

Guoping Chen

List of Publications by Citations

Source: <https://exaly.com/author-pdf/838981/guoping-chen-publications-by-citations.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Graft copolymers that exhibit temperature-induced phase transitions over a wide range of pH. <i>Nature</i> , 1995 , 373, 49-52	50.4	1125
215	Scaffold Design for Tissue Engineering. <i>Macromolecular Bioscience</i> , 2002 , 2, 67-77	5.5	501
214	Growth factor combination for chondrogenic induction from human mesenchymal stem cell. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 320, 914-9	3.4	327
213	Decellularized matrices for tissue engineering. <i>Expert Opinion on Biological Therapy</i> , 2010 , 10, 1717-28	5.4	223
212	Pore size effect of collagen scaffolds on cartilage regeneration. <i>Acta Biomaterialia</i> , 2014 , 10, 2005-13	10.8	208
211	Silicate bioceramics induce angiogenesis during bone regeneration. <i>Acta Biomaterialia</i> , 2012 , 8, 341-9	10.8	206
210	The influence of structural design of PLGA/collagen hybrid scaffolds in cartilage tissue engineering. <i>Biomaterials</i> , 2010 , 31, 2141-52	15.6	197
209	Optical Properties of Rectangular Cross-sectional ZnS Nanowires. <i>Nano Letters</i> , 2004 , 4, 1663-1668	11.5	185
208	Development of biodegradable porous scaffolds for tissue engineering. <i>Materials Science and Engineering C</i> , 2001 , 17, 63-69	8.3	174
207	A biodegradable hybrid sponge nested with collagen microsponges. <i>Journal of Biomedical Materials Research Part B</i> , 2000 , 51, 273-9		164
206	Cultured cell-derived extracellular matrix scaffolds for tissue engineering. <i>Biomaterials</i> , 2011 , 32, 9658-6656	15.6	163
205	Culturing of skin fibroblasts in a thin PLGA-collagen hybrid mesh. <i>Biomaterials</i> , 2005 , 26, 2559-66	15.6	162
204	Cellular control of tissue architectures using a three-dimensional tissue fabrication technique. <i>Biomaterials</i> , 2007 , 28, 4939-46	15.6	160
203	Autologous extracellular matrix scaffolds for tissue engineering. <i>Biomaterials</i> , 2011 , 32, 2489-99	15.6	157
202	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
201	Gold nanoparticle size and shape influence on osteogenesis of mesenchymal stem cells. <i>Nanoscale</i> , 2016 , 8, 7992-8007	7.7	147
200	Tissue engineering of cartilage using a hybrid scaffold of synthetic polymer and collagen. <i>Tissue Engineering</i> , 2004 , 10, 323-30		139

199	Preparation and properties of thermoreversible, phase-separating enzyme-oligo(N-isopropylacrylamide) conjugates. <i>Bioconjugate Chemistry</i> , 1993 , 4, 509-14	6.3	138
198	The use of a novel PLGA fiber/collagen composite web as a scaffold for engineering of articular cartilage tissue with adjustable thickness. <i>Journal of Biomedical Materials Research - Part A</i> , 2003 , 67, 1170-80	5.4	137
197	Preparation of poly(L-lactic acid) and poly(DL-lactic-co-glycolic acid) foams by use of ice microparticulates. <i>Biomaterials</i> , 2001 , 22, 2563-7	15.6	125
196	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
195	Functional Hydrogels With Tunable Structures and Properties for Tissue Engineering Applications. <i>Frontiers in Chemistry</i> , 2018 , 6, 499	5	110
194	3D Culture of Chondrocytes in Gelatin Hydrogels with Different Stiffness. <i>Polymers</i> , 2016 , 8,	4.5	100
193	Engineering multi-layered skeletal muscle tissue by using 3D microgrooved collagen scaffolds. <i>Biomaterials</i> , 2015 , 73, 23-31	15.6	99
192	Electrospun PHBV/collagen composite nanofibrous scaffolds for tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2007 , 18, 81-94	3.5	98
191	Optical antenna effect in semiconducting nanowires. <i>Nano Letters</i> , 2008 , 8, 1341-6	11.5	96
190	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
189	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
188	Adipogenic differentiation of individual mesenchymal stem cell on different geometric micropatterns. <i>Langmuir</i> , 2011 , 27, 6155-62	4	92
187	Heterotypic cell interactions on a dually patterned surface. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 348, 937-44	3.4	90
186	Gradient micropattern immobilization of EGF to investigate the effect of artificial juxtacrine stimulation. <i>Biomaterials</i> , 2001 , 22, 2453-7	15.6	86
185	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
184	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
183	In vitro evaluation of biodegradation of poly(lactic-co-glycolic acid) sponges. <i>Biomaterials</i> , 2008 , 29, 3438-48	15.6	75
182	Cartilage tissue engineering using funnel-like collagen sponges prepared with embossing ice particulate templates. <i>Biomaterials</i> , 2010 , 31, 5825-35	15.6	74

