

Fanglian Yao

List of Publications by Year in descending order

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91
papers

4,822
citations

87723

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102304

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docs citations

94
times ranked

5675
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon nanotubes reinforced hydrogel as flexible strain sensor with high stretchability and mechanically toughness. <i>Chemical Engineering Journal</i> , 2020, 382, 122832.	6.6	328
2	Carbon Nanotubes/Hydrophobically Associated Hydrogels as Ultrastretchable, Highly Sensitive, Stable Strain, and Pressure Sensors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4944-4953.	4.0	250
3	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.	7.3	247
4	Modulation of nano-hydroxyapatite size via formation on chitosan-gelatin network film in situ. <i>Biomaterials</i> , 2007, 28, 781-790.	5.7	234
5	Nanocomposite hydrogel-based strain and pressure sensors: a review. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18605-18623.	5.2	230
6	Ultrathin, Strong, and Highly Flexible Ti ₃ C ₂ T _x MXene/Bacterial Cellulose Composite Films for High-Performance Electromagnetic Interference Shielding. <i>ACS Nano</i> , 2021, 15, 8439-8449.	7.3	178
7	Freezing-Tolerant Supramolecular Organohydrogel with High Toughness, Thermoplasticity, and Healable and Adhesive Properties. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 21184-21193.	4.0	161
8	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.	5.2	152
9	Low-temperature tolerant strain sensors based on triple crosslinked organohydrogels with ultrastretchability. <i>Chemical Engineering Journal</i> , 2021, 404, 126559.	6.6	108
10	Biomimetic multicomponent polysaccharide/nano-hydroxyapatite composites for bone tissue engineering. <i>Carbohydrate Polymers</i> , 2011, 85, 885-894.	5.1	93
11	Development of Electrically Conductive Double-Step Facile Strategy for Cardiac Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2016, 5, 474-488.	3.9	92
12	In Situ Clickable Zwitterionic Starch-Based Hydrogel for 3D Cell Encapsulation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4442-4455.	4.0	91
13	Zwitterionic-Modified Starch-Based Stealth Micelles for Prolonging Circulation Time and Reducing Macrophage Response. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4385-4398.	4.0	86
14	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.	5.9	86
15	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.	4.1	82
16	High-strength and fibrous capsule-resistant zwitterionic elastomers. <i>Science Advances</i> , 2021, 7, .	4.7	82
17	Biodegradable and injectable thermoreversible xyloglucan based hydrogel for prevention of postoperative adhesion. <i>Acta Biomaterialia</i> , 2017, 55, 420-433.	4.1	81
18	Layer-by-Layer Assembled Bacterial Cellulose/Graphene Oxide Hydrogels with Extremely Enhanced Mechanical Properties. <i>Nano-Micro Letters</i> , 2018, 10, 42.	14.4	78

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19	Physical Cross-Linking Starch-Based Zwitterionic Hydrogel Exhibiting Excellent Biocompatibility, Protein Resistance, and Biodegradability. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15710-15723.	4.0	77
20	Electrospun PDLLA/PLGA composite membranes for potential application in guided tissue regeneration. <i>Materials Science and Engineering C</i> , 2016, 58, 278-285.	3.8	69
21	Hydroxyapatite Crystal Formation in the Presence of Polysaccharide. <i>Crystal Growth and Design</i> , 2016, 16, 1247-1255.	1.4	68
22	Physically crosslinked poly(vinyl alcohol)-carrageenan composite hydrogels: pore structure stability and cell adhesive ability. <i>RSC Advances</i> , 2015, 5, 78180-78191.	1.7	67
23	A thermoresponsive poly(N-vinylcaprolactam-co-sulfobetaine methacrylate) zwitterionic hydrogel exhibiting switchable anti-biofouling and cytocompatibility. <i>Polymer Chemistry</i> , 2015, 6, 3431-3442.	1.9	65
24	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, 201-209.	3.8	65
25	RoY Peptide-Modified Chitosan-Based Hydrogel to Improve Angiogenesis and Cardiac Repair under Hypoxia. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6505-6517.	4.0	62
26	Engineering pectin-based hollow nanocapsules for delivery of anticancer drug. <i>Carbohydrate Polymers</i> , 2017, 177, 86-96.	5.1	62
27	Ionically Conductive Hydrogel with Fast Self-Recovery and Low Residual Strain as Strain and Pressure Sensors. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000185.	2.0	62
28	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.	1.7	58
29	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.	3.6	56
30	lota-carrageenan/chitosan/gelatin scaffold for the osteogenic differentiation of adipose-derived MSCs <i>in vitro</i> . <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015, 103, 1498-1510.	1.6	54
31	Ionic starch-based hydrogels for the prevention of nonspecific protein adsorption. <i>Carbohydrate Polymers</i> , 2015, 117, 384-391.	5.1	54
32	Non-Swelling and Anti-Fouling MXene Nanocomposite Hydrogels for Underwater Strain Sensing. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	54
33	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.	5.4	53
34	Dual physically cross-linked carboxymethyl cellulose-based hydrogel with high stretchability and toughness as sensitive strain sensors. <i>Cellulose</i> , 2020, 27, 9975-9989.	2.4	53
35	Regulation of the endothelialization by human vascular endothelial cells by ZNF580 gene complexed with biodegradable microparticles. <i>Biomaterials</i> , 2014, 35, 7133-7145.	5.7	51
36	In Situ Clickable Purely Zwitterionic Hydrogel for Peritoneal Adhesion Prevention. <i>Chemistry of Materials</i> , 2020, 32, 6347-6357.	3.2	48

