

Hongsong Fan

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115
papers

3,112
citations

33
h-index

50
g-index

121
ext. papers

3,827
ext. citations

7.7
avg, IF

5.31
L-index

#	Paper	IF	Citations
115	Synthesis and characterization of photocrosslinkable gelatin and silk fibroin interpenetrating polymer network hydrogels. <i>Acta Biomaterialia</i> , 2011 , 7, 2384-93	10.8	205
114	Fabrication, biological effects, and medical applications of calcium phosphate nanoceramics. <i>Materials Science and Engineering Reports</i> , 2010 , 70, 225-242	30.9	140
113	Preparation of collagen-hondroitin sulfate-hyaluronic acid hybrid hydrogel scaffolds and cell compatibility in vitro. <i>Carbohydrate Polymers</i> , 2011 , 84, 118-125	10.3	123
112	The material and biological characteristics of osteoinductive calcium phosphate ceramics. <i>International Journal of Energy Production and Management</i> , 2018 , 5, 43-59	5.3	120
111	PPy@MIL-100 Nanoparticles as a pH- and Near-IR-Irradiation-Responsive Drug Carrier for Simultaneous Photothermal Therapy and Chemotherapy of Cancer Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 34209-34217	9.5	100
110	Photo-cross-linkable methacrylated gelatin and hydroxyapatite hybrid hydrogel for modularly engineering biomimetic osteon. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10386-94	9.5	96
109	Collagen hydrogel as an immunomodulatory scaffold in cartilage tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014 , 102, 337-44	3.5	95
108	Preparation of nano-hydroxyapatite particles with different morphology and their response to highly malignant melanoma cells in vitro. <i>Applied Surface Science</i> , 2008 , 255, 357-360	6.7	78
107	An improved complex gel of modified gellan gum and carboxymethyl chitosan for chondrocytes encapsulation. <i>Carbohydrate Polymers</i> , 2012 , 88, 46-53	10.3	74
106	Probing intermediates of the induction period prior to nucleation and growth of semiconductor quantum dots. <i>Nature Communications</i> , 2017 , 8, 15467	17.4	60
105	Thermally-induced reversible structural isomerization in colloidal semiconductor CdS magic-size clusters. <i>Nature Communications</i> , 2018 , 9, 2499	17.4	60
104	Microfluidic-based generation of functional microfibers for biomimetic complex tissue construction. <i>Acta Biomaterialia</i> , 2016 , 38, 153-62	10.8	56
103	Continuous Fabrication and Assembly of Spatial Cell-Laden Fibers for a Tissue-Like Construct via a Photolithographic-Based Microfluidic Chip. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 14606-14617	9.5	50
102	Antitumor Effect by Hydroxyapatite Nanospheres: Activation of Mitochondria-Dependent Apoptosis and Negative Regulation of Phosphatidylinositol-3-Kinase/Protein Kinase B Pathway. <i>ACS Nano</i> , 2018 , 12, 7838-7854	16.7	50
101	Two-Step Nucleation of CdS Magic-Size Nanocluster MSCB11. <i>Chemistry of Materials</i> , 2017 , 29, 5727-5735	5.6	49
100	A spatial patternable macroporous hydrogel with cell-affinity domains to enhance cell spreading and differentiation. <i>Biomaterials</i> , 2014 , 35, 4759-68	15.6	47
99	Cell-Laden Electroconductive Hydrogel Simulating Nerve Matrix To Deliver Electrical Cues and Promote Neurogenesis. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22152-22163	9.5	46