181	Preparation of a biphasic scaffold for osteochondral tissue engineering. <i>Materials Science and Engineering C</i> , 2006 , 26, 118-123	8.3	73
180	Poly(DL-lactic-co-glycolic acid) sponge hybridized with collagen microsponges and deposited apatite particulates. <i>Journal of Biomedical Materials Research Part B</i> , 2001 , 57, 8-14		73
179	Photo-immobilization of epidermal growth factor enhances its mitogenic effect by artificial juxtacrine signaling. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1997 , 1358, 200-8	4.9	72
178	Chondrogenic differentiation of human mesenchymal stem cells cultured in a cobweb-like biodegradable scaffold. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 322, 50-5	3.4	72
177	Chondrogenic differentiation of human mesenchymal stem cells on photoreactive polymer-modified surfaces. <i>Biomaterials</i> , 2008 , 29, 23-32	15.6	69
176	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
175	Biodegradable polymer with collagen microsphere serves as a new bioengineered cardiovascular prosthesis. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2004 , 128, 472-9	1.5	68
174	Development of extracellular matrices mimicking stepwise adipogenesis of mesenchymal stem cells. <i>Advanced Materials</i> , 2010 , 22, 3042-7	24	67
173	Insight into the interactions between nanoparticles and cells. <i>Biomaterials Science</i> , 2017 , 5, 173-189	7.4	66
172	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
171	Redifferentiation of dedifferentiated bovine chondrocytes when cultured in vitro in a PLGA-collagen hybrid mesh. <i>FEBS Letters</i> , 2003 , 542, 95-9	3.8	61
170	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
169	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
168	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
167	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
166	A hybrid network of synthetic polymer mesh and collagen sponge. <i>Chemical Communications</i> , 2000 , 1505-1506	5.5	50
165	Influence of cell size on cellular uptake of gold nanoparticles. <i>Biomaterials Science</i> , 2016 , 4, 970-8	7.4	50
164	Tissue-engineered urinary bladder wall using PLGA mesh-collagen hybrid scaffolds: a comparison study of collagen sponge and gel as a scaffold. <i>Journal of Pediatric Surgery</i> , 2003 , 38, 1781-4	2.6	49

