

Guoping Chen

List of Publications by Year in descending order

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224
papers

12,474
citations

28274
55
h-index

30922
102
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233
all docs

233
docs citations

233
times ranked

13733
citing authors

#	ARTICLE	IF	CITATIONS
1	Graft copolymers that exhibit temperature-induced phase transitions over a wide range of pH. <i>Nature</i> , 1995, 373, 49-52.	27.8	1,222
2	Scaffold Design for Tissue Engineering. <i>Macromolecular Bioscience</i> , 2002, 2, 67-77.	4.1	573
3	Growth factor combination for chondrogenic induction from human mesenchymal stem cell. <i>Biochemical and Biophysical Research Communications</i> , 2004, 320, 914-919.	2.1	378
4	Pore size effect of collagen scaffolds on cartilage regeneration. <i>Acta Biomaterialia</i> , 2014, 10, 2005-2013.	8.3	263
5	Decellularized matrices for tissue engineering. <i>Expert Opinion on Biological Therapy</i> , 2010, 10, 1717-1728.	3.1	257
6	Silicate bioceramics induce angiogenesis during bone regeneration. <i>Acta Biomaterialia</i> , 2012, 8, 341-349.	8.3	240
7	The influence of structural design of PLGA/collagen hybrid scaffolds in cartilage tissue engineering. <i>Biomaterials</i> , 2010, 31, 2141-2152.	11.4	219
8	Functional Hydrogels With Tunable Structures and Properties for Tissue Engineering Applications. <i>Frontiers in Chemistry</i> , 2018, 6, 499.	3.6	211
9	Development of biodegradable porous scaffolds for tissue engineering. <i>Materials Science and Engineering C</i> , 2001, 17, 63-69.	7.3	199
10	Cultured cell-derived extracellular matrix scaffolds for tissue engineering. <i>Biomaterials</i> , 2011, 32, 9658-9666.	11.4	198
11	Optical Properties of Rectangular Cross-sectional ZnS Nanowires. <i>Nano Letters</i> , 2004, 4, 1663-1668.	9.1	194
12	Gold nanoparticle size and shape influence on osteogenesis of mesenchymal stem cells. <i>Nanoscale</i> , 2016, 8, 7992-8007.	5.6	193
13	Stimulatory effects of the ionic products from Ca-Mg-Si bioceramics on both osteogenesis and angiogenesis in vitro. <i>Acta Biomaterialia</i> , 2013, 9, 8004-8014.	8.3	192
14	Culturing of skin fibroblasts in a thin PLGA-collagen hybrid mesh. <i>Biomaterials</i> , 2005, 26, 2559-2566.	11.4	182
15	A biodegradable hybrid sponge nested with collagen microsponges. , 2000, 51, 273-279.		179
16	Cellular control of tissue architectures using a three-dimensional tissue fabrication technique. <i>Biomaterials</i> , 2007, 28, 4939-4946.	11.4	177
17	Autologous extracellular matrix scaffolds for tissue engineering. <i>Biomaterials</i> , 2011, 32, 2489-2499.	11.4	174
18	Tissue Engineering of Cartilage Using a Hybrid Scaffold of Synthetic Polymer and Collagen. <i>Tissue Engineering</i> , 2004, 10, 323-330.	4.6	160

