Hae-Won Kim

List of Publications by Year in Descending Order

446 papers	20,519 citations	73 h-index	119 g-index
463 ext. papers	23,361 ext. citations	7 avg, IF	7.28 L-index

#	Paper	IF	Citations
446	TLR4 downregulation by the RNA-binding protein PUM1 alleviates cellular aging and osteoarthritis.. *Cell Death and Differentiation*, **2022**,	12.7	1
445	Recent advances in drug delivery systems for glaucoma treatment. *Materials Today Nano*, **2022**, 100178	9.7	6
444	CRISPR-Cas12a-regulated DNA adsorption and metallization on MXenes as enhanced enzyme mimics for sensitive colorimetric detection of hepatitis B virus DNA.. *Journal of Colloid and Interface Science*, **2022**, 613, 406-414	9.3	6
443	Multifunctional GelMA platforms with nanomaterials for advanced tissue therapeutics. *Bioactive Materials*, **2022**, 8, 267-295	16.7	30
442	Restoration of olfactory dysfunctions by nanomaterials and stem cells-based therapies: Current status and future perspectives.. *Journal of Tissue Engineering*, **2022**, 13, 20417314221083414	7.5	1
441	Tuning the properties of inorganic nanomaterials for theranostic applications in infectious diseases: Carbon nanotubes, quantum dots, graphene, and mesoporous carbon nanoparticles **2022**, 319-352		
440	Inorganic nanomaterials for improved angiogenesis **2022**, 335-359		
439	Leveraging cellular mechano-responsiveness for cancer therapy.. *Trends in Molecular Medicine*, **2021** ,	11.5	2
438	Investigating the mechanophysical and biological characteristics of therapeutic dental cement incorporating copper doped bioglass nanoparticles.. *Dental Materials*, **2021**, 38, 363-363	5.7	3
437	Carbon nanomaterials as emerging nanotherapeutic platforms to tackle the rising tide of cancer - A review. *Bioorganic and Medicinal Chemistry*, **2021**, 51, 116493	3.4	4
436	Freeform 3D printing of vascularized tissues: Challenges and strategies. *Journal of Tissue Engineering*, **2021**, 12, 20417314211057236	7.5	3
435	A Study on Myogenesis by Regulation of Reactive Oxygen Species and Cytotoxic Activity by Selenium Nanoparticles. *Antioxidants*, **2021**, 10,	7.1	2
434	Utilization of GelMA with phosphate glass fibers for glial cell alignment. *Journal of Biomedical Materials Research - Part A*, **2021**, 109, 2212-2224	5.4	4
433	Mussel Inspired Chemistry and Bacteria Derived Polymers for Oral Mucosal Adhesion and Drug Delivery. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 663764	5.8	2
432	Scaffold-mediated CRISPR-Cas9 delivery system for acute myeloid leukemia therapy. *Science Advances*, **2021**, 7,	14.3	15
431	The eggshell membrane: A potential biomaterial for corneal wound healing. *Journal of Biomaterials Applications*, **2021**, 36, 912-929	2.9	4
430	Research Models of the Nanoparticle-Mediated Drug Delivery across the Blood-Brain Barrier. *Tissue Engineering and Regenerative Medicine*, **2021**, 18, 917-930	4.5	1

429	Spatiotemporal control of CRISPR/Cas9 gene editing. *Signal Transduction and Targeted Therapy*, **2021**, 6, 238	21	14
428	Iron ions-releasing mesoporous bioactive glass ultrasmall nanoparticles designed as ferroptosis-based bone cancer nanotherapeutics: Ultrasonic-coupled sol-gel synthesis, properties and iron ions release. *Materials Letters*, **2021**, 294, 129759	3.3	6
427	Protein-reactive nanofibrils decorated with cartilage-derived decellularized extracellular matrix for osteochondral defects. *Biomaterials*, **2021**, 269, 120214	15.6	20
426	Nanotherapeutics for regeneration of degenerated tissue infected by bacteria through the multiple delivery of bioactive ions and growth factor with antibacterial/angiogenic and osteogenic/odontogenic capacity. *Bioactive Materials*, **2021**, 6, 123-136	16.7	25
