Hae-Won Kim

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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.

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#	Paper	IF	Citations
446	Improved biological performance of Ti implants due to surface modification by micro-arc oxidation. <i>Biomaterials</i> , 2004 , 25, 2867-75	15.6	550
445	Hydroxyapatite/poly(epsilon-caprolactone) composite coatings on hydroxyapatite porous bone scaffold for drug delivery. <i>Biomaterials</i> , 2004 , 25, 1279-87	15.6	435
444	Solgel based materials for biomedical applications. <i>Progress in Materials Science</i> , 2016 , 77, 1-79	42.2	430
443	Electrospun materials as potential platforms for bone tissue engineering. <i>Advanced Drug Delivery Reviews</i> , 2009 , 61, 1065-83	18.5	388
442	Stimulation of osteoblast responses to biomimetic nanocomposites of gelatin-hydroxyapatite for tissue engineering scaffolds. <i>Biomaterials</i> , 2005 , 26, 5221-30	15.6	381
441	Fibroblast growth factors: biology, function, and application for tissue regeneration. <i>Journal of Tissue Engineering</i> , 2010 , 2010, 218142	7.5	326
440	Hydroxyapatite coating on titanium substrate with titania buffer layer processed by sol-gel method. <i>Biomaterials</i> , 2004 , 25, 2533-8	15.6	309
439	Size-dependent cellular toxicity of silver nanoparticles. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 1033-43	5.4	305
438	Nanofiber Generation of Gelatin Hydroxyapatite Biomimetics for Guided Tissue Regeneration. <i>Advanced Functional Materials</i> , 2005 , 15, 1988-1994	15.6	305
437	Electrospinning biomedical nanocomposite fibers of hydroxyapatite/poly(lactic acid) for bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 79, 643-9	5.4	291
436	CRISPR/Cas9-Based Genome Editing for Disease Modeling and Therapy: Challenges and Opportunities for Nonviral Delivery. <i>Chemical Reviews</i> , 2017 , 117, 9874-9906	68.1	287
435	Naturally and synthetic smart composite biomaterials for tissue regeneration. <i>Advanced Drug Delivery Reviews</i> , 2013 , 65, 471-96	18.5	253
434	Production and Potential of Bioactive Glass Nanofibers as a Next-Generation Biomaterial. <i>Advanced Functional Materials</i> , 2006 , 16, 1529-1535	15.6	221
433	Membrane of hybrid chitosan-silica xerogel for guided bone regeneration. <i>Biomaterials</i> , 2009 , 30, 743-5	50 15.6	212
432	Silica-based mesoporous nanoparticles for controlled drug delivery. <i>Journal of Tissue Engineering</i> , 2013 , 4, 2041731413503357	7.5	205
431	Fluor-hydroxyapatite sol-gel coating on titanium substrate for hard tissue implants. <i>Biomaterials</i> , 2004 , 25, 3351-8	15.6	183
430	Bone formation controlled by biologically relevant inorganic ions: role and controlled delivery from phosphate-based glasses. <i>Advanced Drug Delivery Reviews</i> , 2013 , 65, 405-20	18.5	177

429	Carbon-based nanomaterials as an emerging platform for theranostics. <i>Materials Horizons</i> , 2019 , 6, 434	-4694	173
428	Advanced drug delivery systems and artificial skin grafts for skin wound healing. <i>Advanced Drug Delivery Reviews</i> , 2019 , 146, 209-239	18.5	170
427	Porous ZrO2 bone scaffold coated with hydroxyapatite with fluorapatite intermediate layer. <i>Biomaterials</i> , 2003 , 24, 3277-84	15.6	164
426	Magnetic nanocomposite scaffolds combined with static magnetic field in the stimulation of osteoblastic differentiation and bone formation. <i>Biomaterials</i> , 2016 , 85, 88-98	15.6	159
425	Hydroxyapatite porous scaffold engineered with biological polymer hybrid coating for antibiotic Vancomycin release. <i>Journal of Materials Science: Materials in Medicine</i> , 2005 , 16, 189-95	4.5	159
424	Silk scaffolds in bone tissue engineering: An overview. <i>Acta Biomaterialia</i> , 2017 , 63, 1-17	10.8	158
