3	116
268	Self-assembled peptide nanomaterials for biomedical applications: promises and pitfalls. *International Journal of Nanomedicine*, **2017**, 12, 73-86	7.3	113
267	Osteoblast function on nanophase alumina materials: Influence of chemistry, phase, and topography. *Journal of Biomedical Materials Research - Part A*, **2003**, 67, 1284-93	5.4	112
266	Recent Developments in the Facile Bio-Synthesis of Gold Nanoparticles (AuNPs) and Their Biomedical Applications. *International Journal of Nanomedicine*, **2020**, 15, 275-300	7.3	111
265	A perspective on nanophase materials for orthopedic implant applications. *Journal of Materials Chemistry*, **2006**, 16, 3737		109
264	Cold atmospheric plasma (CAP) surface nanomodified 3D printed polylactic acid (PLA) scaffolds for bone regeneration. *Acta Biomaterialia*, **2016**, 46, 256-265	10.8	108
263	Increased osteoblast functions in the presence of hydroxyapatite-coated iron oxide nanoparticles. *Acta Biomaterialia*, **2011**, 7, 1298-306	10.8	104
262	Design and evaluation of nanophase alumina for orthopaedic/dental applications. *Scripta Materialia* , **1999**, 12, 983-986		103

261	Decreased fibroblast cell density on chemically degraded poly-lactic-co-glycolic acid, polyurethane, and polycaprolactone. *Biomaterials*, **2004**, 25, 2095-103	15.6	100
260	Enhanced osteoblast adhesion on hydrothermally treated hydroxyapatite/titania/poly(lactide-co-glycolide) sol-gel titanium coatings. *Biomaterials*, **2005**, 26, 1349-57	15.6	99
259	Nanotechnology for bone materials. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2009**, 1, 336-51	9.2	98
258	Increased osteoblast functions among nanophase titania/poly(lactide-co-glycolide) composites of the highest nanometer surface roughness. *Journal of Biomedical Materials Research - Part A*, **2006**, 78, 798-807	5.4	94
257	Increased osteoblast adhesion on titanium-coated hydroxylapatite that forms CaTiO3. *Journal of Biomedical Materials Research Part B*, **2003**, 67, 975-80		94
256	Nanotechnology for regenerative medicine. *Biomedical Microdevices*, **2010**, 12, 575-87	3.7	93
255	Nanotechnology and biomaterials for orthopedic medical applications. *Nanomedicine*, **2006**, 1, 169-76	5.6	93
254	Increased osteoblast function on PLGA composites containing nanophase titania. *Journal of Biomedical Materials Research - Part A*, **2005**, 74, 677-86	5.4	92
253	Elastic liposomes as novel carriers: recent advances in drug delivery. *International Journal of Nanomedicine*, **2017**, 12, 5087-5108	7.3	91
252	An overview of nano-polymers for orthopedic applications. *Macromolecular Bioscience*, **2007**, 7, 635-42	5.5	91
251	Decreased Staphylococcus aureus biofilm growth on anodized nanotubular titanium and the effect of electrical stimulation. *Acta Biomaterialia*, **2011**, 7, 3003-12	10.8	90
250	Nano rough micron patterned titanium for directing osteoblast morphology and adhesion. *International Journal of Nanomedicine*, **2008**, 3, 229-41	7.3	87
249	Nanoceramic surface roughness enhances osteoblast and osteoclast functions for improved orthopaedic/dental implant efficacy. *Scripta Materialia*, **2001**, 44, 1639-1642	5.6	83
248	Analysis on migration and activation of live macrophages on transparent flat and nanostructured titanium. *Acta Biomaterialia*, **2011**, 7, 2337-44	10.8	82
247	Nanotextured titanium surfaces for enhancing skin growth on transcutaneous osseointegrated devices. *Acta Biomaterialia*, **2010**, 6, 2352-62	10.8	79
246	Reducing Bacterial Infections and Biofilm Formation Using Nanoparticles and Nanostructured Antibacterial Surfaces. *Advanced Healthcare Materials*, **2018**, 7, e1800103	10.1	78
245	Increased osteoblast density in the presence of novel calcium phosphate coated magnetic nanoparticles. *Nanotechnology*, **2008**, 19, 265101	3.4	77
244	Mechanism(s) of increased vascular cell adhesion on nanostructured poly(lactic-co-glycolic acid) films. *Journal of Biomedical Materials Research - Part A*, **2005**, 73, 476-84	5.4	77

243	pH-Controlled Cerium Oxide Nanoparticle Inhibition of Both Gram-Positive and Gram-Negative Bacteria Growth. *Scientific Reports*, **2017**, 7, 45859	4.9	75
