

Hongsong Fan

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/9006475/hongsong-fan-publications-by-year.pdf>

Version: 2024-04-27

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.

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	Semiconvertible Hyaluronic Hydrogel Enabled Red-Light-Responsive Reversible Mechanics, Adhesion, and Self-Healing.. <i>Biomacromolecules</i> , 2022 ,	6.9	1
114	Aldehyde-methacrylate-hyaluronan profited hydrogel system integrating aligned and viscoelastic cues for neurogenesis.. <i>Carbohydrate Polymers</i> , 2022 , 278, 118961	10.3	1
113	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
112	Static-Dynamic Profited Viscoelastic Hydrogels for Motor-Clutch-Regulated Neurogenesis. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 24463-24476	9.5	6
111	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
110	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
109	Magnetolectric Nanoparticles Incorporated Biomimetic Matrix for Wireless Electrical Stimulation and Nerve Regeneration. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2100695	10.1	6
108	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
107	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
106	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
105	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
104	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
103	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, 12013-12021	16.4	20
102	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
101	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
100	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
99	Room-Temperature Formation Pathway for CdTeSe Alloy Magic-Size Clusters. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 16943-16952	16.4	15

98	Room-Temperature Formation Pathway for CdTeSe Alloy Magic-Size Clusters. <i>Angewandte Chemie</i> , 2020 , 132, 17091-17100	3.6	3
97	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
96	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
95	Biofabrication of nerve fibers with mimetic myelin sheath-like structure and aligned fibrous niche. <i>Biofabrication</i> , 2020 , 12, 035013	10.5	15
94	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
93	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
92	Photoluminescence-tunable carbon dots from synergy effect of sulfur doping and water engineering. <i>Chemical Engineering Journal</i> , 2020 , 388, 124199	14.7	20
91	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
90	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
89	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
88	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
87	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
86	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
85	Tunable Fast Relaxation in Imine-Based Nanofibrillar Hydrogels Stimulates Cell Response through TRPV4 Activation. <i>Biomacromolecules</i> , 2020 , 21, 3745-3755	6.9	10
84	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	
83	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
82	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
81	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

80	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
79	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
78	Formation of colloidal alloy semiconductor CdTeSe magic-size clusters at room temperature. <i>Nature Communications</i> , 2019 , 10, 1674	17.4	36
77	CdS magic-size clusters exhibiting one sharp ultraviolet absorption singlet peaking at 361 nm. <i>Nano Research</i> , 2019 , 12, 1437-1444	10	6
76	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
75	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
74	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
73	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
72	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
71	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
70	Colloidal CdSe 0-Dimension Nanocrystals and Their Self-Assembled 2-Dimension Structures. <i>Chemistry of Materials</i> , 2018 , 30, 1575-1584	9.6	28
69	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
68	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
67	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
66	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
65	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
64	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
63	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

62	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
61	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
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	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
58	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
57	Precursor Self-Assembly Identified as a General Pathway for Colloidal Semiconductor Magic-Size Clusters. <i>Advanced Science</i> , 2018 , 5, 1800632	13.6	38
56	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
55	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
54	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
53	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
52	Sandwich-interface inspired strategy for controlled formation of nanoparticles. <i>Nanoscale</i> , 2018 , 10, 11624-11632	7.7	1
51	Thermally-induced reversible structural isomerization in colloidal semiconductor CdS magic-size clusters. <i>Nature Communications</i> , 2018 , 9, 2499	17.4	60
50	Fabrication and assembly of porous micropatterned scaffolds for modular tissue engineering. <i>Materials Letters</i> , 2018 , 228, 360-364	3.3	7
49	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
48	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
47	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
46	Two-Step Nucleation of CdS Magic-Size Nanocluster MSCB11. <i>Chemistry of Materials</i> , 2017 , 29, 5727-5735	5.6	49
45	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

44	Automated fabrication of hydrogel microfibers with tunable diameters for controlled cell alignment. <i>Biofabrication</i> , 2017 , 9, 045009	10.5	13
43	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
42	Bio-Functional Design, Application and Trends in Metallic Biomaterials. <i>International Journal of Molecular Sciences</i> , 2017 , 19,	6.3	28
41	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
40	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
39	Degradation regulated bioactive hydrogel as the bioink with desirable moldability for microfluidic biofabrication. <i>Carbohydrate Polymers</i> , 2017 , 178, 8-17	10.3	16
38	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
37	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
36	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
35	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
34	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
33	Microfluidic-based generation of functional microfibers for biomimetic complex tissue construction. <i>Acta Biomaterialia</i> , 2016 , 38, 153-62	10.8	56
32	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
31	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
30	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
29	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
28	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
27	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

26	Material-induced chondrogenic differentiation of mesenchymal stem cells is material-dependent. <i>Experimental and Therapeutic Medicine</i> , 2014 , 7, 1147-1150	2.1	8
25	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
24	Preparation of porous PLGA/Ti biphasic scaffold and osteochondral defect repair. <i>Biomaterials Science</i> , 2013 , 1, 703-710	7.4	13
23	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
22	An efficient method to synthesize carbonated nano hydroxyapatite assisted by poly(ethylene glycol). <i>Materials Letters</i> , 2012 , 75, 26-28	3.3	37
21	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
20	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
19	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
18	Bottom-up approach to build osteon-like structure by cell-laden photocrosslinkable hydrogel. <i>Chemical Communications</i> , 2012 , 48, 3170-2	5.8	25
17	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
16	Preparation of collagen-chondroitin sulfate-hyaluronic acid hybrid hydrogel scaffolds and cell compatibility in vitro. <i>Carbohydrate Polymers</i> , 2011 , 84, 118-125	10.3	123
15	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, 332-44	5.4	38
14	Synthesis and characterization of photocrosslinkable gelatin and silk fibroin interpenetrating polymer network hydrogels. <i>Acta Biomaterialia</i> , 2011 , 7, 2384-93	10.8	205
13	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
12	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
11	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
10	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
9	Fabrication, biological effects, and medical applications of calcium phosphate nanoceramics. <i>Materials Science and Engineering Reports</i> , 2010 , 70, 225-242	30.9	140

8	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
7	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
6	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
5	Preparation and cytocompatibility of chitosan-modified polylactide. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 408-412	2.9	12
4	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
3	Surface structural biomimetics and the osteoinduction of calcium phosphate biomaterials. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 808-13	1.3	33
2	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
1	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