

Fanglian Yao

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91
papers

2,794
citations

32
h-index

50
g-index

94
ext. papers

3,740
ext. citations

7.1
avg, IF

5.56
L-index

#	Paper	IF	Citations
91	Modulation of nano-hydroxyapatite size via formation on chitosan-gelatin network film in situ. <i>Biomaterials</i> , 2007 , 28, 781-90	15.6	214
90	Carbon nanotubes reinforced hydrogel as flexible strain sensor with high stretchability and mechanically toughness. <i>Chemical Engineering Journal</i> , 2020 , 382, 122832	14.7	159
89	Injectable Fullerenol/Alginate Hydrogel for Suppression of Oxidative Stress Damage in Brown Adipose-Derived Stem Cells and Cardiac Repair. <i>ACS Nano</i> , 2017 , 11, 5474-5488	16.7	158
88	Carbon Nanotubes/Hydrophobically Associated Hydrogels as Ultrastretchable, Highly Sensitive, Stable Strain, and Pressure Sensors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 4944-4953	9.5	109
87	Freezing-Tolerant Supramolecular Organohydrogel with High Toughness, Thermoplasticity, and Healable and Adhesive Properties. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21184-21193	9.5	88
86	Nanocomposite hydrogel-based strain and pressure sensors: a review. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18605-18623	13	83
85	Biomimetic multicomponent polysaccharide/nano-hydroxyapatite composites for bone tissue engineering. <i>Carbohydrate Polymers</i> , 2011 , 85, 885-894	10.3	75
84	A transparent, ultrastretchable and fully recyclable gelatin organohydrogel based electronic sensor with broad operating temperature. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4447-4456	13	72
83	In Situ "Clickable" Zwitterionic Starch-Based Hydrogel for 3D Cell Encapsulation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4442-55	9.5	68
82	Zwitterionic-Modified Starch-Based Stealth Micelles for Prolonging Circulation Time and Reducing Macrophage Response. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4385-98	9.5	64
81	Development of Electrically Conductive Double-Network Hydrogels via One-Step Facile Strategy for Cardiac Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2016 , 5, 474-88	10.1	62
80	Physical Cross-Linking Starch-Based Zwitterionic Hydrogel Exhibiting Excellent Biocompatibility, Protein Resistance, and Biodegradability. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15710-23	9.5	61
79	Layer-by-Layer Assembled Bacterial Cellulose/Graphene Oxide Hydrogels with Extremely Enhanced Mechanical Properties. <i>Nano-Micro Letters</i> , 2018 , 10, 42	19.5	55
78	Physically crosslinked poly(vinyl alcohol) chitosan composite hydrogels: pore structure stability and cell adhesive ability. <i>RSC Advances</i> , 2015 , 5, 78180-78191	3.7	52
77	RoY peptide-modified chitosan-based hydrogel to improve angiogenesis and cardiac repair under hypoxia. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6505-17	9.5	51
76	A thermoresponsive poly(N-vinylcaprolactam-co-sulfobetaine methacrylate) zwitterionic hydrogel exhibiting switchable anti-biofouling and cytocompatibility. <i>Polymer Chemistry</i> , 2015 , 6, 3431-3442	4.9	51
75	Hydrophilic PCU scaffolds prepared by grafting PEGMA and immobilizing gelatin to enhance cell adhesion and proliferation. <i>Materials Science and Engineering C</i> , 2015 , 50, 201-9	8.3	50