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19	3D Culture of Chondrocytes in Gelatin Hydrogels with Different Stiffness. <i>Polymers</i> , 2016, 8, 269.	4.5	160
20	Preparation and properties of thermoreversible, phase-separating enzyme-oligo(N-isopropylacrylamide) conjugates. <i>Bioconjugate Chemistry</i> , 1993, 4, 509-514.	3.6	156
21	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, 67A, 1170-1180.	4.0	156
22	Hybrid Biomaterials for Tissue Engineering: A Preparative Method for PLA or PLGA-Collagen Hybrid Sponges. <i>Advanced Materials</i> , 2000, 12, 455-457.	21.0	153
23	Gold nanoparticles with different charge and moiety induce differential cell response on mesenchymal stem cell osteogenesis. <i>Biomaterials</i> , 2015, 54, 226-236.	11.4	143
24	Decellularized Extracellular Matrix as an <i>In Vitro</i> Model to Study the Comprehensive Roles of the ECM in Stem Cell Differentiation. <i>Stem Cells International</i> , 2016, 2016, 1-10.	2.5	141
25	Preparation of poly(L-lactic acid) and poly(DL-lactic-co-glycolic acid) foams by use of ice microparticulates. <i>Biomaterials</i> , 2001, 22, 2563-2567.	11.4	131
26	Engineering multi-layered skeletal muscle tissue by using 3D microgrooved collagen scaffolds. <i>Biomaterials</i> , 2015, 73, 23-31.	11.4	126
27	Electrospun PHBV/collagen composite nanofibrous scaffolds for tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2007, 18, 81-94.	3.5	111
28	Regulating the stemness of mesenchymal stem cells by tuning micropattern features. <i>Journal of Materials Chemistry B</i> , 2016, 4, 37-45.	5.8	111
29	Preparation of dexamethasone-loaded biphasic calcium phosphate nanoparticles/collagen porous composite scaffolds for bone tissue engineering. <i>Acta Biomaterialia</i> , 2018, 67, 341-353.	8.3	110
30	Optical Antenna Effect in Semiconducting Nanowires. <i>Nano Letters</i> , 2008, 8, 1341-1346.	9.1	108
31	Development of Stepwise Osteogenesis-mimicking Matrices for the Regulation of Mesenchymal Stem Cell Functions. <i>Journal of Biological Chemistry</i> , 2009, 284, 31164-31173.	3.4	105
32	Adipogenic Differentiation of Individual Mesenchymal Stem Cell on Different Geometric Micropatterns. <i>Langmuir</i> , 2011, 27, 6155-6162.	3.5	103
33	Heterotypic cell interactions on a dually patterned surface. <i>Biochemical and Biophysical Research Communications</i> , 2006, 348, 937-944.	2.1	97
34	Spatial immobilization of bone morphogenetic protein-4 in a collagen-PLGA hybrid scaffold for enhanced osteoinductivity. <i>Biomaterials</i> , 2012, 33, 6140-6146.	11.4	93
35	Gradient micropattern immobilization of EGF to investigate the effect of artificial juxtacrine stimulation. <i>Biomaterials</i> , 2001, 22, 2453-2457.	11.4	92
36	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, 100A, 2507-2516.	4.0	92

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37	Cartilage tissue engineering using funnel-like collagen sponges prepared with embossing ice particulate templates. <i>Biomaterials</i> , 2010, 31, 5825-5835.	11.4	83
38	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.	3.1	82
39	Gelatin Scaffolds with Controlled Pore Structure and Mechanical Property for Cartilage Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , 2016, 22, 189-198.	2.1	82
40	Chondrogenic differentiation of human mesenchymal stem cells cultured in a cobweb-like biodegradable scaffold. <i>Biochemical and Biophysical Research Communications</i> , 2004, 322, 50-55.	2.1	81
41	In vitro evaluation of biodegradation of poly(lactic-co-glycolic acid) sponges. <i>Biomaterials</i> , 2008, 29, 3438-3443.	11.4	80
42	Preparation of a biphasic scaffold for osteochondral tissue engineering. <i>Materials Science and Engineering C</i> , 2006, 26, 118-123.	7.3	79
43	Insight into the interactions between nanoparticles and cells. <i>Biomaterials Science</i> , 2017, 5, 173-189.	5.4	78
44	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, 200-208.	4.1	77
45	Biodegradable polymer with collagen microsphere serves as a new bioengineered cardiovascular prosthesis. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2004, 128, 472-479.	0.8	77
46	Chondrogenic differentiation of human mesenchymal stem cells on photoreactive polymer-modified surfaces. <i>Biomaterials</i> , 2008, 29, 23-32.	11.4	75
47	Development of Extracellular Matrices Mimicking Stepwise Adipogenesis of Mesenchymal Stem Cells. <i>Advanced Materials</i> , 2010, 22, 3042-3047.	21.0	75
48	Influence of stepwise chondrogenesis-mimicking 3D extracellular matrix on chondrogenic differentiation of mesenchymal stem cells. <i>Biomaterials</i> , 2015, 52, 199-207.	11.4	74
49	Redifferentiation of dedifferentiated bovine chondrocytes when cultured in vitro in a PLGA-collagen hybrid mesh. <i>FEBS Letters</i> , 2003, 542, 95-99.	2.8	72
50	Influence of cell size on cellular uptake of gold nanoparticles. <i>Biomaterials Science</i> , 2016, 4, 970-978.	5.4	70
51	The balance of osteogenic and adipogenic differentiation in human mesenchymal stem cells by matrices that mimic stepwise tissue development. <i>Biomaterials</i> , 2012, 33, 2025-2031.	11.4	68
52	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.	8.0	66
53	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.	6.1	62
54	Fabrication of Highly Crosslinked Gelatin Hydrogel and Its Influence on Chondrocyte Proliferation and Phenotype. <i>Polymers</i> , 2017, 9, 309.	4.5	62