98	Biomimetic interpenetrating polymer network hydrogels based on methacrylated alginate and collagen for 3D pre-osteoblast spreading and osteogenic differentiation. <i>Soft Matter</i> , 2012 , 8, 2398	3.6	46
97	In vivo cartilage engineering with collagen hydrogel and allogeneous chondrocytes after diffusion chamber implantation in immunocompetent host. <i>Tissue Engineering - Part A</i> , 2009 , 15, 2145-53	3.9	45
96	Porous hydroxyapatite and biphasic calcium phosphate ceramics promote ectopic osteoblast differentiation from mesenchymal stem cells. <i>Science and Technology of Advanced Materials</i> , 2009 , 10, 025003	7.1	45
95	Effects of Composition and Mechanical Property of Injectable Collagen I/II Composite Hydrogels on Chondrocyte Behaviors. <i>Tissue Engineering - Part A</i> , 2016 , 22, 899-906	3.9	44
94	Individual Pathways in the Formation of Magic-Size Clusters and Conventional Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3660-3666	6.4	43
93	A biocompatible hydrogel with improved stiffness and hydrophilicity for modular tissue engineering assembly. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 2753-2763	7.3	40
92	Interpreting the Ultraviolet Absorption in the Spectrum of 415 nm-Bandgap CdSe Magic-Size Clusters. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 2818-2824	6.4	40
91	Fabrication and characterization of collagen-based injectable and self-crosslinkable hydrogels for cell encapsulation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 167, 448-456	6	39
90	Osteoinduction of porous titanium: a comparative study between acid-alkali and chemical-thermal treatments. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010 , 95, 387-96	3.5	39
89	Modulation of immunological properties of allogeneic mesenchymal stem cells by collagen scaffolds in cartilage tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 98, 332-41	5.4	38
88	Precursor Self-Assembly Identified as a General Pathway for Colloidal Semiconductor Magic-Size Clusters. <i>Advanced Science</i> , 2018 , 5, 1800632	13.6	38
87	An efficient method to synthesize carbonated nano hydroxyapatite assisted by poly(ethylene glycol). <i>Materials Letters</i> , 2012 , 75, 26-28	3.3	37
86	Formation of colloidal alloy semiconductor CdTeSe magic-size clusters at room temperature. <i>Nature Communications</i> , 2019 , 10, 1674	17.4	36
85	Evaluation of novel in situ synthesized nano-hydroxyapatite/collagen/alginate hydrogels for osteochondral tissue engineering. <i>Biomedical Materials (Bristol)</i> , 2014 , 9, 065004	3.5	35
84	Surface structural biomimetics and the osteoinduction of calcium phosphate biomaterials. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 808-13	1.3	33
83	Evolution of Two Types of CdTe Magic-Size Clusters from a Single Induction Period Sample. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5288-5295	6.4	33
82	Addition of sodium hyaluronate and the effect on performance of the injectable calcium phosphate cement. <i>Journal of Materials Science: Materials in Medicine</i> , 2009 , 20, 1595-602	4.5	30
81	Exploring of multicolor emissive carbon dots with novel double emission mechanism. <i>Sensors and Actuators B: Chemical</i> , 2018 , 277, 373-380	8.5	30

80	Photo-crosslinked mono-component type II collagen hydrogel as a matrix to induce chondrogenic differentiation of bone marrow mesenchymal stem cells. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 8707-8718	7.3	29
79	Four Types of CdTe Magic-Size Clusters from One Prenucleation Stage Sample at Room Temperature. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4345-4353	6.4	29
78	Colloidal CdSe 0-Dimension Nanocrystals and Their Self-Assembled 2-Dimension Structures. <i>Chemistry of Materials</i> , 2018 , 30, 1575-1584	9.6	28
77	Bio-Functional Design, Application and Trends in Metallic Biomaterials. <i>International Journal of Molecular Sciences</i> , 2017 , 19,	6.3	28
76	Bioactive MOFs Based Theranostic Agent for Highly Effective Combination of Multimodal Imaging and Chemo-Phototherapy. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2000205	10.1	27
75	NIR-to-Red Upconversion Nanoparticles with Minimized Heating Effect for Synchronous Multidrug Resistance Tumor Imaging and Therapy. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 14378-14388	9.5	25
74	Bottom-up approach to build osteon-like structure by cell-laden photocrosslinkable hydrogel. <i>Chemical Communications</i> , 2012 , 48, 3170-2	5.8	25
73	Repair of large osteochondral defects in a beagle model with a novel type I collagen/glycosaminoglycan-porous titanium biphasic scaffold. <i>Materials Science and Engineering C</i> , 2013 , 33, 3951-7	8.3	23
72	One-Step Approach to Single-Ensemble CdS Magic-Size Clusters with Enhanced Production Yields. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2725-2732	6.4	22
71	Wet-spinning fabrication of shear-patterned alginate hydrogel microfibers and the guidance of cell alignment. <i>International Journal of Energy Production and Management</i> , 2017 , 4, 299-307	5.3	21
70	Carbonated Nano Hydroxyapatite Crystal Growth Modulated by Poly(ethylene glycol) with Different Molecular Weights. <i>Crystal Growth and Design</i> , 2012 , 12, 2204-2212	3.5	21
69	Fragmentation of Magic-Size Cluster Precursor Compounds into Ultrasmall CdS Quantum Dots with Enhanced Particle Yield at Low Temperatures. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12015-12021	16.4	20
68	Photoluminescence-tunable carbon dots from synergy effect of sulfur doping and water engineering. <i>Chemical Engineering Journal</i> , 2020 , 388, 124199	14.7	20
67	Novel Tumor-Microenvironment-Based Sequential Catalytic Therapy by Fe(II)-Engineered Polydopamine Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 43018-43030	9.5	20
66	Transformation of ZnS Precursor Compounds to Magic-Size Clusters Exhibiting Optical Absorption Peaking at 269 nm. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 75-82	6.4	20
65	Effect of Small Molecule Additives in the Prenucleation Stage of Semiconductor CdSe Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6356-6363	6.4	20
64	Photoluminescent Colloidal Nanohelices Self-Assembled from CdSe Magic-Size Clusters via Nanoplatelets. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2794-2801	6.4	19
63	The development of cell-initiated degradable hydrogel based on methacrylated alginate applicable to multiple microfabrication technologies. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 8060-8069	7.3	19