425	Materials roles for promoting angiogenesis in tissue regeneration. *Progress in Materials Science*, **2021**, 117, 100732	42.2	36
424	Ceria-Incorporated Biopolymer for Preventing Fungal Adhesion. *ACS Biomaterials Science and Engineering*, **2021**, 7, 1808-1816	5.5	1
423	Antibacterial, proangiogenic, and osteopromotive nanoglass paste coordinates regenerative process following bacterial infection in hard tissue. *Biomaterials*, **2021**, 268, 120593	15.6	14
422	Emerging biogenesis technologies of extracellular vesicles for tissue regenerative therapeutics. *Journal of Tissue Engineering*, **2021**, 12, 20417314211019015	7.5	4
421	Three dimensional porous scaffolds derived from collagen, elastin and fibrin proteins orchestrate adipose tissue regeneration. *Journal of Tissue Engineering*, **2021**, 12, 20417314211019238	7.5	3
420	The Effect of Selenium Nanoparticles on the Osteogenic Differentiation of MC3T3-E1 Cells. *Nanomaterials*, **2021**, 11,	5.4	5
419	Selenium Nanoparticles as Candidates for Antibacterial Substitutes and Supplements against Multidrug-Resistant Bacteria. *Biomolecules*, **2021**, 11,	5.9	9
418	Nano/micro-structured poly(?-caprolactone)/gelatin nanofibers with biomimetically-grown hydroxyapatite spherules: High protein adsorption, controlled protein delivery and sustained bioactive ions release designed as a multifunctional bone regenerative membrane. *Ceramics International*, **2021**, 47, 19873-19885	5.1	5
417	Mechanistic Pathways for the Molecular Step Growth of Calcium Oxalate Monohydrate Crystal Revealed by In Situ Liquid-Phase Atomic Force Microscopy. *ACS Applied Materials & Interfaces*, **2021**, 13, 37873-37882	9.5	0
416	Therapeutic tissue regenerative nanohybrids self-assembled from bioactive inorganic core / chitosan shell nanounits. *Biomaterials*, **2021**, 274, 120857	15.6	5
415	Electricity auto-generating skin patch promotes wound healing process by activation of mechanosensitive ion channels. *Biomaterials*, **2021**, 275, 120948	15.6	3
414	Dual actions of osteoclastic-inhibition and osteogenic-stimulation through strontium-releasing bioactive nanoscale cement imply biomaterial-enabled osteoporosis therapy. *Biomaterials*, **2021**, 276, 121025	15.6	13
413	Sol-gel synthesis and characterization of novel cobalt ions-containing mesoporous bioactive glass nanospheres as hypoxia and ferroptosis-inducing nanotherapeutics. *Journal of Non-Crystalline Solids*, **2021**, 569, 120999	3.9	0
412	Antioxidant cerium ions-containing mesoporous bioactive glass ultrasmall nanoparticles: Structural, physico-chemical, catalase-mimic and biological properties. *Colloids and Surfaces B: Biointerfaces*, **2021**, 206, 111932	6	2

411	Optimally dosed nanoceria attenuates osteoarthritic degeneration of joint cartilage and subchondral bone. *Chemical Engineering Journal*, **2021**, 422, 130066	14.7	2
410	Grapefruit Seed Extract as a Natural Derived Antibacterial Substance against Multidrug-Resistant Bacteria. *Antibiotics*, **2021**, 10,	4.9	6
409	Molecularly Imprinted Polymers and Electrospinning: Manufacturing Convergence for Next-Level Applications. *Advanced Functional Materials*, **2020**, 30, 2001955	15.6	21
408	Mechanophysical and biological properties of a 3D-printed titanium alloy for dental applications. *Dental Materials*, **2020**, 36, 945-958	5.7	20
407	Coating biopolymer nanofibers with carbon nanotubes accelerates tissue healing and bone regeneration through orchestrated cell- and tissue-regulatory responses. *Acta Biomaterialia*, **2020**, 108, 97-110	10.8	27
