

Guoping Chen

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.

216
papers

10,198
citations

51
h-index

94
g-index

233
ext. papers

11,248
ext. citations

7
avg, IF

6.43
L-index

#	Paper	IF	Citations
216	Preparation of mesh-like collagen scaffolds for tissue engineering. <i>Materials Advances</i> , 2022 , 3, 1556-1564	5.4	2
215	Development of a novel solar energy controllable Linear fresnel photoreactor (LFP) for high-efficiency photocatalytic wastewater treatment under actual weather. <i>Water Research</i> , 2022 , 208, 117880	12.5	2
214	Light stimulation strategy for promoting bio-hydrogen production: Microbial community, metabolic pathway and long-term application.. <i>Bioresource Technology</i> , 2022 , 350, 126902	11	0
213	Bactericidal process and practicability for environmental water sterilization by solar-light-driven Bi ₂ WO ₆ -based photocatalyst. <i>Journal of Water Process Engineering</i> , 2022 , 47, 102713	6.7	1
212	Sustainable and efficient reduction of pollutants by immobilized PEG-P/Ag/AgO/AgPO/TiO photocatalyst for purification of saline wastewater.. <i>Marine Pollution Bulletin</i> , 2022 , 179, 113731	6.7	
211	Preparation of composite scaffolds composed of gelatin and Au nanostar-deposited black phosphorus nanosheets for the photothermal ablation of cancer cells and adipogenic differentiation of stem cells 2022 , 138, 212938		
210	PLGA-collagen-BPNS Bifunctional composite mesh for photothermal therapy of melanoma and skin tissue engineering.. <i>Journal of Materials Chemistry B</i> , 2021 ,	7.3	6
209	The varied influences of cell adhesion and spreading on gene transfection of mesenchymal stem cells on a micropatterned substrate. <i>Acta Biomaterialia</i> , 2021 , 125, 100-111	10.8	8
208	Micropattern-controlled chirality of focal adhesions regulates the cytoskeletal arrangement and gene transfection of mesenchymal stem cells. <i>Biomaterials</i> , 2021 , 271, 120751	15.6	8
207	Nanomaterials and their composite scaffolds for photothermal therapy and tissue engineering applications. <i>Science and Technology of Advanced Materials</i> , 2021 , 22, 404-428	7.1	11
206	Photon number based anaerobic digestion process for efficient bio-methane conversion from ammonium-rich feedstock: Performance evaluation and practical potential. <i>Energy Conversion and Management</i> , 2021 , 238, 114155	10.6	2
205	Influence of viscosity on chondrogenic differentiation of mesenchymal stem cells during 3D culture in viscous gelatin solution-embedded hydrogels. <i>Journal of Materials Science and Technology</i> , 2021 , 63, 1-8	9.1	4
204	From mouse to mouse-ear cress: Nanomaterials as vehicles in plant biotechnology. <i>Exploration</i> , 2021 , 1, 9-20		13
203	Composite scaffolds of black phosphorus nanosheets and gelatin with controlled pore structures for photothermal cancer therapy and adipose tissue engineering. <i>Biomaterials</i> , 2021 , 275, 120923	15.6	7
202	Regulation of gene transfection by cell size, shape and elongation on micropatterned surfaces. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 4329-4339	7.3	3
201	Interconnected collagen porous scaffolds prepared with sacrificial PLGA sponge templates for cartilage tissue engineering. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 8491-8500	7.3	9
200	Layered Ag/Ag ₂ O/BiPO ₄ /Bi ₂ WO ₆ heterostructures by two-step method for enhanced photocatalysis. <i>Journal of Catalysis</i> , 2020 , 387, 28-38	7.3	16