62	Biomaterialized Hydrogel with Enhanced Toughness by Chemical Bonding of Alkaline Phosphatase and Vinylphosphonic Acid in Collagen Framework. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 1405-1415	5.5	19
61	Methacrylamide-modified collagen hydrogel with improved anti-actin-mediated matrix contraction behavior. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 7543-7555	7.3	19
60	Establishing a cell-affinitive interface and spreading space in a 3D hydrogel by introduction of microcarriers and an enzyme. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 6601-6610	7.3	18
59	Injectable and self-crosslinkable hydrogels based on collagen type II and activated chondroitin sulfate for cell delivery. <i>International Journal of Biological Macromolecules</i> , 2018 , 118, 2014-2020	7.9	17
58	Vascularization in Engineered Tissue Construct by Assembly of Cellular Patterned Micromodules and Degradable Microspheres. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 3524-3534	9.5	16
57	Cellular internalization of rod-like nano hydroxyapatite particles and their size and dose-dependent effects on pre-osteoblasts. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 1205-1217	7.3	16
56	Cell alignment guided by nano/micro oriented collagen fibers and the synergistic vascularization for nervous cell functional expression. <i>Materials Today Chemistry</i> , 2018 , 8, 85-95	6.2	16
55	Degradation regulated bioactive hydrogel as the bioink with desirable moldability for microfluidic biofabrication. <i>Carbohydrate Polymers</i> , 2017 , 178, 8-17	10.3	16
54	Chondrogenic differentiation and immunological properties of mesenchymal stem cells in collagen type I hydrogel. <i>Biotechnology Progress</i> , 2010 , 26, 1749-58	2.8	16
53	Room-Temperature Formation Pathway for CdTeSe Alloy Magic-Size Clusters. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 16943-16952	16.4	15
52	A one-pot synthesis of multifunctional BiS nanoparticles and the construction of core-shell BiS@Ce6-CeO nanocomposites for NIR-triggered phototherapy. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 4093-4105	7.3	15
51	Biofabrication of nerve fibers with mimetic myelin sheath-like structure and aligned fibrous niche. <i>Biofabrication</i> , 2020 , 12, 035013	10.5	15
50	Evolution of CdTe Magic-Size Clusters with Single Absorption Doublet Assisted by Adding Small Molecules during Prenucleation. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2230-2240	6.4	15
49	The effect of stress and tissue fluid microenvironment on allogeneic chondrocytes in vivo and the immunological properties of engineered cartilage. <i>Biomaterials</i> , 2011 , 32, 6017-24	15.6	15
48	Investigation of luminescent mechanism: N-rich carbon dots as luminescence centers in fluorescent hydroxyapatite prepared using a typical hydrothermal process. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 3749-3757	7.3	14
47	Automated fabrication of hydrogel microfibers with tunable diameters for controlled cell alignment. <i>Biofabrication</i> , 2017 , 9, 045009	10.5	13
46	NIR-responsive multi-healing HMPAM/dextran/AgNWs hydrogel sensor with recoverable mechanics and conductivity for human-machine interaction. <i>Carbohydrate Polymers</i> , 2020 , 247, 116686	10.3	13
45	Construction and evaluation of fibrillar composite hydrogel of collagen/konjac glucomannan for potential biomedical applications. <i>International Journal of Energy Production and Management</i> , 2018 , 5, 239-250	5.3	13