163	Synthesis of carboxylated poly(NIPAAm) oligomers and their application to form thermo-reversible polymer-enzyme conjugates. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1994 , 5, 371-82	3.5	49
162	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
161	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
160	Uptake and intracellular distribution of collagen-functionalized single-walled carbon nanotubes. <i>Biomaterials</i> , 2013 , 34, 2472-9	15.6	46
159	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
158	A cell leakproof PLGA-collagen hybrid scaffold for cartilage tissue engineering. <i>Biotechnology Progress</i> , 2010 , 26, 819-26	2.8	45
157	Evaluation of PLLA-collagen hybrid sponge as a scaffold for cartilage tissue engineering. <i>Materials Science and Engineering C</i> , 2004 , 24, 365-372	8.3	44
156	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
155	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
154	Preparation of Novel Collagen Sponges Using an Ice Particulate Template. <i>Journal of Bioactive and Compatible Polymers</i> , 2010 , 25, 360-373	2	42
153	Preparation of porous collagen scaffolds with micropatterned structures. <i>Advanced Materials</i> , 2012 , 24, 4311-6	24	40
152	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
151	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
150	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	3.3	38
149	Effect of cell density on adipogenic differentiation of mesenchymal stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 381, 322-7	3.4	38
148	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
147	Fabrication of Highly Crosslinked Gelatin Hydrogel and Its Influence on Chondrocyte Proliferation and Phenotype. <i>Polymers</i> , 2017 , 9,	4.5	37
146	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

145	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
144	Influence of Sulfate-Reducing Bacteria on the Passivity of Type 304 Austenitic Stainless Steel. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 3140-3146	3.9	37
143	Osteogenic differentiation of human mesenchymal stem cells on chargeable polymer-modified surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 87, 903-12	5.4	37
142	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
141	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
140	Three-dimensional Cultures of Rat Pancreatic RIN-5F Cells in Porous PLGA-collagen Hybrid Scaffolds. <i>Journal of Bioactive and Compatible Polymers</i> , 2009 , 24, 25-42	2	35
139	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
138	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
137	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
136	Photolithographic Synthesis of Hydrogels. <i>Macromolecules</i> , 1998 , 31, 4379-4381	5.5	33
135	Nanoencapsulation of individual mammalian cells with cytoprotective polymer shell. <i>Biomaterials</i> , 2017 , 133, 253-262	15.6	32
134	Biodegradable porous scaffolds for tissue engineering. <i>Journal of Artificial Organs</i> , 2002 , 5, 77-83	1.8	32
133	Encapsulation of individual living cells with enzyme responsive polymer nanoshell. <i>Biomaterials</i> , 2019 , 197, 317-326	15.6	31
132	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
131	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
130	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
129	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
128	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

127	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
126	Effects of extracellular matrices derived from different cell sources on chondrocyte functions. <i>Biotechnology Progress</i> , 2011 , 27, 788-95	2.8	28
125	Osteochondral tissue engineering using a PLGA/collagen hybrid mesh. <i>Materials Science and Engineering C</i> , 2006 , 26, 124-129	8.3	28
124	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
123	Influence of microporous gelatin hydrogels on chondrocyte functions. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 5753-5762	7.3	26
122	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
121	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
120	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
119	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
118	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
117	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
116	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
115	Thermoresponsive Microtextured Culture Surfaces Facilitate Fabrication of Capillary Networks. <i>Advanced Materials</i> , 2007 , 19, 3633-3636	24	24
114	Custom-shaping system for bone regeneration by seeding marrow stromal cells onto a web-like biodegradable hybrid sheet. <i>Cell and Tissue Research</i> , 2004 , 316, 141-53	4.2	24
113	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
112	Application of PLGA-collagen hybrid mesh for three-dimensional culture of canine anterior cruciate ligament cells. <i>Materials Science and Engineering C</i> , 2004 , 24, 861-866	8.3	23
111	Manipulating Cell Nanomechanics Using Micropatterns. <i>Advanced Functional Materials</i> , 2016 , 26, 7634-7643	6.5	23
110	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