74	Electrospun PDLLA/PLGA composite membranes for potential application in guided tissue regeneration. <i>Materials Science and Engineering C</i> , 2016 , 58, 278-85	8.3	49
73	Biodegradable and injectable thermoreversible xyloglucan based hydrogel for prevention of postoperative adhesion. <i>Acta Biomaterialia</i> , 2017 , 55, 420-433	10.8	49
72	Regulation of the endothelialization by human vascular endothelial cells by ZNF580 gene complexed with biodegradable microparticles. <i>Biomaterials</i> , 2014 , 35, 7133-45	15.6	49
71	Thermoresponsive polysaccharide-based composite hydrogel with antibacterial and healing-promoting activities for preventing recurrent adhesion after adhesiolysis. <i>Acta Biomaterialia</i> , 2018 , 74, 439-453	10.8	48
70	A Dual-Crosslinked Strategy to Construct Physical Hydrogels with High Strength, Toughness, Good Mechanical Recoverability, and Shape-Memory Ability. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1700396	3.9	47
69	Hydroxyapatite Crystal Formation in the Presence of Polysaccharide. <i>Crystal Growth and Design</i> , 2016 , 16, 1247-1255	3.5	45
68	Scalable synthesis of robust and stretchable composite wound dressings by dispersing silver nanowires in continuous bacterial cellulose. <i>Composites Part B: Engineering</i> , 2020 , 199, 108259	10	45
67	Engineering pectin-based hollow nanocapsules for delivery of anticancer drug. <i>Carbohydrate Polymers</i> , 2017 , 177, 86-96	10.3	44
66	Ultrathin, Strong, and Highly Flexible TiCT MXene/Bacterial Cellulose Composite Films for High-Performance Electromagnetic Interference Shielding. <i>ACS Nano</i> , 2021 , 15, 8439-8449	16.7	44
65	Low-temperature tolerant strain sensors based on triple crosslinked organohydrogels with ultrastretchability. <i>Chemical Engineering Journal</i> , 2021 , 404, 126559	14.7	42
64	Step-by-step self-assembly of 2D few-layer reduced graphene oxide into 3D architecture of bacterial cellulose for a robust, ultralight, and recyclable all-carbon absorbent. <i>Carbon</i> , 2018 , 139, 824-832	10.4	41
63	Iota-carrageenan/chitosan/gelatin scaffold for the osteogenic differentiation of adipose-derived MSCs in vitro. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 1498-510	3.5	39
62	Synthesis and Characterization of Chitosan Grafted Oligo(L-lactic acid). <i>Macromolecular Bioscience</i> , 2003 , 3, 653-656	5.5	39
61	Ionic starch-based hydrogels for the prevention of nonspecific protein adsorption. <i>Carbohydrate Polymers</i> , 2015 , 117, 384-391	10.3	37
60	Synthesis and characterization of quaternized carboxymethyl chitosan/poly(amidoamine) dendrimer core-shell nanoparticles. <i>Materials Science and Engineering C</i> , 2012 , 32, 2026-2036	8.3	37
59	Zwitterionic starch-based hydrogel for the expansion and "stemness" maintenance of brown adipose derived stem cells. <i>Biomaterials</i> , 2018 , 157, 149-160	15.6	29
58	B,N-Co-doped graphene quantum dots as fluorescence sensor for detection of Hg ²⁺ and F ⁻ ions. <i>Analytical Methods</i> , 2019 , 11, 1879-1883	3.2	26
57	Antibacterial action mode of quaternized carboxymethyl chitosan/poly(amidoamine) dendrimer core-shell nanoparticles against Escherichia coli correlated with molecular chain conformation. <i>Materials Science and Engineering C</i> , 2015 , 48, 220-7	8.3	26

56	High-strength and fibrous capsule-resistant zwitterionic elastomers. <i>Science Advances</i> , 2021 , 7,	14.3	26
55	A conductive PEDOT/alginate porous scaffold as a platform to modulate the biological behaviors of brown adipose-derived stem cells. <i>Biomaterials Science</i> , 2020 , 8, 3173-3185	7.4	25
54	Ionic Conductive Hydrogel with Fast Self-Recovery and Low Residual Strain as Strain and Pressure Sensors. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e2000185	4.8	24
53	Stable and pH-responsive polyamidoamine based unimolecular micelles capped with a zwitterionic polymer shell for anticancer drug delivery. <i>RSC Advances</i> , 2016 , 6, 17728-17739	3.7	24
52	Constructing three-dimensional nanofibrous bioglass/gelatin nanocomposite scaffold for enhanced mechanical and biological performance. <i>Chemical Engineering Journal</i> , 2017 , 326, 210-221	14.7	22
51	Hybrid pectin-Fe/polyacrylamide double network hydrogels with excellent strength, high stiffness, superior toughness and notch-insensitivity. <i>Soft Matter</i> , 2017 , 13, 9237-9245	3.6	22
50	Fully physically crosslinked pectin-based hydrogel with high stretchability and toughness for biomedical application. <i>International Journal of Biological Macromolecules</i> , 2020 , 149, 707-716	7.9	21
49	Establishment of a Physical Model for Solute Diffusion in Hydrogel: Understanding the Diffusion of Proteins in Poly(sulfobetaine methacrylate) Hydrogel. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 800-814	4.4	20
48	Effect of highly dispersed graphene and graphene oxide in 3D nanofibrous bacterial cellulose scaffold on cell responses: A comparative study. <i>Materials Chemistry and Physics</i> , 2019 , 235, 121774	4.4	19
47	Poly(lactic acid)/poly(ethylene glycol) block copolymer based shell or core cross-linked micelles for controlled release of hydrophobic drug. <i>RSC Advances</i> , 2015 , 5, 19484-19492	3.7	19
46	Synthesis and characterization of multiblock copolymers based on L-lactic acid, citric acid, and poly(ethylene glycol). <i>Journal of Polymer Science Part A</i> , 2003 , 41, 2073-2081	2.5	19
45	In Situ Clickable Purely Zwitterionic Hydrogel for Peritoneal Adhesion Prevention. <i>Chemistry of Materials</i> , 2020 , 32, 6347-6357	9.6	18
44	Engineering Polyzwitterion and Polydopamine Decorated Doxorubicin-Loaded Mesoporous Silica Nanoparticles as a pH-Sensitive Drug Delivery. <i>Polymers</i> , 2018 , 10,	4.5	16
43	Laser-induced wettability gradient surface on NiTi alloy for improved hemocompatibility and flow resistance. <i>Materials Science and Engineering C</i> , 2020 , 111, 110847	8.3	16
42	Synthesis and characterization of dendritic star-shaped zwitterionic polymers as novel anticancer drug delivery carriers. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2014 , 25, 1641-57	3.5	15
41	A novel amphoteric, pH-sensitive, biodegradable poly[chitosan-g-(L-lactic-co-citric) acid] hydrogel. <i>Journal of Applied Polymer Science</i> , 2003 , 89, 3850-3854	2.9	15
40	Dual physically cross-linked carboxymethyl cellulose-based hydrogel with high stretchability and toughness as sensitive strain sensors. <i>Cellulose</i> , 2020 , 27, 9975-9989	5.5	15
39	Incorporation of hydroxyapatite into nanofibrous PLGA scaffold towards improved breast cancer cell behavior. <i>Materials Chemistry and Physics</i> , 2019 , 226, 177-183	4.4	15