199	Development of an oyster shell and lignite modified zeolite (OLMZ) fixed bioreactor coupled with intermittent light stimulation for high efficient ammonium-rich anaerobic digestion process. <i>Chemical Engineering Journal</i> , 2020 , 398, 125637	14.7	10
198	PLGA-collagen-ECM hybrid meshes mimicking stepwise osteogenesis and their influence on the osteogenic differentiation of hMSCs. <i>Biofabrication</i> , 2020 , 12, 025027	10.5	14
197	Polyethylene glycol (PEG)-modified Ag/AgO/AgPO/BiWO photocatalyst film with enhanced efficiency and stability under solar light. <i>Journal of Colloid and Interface Science</i> , 2020 , 569, 101-113	9.3	26
196	Regulation of Stem Cell Functions by Micro-Patterned Structures. <i>Advances in Experimental Medicine and Biology</i> , 2020 , 1250, 141-155	3.6	2
195	Preparation of PLGA-collagen hybrid scaffolds with controlled pore structures for cartilage tissue engineering. <i>Progress in Natural Science: Materials International</i> , 2020 , 30, 642-650	3.6	14
194	PEG assisted P/Ag/Ag ₂ O/Ag ₃ PO ₄ /TiO ₂ photocatalyst with enhanced elimination of emerging organic pollutants in salinity condition under solar light illumination. <i>Chemical Engineering Journal</i> , 2020 , 385, 123765	14.7	30
193	Folic Acid-Functionalized Composite Scaffolds of Gelatin and Gold Nanoparticles for Photothermal Ablation of Breast Cancer Cells. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 589905	5.8	7
192	ECM scaffolds mimicking extracellular matrices of endochondral ossification for the regulation of mesenchymal stem cell differentiation. <i>Acta Biomaterialia</i> , 2020 , 114, 158-169	10.8	11
191	Osteogenic and Adipogenic Differentiation of Mesenchymal Stem Cells in Gelatin Solutions of Different Viscosities. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2000617	10.1	6
190	Interaction of Immune Cells and Tumor Cells in Gold Nanorod-Gelatin Composite Porous Scaffolds. <i>Nanomaterials</i> , 2019 , 9,	5.4	3
189	Preparation of Stepwise Adipogenesis-Mimicking ECM-Deposited PLGA-Collagen Hybrid Meshes and Their Influence on Adipogenic Differentiation of hMSCs. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 6099-6108	5.5	7
188	Encapsulation of individual living cells with enzyme responsive polymer nanoshell. <i>Biomaterials</i> , 2019 , 197, 317-326	15.6	31
187	Influence of Cell Spreading Area on the Osteogenic Commitment and Phenotype Maintenance of Mesenchymal Stem Cells. <i>Scientific Reports</i> , 2019 , 9, 6891	4.9	23
186	Superior disinfection effect of Escherichia coli by hydrothermal synthesized TiO ₂ -based composite photocatalyst under LED irradiation: Influence of environmental factors and disinfection mechanism. <i>Environmental Pollution</i> , 2019 , 247, 847-856	9.3	30
185	Decellularization Techniques for Preparation of Decellularized Extracellular Matrices in Tissue Engineering Applications 2019 , 1-15		
184	PLGA-collagen-ECM hybrid scaffolds functionalized with biomimetic extracellular matrices secreted by mesenchymal stem cells during stepwise osteogenesis-co-adipogenesis. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 7195-7206	7.3	23
183	Solution viscosity regulates chondrocyte proliferation and phenotype during 3D culture. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 7713-7722	7.3	23
182	Influence of Cell Morphology on Mesenchymal Stem Cell Transfection. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1932-1941	9.5	16