406	Targeting with nanoparticles for the therapeutic treatment of brain diseases. *Journal of Tissue Engineering*, **2020**, 11, 2041731419897460	7.5	19
405	3D culture technologies of cancer stem cells: promising ex vivo tumor models. *Journal of Tissue Engineering*, **2020**, 11, 2041731420933407	7.5	24
404	Nanoscale Calcium Salt-Based Formulations As Potential Therapeutics for Osteoporosis. *ACS Biomaterials Science and Engineering*, **2020**, 6, 4604-4613	5.5	4
403	Revascularization and limb salvage following critical limb ischemia by nanoceria-induced Ref-1/APE1-dependent angiogenesis. *Biomaterials*, **2020**, 242, 119919	15.6	29
402	Nano-graphene oxide/polyurethane nanofibers: mechanically flexible and myogenic stimulating matrix for skeletal tissue engineering. *Journal of Tissue Engineering*, **2020**, 11, 2041731419900424	7.5	29
401	Label-Free Fluorescent Mesoporous Bioglass for Drug Delivery, Optical Triple-Mode Imaging, and Photothermal/Photodynamic Synergistic Cancer Therapy.. *ACS Applied Bio Materials*, **2020**, 3, 2218-2229	4.1	16
400	Decellularized brain matrix enhances macrophage polarization and functional improvements in rat spinal cord injury. *Acta Biomaterialia*, **2020**, 101, 357-371	10.8	28
399	Novel bone-mimetic nanohydroxyapatite/collagen porous scaffolds biomimetically mineralized from surface silanized mesoporous nanobioglass/collagen hybrid scaffold: Physicochemical, mechanical and in vivo evaluations. *Materials Science and Engineering C*, **2020**, 110, 110660	8.3	23
398	Development of Bis-GMA-free biopolymer to avoid estrogenicity. *Dental Materials*, **2020**, 36, 157-166	5.7	4
397	RNA interference in glial cells for nerve injury treatment. *Journal of Tissue Engineering*, **2020**, 11, 2041731420939224	7.5	39
396	Biomedical Waste Management by Using Nanophotocatalysts: The Need for New Options. *Materials*, **2020**, 13,	3.5	14
395	Characterisation of osteogenic and vascular responses of hMSCs to Ti-Co doped phosphate glass microspheres using a microfluidic perfusion platform. *Journal of Tissue Engineering*, **2020**, 11, 2041731420954712	7.5	19
394	Quantum Dots: A Review from Concept to Clinic. *Biotechnology Journal*, **2020**, 15, e2000117	5.6	33

393	"Hard" ceramics for "Soft" tissue engineering: Paradox or opportunity?. *Acta Biomaterialia*, **2020**, 115, 1-28	10.8	27
392	Electrospun Nanofibers for Improved Angiogenesis: Promises for Tissue Engineering Applications. *Nanomaterials*, **2020**, 10,	5.4	44
391	Decellularized pulp matrix as scaffold for mesenchymal stem cell mediated bone regeneration. *Journal of Tissue Engineering*, **2020**, 11, 2041731420981672	7.5	5
390	Synthesis, Characterization, and 3D Printing of an Isosorbide-Based, Light-Curable, Degradable Polymer for Potential Application in Maxillofacial Reconstruction. *ACS Biomaterials Science and Engineering*, **2020**, 6, 2578-2587	5.5	3
389	Hierarchical microchanneled scaffolds modulate multiple tissue-regenerative processes of immune-responses, angiogenesis, and stem cell homing. *Biomaterials*, **2020**, 227, 119548	15.6	53
388	Comparative study of photoinitiators for the synthesis and 3D printing of a light-curable, degradable polymer for custom-fit hard tissue implants. *Biomedical Materials (Bristol)*, **2020**, 16, 015007	3.5	1
387	Advances in nanoparticle development for improved therapeutics delivery: nanoscale topographical aspect. *Journal of Tissue Engineering*, **2019**, 10, 2041731419877528	7.5	46
386	Mesoporous bioactive glasses (MBGs) in cancer therapy: Full of hope and promise. *Materials Letters*, **2019**, 251, 241-246	3.3	36
385	Carbon nanotube incorporation in PMMA to prevent microbial adhesion. *Scientific Reports*, **2019**, 9, 4921	4.9	31