38	An anti-oxidative and conductive composite scaffold for cardiac tissue engineering. <i>Composites Part B: Engineering</i> , 2020 , 199, 108285	10	14
37	Fast self-healing zwitterion nanocomposite hydrogel for underwater sensing. <i>Composites Communications</i> , 2021 , 26, 100784	6.7	13
36	Nano-hydroxyapatite formation via co-precipitation with chitosan-g-poly(N-isopropylacrylamide) in coil and globule states for tissue engineering application. <i>Frontiers of Chemical Science and Engineering</i> , 2013 , 7, 388-400	4.5	12
35	Preparation and properties of few-layer graphene modified waterborne epoxy coatings. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46743	2.9	12
34	Zwitterionic Unimolecular Micelles with pH and Temperature Response: Enhanced Circulation Stability and Tumor Therapeutic Efficiency. <i>Langmuir</i> , 2020 , 36, 3356-3366	4	11
33	Preparation of graphene quantum dots with high quantum yield by a facile one-step method and applications for cell imaging. <i>Materials Letters</i> , 2020 , 271, 127806	3.3	11
32	Wrapping mesoporous Fe ₂ O ₃ nanoparticles by reduced graphene oxide: Enhancement of cycling stability and capacity of lithium ion batteries by mesoscopic engineering. <i>Ceramics International</i> , 2018 , 44, 20656-20663	5.1	11
31	Submicrofiber-Incorporated 3D Bacterial Cellulose Nanofibrous Scaffolds with Enhanced Cell Performance. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1800316	3.9	11
30	Simvastatin-loaded nanotubular mesoporous bioactive glass scaffolds for bone tissue engineering. <i>Microporous and Mesoporous Materials</i> , 2019 , 288, 109570	5.3	10
29	Preparation and characterization of a VEGF-Fc fusion protein matrix for enhancing HUVEC growth. <i>Biotechnology Letters</i> , 2012 , 34, 1765-71	3	10
28	Fully-physically crosslinked silk fibroin/poly(hydroxyethyl acrylamide) hydrogel with high transparency and adhesive properties for wireless sensing and low-temperature strain sensing. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 1880-1887	7.1	10
27	Interpenetrated nano- and submicro-fibrous biomimetic scaffolds towards enhanced mechanical and biological performances. <i>Materials Science and Engineering C</i> , 2020 , 108, 110416	8.3	9
26	Rational design of injectable conducting polymer-based hydrogels for tissue engineering. <i>Acta Biomaterialia</i> , 2021 ,	10.8	9
25	Non-Swelling and Anti-Fouling MXene Nanocomposite Hydrogels for Underwater Strain Sensing. <i>Advanced Materials Technologies</i> , 2101343	6.8	8
24	Preparation and characterization of protein resistant zwitterionic starches: The effect of substitution degrees. <i>Starch/Staerke</i> , 2015 , 67, 920-929	2.3	7
23	Constructing 3D scaffold with 40-nm-diameter hollow mesoporous bioactive glass nanofibers. <i>Materials Letters</i> , 2019 , 248, 201-203	3.3	6
22	A rhBMP-2-loaded three-dimensional mesoporous bioactive glass nanotubular scaffold prepared from bacterial cellulose. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 581, 123838	5.1	6
21	Improved Removal of Toxic Metal Ions by Incorporating Graphene Oxide into Bacterial Cellulose. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 719-730	1.3	6