242	Altered responses of chondrocytes to nanophase PLGA/nanophase titania composites. *Biomaterials*, **2004**, 25, 1205-13	15.6	75
241	Decreased bacteria activity on Si$_3$N$_4$ surfaces compared with PEEK or titanium. *International Journal of Nanomedicine*, **2012**, 7, 4829-40	7.3	74
240	Synthesis, characterization, and antimicrobial activity of an ampicillin-conjugated magnetic nanoantibiotic for medical applications. *International Journal of Nanomedicine*, **2014**, 9, 3801-14	7.3	71
239	Enhanced functions of vascular cells on nanostructured Ti for improved stent applications. *Tissue Engineering*, **2007**, 13, 1421-30		71
238	Opportunities for nanotechnology-enabled bioactive bone implants. *Journal of Materials Chemistry*, **2009**, 19, 2653		70
237	Nanotechnology controlled drug delivery for treating bone diseases. *Expert Opinion on Drug Delivery*, **2009**, 6, 851-64	8	69
236	Atomic layer deposition of nano-TiO thin films with enhanced biocompatibility and antimicrobial activity for orthopedic implants. *International Journal of Nanomedicine*, **2017**, 12, 8711-8723	7.3	68
235	Antibacterial effect of zinc oxide nanoparticles combined with ultrasound. *Nanotechnology*, **2012**, 23, 495101	3.4	68
234	Biologically inspired rosette nanotubes and nanocrystalline hydroxyapatite hydrogel nanocomposites as improved bone substitutes. *Nanotechnology*, **2009**, 20, 175101	3.4	67
233	Enhanced osteoblast adhesion on self-assembled nanostructured hydrogel scaffolds. *Tissue Engineering - Part A*, **2008**, 14, 1353-64	3.9	66
232	Greater osteoblast functions on multiwalled carbon nanotubes grown from anodized nanotubular titanium for orthopedic applications. *Nanotechnology*, **2007**, 18, 365102	3.4	65
231	A nanoparticulate injectable hydrogel as a tissue engineering scaffold for multiple growth factor delivery for bone regeneration. *International Journal of Nanomedicine*, **2013**, 8, 47-59	7.3	64
230	Enhanced chondrocyte densities on carbon nanotube composites: the combined role of nanosurface roughness and electrical stimulation. *Journal of Biomedical Materials Research - Part A*, **2008**, 86, 253-60	5.4	64
229	Helical rosette nanotubes: a biomimetic coating for orthopedics?. *Biomaterials*, **2005**, 26, 7304-9	15.6	64
228	The use of superparamagnetic nanoparticles for prosthetic biofilm prevention. *International Journal of Nanomedicine*, **2009**, 4, 145-52	7.3	63
227	Mechanical properties of dispersed ceramic nanoparticles in polymer composites for orthopedic applications. *International Journal of Nanomedicine*, **2010**, 5, 299-313	7.3	62
226	Synthesis, characterization, and antimicrobial properties of novel double layer nanocomposite electrospun fibers for wound dressing applications. *International Journal of Nanomedicine*, **2017**, 12, 2205-2213	7.3	61

225	Nanophase ceramics: The future orthopedic and dental implant material. *Advances in Chemical Engineering*, **2001**, 27, 125-166	0.6	59
224	Selective adhesion and mineral deposition by osteoblasts on carbon nanofiber patterns. *International Journal of Nanomedicine*, **2006**, 1, 65-72	7.3	59
223	Increased endothelial cell adhesion and elongation on micron-patterned nano-rough poly(dimethylsiloxane) films. *Nanotechnology*, **2009**, 20, 305102	3.4	58
222	PLGA nanometer surface features manipulate fibronectin interactions for improved vascular cell adhesion. *Journal of Biomedical Materials Research - Part A*, **2007**, 81, 678-84	5.4	58
221	Osteoblast and Chrondrocyte Proliferation in the Presence of Alumina And Titania Nanoparticles. *Journal of Nanoparticle Research*, **2002**, 4, 231-238	2.3	58
220	Orthopedic implant biomaterials with both osteogenic and anti-infection capacities and associated in vivo evaluation methods. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2017**, 13, 123-142	6	56
219	Effects of different sterilization techniques and varying anodized TiO_2 nanotube dimensions on bacteria growth. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2013**, 101, 677-88	3.5	56