423	Hydroxyapatite and gelatin composite foams processed via novel freeze-drying and crosslinking for use as temporary hard tissue scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2005 , 72, 136-	45 ^{.4}	151
422	Production of electrospun gelatin nanofiber by water-based co-solvent approach. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 95-102	4.5	141
421	In vitro/in vivo biocompatibility and mechanical properties of bioactive glass nanofiber and poly(epsilon-caprolactone) composite materials. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009 , 91, 213-20	3.5	133
420	Smart multifunctional drug delivery towards anticancer therapy harmonized in mesoporous nanoparticles. <i>Nanoscale</i> , 2015 , 7, 14191-216	7.7	129
419	Tissue engineering in dentistry. <i>Journal of Dentistry</i> , 2014 , 42, 915-28	4.8	127
418	Direct deposited porous scaffolds of calcium phosphate cement with alginate for drug delivery and bone tissue engineering. <i>Acta Biomaterialia</i> , 2011 , 7, 3178-86	10.8	124
417	Brittle Fracture versus Quasi Plasticity in Ceramics: A Simple Predictive Index. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 561-565	3.8	124
416	Collagen hydrogels incorporated with surface-aminated mesoporous nanobioactive glass: Improvement of physicochemical stability and mechanical properties is effective for hard tissue engineering. <i>Acta Biomaterialia</i> , 2013 , 9, 9508-21	10.8	123
415	Densification and Mechanical Properties of B4C with Al2O3 as a Sintering Aid. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 2863-2865	3.8	123
414	Porous scaffolds of gelatin-hydroxyapatite nanocomposites obtained by biomimetic approach: characterization and antibiotic drug release. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2005 , 74, 686-98	3.5	123
413	Core-shell designed scaffolds for drug delivery and tissue engineering. <i>Acta Biomaterialia</i> , 2015 , 21, 2-1	9 10.8	120
412	Evaluation of decellularization protocols for production of tubular small intestine submucosa scaffolds for use in oesophageal tissue engineering. <i>Acta Biomaterialia</i> , 2014 , 10, 5043-5054	10.8	119

411	Nanofibrous matrices of poly(lactic acid) and gelatin polymeric blends for the improvement of cellular responses. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 87, 25-32	5.4	118
410	A short review: Recent advances in electrospinning for bone tissue regeneration. <i>Journal of Tissue Engineering</i> , 2012 , 3, 2041731412443530	7.5	117
409	Bioactivity and osteoblast responses of novel biomedical nanocomposites of bioactive glass nanofiber filled poly(lactic acid). <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 85, 651-63	5.4	116
408	Improvement in biocompatibility of ZrO2-Al2O3 nano-composite by addition of HA. <i>Biomaterials</i> , 2005 , 26, 509-17	15.6	116
407	Potential of magnetic nanofiber scaffolds with mechanical and biological properties applicable for bone regeneration. <i>PLoS ONE</i> , 2014 , 9, e91584	3.7	114
406	Sol-gel derived fluor-hydroxyapatite biocoatings on zirconia substrate. <i>Biomaterials</i> , 2004 , 25, 2919-26	15.6	113
405	Therapeutic-designed electrospun bone scaffolds: mesoporous bioactive nanocarriers in hollow fiber composites to sequentially deliver dual growth factors. <i>Acta Biomaterialia</i> , 2015 , 16, 103-16	10.8	112
404	Highly porous hydroxyapatite bioceramics with interconnected pore channels using camphene-based freeze casting. <i>Materials Letters</i> , 2007 , 61, 2270-2273	3.3	111
403	Biocompatibility of titanium implants modified by microarc oxidation and hydroxyapatite coating. Journal of Biomedical Materials Research - Part A, 2005 , 73, 48-54	5.4	111
402	Emerging properties of hydrogels in tissue engineering. <i>Journal of Tissue Engineering</i> , 2018 , 9, 2041731	4 / 1. § 768	8285
401	Capacity of mesoporous bioactive glass nanoparticles to deliver therapeutic molecules. <i>Nanoscale</i> , 2012 , 4, 7475-88	7.7	110