181	Fabrication of gelatin-micropatterned surface and its effect on osteogenic differentiation of hMSCs. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 1018-1025	7.3	7
180	Porous Scaffolds for Regeneration of Cartilage, Bone and Osteochondral Tissue. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1058, 171-191	3.6	24
179	The influence of carbon-encapsulated iron nanoparticles on elastic modulus of living human mesenchymal stem cells examined by atomic force microscopy. <i>Micron</i> , 2018 , 108, 41-48	2.3	18
178	Regulation of mesenchymal stem cell functions by micro-nano hybrid patterned surfaces. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 5424-5434	7.3	24
177	Synthesis of photo-reactive poly (vinyl alcohol) and construction of scaffold-free cartilage like pellets. <i>International Journal of Energy Production and Management</i> , 2018 , 5, 159-166	5.3	8
176	Preparation of Cell-Derived Decellularized Matrices Mimicking Native ECM During the Osteogenesis and Adipogenesis of Mesenchymal Stem Cells. <i>Methods in Molecular Biology</i> , 2018 , 1577, 71-86	1.4	5
175	Preparation of Polymeric Porous Scaffolds for Regenerative Medicine. <i>Membrane</i> , 2018 , 43, 215-223	0	
174	Photothermal Ablation of Cancer Cells by Albumin-Modified Gold Nanorods and Activation of Dendritic Cells. <i>Materials</i> , 2018 , 12,	3.5	15
173	Preparation of dexamethasone-loaded biphasic calcium phosphate nanoparticles/collagen porous composite scaffolds for bone tissue engineering. <i>Acta Biomaterialia</i> , 2018 , 67, 341-353	10.8	80
172	Ligand density-dependent influence of arginineglycinespartate functionalized gold nanoparticles on osteogenic and adipogenic differentiation of mesenchymal stem cells. <i>Nano Research</i> , 2018 , 11, 1247-1261	10	23
171	Bifunctional scaffolds for the photothermal therapy of breast tumor cells and adipose tissue regeneration. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 7728-7736	7.3	21
170	Promoted Angiogenesis and Osteogenesis by Dexamethasone-loaded Calcium Phosphate Nanoparticles/Collagen Composite Scaffolds with Microgroove Networks. <i>Scientific Reports</i> , 2018 , 8, 14143	4.9	13
169	Biomimetic Extracellular Matrices and Scaffolds Prepared from Cultured Cells. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1078, 465-474	3.6	2
168	Functional Hydrogels With Tunable Structures and Properties for Tissue Engineering Applications. <i>Frontiers in Chemistry</i> , 2018 , 6, 499	5	110
167	Photo-Crosslinkable Hydrogels for Tissue Engineering Applications 2018 , 277-300		6
166	Surface Modification for Medical Devices 2018 , 133-177		1
165	Sub-10 nm gold nanoparticles promote adipogenesis and inhibit osteogenesis of mesenchymal stem cells. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 1353-1362	7.3	28
164	Nanoencapsulation of individual mammalian cells with cytoprotective polymer shell. <i>Biomaterials</i> , 2017 , 133, 253-262	15.6	32

163	Biomimetic Assembly of Vascular Endothelial Cells and Muscle Cells in Microgrooved Collagen Porous Scaffolds. <i>Tissue Engineering - Part C: Methods</i> , 2017 , 23, 367-376	2.9	25
162	Induction of Chondrogenic Differentiation of Human Mesenchymal Stem Cells by Biomimetic Gold Nanoparticles with Tunable RGD Density. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1700317	10.1	20
161	Influence of microporous gelatin hydrogels on chondrocyte functions. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 5753-5762	7.3	26
160	Insight into the interactions between nanoparticles and cells. <i>Biomaterials Science</i> , 2017 , 5, 173-189	7.4	66
159	IGF-2 coated porous collagen microwells for the culture of pancreatic islets. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 220-225	7.3	11
158	Composite scaffolds of gelatin and gold nanoparticles with tunable size and shape for photothermal cancer therapy. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 245-253	7.3	43
157	TEMPO-Conjugated Gold Nanoparticles for Reactive Oxygen Species Scavenging and Regulation of Stem Cell Differentiation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 35683-35692	9.5	45
156	Targeting ligand-functionalized photothermal scaffolds for cancer cell capture and in situ ablation. <i>Biomaterials Science</i> , 2017 , 5, 2276-2284	7.4	8
155	Preparation of dexamethasone-loaded calcium phosphate nanoparticles for the osteogenic differentiation of human mesenchymal stem cells. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 6801-6810	7.3	14
154	Maintenance of Cartilaginous Gene Expression of Serially Subcultured Chondrocytes on Poly(2-Methoxyethyl Acrylate) Analogous Polymers. <i>Macromolecular Bioscience</i> , 2017 , 17, 1700297	5.5	2
153	Fabrication of Highly Crosslinked Gelatin Hydrogel and Its Influence on Chondrocyte Proliferation and Phenotype. <i>Polymers</i> , 2017 , 9,	4.5	37
152	Scaffolds, Porous Polymer: <i>Tissue Engineering</i> 2017 , 1374-1381		
151	Collagen-Based Porous Scaffolds for Tissue Engineering 2016 , 1-15		1
150	Preparation of gelatin/FeO composite scaffolds for enhanced and repeatable cancer cell ablation. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 5664-5672	7.3	26
149	Single mammalian cell encapsulation by in situ polymerization. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 7662-7668	7.3	22
148	Regulating the stemness of mesenchymal stem cells by tuning micropattern features. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 37-45	7.3	68
147	Gelatin Scaffolds with Controlled Pore Structure and Mechanical Property for Cartilage Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , 2016 , 22, 189-98	2.9	66
146	Matrices secreted during simultaneous osteogenesis and adipogenesis of mesenchymal stem cells affect stem cells differentiation. <i>Acta Biomaterialia</i> , 2016 , 35, 185-93	10.8	26