218	Orthopedic nano diamond coatings: control of surface properties and their impact on osteoblast adhesion and proliferation. *Journal of Biomedical Materials Research - Part A*, **2009**, 91, 548-56	5.4	56
217	Increased functions of osteoblasts on nanophase metals. *Materials Science and Engineering C*, **2007**, 27, 575-578	8.3	56
216	Carbon nanostructures for orthopedic medical applications. *Nanomedicine*, **2011**, 6, 1231-44	5.6	53
215	Reduced adhesion of macrophages on anodized titanium with select nanotube surface features. *International Journal of Nanomedicine*, **2011**, 6, 1765-71	7.3	53
214	Selenium nanoparticles incorporated into titania nanotubes inhibit bacterial growth and macrophage proliferation. *Nanoscale*, **2016**, 8, 15783-94	7.7	53
213	Novel injectable biomimetic hydrogels with carbon nanofibers and self assembled rosette nanotubes for myocardial applications. *Journal of Biomedical Materials Research - Part A*, **2013**, 101, 1095-102	5.4	52
212	Increased chondrocyte adhesion on nanotubular anodized titanium. *Journal of Biomedical Materials Research - Part A*, **2009**, 88, 561-8	5.4	52
211	Increased osteoblast functions in the presence of BMP-7 short peptides for nanostructured biomaterial applications. *Journal of Biomedical Materials Research - Part A*, **2009**, 91, 296-304	5.4	52
210	Nanostructured biomaterials for tissue engineering bone. *Advances in Biochemical Engineering/Biotechnology*, **2007**, 103, 275-308	1.7	52
209	Increased osteoblast functions on nanophase titania dispersed in poly-lactic-co-glycolic acid composites. *Nanotechnology*, **2005**, 16, S601-8	3.4	52
208	The ability of streptomycin-loaded chitosan-coated magnetic nanocomposites to possess antimicrobial and antituberculosis activities. *International Journal of Nanomedicine*, **2015**, 10, 3269-74	7.3	51

207	Improved osteoblast viability in the presence of smaller nanometre dimensioned carbon fibres. *Nanotechnology*, **2004**, 15, 892-900	3.4	50
206	Electrically active nanomaterials as improved neural tissue regeneration scaffolds. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2010**, 2, 635-47	9.2	49
205	Increased osteoblast adhesion on nanograined hydroxyapatite and tricalcium phosphate containing calcium titanate. *Journal of Biomedical Materials Research - Part A*, **2007**, 80, 990-7	5.4	48
204	Better osteoblast adhesion on nanoparticulate selenium- A promising orthopedic implant material. *Journal of Biomedical Materials Research - Part A*, **2005**, 75, 356-64	5.4	48
203	Nanobiomaterials: State of the Art and Future Trends. *Advanced Engineering Materials*, **2011**, 13, B197-B217	3.5	47
202	Biomimetic helical rosette nanotubes and nanocrystalline hydroxyapatite coatings on titanium for improving orthopedic implants. *International Journal of Nanomedicine*, **2008**, 3, 323-33	7.3	47
201	Nanotechnology and Nanomaterials for Improving Neural Interfaces. *Advanced Functional Materials* , **2018**, 28, 1700905	15.6	45
200	A Status Report on FDA Approval of Medical Devices Containing Nanostructured Materials. *Trends in Biotechnology*, **2019**, 37, 117-120	15.1	45
199	Synthesis, characterization, controlled release, and antibacterial studies of a novel streptomycin chitosan magnetic nanoantibiotic. *International Journal of Nanomedicine*, **2014**, 9, 549-57	7.3	45
198	Mechanisms of greater cardiomyocyte functions on conductive nanoengineered composites for cardiovascular application. *International Journal of Nanomedicine*, **2012**, 7, 5653-69	7.3	45
197	Increased osteoblast adhesion on nanograined Ti modified with KRSR. *Journal of Biomedical Materials Research - Part A*, **2007**, 80, 602-11	5.4	45
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194	Increased osteoblast adhesion on nanoparticulate crystalline hydroxyapatite functionalized with KRSR. *International Journal of Nanomedicine*, **2006**, 1, 339-49	7.3	42
193	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
192	Decreased macrophage density on carbon nanotube patterns on polycarbonate urethane. *Journal of Biomedical Materials Research - Part A*, **2009**, 88, 419-26	5.4	39
191	Greater osteoblast and endothelial cell adhesion on nanostructured polyethylene and titanium. *International Journal of Nanomedicine*, **2010**, 5, 647-52	7.3	38