400	Neurite outgrowth of dorsal root ganglia neurons is enhanced on aligned nanofibrous biopolymer scaffold with carbon nanotube coating. <i>Neuroscience Letters</i> , 2011 , 501, 10-4	3.3	108
399	Osteoinductive fibrous scaffolds of biopolymer/mesoporous bioactive glass nanocarriers with excellent bioactivity and long-term delivery of osteogenic drug. <i>ACS Applied Materials & Materials & Interfaces</i> , 2015 , 7, 1140-52	9.5	107
398	Bioactive glass nanofiber-collagen nanocomposite as a novel bone regeneration matrix. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 79, 698-705	5.4	107
397	Promoting angiogenesis with mesoporous microcarriers through a synergistic action of delivered silicon ion and VEGF. <i>Biomaterials</i> , 2017 , 116, 145-157	15.6	102
396	Mesoporous bioactive glasses: Promising platforms for antibacterial strategies. <i>Acta Biomaterialia</i> , 2018 , 81, 1-19	10.8	99
395	Effect of Polystyrene Addition on Freeze Casting of Ceramic/Camphene Slurry for Ultra-High Porosity Ceramics with Aligned Pore Channels. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 3646-	3 6 53	97
394	Effect of CaF2 on densification and properties of hydroxyapatite-zirconia composites for biomedical applications. <i>Biomaterials</i> , 2002 , 23, 4113-21	15.6	96

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393	Contact-induced Damage in Ceramic Coatings on Compliant Substrates: Fracture Mechanics and Design. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 1066-1072	3.8	96
392	Development of hydroxyapatite bone scaffold for controlled drug release via poly(epsilon-caprolactone) and hydroxyapatite hybrid coatings. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 70, 240-9		95
391	Effect of fluoridation of hydroxyapatite in hydroxyapatite-polycaprolactone composites on osteoblast activity. <i>Biomaterials</i> , 2005 , 26, 4395-404	15.6	93
390	Polymeric additives to enhance the functional properties of calcium phosphate cements. <i>Journal of Tissue Engineering</i> , 2012 , 3, 2041731412439555	7.5	92
389	Multifunctional hybrid nanocarrier: magnetic CNTs ensheathed with mesoporous silica for drug delivery and imaging system. <i>ACS Applied Materials & amp; Interfaces</i> , 2014 , 6, 2201-8	9.5	87
388	Bioactivity improvement of poly(epsilon-caprolactone) membrane with the addition of nanofibrous bioactive glass. <i>Acta Biomaterialia</i> , 2008 , 4, 622-9	10.8	86
387	Triple Hit with Drug Carriers: pH- and Temperature-Responsive Theranostics for Multimodal Chemo- and Photothermal Therapy and Diagnostic Applications. <i>ACS Applied Materials & Amp; Interfaces</i> , 2016 , 8, 8967-79	9.5	85
386	Progress in Nanotheranostics Based on Mesoporous Silica Nanomaterial Platforms. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 10309-10337	9.5	84
385	Strontium substituted calcium phosphate biphasic ceramics obtained by a powder precipitation method. <i>Journal of Materials Science: Materials in Medicine</i> , 2004 , 15, 1129-34	4.5	84
384	Biomedical nanocomposites of hydroxyapatite/polycaprolactone obtained by surfactant mediation. Journal of Biomedical Materials Research - Part A, 2007, 83, 169-77	5.4	83
383	Biocompatible magnetite nanoparticles with varying silica-coating layer for use in biomedicine: physicochemical and magnetic properties, and cellular compatibility. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 1734-42	5.4	81
382	Apatite-mineralized polycaprolactone nanofibrous web as a bone tissue regeneration substrate. Journal of Biomedical Materials Research - Part A, 2009 , 88, 747-54	5.4	81
381	Carbon-nanotube-interfaced glass fiber scaffold for regeneration of transected sciatic nerve. <i>Acta Biomaterialia</i> , 2015 , 13, 324-34	10.8	8o
380	Fluoridated apatite coatings on titanium obtained by electron-beam deposition. <i>Biomaterials</i> , 2005 , 26, 3843-51	15.6	80