44	Preparation of porous PLGA/Ti biphasic scaffold and osteochondral defect repair. <i>Biomaterials Science</i> , 2013 , 1, 703-710	7.4	13
43	Mechanics-Controlled Dynamic Cell Niches Guided Osteogenic Differentiation of Stem Cells via Preserved Cellular Mechanical Memory. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 260-274	9.5	13
42	The effects of chemical crosslinking manners on the physical properties and biocompatibility of collagen type I/hyaluronic acid composite hydrogels. <i>International Journal of Biological Macromolecules</i> , 2020 , 160, 1201-1211	7.9	12
41	Biomimetic mineralizable collagen hydrogels for dynamic bone matrix formation to promote osteogenesis. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 3064-3075	7.3	12
40	An efficient two-step preparation of photocrosslinked gelatin microspheres as cell carriers to support MC3T3-E1 cells osteogenic performance. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 188, 110798	6	12
39	Theranostic system based on NaY(Mn)F:Yb/Er upconversion nanoparticles with multi-drug resistance reversing ability. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 3586-3599	7.3	12
38	Bioactivity of porous titanium with hydrogen peroxide solution with or without tantalum chloride treatment at a low temperature. <i>Biomedical Materials (Bristol)</i> , 2013 , 8, 025006	3.5	12
37	Preparation and cytocompatibility of chitosan-modified polylactide. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 408-412	2.9	12
36	A Gd-doped polydopamine (PDA)-based theranostic nanoplatform as a strong MR/PA dual-modal imaging agent for PTT/PDT synergistic therapy. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 1846-1857	7.3	12
35	Tunable Fast Relaxation in Imine-Based Nanofibrillar Hydrogels Stimulates Cell Response through TRPV4 Activation. <i>Biomacromolecules</i> , 2020 , 21, 3745-3755	6.9	10
34	Room-temperature formation of CdS magic-size clusters in aqueous solutions assisted by primary amines. <i>Nature Communications</i> , 2020 , 11, 4199	17.4	10
33	Temperature triggered high-performance carbon dots with robust solvatochromic effect and self-quenching-resistant deep red solid state fluorescence for specific lipid droplet imaging. <i>Chemical Engineering Journal</i> , 2021 , 415, 128984	14.7	10
32	Fragmentation of Magic-Size Cluster Precursor Compounds into Ultrasmall CdS Quantum Dots with Enhanced Particle Yield at Low Temperatures. <i>Angewandte Chemie</i> , 2020 , 132, 12111-12119	3.6	8
31	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
30	Material-induced chondrogenic differentiation of mesenchymal stem cells is material-dependent. <i>Experimental and Therapeutic Medicine</i> , 2014 , 7, 1147-1150	2.1	8
29	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
28	Spatiotemporal regulation of dynamic cell microenvironment signals based on an azobenzene photoswitch. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 9212-9226	7.3	7
27	Fabrication and assembly of porous micropatterned scaffolds for modular tissue engineering. <i>Materials Letters</i> , 2018 , 228, 360-364	3.3	7