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55	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.	5.8	58
56	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, 371-382.	3.5	57
57	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, 1781-1784.	1.6	57
58	A hybrid network of synthetic polymer mesh and collagen sponge. <i>Chemical Communications</i> , 2000, , 1505-1506.	4.1	55
59	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, 575-580.	1.4	55
60	Uptake and intracellular distribution of collagen-functionalized single-walled carbon nanotubes. <i>Biomaterials</i> , 2013, 34, 2472-2479.	11.4	55
61	Evaluation of PLLA-collagen hybrid sponge as a scaffold for cartilage tissue engineering. <i>Materials Science and Engineering C</i> , 2004, 24, 365-372.	7.3	54
62	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.	3.3	53
63	Superior disinfection effect of <i>Escherichia coli</i> 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.	7.5	53
64	In vitro Proliferation and Osteogenic Differentiation of Human Bone Marrow-derived Mesenchymal Stem Cells Cultured with Hardystonite (Ca ₂ ZnSi ₂ O ₇) and β -TCP Ceramics. <i>Journal of Biomaterials Applications</i> , 2010, 25, 39-56.	2.4	51
65	A cell leakproof PLGA-collagen hybrid scaffold for cartilage tissue engineering. <i>Biotechnology Progress</i> , 2010, 26, 819-826.	2.6	49
66	Preparation of Novel Collagen Sponges Using an Ice Particulate Template. <i>Journal of Bioactive and Compatible Polymers</i> , 2010, 25, 360-373.	2.1	49
67	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.	12.7	49
68	Preparation of Porous Collagen Scaffolds with Micropatterned Structures. <i>Advanced Materials</i> , 2012, 24, 4311-4316.	21.0	48
69	Nanoencapsulation of individual mammalian cells with cytoprotective polymer shell. <i>Biomaterials</i> , 2017, 133, 253-262.	11.4	48
70	Dependence of Spreading and Differentiation of Mesenchymal Stem Cells on Micropatterned Surface Area. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-9.	2.7	47
71	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.	2.1	47
72	Encapsulation of individual living cells with enzyme responsive polymer nanoshell. <i>Biomaterials</i> , 2019, 197, 317-326.	11.4	47

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73	Polyethylene glycol (PEG)-modified Ag/Ag ₂ O/Ag ₃ PO ₄ /Bi ₂ WO ₆ photocatalyst film with enhanced efficiency and stability under solar light. <i>Journal of Colloid and Interface Science</i> , 2020, 569, 101-113.	9.4	47
74	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.	2.9	46
75	Effect of cell density on adipogenic differentiation of mesenchymal stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2009, 381, 322-327.	2.1	46
76	Preparation of chitosan scaffolds with a hierarchical porous structure. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010, 93B, 341-350.	3.4	44
77	Osteogenic differentiation of human mesenchymal stem cells on chargeable polymer-modified surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 87A, 903-912.	4.0	43
78	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, 7632-7644.	11.4	43
79	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, 3388-3395.	4.0	43
80	Porous Scaffolds for Regeneration of Cartilage, Bone and Osteochondral Tissue. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1058, 171-191.	1.6	43
81	Influence of Cell Spreading Area on the Osteogenic Commitment and Phenotype Maintenance of Mesenchymal Stem Cells. <i>Scientific Reports</i> , 2019, 9, 6891.	3.3	43
82	A Novel Cylinder-Type Poly(L-Lactic Acid)-Collagen Hybrid Sponge for Cartilage Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , 2010, 16, 329-338.	2.1	42
83	Maintenance of cartilaginous gene expression on extracellular matrix derived from serially passaged chondrocytes during <i>in vitro</i> chondrocyte expansion. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 694-702.	4.0	42
84	Preparation of collagen porous scaffolds with a gradient pore size structure using ice particulates. <i>Materials Letters</i> , 2013, 107, 280-283.	2.6	40
85	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.	5.8	40
86	Photolithographic Synthesis of Hydrogels. <i>Macromolecules</i> , 1998, 31, 4379-4381.	4.8	39
87	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.	2.1	39
88	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.	5.0	38
89	Influence of microporous gelatin hydrogels on chondrocyte functions. <i>Journal of Materials Chemistry B</i> , 2017, 5, 5753-5762.	5.8	38
90	Biodegradable porous scaffolds for tissue engineering. <i>Journal of Artificial Organs</i> , 2002, 5, 77-83.	0.9	37