384	Anti-inflammatory actions of folate-functionalized bioactive ion-releasing nanoparticles imply drug-free nanotherapy of inflamed tissues. *Biomaterials*, **2019**, 207, 23-38	15.6	29
383	Assessing behaviour of osteoblastic cells in dynamic culture conditions using titanium-doped phosphate glass microcarriers. *Journal of Tissue Engineering*, **2019**, 10, 2041731419825772	7.5	8
382	Control of stem cell response and bone growth on biomaterials by fully non-peptidic integrin selective ligands. *Biomaterials Science*, **2019**, 7, 1281-1285	7.4	8
381	Differential chondro- and osteo-stimulation in three-dimensional porous scaffolds with different topological surfaces provides a design strategy for biphasic osteochondral engineering. *Journal of Tissue Engineering*, **2019**, 10, 2041731419826433	7.5	15
380	SIS/aligned fibre scaffold designed to meet layered oesophageal tissue complexity and properties. *Acta Biomaterialia*, **2019**, 99, 181-195	10.8	17
379	Performance of a glucose-reactive enzyme-based biofuel cell system for biomedical applications. *Scientific Reports*, **2019**, 9, 10872	4.9	20
378	Ceria-incorporated MTA for accelerating odontoblastic differentiation via ROS downregulation. *Dental Materials*, **2019**, 35, 1291-1299	5.7	14
377	Characterization of an anti-foaming and fast-setting gypsum for dental stone. *Dental Materials*, **2019**, 35, 1728-1739	5.7	1
376	Evaluation of Strontium-Doped Nanobioactive Glass Cement for Dentin-Pulp Complex Regeneration Therapy. *ACS Biomaterials Science and Engineering*, **2019**, 5, 6117-6126	5.5	17

375	Depth-Dependent Cellular Response from Dental Bulk-Fill Resins in Human Dental Pulp Stem Cells. *Stem Cells International*, **2019**, 2019, 1251536	5	3
374	Combined Effects of Nanoroughness and Ions Produced by Electrodeposition of Mesoporous Bioglass Nanoparticle for Bone Regeneration.. *ACS Applied Bio Materials*, **2019**, 2, 5190-5203	4.1	11
373	Angiogenesis-promoted bone repair with silicate-shelled hydrogel fiber scaffolds. *Biomaterials Science*, **2019**, 7, 5221-5231	7.4	21
372	Advanced drug delivery systems and artificial skin grafts for skin wound healing. *Advanced Drug Delivery Reviews*, **2019**, 146, 209-239	18.5	170
371	Dual-ion delivery for synergistic angiogenesis and bactericidal capacity with silica-based microsphere. *Acta Biomaterialia*, **2019**, 83, 322-333	10.8	30
370	Role of nuclear mechanosensitivity in determining cellular responses to forces and biomaterials. *Biomaterials*, **2019**, 197, 60-71	15.6	28
369	Carbon-based nanomaterials as an emerging platform for theranostics. *Materials Horizons*, **2019**, 6, 434-469	14.4	173
368	Cancer Mechanobiology: Microenvironmental Sensing and Metastasis. *ACS Biomaterials Science and Engineering*, **2019**, 5, 3735-3752	5.5	19
367	Bone Tissue Engineering Using Human Cells: A Comprehensive Review on Recent Trends, Current Prospects, and Recommendations. *Applied Sciences (Switzerland)*, **2019**, 9, 174	2.6	34
366	Combinatory Cancer Therapeutics with Nanoceria-Capped Mesoporous Silica Nanocarriers through pH-triggered Drug Release and Redox Activity. *ACS Applied Materials & Interfaces*, **2019**, 11, 288-299	9.5	34
365	Curcumin in tissue engineering: A traditional remedy for modern medicine. *BioFactors*, **2019**, 45, 135-151	6.1	31
364	Electrophoretic coatings of hydroxyapatite with various nanocrystal shapes. *Materials Letters*, **2019**, 234, 148-154	3.3	24
363	Anti-bacterial zinc-doped calcium silicate cements: Bone filler. *Ceramics International*, **2018**, 44, 13031-13038	3.8	21