145	Gold nanoparticle size and shape influence on osteogenesis of mesenchymal stem cells. <i>Nanoscale</i> , 2016 , 8, 7992-8007	7.7	147
144	Preparation of polymer-based porous scaffolds for tissue engineering 2016 , 105-125		2
143	Fabrication of multi-biofunctional gelatin-based electrospun fibrous scaffolds for enhancement of osteogenesis of mesenchymal stem cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 138, 26-31	6	35
142	Decellularized Extracellular Matrix as an In Vitro Model to Study the Comprehensive Roles of the ECM in Stem Cell Differentiation. <i>Stem Cells International</i> , 2016 , 2016, 6397820	5	95
141	Preparation of Polymer Scaffolds by Ice Particulate Method for Tissue Engineering 2016 , 77-95		3
140	3D Culture of Chondrocytes in Gelatin Hydrogels with Different Stiffness. <i>Polymers</i> , 2016 , 8,	4.5	100
139	Promotion of muscle regeneration by myoblast transplantation combined with the controlled and sustained release of bFGFcp. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, 325-33	4.4	11
138	Morphological and Mechanical Properties of Osteosarcoma Microenvironment Cells Explored by Atomic Force Microscopy. <i>Analytical Sciences</i> , 2016 , 32, 1177-1182	1.7	15
137	Discriminating the Independent Influence of Cell Adhesion and Spreading Area on Stem Cell Fate Determination Using Micropatterned Surfaces. <i>Scientific Reports</i> , 2016 , 6, 28708	4.9	43
136	Influence of cell size on cellular uptake of gold nanoparticles. <i>Biomaterials Science</i> , 2016 , 4, 970-8	7.4	50
135	Manipulating Cell Nanomechanics Using Micropatterns. <i>Advanced Functional Materials</i> , 2016 , 26, 7634-7643	6.3	23
134	Polymeric and Biomimetic ECM Scaffolds for Tissue Engineering 2016 , 41-56		
133	Facile preparation of albumin-stabilized gold nanostars for the targeted photothermal ablation of cancer cells. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 5806-5814	7.3	34
132	Cellular effects of magnetic nanoparticles explored by atomic force microscopy. <i>Biomaterials Science</i> , 2015 , 3, 1284-90	7.4	10
131	Influence of stepwise chondrogenesis-mimicking 3D extracellular matrix on chondrogenic differentiation of mesenchymal stem cells. <i>Biomaterials</i> , 2015 , 52, 199-207	15.6	60
130	Gold nanoparticles with different charge and moiety induce differential cell response on mesenchymal stem cell osteogenesis. <i>Biomaterials</i> , 2015 , 54, 226-36	15.6	123
129	Engineering multi-layered skeletal muscle tissue by using 3D microgrooved collagen scaffolds. <i>Biomaterials</i> , 2015 , 73, 23-31	15.6	99
128	Influence of surfaces modified with biomimetic extracellular matrices on adhesion and proliferation of mesenchymal stem cells and osteosarcoma cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 126, 381-6	6	21