379	A bioactive coating of a silica xerogel/chitosan hybrid on titanium by a room temperature sol-gel process. <i>Acta Biomaterialia</i> , 2010 , 6, 302-7	10.8	79
378	Therapeutically relevant aspects in bone repair and regeneration. <i>Materials Today</i> , 2015 , 18, 573-589	21.8	78
377	Electrospun fibrous web of collagen-apatite precipitated nanocomposite for bone regeneration. Journal of Materials Science: Materials in Medicine, 2008, 19, 2925-32	4.5	78
376	Magnetic scaffolds of polycaprolactone with functionalized magnetite nanoparticles: physicochemical, mechanical, and biological properties effective for bone regeneration. <i>RSC Advances</i> , 2014 , 4, 17325-17336	3.7	77

375	Hydroxyapatite and titania sol-gel composite coatings on titanium for hard tissue implants; mechanical and in vitro biological performance. <i>Journal of Biomedical Materials Research Part B</i> , 2005 , 72, 1-8		76
374	Calcium phosphates and glass composite coatings on zirconia for enhanced biocompatibility. <i>Biomaterials</i> , 2004 , 25, 4203-13	15.6	74
373	Utilizing core-shell fibrous collagen-alginate hydrogel cell delivery system for bone tissue engineering. <i>Tissue Engineering - Part A</i> , 2014 , 20, 103-14	3.9	73
372	A mini review focused on the proangiogenic role of silicate ions released from silicon-containing biomaterials. <i>Journal of Tissue Engineering</i> , 2017 , 8, 2041731417707339	7.5	72
371	Controlling oxygen release from hollow microparticles for prolonged cell survival under hypoxic environment. <i>Biomaterials</i> , 2015 , 53, 583-91	15.6	72
370	Hydroxyapatite-TiO2 hybrid coating on Ti implants. <i>Journal of Biomaterials Applications</i> , 2006 , 20, 195-2	. 0.8 9	72
369	Functional composite nanofibers of poly(lactide-co-caprolactone) containing gelatin-apatite bone mimetic precipitate for bone regeneration. <i>Acta Biomaterialia</i> , 2011 , 7, 1609-17	10.8	70
368	Therapeutic bioactive microcarriers: co-delivery of growth factors and stem cells for bone tissue engineering. <i>Acta Biomaterialia</i> , 2014 , 10, 520-30	10.8	68
367	Novel therapeutic core-shell hydrogel scaffolds with sequential delivery of cobalt and bone morphogenetic protein-2 for synergistic bone regeneration. <i>Acta Biomaterialia</i> , 2015 , 23, 295-308	10.8	68
366	ChitosanBanobioactive glass electrophoretic coatings with bone regenerative and drug delivering potential. <i>Journal of Materials Chemistry</i> , 2012 , 22, 24945		68
365	Stability and cellular responses to fluorapatite-collagen composites. <i>Biomaterials</i> , 2005 , 26, 2957-63	15.6	68
364	Mesoporous silica-layered biopolymer hybrid nanofibrous scaffold: a novel nanobiomatrix platform for therapeutics delivery and bone regeneration. <i>ACS Applied Materials & Design Communication</i> , 7, 8088-	98 ^{.5}	67
363	Carbon nanotube-collagen three-dimensional culture of mesenchymal stem cells promotes expression of neural phenotypes and secretion of neurotrophic factors. <i>Acta Biomaterialia</i> , 2014 , 10, 4425-36	10.8	66
362	Biofunctionalized carbon nanotubes in neural regeneration: a mini-review. <i>Nanoscale</i> , 2013 , 5, 487-97	7.7	66
361	Microcarriers designed for cell culture and tissue engineering of bone. <i>Tissue Engineering - Part B: Reviews</i> , 2013 , 19, 172-90	7.9	66
360	Collagen-apatite nanocomposite membranes for guided bone regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2007 , 83, 248-57	3.5	66
359	Strategies for osteochondral repair: Focus on scaffolds. <i>Journal of Tissue Engineering</i> , 2014 , 5, 2041731	4 7 4541	18550
358	Angiogenesis in bone regeneration: tailored calcium release in hybrid fibrous scaffolds. <i>ACS Applied Materials & District Amp; Interfaces</i> , 2014 , 6, 7512-22	9.5	64