362	Emerging properties of hydrogels in tissue engineering. *Journal of Tissue Engineering*, **2018**, 9, 2041731418768285	7.3	285
361	Multi-functional nano-adhesive releasing therapeutic ions for MMP-deactivation and remineralization. *Scientific Reports*, **2018**, 8, 5663	4.9	27
360	Silk fibroin/collagen protein hybrid cell-encapsulating hydrogels with tunable gelation and improved physical and biological properties. *Acta Biomaterialia*, **2018**, 69, 218-233	10.8	61
359	Nanocements produced from mesoporous bioactive glass nanoparticles. *Biomaterials*, **2018**, 162, 183-199	15.6	44
358	Nano-graphene oxide incorporated into PMMA resin to prevent microbial adhesion. *Dental Materials*, **2018**, 34, e63-e72	5.7	52

357	Feasibility of Defect Tunable Bone Engineering Using Electroblown Bioactive Fibrous Scaffolds with Dental Stem Cells. *ACS Biomaterials Science and Engineering*, **2018**, 4, 1019-1028	5.5	10
356	Donor Variability in Growth Kinetics of Healthy hMSCs Using Manual Processing: Considerations for Manufacture of Cell Therapies. *Biotechnology Journal*, **2018**, 13, 1700085	5.6	9
355	Zirconia-incorporated zinc oxide eugenol has improved mechanical properties and cytocompatibility with human dental pulp stem cells. *Dental Materials*, **2018**, 34, 132-142	5.7	4
354	The Osteogenic Differentiation Effect of the FN Type 10-Peptide Amphiphile on PCL Fiber. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	5
353	Greater cellular stiffness in fibroblasts from patients with idiopathic pulmonary fibrosis. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2018**, 315, L59-L65	5.8	20
352	Chondrogenic Potential of Dedifferentiated Rat Chondrocytes Reevaluated in Two- and Three-Dimensional Culture Conditions. *Tissue Engineering and Regenerative Medicine*, **2018**, 15, 163-172	4.5	2
351	Reformulated mineral trioxide aggregate components and the assessments for use as future dental regenerative cements. *Journal of Tissue Engineering*, **2018**, 9, 2041731418807396	7.5	14
350	Auditory disorders and future therapies with delivery systems. *Journal of Tissue Engineering*, **2018**, 9, 2041731418808455	7.5	15
349	Biomedical applications of nanoceria: new roles for an old player. *Nanomedicine*, **2018**, 13, 3051-3069	5.6	55
348	Mesoporous bioactive glasses: Promising platforms for antibacterial strategies. *Acta Biomaterialia*, **2018**, 81, 1-19	10.8	99
347	Efficacy of collagen and alginate hydrogels for the prevention of rat chondrocyte dedifferentiation. *Journal of Tissue Engineering*, **2018**, 9, 2041731418802438	7.5	25
346	Intra-articular biomaterials-assisted delivery to treat temporomandibular joint disorders. *Journal of Tissue Engineering*, **2018**, 9, 2041731418776514	7.5	26
345	Non-thermal atmospheric pressure plasma functionalized dental implant for enhancement of bacterial resistance and osseointegration. *Dental Materials*, **2017**, 33, 257-270	5.7	41
344	Progress in Nanotheranostics Based on Mesoporous Silica Nanomaterial Platforms. *ACS Applied Materials & Interfaces*, **2017**, 9, 10309-10337	9.5	84
343	Biological Effects of Provisional Resin Materials on Human Dental Pulp Stem Cells. *Operative Dentistry*, **2017**, 42, E81-E92	2.9	6
342	A mini review focused on the proangiogenic role of silicate ions released from silicon-containing biomaterials. *Journal of Tissue Engineering*, **2017**, 8, 2041731417707339	7.5	72
341	CRISPR/Cas9-Based Genome Editing for Disease Modeling and Therapy: Challenges and Opportunities for Nonviral Delivery. *Chemical Reviews*, **2017**, 117, 9874-9906	68.1	287
340	Sol-gel-derived bioactive glass nanoparticle-incorporated glass ionomer cement with or without chitosan for enhanced mechanical and biomineralization properties. *Dental Materials*, **2017**, 33, 805-817	5.7	41