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91	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.	5.0	36
92	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.	5.8	36
93	Ligand density-dependent influence of arginine-glycine-aspartate functionalized gold nanoparticles on osteogenic and adipogenic differentiation of mesenchymal stem cells. <i>Nano Research</i> , 2018, 11, 1247-1261.	10.4	36
94	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.	6.2	36
95	Preparation of Collagen-Glycosaminoglycan Sponges with Open Surface Porous Structures Using Ice Particulate Template Method. <i>Macromolecular Bioscience</i> , 2010, 10, 860-871.	4.1	34
96	Structural changes and biodegradation of PLLA, PCL, and PLGA sponges during in vitro incubation. <i>Polymer Engineering and Science</i> , 2010, 50, 1895-1903.	3.1	34
97	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.	5.8	33
98	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, 90B, 864-872.	3.4	32
99	PLGA-collagen-ECM hybrid scaffolds functionalized with biomimetic extracellular matrices secreted by mesenchymal stem cells during stepwise osteogenesis- <i>co</i> -adipogenesis. <i>Journal of Materials Chemistry B</i> , 2019, 7, 7195-7206.	5.8	32
100	Solution viscosity regulates chondrocyte proliferation and phenotype during 3D culture. <i>Journal of Materials Chemistry B</i> , 2019, 7, 7713-7722.	5.8	32
101	Nanomaterials and their composite scaffolds for photothermal therapy and tissue engineering applications. <i>Science and Technology of Advanced Materials</i> , 2021, 22, 404-428.	6.1	32
102	Effects of extracellular matrices derived from different cell sources on chondrocyte functions. <i>Biotechnology Progress</i> , 2011, 27, 788-795.	2.6	31
103	Interplay between chemical state, electric properties, and ferromagnetism in Fe-doped ZnO films. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	31
104	Preparation of gelatin/Fe ₃ O ₄ composite scaffolds for enhanced and repeatable cancer cell ablation. <i>Journal of Materials Chemistry B</i> , 2016, 4, 5664-5672.	5.8	31
105	Regulation of mesenchymal stem cell functions by micro-nano hybrid patterned surfaces. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5424-5434.	5.8	31
106	Osteochondral tissue engineering using a PLGA-collagen hybrid mesh. <i>Materials Science and Engineering C</i> , 2006, 26, 124-129.	7.3	30
107	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, 141-153.	2.9	29
108	Influence of cell protrusion and spreading on adipogenic differentiation of mesenchymal stem cells on micropatterned surfaces. <i>Soft Matter</i> , 2013, 9, 4160.	2.7	29

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109	Manipulating Cell Nanomechanics Using Micropatterns. <i>Advanced Functional Materials</i> , 2016, 26, 7634-7643.	14.9	29
110	Matrices secreted during simultaneous osteogenesis and adipogenesis of mesenchymal stem cells affect stem cells differentiation. <i>Acta Biomaterialia</i> , 2016, 35, 185-193.	8.3	28
111	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.	5.8	28
112	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.	4.4	28
113	Versatile nanoarchitectonics of Pt with morphology control of oxygen reduction reaction catalysts. <i>Science and Technology of Advanced Materials</i> , 2022, 23, 413-423.	6.1	28
114	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.	2.1	27
115	Micropattern-controlled chirality of focal adhesions regulates the cytoskeletal arrangement and gene transfection of mesenchymal stem cells. <i>Biomaterials</i> , 2021, 271, 120751.	11.4	27
116	From mouse to mouseâ€œear cross: Nanomaterials as vehicles in plant biotechnology. <i>Exploration</i> , 2021, 1, 9-20.	11.0	27
117	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.	11.4	27
118	Thermoresponsive Microtextured Culture Surfaces Facilitate Fabrication of Capillary Networks. <i>Advanced Materials</i> , 2007, 19, 3633-3636.	21.0	26
119	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.	7.6	26
120	Influence of Cell Morphology on Mesenchymal Stem Cell Transfection. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 1932-1941.	8.0	26
121	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.	8.3	26
122	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, 381-386.	5.0	25
123	Single mammalian cell encapsulation by in situ polymerization. <i>Journal of Materials Chemistry B</i> , 2016, 4, 7662-7668.	5.8	25
124	Photothermal Ablation of Cancer Cells by Albumin-Modified Gold Nanorods and Activation of Dendritic Cells. <i>Materials</i> , 2019, 12, 31.	2.9	25
125	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.	7.3	24
126	Collagen Scaffolds with Controlled Insulin Release and Controlled Pore Structure for Cartilage Tissue Engineering. <i>BioMed Research International</i> , 2014, 2014, 1-10.	1.9	24