190	Reducing bacteria and macrophage density on nanophase hydroxyapatite coated onto titanium surfaces without releasing pharmaceutical agents. *Nanoscale*, **2015**, 7, 8416-27	7.7	37

189	The role of polymer nanosurface roughness and submicron pores in improving bladder urothelial cell density and inhibiting calcium oxalate stone formation. *Nanotechnology*, **2009**, 20, 085104	3.4	37
188	The role of nanomedicine in growing tissues. *Annals of Biomedical Engineering*, **2009**, 37, 2034-47	4.7	36
187	Decreased astroglial cell adhesion and proliferation on zinc oxide nanoparticle polyurethane composites. *International Journal of Nanomedicine*, **2008**, 3, 523-31	7.3	36
186	Increased endothelial cell adhesion on plasma modified nanostructured polymeric and metallic surfaces for vascular stent applications. *Biotechnology and Bioengineering*, **2009**, 103, 459-71	4.9	35
185	Decreased platelet adhesion and enhanced endothelial cell functions on nano and submicron-rough titanium stents. *Tissue Engineering - Part A*, **2012**, 18, 1389-98	3.9	34
184	Tuning cell adhesion on titanium with osteogenic rosette nanotubes. *Journal of Biomedical Materials Research - Part A*, **2010**, 95, 550-63	5.4	34
183	Decreased Fibroblast and Increased Osteoblast Functions on Ionic Plasma Deposited Nanostructured Ti Coatings. *Nanoscale Research Letters*, **2007**, 2, 385-390	5	33
182	A review of using green chemistry methods for biomaterials in tissue engineering. *International Journal of Nanomedicine*, **2018**, 13, 5953-5969	7.3	33
181	Carbon nanotubes impregnated with subventricular zone neural progenitor cells promotes recovery from stroke. *International Journal of Nanomedicine*, **2012**, 7, 2751-65	7.3	32
180	Enhanced biological and mechanical properties of well-dispersed nanophase ceramics in polymer composites: From 2D to 3D printed structures. *Materials Science and Engineering C*, **2011**, 31, 77-89	8.3	32
179	Influence of nanophase titania topography on bacterial attachment and metabolism. *International Journal of Nanomedicine*, **2008**, 3, 497-504	7.3	32
178	Nanofunctionalized zirconia and barium sulfate particles as bone cement additives. *International Journal of Nanomedicine*, **2010**, 5, 1-11	7.3	32
177	Enhanced osteoblast adhesion on nanostructured selenium compacts for anti-cancer orthopedic applications. *International Journal of Nanomedicine*, **2008**, 3, 391-6	7.3	31
176	Evaluating the in vitro and in vivo efficacy of nano-structured polymers for bladder tissue replacement applications. *Macromolecular Bioscience*, **2007**, 7, 690-700	5.5	31
175	Nanostructured metal coatings on polymers increase osteoblast attachment. *International Journal of Nanomedicine*, **2007**, 2, 487-92	7.3	31
174	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
173	Enhanced endothelial cell density on NiTi surfaces with sub-micron to nanometer roughness. *International Journal of Nanomedicine*, **2008**, 3, 75-82	7.3	30
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170	Reduced responses of macrophages on nanometer surface features of altered alumina crystalline phases. *Acta Biomaterialia*, **2009**, 5, 1425-32	10.8	29
169	Decreased fibroblast and increased osteoblast adhesion on nanostructured NaOH-etched PLGA scaffolds. *International Journal of Nanomedicine*, **2007**, 2, 383-8	7.3	29
168	Increased osteoblast cell density on nanostructured PLGA-coated nanostructured titanium for orthopedic applications. *International Journal of Nanomedicine*, **2007**, 2, 493-9	7.3	29
167	The role of surfactants in the formulation of elastic liposomal gels containing a synthetic opioid analgesic. *International Journal of Nanomedicine*, **2016**, 11, 1475-82	7.3	29
166	Advances in dual functional antimicrobial and osteoinductive biomaterials for orthopaedic applications. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2020**, 24, 102143	6	28
165	Endothelial glycocalyx conditions influence nanoparticle uptake for passive targeting. *International Journal of Nanomedicine*, **2016**, 11, 3305-15	7.3	27