127	Effect of high molecular weight hyaluronic acid on chondrocytes cultured in collagen/hyaluronic acid porous scaffolds. <i>RSC Advances</i> , 2015 , 5, 94405-94410	3.7	13
126	Cell response to single-walled carbon nanotubes in hybrid porous collagen sponges. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 126, 63-9	6	17
125	Pore size effect of collagen scaffolds on cartilage regeneration. <i>Acta Biomaterialia</i> , 2014 , 10, 2005-13	10.8	208
124	Preparation of collagen porous scaffolds with controlled and sustained release of bioactive insulin. <i>Journal of Bioactive and Compatible Polymers</i> , 2014 , 29, 95-109	2	11
123	Long-term stem cell labeling by collagen-functionalized single-walled carbon nanotubes. <i>Nanoscale</i> , 2014 , 6, 1552-9	7.7	15
122	Poly(vinyl alcohol)-micropatterned surfaces for manipulation of mesenchymal stem cell functions. <i>Methods in Cell Biology</i> , 2014 , 119, 17-33	1.8	5
121	One-pot synthesis of polyaniline doped with transition metal ions using H ₂ O ₂ as oxidant. <i>Polymers for Advanced Technologies</i> , 2014 , 25, 1391-1395	3.2	6
120	Collagen microgel-assisted dexamethasone release from PLLA-collagen hybrid scaffolds of controlled pore structure for osteogenic differentiation of mesenchymal stem cells. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2014 , 25, 1374-86	3.5	16
119	Highly active porous scaffolds of collagen and hyaluronic acid prepared by suppression of polyion complex formation. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 5612-5619	7.3	14
118	Stem cell culture using cell-derived substrates. <i>Biomaterials Science</i> , 2014 , 2, 1595-1603	7.4	16
117	Influence of micropattern width on differentiation of human mesenchymal stem cells to vascular smooth muscle cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 122, 316-323	6	33
116	Cellular uptake of single-walled carbon nanotubes in 3D extracellular matrix-mimetic composite collagen hydrogels. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 2487-92	1.3	10
115	Chapter 2: Preparation of Tissue Development [Mimicking Matrices and Their Applications. <i>Frontiers in Nanobiomedical Research</i> , 2014 , 61-75		
114	Collagen scaffolds with controlled insulin release and controlled pore structure for cartilage tissue engineering. <i>BioMed Research International</i> , 2014 , 2014, 623805	3	20
113	Variation of mechanical property of single-walled carbon nanotubes-treated cells explored by atomic force microscopy. <i>Journal of Biomedical Nanotechnology</i> , 2014 , 10, 651-9	4	12
112	Effect of single-wall carbon nanotubes on mechanical property of chondrocytes. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 2459-65	1.3	11
111	Preparation of cylinder-shaped porous sponges of poly(L-lactic acid), poly(DL-lactic-co-glycolic acid), and poly(ε-caprolactone). <i>BioMed Research International</i> , 2014 , 2014, 106082	3	11
110	Stimulatory effects of the ionic products from Ca-Mg-Si bioceramics on both osteogenesis and angiogenesis in vitro. <i>Acta Biomaterialia</i> , 2013 , 9, 8004-14	10.8	148

109	Influence of cell protrusion and spreading on adipogenic differentiation of mesenchymal stem cells on micropatterned surfaces. <i>Soft Matter</i> , 2013 , 9, 4160	3.6	28
108	Preparation of collagen porous scaffolds with a gradient pore size structure using ice particulates. <i>Materials Letters</i> , 2013 , 107, 280-283	3.3	35
107	The combined influence of substrate elasticity and surface-grafted molecules on the ex vivo expansion of hematopoietic stem and progenitor cells. <i>Biomaterials</i> , 2013 , 34, 7632-44	15.6	37
106	Uptake and intracellular distribution of collagen-functionalized single-walled carbon nanotubes. <i>Biomaterials</i> , 2013 , 34, 2472-9	15.6	46
105	Preparation of collagen scaffolds with controlled pore structures and improved mechanical property for cartilage tissue engineering. <i>Journal of Bioactive and Compatible Polymers</i> , 2013 , 28, 426-438	3	38
104	Cartilage tissue engineering with controllable shape using a poly(lactic-co-glycolic acid)/collagen hybrid scaffold. <i>Journal of Bioactive and Compatible Polymers</i> , 2013 , 28, 247-257	2	7
103	Interplay between chemical state, electric properties, and ferromagnetism in Fe-doped ZnO films. <i>Journal of Applied Physics</i> , 2013 , 113, 104503	2.5	27
102	Effects of extracellular matrix proteins in chondrocyte-derived matrices on chondrocyte functions. <i>Biotechnology Progress</i> , 2013 , 29, 1331-6	2.8	9
101	The osteogenic differentiation of mesenchymal stem cells by controlled cell-cell interaction on micropatterned surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2013 , 101, 3388-95	5.4	37
100	Design and Synthesis of Photoreactive Polymers for Biomedical Applications 2013 , 253-278		1
99	SY31 Polymeric porous scaffolds for regenerative medicine. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2013 , 2013.25, 39-40	0	
98	The balance of osteogenic and adipogenic differentiation in human mesenchymal stem cells by matrices that mimic stepwise tissue development. <i>Biomaterials</i> , 2012 , 33, 2025-31	15.6	59
97	Spatial immobilization of bone morphogenetic protein-4 in a collagen-PLGA hybrid scaffold for enhanced osteoinductivity. <i>Biomaterials</i> , 2012 , 33, 6140-6	15.6	82
96	Coating of collagen on a poly(l-lactic acid) sponge surface for tissue engineering. <i>Materials Science and Engineering C</i> , 2012 , 32, 290-295	8.3	15
95	Maintenance of cartilaginous gene expression on extracellular matrix derived from serially passaged chondrocytes during in vitro chondrocyte expansion. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 694-702	5.4	33
94	Exploring adipogenic differentiation of a single stem cell on poly(acrylic acid) and polystyrene micropatterns. <i>Soft Matter</i> , 2012 , 8, 8429	3.6	19
93	Spatially guided angiogenesis by three-dimensional collagen scaffolds micropatterned with vascular endothelial growth factor. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012 , 23, 2185-95	3.5	13
92	Preparation of Porous Scaffolds from Ice Particulate Templates for Tissue Engineering 2012 , 47-61		