339	Extra- and intra-cellular fate of nanocarriers under dynamic interactions with biology. *Nano Today*, **2017**, 14, 84-99	17.9	34
338	Silica-based multifunctional nanodelivery systems toward regenerative medicine. *Materials Horizons*, **2017**, 4, 772-799	14.4	53
337	Optical imaging and anticancer chemotherapy through carbon dot created hollow mesoporous silica nanoparticles. *Acta Biomaterialia*, **2017**, 55, 466-480	10.8	52
336	Application of induced pluripotent stem cells to model smooth muscle cell function in vascular diseases. *Current Opinion in Biomedical Engineering*, **2017**, 1, 38-44	4.4	9
335	Ultrahigh protein adsorption capacity and sustained release of nanocomposite scaffolds: implication for growth factor delivery systems. *RSC Advances*, **2017**, 7, 16453-16459	3.7	7
334	Synergetic Cues of Bioactive Nanoparticles and Nanofibrous Structure in Bone Scaffolds to Stimulate Osteogenesis and Angiogenesis. *ACS Applied Materials & Interfaces*, **2017**, 9, 2059-2073	9.5	42
333	Nano-shape varied cerium oxide nanomaterials rescue human dental stem cells from oxidative insult through intracellular or extracellular actions. *Acta Biomaterialia*, **2017**, 50, 142-153	10.8	35
332	Silk scaffolds in bone tissue engineering: An overview. *Acta Biomaterialia*, **2017**, 63, 1-17	10.8	158
331	Intracellular co-delivery of Sr ion and phenamil drug through mesoporous bioglass nanocarriers synergizes BMP signaling and tissue mineralization. *Acta Biomaterialia*, **2017**, 60, 93-108	10.8	57
330	Functional Recovery of Contused Spinal Cord in Rat with the Injection of Optimal-Dosed Cerium Oxide Nanoparticles. *Advanced Science*, **2017**, 4, 1700034	13.6	42
329	Biomimetically grown apatite spheres from aggregated bioglass nanoparticles with ultrahigh porosity and surface area imply potential drug delivery and cell engineering applications. *Acta Biomaterialia*, **2017**, 60, 38-49	10.8	14
328	Towards modular bone tissue engineering using Ti-Co-doped phosphate glass microspheres: cytocompatibility and dynamic culture studies. *Journal of Biomaterials Applications*, **2017**, 32, 295-310	2.9	9
327	Rechargeable microbial anti-adhesive polymethyl methacrylate incorporating silver sulfadiazine-loaded mesoporous silica nanocarriers. *Dental Materials*, **2017**, 33, e361-e372	5.7	30
326	Effects of Type I Collagen Concentration in Hydrogel on the Growth and Phenotypic Expression of Rat Chondrocytes. *Tissue Engineering and Regenerative Medicine*, **2017**, 14, 383-391	4.5	18
325	Drug/ion co-delivery multi-functional nanocarrier to regenerate infected tissue defect. *Biomaterials* , **2017**, 142, 62-76	15.6	48
324	Co-culture of Human Dental Pulp Stem Cells and Endothelial Cells Using Porous Biopolymer Microcarriers: A Feasibility Study for Bone Tissue Engineering. *Tissue Engineering and Regenerative Medicine*, **2017**, 14, 393-401	4.5	10
323	Immunomodulatory/anti-inflammatory effect of ZOE-based dental materials. *Dental Materials*, **2017**, 33, e1-e12	5.7	19
322	Biomaterials and Culture Technologies for Regenerative Therapy of Liver Tissue. *Advanced Healthcare Materials*, **2017**, 6, 1600791	10.1	17

321	Promoting angiogenesis with mesoporous microcarriers through a synergistic action of delivered silicon ion and VEGF. *Biomaterials*, **2017**, 116, 145-157	15.6	102
320	Prospects of peripheral nerve tissue engineering using nerve guide conduits based on silk fibroin protein and other biopolymers. *International Materials Reviews*, **2017**, 62, 367-391	16.1	43