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163	Tailoring nanocrystalline diamond coated on titanium for osteoblast adhesion. *Journal of Biomedical Materials Research - Part A*, **2010**, 95, 129-36	5.4	26
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161	Nanotechnology and picotechnology **2019**, 191-212		25
160	Altering surface energy of nanocrystalline diamond to control osteoblast responses. *Journal of Materials Chemistry*, **2012**, 22, 205-214		25
159	Understanding osteoblast responses to stiff nanotopographies through experiments and computational simulations. *Journal of Biomedical Materials Research - Part A*, **2011**, 97, 375-82	5.4	24
158	Antibacterial properties of PEKK for orthopedic applications. *International Journal of Nanomedicine*, **2017**, 12, 6471-6476	7.3	23
157	Multi-scale strategy to eradicate Pseudomonas aeruginosa on surfaces using solid lipid nanoparticles loaded with free fatty acids. *Nanoscale*, **2014**, 6, 825-32	7.7	23
156	Novel kojic acid-polymer-based magnetic nanocomposites for medical applications. *International Journal of Nanomedicine*, **2014**, 9, 351-62	7.3	23
155	Synthesis and microstructural characterization of nano-size calcium phosphates with different stoichiometry. *Ceramics International*, **2011**, 37, 971-977	5.1	23
154	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

153	Control of macrophage responses on hydrophobic and hydrophilic carbon nanostructures. *Carbon*, **2011**, 49, 2092-2103	10.4	23
152	Monte Carlo and analytic simulations in nanoparticle-enhanced radiation therapy. *International Journal of Nanomedicine*, **2016**, 11, 4735-4741	7.3	23
151	Lubricin: a novel means to decrease bacterial adhesion and proliferation. *Journal of Biomedical Materials Research - Part A*, **2015**, 103, 451-62	5.4	22
150	Greater osteoblast long-term functions on ionic plasma deposited nanostructured orthopedic implant coatings. *Journal of Biomedical Materials Research - Part A*, **2008**, 87, 78-83	5.4	22
149	Control of spatial cell attachment on carbon nanofiber patterns on polycarbonate urethane. *International Journal of Nanomedicine*, **2006**, 1, 361-5	7.3	21
148	Enhanced tumor delivery and antitumor response of doxorubicin-loaded albumin nanoparticles formulated based on a Schiff base. *International Journal of Nanomedicine*, **2016**, 11, 3875-90	7.3	21
147	Novel nano-rough polymers for cartilage tissue engineering. *International Journal of Nanomedicine*, **2014**, 9, 1845-53	7.3	20
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144	The use of superparamagnetic nanoparticles for prosthetic biofilm prevention. *International Journal of Nanomedicine*, **2009**, 145	7.3	20
143	Influence of biologically inspired nanometer surface roughness on antigen-antibody interactions for immunoassay-biosensor applications. *International Journal of Nanomedicine*, **2006**, 1, 497-505	7.3	20
142	Atomic Layer Deposition Coating of TiO Nano-Thin Films on Magnesium-Zinc Alloys to Enhance Cytocompatibility for Bioresorbable Vascular Stents. *International Journal of Nanomedicine*, **2019**, 14, 9955-9970	7.3	20
141	Reduced adhesion of Staphylococcus aureus to ZnO/PVC nanocomposites. *International Journal of Nanomedicine*, **2013**, 8, 1177-84	7.3	19
140	Nanostructured polyurethane-poly-lactic-co-glycolic acid scaffolds increase bladder tissue regeneration: an in vivo study. *International Journal of Nanomedicine*, **2013**, 8, 3285-96	7.3	19
139	Comparison of quantification methods illustrates reduced Pseudomonas aeruginosa activity on nanorough polyvinyl chloride. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2011**, 98, 1-7	3.5	19
138	Technological advances in nanoscale biomaterials: the future of synthetic vascular graft design. *Expert Review of Medical Devices*, **2004**, 1, 259-68	3.5	19
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136	Similar healthy osteoclast and osteoblast activity on nanocrystalline hydroxyapatite and nanoparticles of tri-calcium phosphate compared to natural bone. *International Journal of Nanomedicine*, **2014**, 9, 5627-37	7.3	18

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