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357	Composite nanofiber of bioactive glass nanofiller incorporated poly(lactic acid) for bone regeneration. <i>Materials Letters</i> , 2010 , 64, 802-805	3.3	64
356	Microspheres of collagen-apatite nanocomposites with osteogenic potential for tissue engineering. <i>Tissue Engineering</i> , 2007 , 13, 965-73		62
355	Pressureless Sintering and Mechanical and Biological Properties of Fluor-hydroxyapatite Composites with Zirconia. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 2019-2026	3.8	62
354	Silk fibroin/collagen protein hybrid cell-encapsulating hydrogels with tunable gelation and improved physical and biological properties. <i>Acta Biomaterialia</i> , 2018 , 69, 218-233	10.8	61
353	Effects of fibroblast growth factor-2 on the expression and regulation of chemokines in human dental pulp cells. <i>Journal of Endodontics</i> , 2010 , 36, 1824-30	4.7	61
352	Initial responses of human osteoblasts to sol-gel modified titanium with hydroxyapatite and titania composition. <i>Acta Biomaterialia</i> , 2006 , 2, 547-56	10.8	61
351	Nanotechnology in dentistry: prevention, diagnosis, and therapy. <i>International Journal of Nanomedicine</i> , 2015 , 10, 6371-94	7.3	60
350	Nanofiber generation of hydroxyapatite and fluor-hydroxyapatite bioceramics. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2006 , 77, 323-8	3.5	58
349	Silk fibroin nanoparticles support in vitro sustained antibiotic release and osteogenesis on titanium surface. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 1193-204	6	57
348	Intracellular co-delivery of Sr ion and phenamil drug through mesoporous bioglass nanocarriers synergizes BMP signaling and tissue mineralization. <i>Acta Biomaterialia</i> , 2017 , 60, 93-108	10.8	57
347	Titanium phosphate glass microspheres for bone tissue engineering. Acta Biomaterialia, 2012, 8, 4181-9	90 0.8	56
346	Effects on growth and osteogenic differentiation of mesenchymal stem cells by the zinc-added sol-gel bioactive glass granules. <i>Journal of Tissue Engineering</i> , 2011 , 2010, 475260	7.5	56
345	Collagen three-dimensional hydrogel matrix carrying basic fibroblast growth factor for the cultivation of mesenchymal stem cells and osteogenic differentiation. <i>Tissue Engineering - Part A</i> , 2012 , 18, 1087-100	3.9	56
344	Fibrillar assembly and stability of collagen coating on titanium for improved osteoblast responses. Journal of Biomedical Materials Research - Part A, 2005 , 75, 629-38	5.4	56
343	Degradation and drug release of phosphate glass/polycaprolactone biological composites for hard-tissue regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2005 , 75, 34-41	3.5	56
342	Tissue engineering polymeric microcarriers with macroporous morphology and bone-bioactive surface. <i>Macromolecular Bioscience</i> , 2009 , 9, 639-45	5.5	55
341	Effect of Flaw State on the Strength of Brittle Coatings on Soft Substrates. <i>Journal of the American Ceramic Society</i> , 2004 , 84, 2377-2384	3.8	55
340	Biomedical applications of nanoceria: new roles for an old player. <i>Nanomedicine</i> , 2018 , 13, 3051-3069	5.6	55

339	Non-mulberry silk fibroin grafted PCL nanofibrous scaffold: Promising ECM for bone tissue engineering. <i>European Polymer Journal</i> , 2015 , 71, 490-509	5.2	54
338	Gene delivery nanocarriers of bioactive glass with unique potential to load BMP2 plasmid DNA and to internalize into mesenchymal stem cells for osteogenesis and bone regeneration. <i>Nanoscale</i> , 2016 , 8, 8300-11	7.7	54
337	Nanofibrous membrane of collagen-polycaprolactone for cell growth and tissue regeneration. Journal of Materials Science: Materials in Medicine, 2009 , 20, 1927-35	4.5	54
336	Silica-based multifunctional nanodelivery systems toward regenerative medicine. <i>Materials Horizons</i> , 2017 , 4, 772-799	14.4	53