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127	Promoted Angiogenesis and Osteogenesis by Dexamethasone-loaded Calcium Phosphate Nanoparticles/Collagen Composite Scaffolds with Microgroove Networks. <i>Scientific Reports</i> , 2018, 8, 14143.	3.3	24
128	PLGA-collagen-ECM hybrid meshes mimicking stepwise osteogenesis and their influence on the osteogenic differentiation of hMSCs. <i>Biofabrication</i> , 2020, 12, 025027.	7.1	24
129	Exploring adipogenic differentiation of a single stem cell on poly(acrylic acid) and polystyrene micropatterns. <i>Soft Matter</i> , 2012, 8, 8429.	2.7	22
130	Grid Pattern of Nanothick Microgel Network. <i>Langmuir</i> , 2007, 23, 5864-5867.	3.5	21
131	Morphological and Mechanical Properties of Osteosarcoma Microenvironment Cells Explored by Atomic Force Microscopy. <i>Analytical Sciences</i> , 2016, 32, 1177-1182.	1.6	21
132	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.	2.2	21
133	ECM scaffolds mimicking extracellular matrices of endochondral ossification for the regulation of mesenchymal stem cell differentiation. <i>Acta Biomaterialia</i> , 2020, 114, 158-169.	8.3	21
134	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.	5.8	20
135	Mechanism of Regulation of PPARC Expression of Mesenchymal Stem Cells by Osteogenesis-Mimicking Extracellular Matrices. <i>Bioscience, Biotechnology and Biochemistry</i> , 2011, 75, 2099-2104.	1.3	19
136	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.	4.1	19
137	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.	12.7	19
138	Adipogenic Differentiation of Mesenchymal Stem Cells on Micropatterned Polyelectrolyte Surfaces. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 230-239.	0.9	18
139	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.	7.3	18
140	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, 1374-1386.	3.5	18
141	Stem cell culture using cell-derived substrates. <i>Biomaterials Science</i> , 2014, 2, 1595-1603.	5.4	18
142	Effect of high molecular weight hyaluronic acid on chondrocytes cultured in collagen/hyaluronic acid porous scaffolds. <i>RSC Advances</i> , 2015, 5, 94405-94410.	3.6	18
143	Cell response to single-walled carbon nanotubes in hybrid porous collagen sponges. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 126, 63-69.	5.0	18
144	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.	5.8	18

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145	Osteogenic and Adipogenic Differentiation of Mesenchymal Stem Cells in Gelatin Solutions of Different Viscosities. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000617.	7.6	18
146	PLGA“collagen”BPNS Bifunctional composite mesh for photothermal therapy of melanoma and skin tissue engineering. <i>Journal of Materials Chemistry B</i> , 2022, 10, 204-213.	5.8	17
147	Visible light active graphene oxide modified Ag/Ag ₂ O/BiPO ₄ /Bi ₂ WO ₆ for photocatalytic removal of organic pollutants and bacteria in wastewater. <i>Chemosphere</i> , 2022, 306, 135512.	8.2	17
148	Chondrogenic differentiation of mesenchymal stem cells in a leakproof collagen sponge. <i>Materials Science and Engineering C</i> , 2008, 28, 195-201.	7.3	16
149	Spatially Guided Angiogenesis by Three-Dimensional Collagen Scaffolds Micropatterned with Vascular Endothelial Growth Factor. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012, 23, 2185-2195.	3.5	16
150	Long-term stem cell labeling by collagen-functionalized single-walled carbon nanotubes. <i>Nanoscale</i> , 2014, 6, 1552-1559.	5.6	16
151	Enhanced spin injection and voltage bias in (Zn,Co)O/MgO/(Zn,Co)O magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	15
152	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.	3.6	14
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