109	Solution viscosity regulates chondrocyte proliferation and phenotype during 3D culture. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 7713-7722	7.3	23
108	Ligand density-dependent influence of arginine-glycine-spartate functionalized gold nanoparticles on osteogenic and adipogenic differentiation of mesenchymal stem cells. <i>Nano Research</i> , 2018 , 11, 1247-1261	10	23
107	Single mammalian cell encapsulation by in situ polymerization. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 7662-7668	7.3	22
106	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
105	Grid pattern of nanothick microgel network. <i>Langmuir</i> , 2007 , 23, 5864-7	4	21
104	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
103	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
102	Collagen scaffolds with controlled insulin release and controlled pore structure for cartilage tissue engineering. <i>BioMed Research International</i> , 2014 , 2014, 623805	3	20
101	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
100	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
99	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
98	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
97	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
96	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
95	Stem cell culture using cell-derived substrates. <i>Biomaterials Science</i> , 2014 , 2, 1595-1603	7.4	16
94	Adipogenic differentiation of mesenchymal stem cells on micropatterned polyelectrolyte surfaces. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 230-9	1.3	16
93	Influence of Cell Morphology on Mesenchymal Stem Cell Transfection. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1932-1941	9.5	16
92	Long-term stem cell labeling by collagen-functionalized single-walled carbon nanotubes. <i>Nanoscale</i> , 2014 , 6, 1552-9	7.7	15

91	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
90	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
89	Morphological and Mechanical Properties of Osteosarcoma Microenvironment Cells Explored by Atomic Force Microscopy. <i>Analytical Sciences</i> , 2016 , 32, 1177-1182	1.7	15
88	Photothermal Ablation of Cancer Cells by Albumin-Modified Gold Nanorods and Activation of Dendritic Cells. <i>Materials</i> , 2018 , 12,	3.5	15
87	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
86	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
85	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
84	Chondrogenic differentiation of mesenchymal stem cells in a leakproof collagen sponge. <i>Materials Science and Engineering C</i> , 2008 , 28, 195-201	8.3	14
83	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
82	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
81	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
80	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
79	From mouse to mouse-ear cress: Nanomaterials as vehicles in plant biotechnology. <i>Exploration</i> , 2021 , 1, 9-20		13
78	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
77	Cell adhesion of bone marrow cells, chondrocytes, ligament cells and synovial cells on a PLGA/collagen hybrid mesh. <i>Materials Science and Engineering C</i> , 2004 , 24, 867-873	8.3	12
76	InGaAs quantum wells on wafer-bonded InP/GaAs substrates. <i>Journal of Applied Physics</i> , 2005 , 98, 093526	6.5	12
75	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
74	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

73	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
72	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
71	Culture of bovine articular chondrocytes in funnel-like collagen-PLGA hybrid sponges. <i>Biomedical Materials (Bristol)</i> , 2011 , 6, 045011	3.5	11
70	Nuclear deformation and expression change of cartilaginous genes during in vitro expansion of chondrocytes. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 374, 688-92	3.4	11
69	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
68	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
67	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
66	Cellular effects of magnetic nanoparticles explored by atomic force microscopy. <i>Biomaterials Science</i> , 2015 , 3, 1284-90	7.4	10
65	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
64	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
63	Effects of extracellular matrix proteins in chondrocyte-derived matrices on chondrocyte functions. <i>Biotechnology Progress</i> , 2013 , 29, 1331-6	2.8	9
62	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
61	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
60	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
59	Targeting ligand-functionalized photothermal scaffolds for cancer cell capture and in situ ablation. <i>Biomaterials Science</i> , 2017 , 5, 2276-2284	7.4	8
58	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
57	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
56	Influence of the Mn concentration on the electromechanical response d_{33} of Mn-doped ZnO films. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010 , 4, 209-211	2.5	8