91	Comparison of decellularization techniques for preparation of extracellular matrix scaffolds derived from three-dimensional cell culture. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 2507-16	5.4	55
90	Preparation of porous collagen scaffolds with micropatterned structures. <i>Advanced Materials</i> , 2012 , 24, 4311-6	24	40
89	Differentiation of PC12 cells in three-dimensional collagen sponges with micropatterned nerve growth factor. <i>Biotechnology Progress</i> , 2012 , 28, 773-9	2.8	8
88	Silicate bioceramics induce angiogenesis during bone regeneration. <i>Acta Biomaterialia</i> , 2012 , 8, 341-9	10.8	206
87	Micropatterned angiogenesis induced by poly(d,l-lactic-co-glycolic acid) mesh-structured scaffolds. <i>Journal of Bioactive and Compatible Polymers</i> , 2012 , 27, 97-106	2	7
86	PLLA-collagen and PLLA-gelatin hybrid scaffolds with funnel-like porous structure for skin tissue engineering. <i>Science and Technology of Advanced Materials</i> , 2012 , 13, 064210	7.1	52
85	Hybrid Porous Scaffolds of Biodegradable Synthetic Polymers and Collagen for Tissue Engineering 2012 , 417-434		1
84	Adipogenic differentiation of individual mesenchymal stem cell on different geometric micropatterns. <i>Langmuir</i> , 2011 , 27, 6155-62	4	92
83	Culture of bovine articular chondrocytes in funnel-like collagen-PLGA hybrid sponges. <i>Biomedical Materials (Bristol)</i> , 2011 , 6, 045011	3.5	11
82	Cultured cell-derived extracellular matrix scaffolds for tissue engineering. <i>Biomaterials</i> , 2011 , 32, 9658-66	65.6	163
81	Effects of Structural Change Induced by Physical Aging on the Biodegradation Behavior of PLGA Films at Physiological Temperature. <i>Macromolecular Materials and Engineering</i> , 2011 , 296, 1028-1034	3.9	9
80	Effects of extracellular matrices derived from different cell sources on chondrocyte functions. <i>Biotechnology Progress</i> , 2011 , 27, 788-95	2.8	28
79	Autologous extracellular matrix scaffolds for tissue engineering. <i>Biomaterials</i> , 2011 , 32, 2489-99	15.6	157
78	Mechanism of regulation of PPAR γ expression of mesenchymal stem cells by osteogenesis-mimicking extracellular matrices. <i>Bioscience, Biotechnology and Biochemistry</i> , 2011 , 75, 2099-104	2.1	18
77	Dependence of Spreading and Differentiation of Mesenchymal Stem Cells on Micropatterned Surface Area. <i>Journal of Nanomaterials</i> , 2011 , 2011, 1-9	3.2	39
76	Focus on nanobiomaterials and technologies for breakthrough in future medicine. <i>Science and Technology of Advanced Materials</i> , 2010 , 11, 010302	7.1	3
75	Preparation of Novel Collagen Sponges Using an Ice Particulate Template. <i>Journal of Bioactive and Compatible Polymers</i> , 2010 , 25, 360-373	2	42
74	Response to Comment on Enhanced spin injection and voltage bias in (Zn,Co)O/MgO/(Zn,Co)O magnetic tunnel junctions [Appl. Phys. Lett. 96, 116101 (2010)]. <i>Applied Physics Letters</i> , 2010 , 96, 116102 ^{3,4}		