335	Hierarchical microchanneled scaffolds modulate multiple tissue-regenerative processes of immune-responses, angiogenesis, and stem cell homing. <i>Biomaterials</i> , 2020 , 227, 119548	15.6	53
334	Optical imaging and anticancer chemotherapy through carbon dot created hollow mesoporous silica nanoparticles. <i>Acta Biomaterialia</i> , 2017 , 55, 466-480	10.8	52
333	Nano-graphene oxide incorporated into PMMA resin to prevent microbial adhesion. <i>Dental Materials</i> , 2018 , 34, e63-e72	5.7	52
332	Bone tissue engineering of induced pluripotent stem cells cultured with macrochanneled polymer scaffold. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 1283-91	5.4	51
331	Biomimetic approach to dental implants. Current Pharmaceutical Design, 2008, 14, 2201-11	3.3	51
330	Effect of biphasic calcium phosphates on drug release and biological and mechanical properties of poly(epsilon-caprolactone) composite membranes. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 70, 467-79		51
329	Robocasting nanocomposite scaffolds of poly(caprolactone)/hydroxyapatite incorporating modified carbon nanotubes for hard tissue reconstruction. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 1670-81	5.4	50
328	Sol-gel synthesis and electrospraying of biodegradable (P2O5)55-(CaO)30-(Na2O)15 glass nanospheres as a transient contrast agent for ultrasound stem cell imaging. <i>ACS Nano</i> , 2015 , 9, 1868-18	877 ^{.7}	50
327	Effect of calcium phosphate cements on growth and odontoblastic differentiation in human dental pulp cells. <i>Journal of Endodontics</i> , 2010 , 36, 1537-42	4.7	50
326	Bioactive and degradable hybridized nanofibers of gelatin-siloxane for bone regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 84, 875-84	5.4	49
325	Drug/ion co-delivery multi-functional nanocarrier to regenerate infected tissue defect. <i>Biomaterials</i> , 2017 , 142, 62-76	15.6	48
324	Efficacy of mesoporous silica nanoparticles in delivering BMP-2 plasmid DNA for in vitro osteogenic stimulation of mesenchymal stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 16	5∮ -6 0	48
323	Porous Hydroxyapatite Scaffolds Coated With Bioactive Apatite Wollastonite Glass Ceramics. Journal of the American Ceramic Society, 2007 , 90, 2703-2708	3.8	48
322	Robocasting chitosan/nanobioactive glass dual-pore structured scaffolds for bone engineering. <i>Materials Letters</i> , 2012 , 73, 119-122	3.3	47

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321	Odontogenic responses of human dental pulp cells to collagen/nanobioactive glass nanocomposites. <i>Dental Materials</i> , 2012 , 28, 1271-9	5.7	47	
320	Advances in nanoparticle development for improved therapeutics delivery: nanoscale topographical aspect. <i>Journal of Tissue Engineering</i> , 2019 , 10, 2041731419877528	7.5	46	
319	Generating iPSCs: translating cell reprogramming science into scalable and robust biomanufacturing strategies. <i>Cell Stem Cell</i> , 2015 , 16, 13-7	18	45	
318	Bioprocess forces and their impact on cell behavior: implications for bone regeneration therapy. Journal of Tissue Engineering, 2011 , 2011, 620247	7.5	45	
317	Odontogenic differentiation of human dental pulp stem cells stimulated by the calcium phosphate porous granules. <i>Journal of Tissue Engineering</i> , 2011 , 2011, 812547	7.5	45	
316	Silica xerogel-chitosan nano-hybrids for use as drug eluting bone replacement. <i>Journal of Materials Science: Materials in Medicine</i> , 2010 , 21, 207-14	4.5	45	
315	The effect of mesenchymal stem cell transplantation on the recovery of bladder and hindlimb function after spinal cord contusion in rats. <i>BMC Neuroscience</i> , 2010 , 11, 119	3.2	45	
314	Hydroxyapatite and fluor-hydroxyapatite layered film on titanium processed by a sol-gel route for hard-tissue implants. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 71, 66-76		45	