26	CdS magic-size clusters exhibiting one sharp ultraviolet absorption singlet peaking at 361 nm. <i>Nano Research</i> , 2019 , 12, 1437-1444	10	6
25	Experimental observation of two-layer TiO ₂ nanotube arrays prepared by stepping-voltage anodization. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012 , 6, 166-168	2.5	6
24	Effect of flowing speed on bone-like apatite formation in porous calcium phosphate in dynamic RSBF. <i>Journal of Materials Science</i> , 2005 , 40, 1809-1812	4.3	6
23	Combining Electrospinning and Electrospaying to Prepare a Biomimetic Neural Scaffold with Synergistic Cues of Topography and Electrotransduction.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 5148-5159	4.1	6
22	Static-Dynamic Profited Viscoelastic Hydrogels for Motor-Clutch-Regulated Neurogenesis. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 24463-24476	9.5	6
21	The effect of collagen hydrogels on chondrocyte behaviors through restricting the contraction of cell/hydrogel constructs. <i>International Journal of Energy Production and Management</i> , 2021 , 8, rbab030	5.3	6
20	Magnetoelectric Nanoparticles Incorporated Biomimetic Matrix for Wireless Electrical Stimulation and Nerve Regeneration. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100695	10.1	6
19	Facile synthesis of nano-sized CuFeS: morphology and diverse functional tuning and crystal growth mechanism exploring. <i>International Journal of Energy Production and Management</i> , 2017 , 4, 223-231	5.3	5
18	Biomimetic mineralized microenvironment stiffness regulated BMSCs osteogenic differentiation through cytoskeleton mediated mechanical signaling transduction. <i>Materials Science and Engineering C</i> , 2021 , 119, 111613	8.3	5
17	Identifying Clusters and/or Small-Size Quantum Dots in Colloidal CdSe Ensembles with Optical Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 6399-6408	6.4	4
16	A facile approach for engineering tissue constructs with vessel-like channels by cell-laden hydrogel fibers. <i>Materials Science and Engineering C</i> , 2019 , 101, 370-379	8.3	3
15	Room-Temperature Formation Pathway for CdTeSe Alloy Magic-Size Clusters. <i>Angewandte Chemie</i> , 2020 , 132, 17091-17100	3.6	3
14	In vivo immunological properties research on mesenchymal stem cells based engineering cartilage by a dialyzer pocket model. <i>Journal of Materials Science: Materials in Medicine</i> , 2017 , 28, 150	4.5	3
13	Effect of adipic dihydrazide modification on the performance of collagen/hyaluronic acid scaffold. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010 , 92, 307-16	3.5	3
12	Activated hyaluronic acid/collagen composite hydrogel with tunable physical properties and improved biological properties. <i>International Journal of Biological Macromolecules</i> , 2020 , 164, 2186-2196	7.9	3
11	Dual functional modification of gellan gum hydrogel by introduction of methyl methacrylate and RGD contained polypeptide. <i>Materials Letters</i> , 2020 , 264, 127341	3.3	2
10	One-step synthesis of ultrabright amphiphilic carbon dots for rapid and precise tracking lipid droplets dynamics in biosystems.. <i>Biosensors and Bioelectronics</i> , 2021 , 200, 113928	11.8	2
9	Dynamically Modulated Core-Shell Microfibers to Study the Effect of Depth Sensing of Matrix Stiffness on Stem Cell Fate. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 37997-38006	9.5	2

8	Tissue engineered artificial liver model based on viscoelastic hyaluronan-collagen hydrogel and the effect of EGCG intervention on ALD. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 206, 111980	6	2
7	A facile green approach for fabricating bacterial cellulose scaffold with macroporous structure and cell affinity. <i>Journal of Bioactive and Compatible Polymers</i> , 2019 , 34, 442-452	2	1
6	Effect of the crystallinity of calcium phosphate ceramics on osteoblast proliferation in vitro. <i>Journal of Materials Science Letters</i> , 2001 , 20, 331-332		1
5	Semiconvertible Hyaluronic Hydrogel Enabled Red-Light-Responsive Reversible Mechanics, Adhesion, and Self-Healing.. <i>Biomacromolecules</i> , 2022 ,	6.9	1
4	Aldehyde-methacrylate-hyaluronan profited hydrogel system integrating aligned and viscoelastic cues for neurogenesis.. <i>Carbohydrate Polymers</i> , 2022 , 278, 118961	10.3	1
3	Evolution of Two Types of ZnTe Magic-Size Clusters Displaying Sharp Doublets in Optical Absorption. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4762-4768	6.4	1
2	Sandwich-interface inspired strategy for controlled formation of nanoparticles. <i>Nanoscale</i> , 2018 , 10, 11624-11632	7.7	1
1	Innentitelbild: Room-Temperature Formation Pathway for CdTeSe Alloy Magic-Size Clusters (Angew. Chem. 39/2020). <i>Angewandte Chemie</i> , 2020 , 132, 16950-16950	3.6	