55	First-Principles Study on the Electronic Structure and Elastic Properties of YCu, DyCu and YAg. <i>Materials Transactions</i> , 2008 , 49, 2480-2483	1.3	8
54	Equal Channel Angular Pressing Die Outer Corner Angle Influence on Flow and Strain Homogeneity. <i>Advanced Engineering Materials</i> , 2007 , 9, 572-576	3.5	8
53	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
52	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
51	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
50	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
49	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
48	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
47	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
46	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
45	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
44	Change of the mechanical properties of chondrocytes during expansion culture. <i>Soft Matter</i> , 2010 , 6, 2462	3.6	6
43	X-ray photoelectron spectroscopy analysis of Mo metal surface exposed to sulfate-reducing bacteria. <i>Surface and Interface Analysis</i> , 1999 , 27, 230-235	1.5	6
42	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
41	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
40	Photo-Crosslinkable Hydrogels for Tissue Engineering Applications 2018 , 277-300		6
39	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
38	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

37	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
36	Interaction of Immune Cells and Tumor Cells in Gold Nanorod-Gelatin Composite Porous Scaffolds. <i>Nanomaterials</i> , 2019 , 9,	5.4	3
35	Focus on nanobiomaterials and technologies for breakthrough in future medicine. <i>Science and Technology of Advanced Materials</i> , 2010 , 11, 010302	7.1	3
34	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
33	Preparation of Polymer Scaffolds by Ice Particulate Method for Tissue Engineering 2016 , 77-95		3
32	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
31	Preparation of polymer-based porous scaffolds for tissue engineering 2016 , 105-125		2
30	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
29	Preparation of mesh-like collagen scaffolds for tissue engineering. <i>Materials Advances</i> , 2022 , 3, 1556-1564	9.5	2
28	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
27	Regulation of Stem Cell Functions by Micro-Patterned Structures. <i>Advances in Experimental Medicine and Biology</i> , 2020 , 1250, 141-155	3.6	2
26	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
25	Biomimetic Extracellular Matrices and Scaffolds Prepared from Cultured Cells. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1078, 465-474	3.6	2
24	Collagen-Based Porous Scaffolds for Tissue Engineering 2016 , 1-15		1
23	Design and Synthesis of Photoreactive Polymers for Biomedical Applications 2013 , 253-278		1
22	Collagen-based scaffolds 2008 , 396-415		1
21	Micropattern-Controlled Cell Density and Its Effect on Gene Transfection of Mesenchymal Stem Cells. <i>Advanced Materials Interfaces</i> , 2010 , 2101978	4.6	1
20	Hybrid Porous Scaffolds of Biodegradable Synthetic Polymers and Collagen for Tissue Engineering 2012 , 417-434		1

19	Surface Modification for Medical Devices 2018 , 133-177		1
18	Scaffold Design for Tissue Engineering 2002 , 2, 67		1
17	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
16	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
15	Chapter 2: Preparation of Tissue Development [Mimicking Matrices and Their Applications. <i>Frontiers in Nanobiomedical Research</i> , 2014 , 61-75		
14	Preparation of Porous Scaffolds from Ice Particulate Templates for Tissue Engineering 2012 , 47-61		
13	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}		
12	Polyfunctional Scaffolds for Tissue Engineering. <i>Journal of Biomechanical Science and Engineering</i> , 2006 , 1, 8-15	0.8	
11	Osteogenesis with Cells and Scaffold.. <i>Journal of Hard Tissue Biology</i> , 2005 , 14, 255-257	0.4	
10	Biodegradability Evaluation of Scaffolds. <i>Journal of Life Support Engineering</i> , 2007 , 19, 164-164	0	
9	Preparation of Polymeric Porous Scaffolds for Regenerative Medicine. <i>Membrane</i> , 2018 , 43, 215-223	0	
8	Scaffolds, Porous Polymer: Tissue Engineering7085-7092		
7	Scaffolds, Porous Polymer: Tissue Engineering 2017 , 1374-1381		
6	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	
5	Biomimetic ECM Scaffolds Prepared from Cultured Cells243-252		
4	Polymeric and Biomimetic ECM Scaffolds for Tissue Engineering 2016 , 41-56		
3	Decellularization Techniques for Preparation of Decellularized Extracellular Matrices in Tissue Engineering Applications 2019 , 1-15		
2	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	

- 1 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