319	Inhibition of osteoclastogenesis through siRNA delivery with tunable mesoporous bioactive nanocarriers. *Acta Biomaterialia*, **2016**, 29, 352-364	10.8	29
318	Potential of inherent RGD containing silk fibroin-poly (Ecaprolactone) nanofibrous matrix for bone tissue engineering. *Cell and Tissue Research*, **2016**, 363, 525-40	4.2	31
317	Surface guidance of stem cell behavior: Chemically tailored co-presentation of integrin-binding peptides stimulates osteogenic differentiation in vitro and bone formation in vivo. *Acta Biomaterialia*, **2016**, 43, 269-281	10.8	40
316	C-Dot Generated Bioactive Organosilica Nanospheres in Theranostics: Multicolor Luminescent and Photothermal Properties Combined with Drug Delivery Capacity. *ACS Applied Materials & Interfaces*, **2016**, 8, 24433-44	9.5	35
315	Delivery of Small Genetic Molecules through Hollow Porous Nanoparticles Silences Target Gene and in Turn Stimulates Osteoblastic Differentiation. *Particle and Particle Systems Characterization*, **2016**, 33, 878-886	3.1	4
314	Osteopromoting Reservoir of Stem Cells: Bioactive Mesoporous Nanocarrier/Collagen Gel through Slow-Releasing FGF18 and the Activated BMP Signaling. *ACS Applied Materials & Interfaces*, **2016**, 8, 27573-27584	9.5	23
313	Alginate-hyaluronic acid-collagen composite hydrogel favorable for the culture of chondrocytes and their phenotype maintenance. *Tissue Engineering and Regenerative Medicine*, **2016**, 13, 538-546	4.5	37
312	Nanohybrid Electro-Coatings Toward Therapeutic Implants with Controlled Drug Delivery Potential for Bone Regeneration. *Journal of Biomedical Nanotechnology*, **2016**, 12, 1876-89	4	8
311	Preparation of highly monodispersed porous-channeled poly(caprolactone) microspheres by a microfluidic system. *Materials Letters*, **2016**, 181, 92-98	3.3	15
310	Nanoparticle-mediated inhibition of survivin to overcome drug resistance in cancer therapy. *Journal of Controlled Release*, **2016**, 240, 454-464	11.7	42
309	Porous microcarrier-enabled three-dimensional culture of chondrocytes for cartilage engineering: A feasibility study. *Tissue Engineering and Regenerative Medicine*, **2016**, 13, 235-241	4.5	9
308	Isolation and culture of primary rat adipose derived stem cells using porous biopolymer microcarriers. *Tissue Engineering and Regenerative Medicine*, **2016**, 13, 242-250	4.5	4
307	Stimulation of Odontogenesis and Angiogenesis via Bioactive Nanocomposite Calcium Phosphate Cements Through Integrin and VEGF Signaling Pathways. *Journal of Biomedical Nanotechnology*, **2016**, 12, 1048-62	4	14
306	Biomaterials control of pluripotent stem cell fate for regenerative therapy. *Progress in Materials Science*, **2016**, 82, 234-293	42.2	32
305	Magnetic nanocomposite scaffolds combined with static magnetic field in the stimulation of osteoblastic differentiation and bone formation. *Biomaterials*, **2016**, 85, 88-98	15.6	159
304	Influence of ZrO2 oxide on the properties and crystallization of calcium fluoro-alumino-silicate glasses. *Ceramics International*, **2016**, 42, 5107-5112	5.1	7

303	Silk fibroin nanoparticles support in vitro sustained antibiotic release and osteogenesis on titanium surface. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2016**, 12, 1193-204	6	57
302	Sol□gel based materials for biomedical applications. *Progress in Materials Science*, **2016**, 77, 1-79	42.2	430
301	Signaling of extracellular matrices for tissue regeneration and therapeutics. *Tissue Engineering and Regenerative Medicine*, **2016**, 13, 1-12	4.5	30
300	Triple Hit with Drug Carriers: pH- and Temperature-Responsive Theranostics for Multimodal Chemo- and Photothermal Therapy and Diagnostic Applications. *ACS Applied Materials & Interfaces*, **2016**, 8, 8967-79	9.5	85