313	Sol-gel-modified titanium with hydroxyapatite thin films and effect on osteoblast-like cell responses. <i>Journal of Biomedical Materials Research - Part A</i> , 2005 , 74, 294-305	5.4	45	
312	Nanocements produced from mesoporous bioactive glass nanoparticles. <i>Biomaterials</i> , 2018 , 162, 183-1	99 5.6	44	
311	Novel magnetic nanocomposite injectables: calcium phosphate cements impregnated with ultrafine magnetic nanoparticles for bone regeneration. <i>RSC Advances</i> , 2015 , 5, 13411-13419	3.7	44	
310	Enhanced performance of fluorine substituted hydroxyapatite composites for hard tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2003 , 14, 899-904	4.5	44	
309	Electrospun Nanofibers for Improved Angiogenesis: Promises for Tissue Engineering Applications. <i>Nanomaterials</i> , 2020 , 10,	5.4	44	
308	Prospects of peripheral nerve tissue engineering using nerve guide conduits based on silk fibroin protein and other biopolymers. <i>International Materials Reviews</i> , 2017 , 62, 367-391	16.1	43	
307	Dissolution control and cellular responses of calcium phosphate coatings on zirconia porous scaffold. <i>Journal of Biomedical Materials Research Part B</i> , 2004 , 68, 522-30		43	
306	Development of long-term antimicrobial poly(methyl methacrylate) by incorporating mesoporous silica nanocarriers. <i>Dental Materials</i> , 2016 , 32, 1564-1574	5.7	43	
305	Synergetic Cues of Bioactive Nanoparticles and Nanofibrous Structure in Bone Scaffolds to Stimulate Osteogenesis and Angiogenesis. <i>ACS Applied Materials & District Applied Materials & Distr</i>	9.5	42	
304	Nanoparticle-mediated inhibition of survivin to overcome drug resistance in cancer therapy. <i>Journal of Controlled Release</i> , 2016 , 240, 454-464	11.7	42	

303	Functional Recovery of Contused Spinal Cord in Rat with the Injection of Optimal-Dosed Cerium Oxide Nanoparticles. <i>Advanced Science</i> , 2017 , 4, 1700034	13.6	42
302	Non-thermal atmospheric pressure plasma functionalized dental implant for enhancement of bacterial resistance and osseointegration. <i>Dental Materials</i> , 2017 , 33, 257-270	5.7	41
301	Sol-gel-derived bioactive glass nanoparticle-incorporated glass ionomer cement with or without chitosan for enhanced mechanical and biomineralization properties. <i>Dental Materials</i> , 2017 , 33, 805-817	, 5.7	41
300	Advanced biomatrix designs for regenerative therapy of periodontal tissues. <i>Journal of Dental Research</i> , 2014 , 93, 1203-11	8.1	41
299	Collagen gel three-dimensional matrices combined with adhesive proteins stimulate neuronal differentiation of mesenchymal stem cells. <i>Journal of the Royal Society Interface</i> , 2011 , 8, 998-1010	4.1	41
298	Bone formation on the apatite-coated zirconia porous scaffolds within a rabbit calvarial defect. <i>Journal of Biomaterials Applications</i> , 2008 , 22, 485-504	2.9	41
297	Surface guidance of stem cell behavior: Chemically tailored co-presentation of integrin-binding peptides stimulates osteogenic differentiation in vitro and bone formation in vivo. <i>Acta Biomaterialia</i> , 2016 , 43, 269-281	10.8	40
296	A novel therapeutic design of microporous-structured biopolymer scaffolds for drug loading and delivery. <i>Acta Biomaterialia</i> , 2014 , 10, 1238-50	10.8	39
295	Development of biocompatible apatite nanorod-based drug-delivery system with in situ fluorescence imaging capacity. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 2039-2050	7.3	39
294	Biomedical nanocomposites of poly(lactic acid) and calcium phosphate hybridized with modified carbon nanotubes for hard tissue implants. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011 , 98, 246-54	3.5	39
293	Biointerface control of electrospun fiber scaffolds for bone regeneration: engineered protein link to mineralized surface. <i>Acta Biomaterialia</i> , 2014 , 10, 2750-61	10.8	38
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