73	Hysteretic giant magnetoresistance curves induced by interlayer magnetostatic coupling in [Pd/Co]/Cu/Co/Cu/[Co/Pd] dual spin valves. <i>Journal of Applied Physics</i> , 2010 , 107, 083902	2.5	8
72	Decellularized matrices for tissue engineering. <i>Expert Opinion on Biological Therapy</i> , 2010 , 10, 1717-28	5.4	223
71	A novel cylinder-type poly(L-lactic acid)-collagen hybrid sponge for cartilage tissue engineering. <i>Tissue Engineering - Part C: Methods</i> , 2010 , 16, 329-38	2.9	37
70	In vitro proliferation and osteogenic differentiation of human bone marrow-derived mesenchymal stem cells cultured with hardystonite (Ca ₂ ZnSi ₂ O ₇) and {beta}-TCP ceramics. <i>Journal of Biomaterials Applications</i> , 2010 , 25, 39-56	2.9	47
69	Change of the mechanical properties of chondrocytes during expansion culture. <i>Soft Matter</i> , 2010 , 6, 2462	3.6	6
68	A cell leakproof PLGA-collagen hybrid scaffold for cartilage tissue engineering. <i>Biotechnology Progress</i> , 2010 , 26, 819-26	2.8	45
67	Influence of the Mn concentration on the electromechanical response d33 of Mn-doped ZnO films. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010 , 4, 209-211	2.5	8
66	Tracheal defect repair using a PLGA-collagen hybrid scaffold reinforced by a copolymer stent with bFGF-impregnated gelatin hydrogel. <i>Pediatric Surgery International</i> , 2010 , 26, 575-80	2.1	48
65	Preparation of chitosan scaffolds with a hierarchical porous structure. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010 , 93, 341-50	3.5	40
64	Development of extracellular matrices mimicking stepwise adipogenesis of mesenchymal stem cells. <i>Advanced Materials</i> , 2010 , 22, 3042-7	2.4	67
63	Preparation and characterization of complex gel of type I collagen and aluminosilicate containing imogolite nanofibers. <i>Journal of Applied Polymer Science</i> , 2010 , 118, n/a-n/a	2.9	3
62	Preparation of collagen-glycosaminoglycan sponges with open surface porous structures using ice particulate template method. <i>Macromolecular Bioscience</i> , 2010 , 10, 860-71	5.5	29
61	The influence of structural design of PLGA/collagen hybrid scaffolds in cartilage tissue engineering. <i>Biomaterials</i> , 2010 , 31, 2141-52	15.6	197
60	Cartilage tissue engineering using funnel-like collagen sponges prepared with embossing ice particulate templates. <i>Biomaterials</i> , 2010 , 31, 5825-35	15.6	74
59	Structural changes and biodegradation of PLLA, PCL, and PLGA sponges during in vitro incubation. <i>Polymer Engineering and Science</i> , 2010 , 50, 1895-1903	2.3	29
58	Development of stepwise osteogenesis-mimicking matrices for the regulation of mesenchymal stem cell functions. <i>Journal of Biological Chemistry</i> , 2009 , 284, 31164-73	5.4	94
57	Enhanced spin injection and voltage bias in (Zn,Co)O/MgO/(Zn,Co)O magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2009 , 95, 232508	3.4	15
56	Surface modification of porous scaffolds with nanothick collagen layer by centrifugation and freeze-drying. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009 , 90, 864-72	3.5	25

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