20	Simultaneous engineering of nanofillers and patterned surface macropores of graphene/hydroxyapatite/polyetheretherketone ternary composites for potential bone implants. <i>Materials Science and Engineering C</i> , 2021 , 123, 111967	8.3	6
19	A starch-based zwitterionic hydrogel coating for blood-contacting devices with durability and bio-functionality. <i>Chemical Engineering Journal</i> , 2021 , 421, 129702	14.7	6
18	Biomimetic mineralization of a hydroxyapatite crystal in the presence of a zwitterionic polymer. <i>CrystEngComm</i> , 2018 , 20, 2374-2383	3.3	5
17	Enhanced vascularization of PCL porous scaffolds through VEGF-Fc modification. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 4474-4485	7.3	5
16	Facile preparation of a thermosensitive and antibiofouling physically crosslinked hydrogel/powder for wound healing.. <i>Journal of Materials Chemistry B</i> , 2022 ,	7.3	4
15	Effect of Graphene Oxide Incorporation into Electrospun Cellulose Acetate Scaffolds on Breast Cancer Cell Culture. <i>Fibers and Polymers</i> , 2019 , 20, 1577-1585	2	3
14	Flexible, robust and washable bacterial cellulose/silver nanowire conductive paper for high-performance electromagnetic interference shielding. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 960-968	13	3
13	Antifreeze proteins and their biomimetics for cell cryopreservation: Mechanism, function and application-A review. <i>International Journal of Biological Macromolecules</i> , 2021 , 192, 1276-1291	7.9	3
12	Synthesis of graphene aerogels using cyclohexane and -butanol as soft templates.. <i>RSC Advances</i> , 2020 , 10, 14283-14290	3.7	2
11	Antibacterial and UV-Blocking Bioelectronics Based on Transparent, Adhesive, and Strain-Sensitive Multifunctional Hydrogel. <i>Advanced Materials Technologies</i> , 2101283	6.8	2
10	Improved properties of corn fiber-reinforced polylactide composites by incorporating silica nanoparticles at interfaces. <i>Polymers and Polymer Composites</i> , 2020 , 28, 170-179	0.8	2
9	Fabrication of a gradient hydrophobic surface with parallel ridges on pyrolytic carbon for artificial heart valves. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 205, 111894	6	2
8	Modification of Natural Rubber Latex by Graft Copolymerization of 2-Ethylhexyl Acrylate and Methacrylic Acid. <i>Transactions of Tianjin University</i> , 2020 , 26, 314-323	2.9	1
7	Modification of poly(L-lactic acid) with L-lactic acid / citric acid oligomers. <i>E-Polymers</i> , 2006 , 6,	2.7	1
6	Rare-earth-catalyzed alternating copolymerization of carbon monoxide with styrene. <i>Journal of Polymer Science Part A</i> , 2002 , 40, 642-649	2.5	1
5	Copolymerization of carbon monoxide and styrene with the Nd(III)/Cu(II) catalyst. <i>Journal of Applied Polymer Science</i> , 2001 , 82, 8-13	2.9	1
4	Fabrication of Robust, Shape Recoverable, Macroporous Bacterial Cellulose Scaffolds for Cartilage Tissue Engineering. <i>Macromolecular Bioscience</i> , 2021 , 21, e2100167	5.5	1
3	A robust polyacrylic acid/chitosan cryogel for rapid hemostasis. <i>Science China Technological Sciences</i> , 1	3.5	1

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| 2 | Bio-inspired Antibacterial Hydrogel Adhesives with High Adhesion Strength. <i>Macromolecular Rapid Communications</i> ,2200182 | 4.8 | 1 |
| 1 | Oxygen-generating materials and their biomedical applications: a review. <i>Journal of Materials Science</i> ,1 | 4.3 | 0 |