299	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. *Nanoscale*, **2016**, 8, 8300-11	7.7	54
298	Hydroxyapatite mineral tubes developed for the loading and release of biological proteins. *Materials Letters*, **2016**, 167, 170-174	3.3	4
297	Effect of Aminated Mesoporous Bioactive Glass Nanoparticles on the Differentiation of Dental Pulp Stem Cells. *PLoS ONE*, **2016**, 11, e0150727	3.7	38
296	Delivery of dexamethasone from bioactive nanofiber matrices stimulates odontogenesis of human dental pulp cells through integrin/BMP/mTOR signaling pathways. *International Journal of Nanomedicine*, **2016**, 11, 2557-67	7.3	13
295	On-Site Surface Functionalization for Titanium Dental Implant with Nanotopography: Review and Outlook. *Journal of Nanomaterials*, **2016**, 2016, 1-8	3.2	3
294	Angiogenic Effects of Collagen/Mesoporous Nanoparticle Composite Scaffold Delivering VEGF. *BioMed Research International*, **2016**, 2016, 9676934	3	18
293	Polymer-Ceramic Bionanocomposites for Dental Application. *Journal of Nanomaterials*, **2016**, 2016, 1-8	3.2	11
292	Electrospun Nanofibers Applications in Dentistry. *Journal of Nanomaterials*, **2016**, 2016, 1-7	3.2	24
291	Dynamic Mechanical and Nanofibrous Topological Combinatory Cues Designed for Periodontal Ligament Engineering. *PLoS ONE*, **2016**, 11, e0149967	3.7	35
290	Impact of mechanical stretch on the cell behaviors of bone and surrounding tissues. *Journal of Tissue Engineering*, **2016**, 7, 2041731415618342	7.5	38
289	Nanotherapeutics of PTEN Inhibitor with Mesoporous Silica Nanocarrier Effective for Axonal Outgrowth of Adult Neurons. *ACS Applied Materials & Interfaces*, **2016**, 8, 18741-53	9.5	19
288	Bioactive glass-based nanocomposites for personalized dental tissue regeneration. *Dental Materials Journal*, **2016**, 35, 710-720	2.5	15
287	Enhanced cellular uptake and phototoxicity of Verteporfin-conjugated gold nanoparticles as theranostic nanocarriers for targeted photodynamic therapy and imaging of cancers. *Materials Science and Engineering C*, **2016**, 67, 611-622	8.3	30
286	Ionic and thermo-switchable polymer-masked mesoporous silica drug-nanocarrier: High drug loading capacity at 10□C and fast drug release completion at 40□C. *Colloids and Surfaces B: Biointerfaces*, **2016**, 144, 229-237	6	13

285	Complete reduction of p53 expression by RNA interference following heterozygous knockout in porcine fibroblasts. *In Vitro Cellular and Developmental Biology - Animal*, **2016**, 52, 736-41	2.6	
284	Development of long-term antimicrobial poly(methyl methacrylate) by incorporating mesoporous silica nanocarriers. *Dental Materials*, **2016**, 32, 1564-1574	5.7	43
283	Magnetic nanofiber scaffold-induced stimulation of odontogenesis and pro-angiogenesis of human dental pulp cells through Wnt/MAPK/NF-B pathways. *Dental Materials*, **2016**, 32, 1301-1311	5.7	19
282	Mineralization of fibers for bone regeneration **2016**, 443-476		2
281	Fluorescence-based retention assays reveals sustained release of vascular endothelial growth factor from bone grafts. *Journal of Biomedical Materials Research - Part A*, **2016**, 104, 283-90	5.4	7
280	Carbon-nanotube-interfaced glass fiber scaffold for regeneration of transected sciatic nerve. *Acta Biomaterialia*, **2015**, 13, 324-34	10.8	80
279	Osteoinductive fibrous scaffolds of biopolymer/mesoporous bioactive glass nanocarriers with excellent bioactivity and long-term delivery of osteogenic drug. *ACS Applied Materials & Interfaces*, **2015**, 7, 1140-52	9.5	107
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