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37	Synthesis and characterization of quaternized carboxymethyl chitosan/poly(amidoamine) dendrimer core-shell nanoparticles. <i>Materials Science and Engineering C</i> , 2012, 32, 2026-2036.	3.8	41
38	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.	2.6	41
39	Synthesis and Characterization of Chitosan Grafted Oligo(L-lactic acid). <i>Macromolecular Bioscience</i> , 2003, 3, 653-656.	2.1	39
40	Zwitterionic starch-based hydrogel for the expansion and stemness-maintenance of brown adipose derived stem cells. <i>Biomaterials</i> , 2018, 157, 149-160.	5.7	39
41	A starch-based zwitterionic hydrogel coating for blood-contacting devices with durability and bio-functionality. <i>Chemical Engineering Journal</i> , 2021, 421, 129702.	6.6	36
42	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.	1.3	35
43	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.	2.7	34
44	Rational design of injectable conducting polymer-based hydrogels for tissue engineering. <i>Acta Biomaterialia</i> , 2022, 139, 4-21.	4.1	33
45	Antibacterial action mode of quaternized carboxymethyl chitosan/poly(amidoamine) dendrimer core-shell nanoparticles against <i>Escherichia coli</i> correlated with molecular chain conformation. <i>Materials Science and Engineering C</i> , 2015, 48, 220-227.	3.8	32
46	An anti-oxidative and conductive composite scaffold for cardiac tissue engineering. <i>Composites Part B: Engineering</i> , 2020, 199, 108285.	5.9	32
47	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.	1.7	31
48	Hybrid pectin-Fe ³⁺ /polyacrylamide double network hydrogels with excellent strength, high stiffness, superior toughness and notch-insensitivity. <i>Soft Matter</i> , 2017, 13, 9237-9245.	1.2	31
49	Fast self-healing zwitterion nanocomposite hydrogel for underwater sensing. <i>Composites Communications</i> , 2021, 26, 100784.	3.3	31
50	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.	2.0	30
51	Laser-induced wettability gradient surface on NiTi alloy for improved hemocompatibility and flow resistance. <i>Materials Science and Engineering C</i> , 2020, 111, 110847.	3.8	30
52	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.	1.2	29
53	Constructing three-dimensional nanofibrous bioglass/gelatin nanocomposite scaffold for enhanced mechanical and biological performance. <i>Chemical Engineering Journal</i> , 2017, 326, 210-221.	6.6	27
54	Engineering Polyzwitterion and Polydopamine Decorated Doxorubicin-Loaded Mesoporous Silica Nanoparticles as a pH-Sensitive Drug Delivery. <i>Polymers</i> , 2018, 10, 326.	2.0	26

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55	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.	1.7	24
56	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.	1.3	24
57	Facile preparation of a thermosensitive and antibiofouling physically crosslinked hydrogel/powder for wound healing. <i>Journal of Materials Chemistry B</i> , 2022, 10, 2215-2229.	2.9	24
58	Incorporation of hydroxyapatite into nanofibrous PLGA scaffold towards improved breast cancer cell behavior. <i>Materials Chemistry and Physics</i> , 2019, 226, 177-183.	2.0	23
59	Zwitterionic Unimolecular Micelles with pH and Temperature Response: Enhanced <i>In Vivo</i> Circulation Stability and Tumor Therapeutic Efficiency. <i>Langmuir</i> , 2020, 36, 3356-3366.	1.6	23
60	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.	3.8	22
61	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	20
62	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, 1641-1657.	1.9	18
63	Preparation and properties of few-layer graphene modified waterborne epoxy coatings. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46743.	1.3	18
64	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.	1.3	17
65	Interpenetrated nano- and submicro-fibrous biomimetic scaffolds towards enhanced mechanical and biological performances. <i>Materials Science and Engineering C</i> , 2020, 108, 110416.	3.8	17
66	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.	3.6	16
67	A robust polyacrylic acid/chitosan cryogel for rapid hemostasis. <i>Science China Technological Sciences</i> , 2022, 65, 1029-1042.	2.0	16
68	Submicrofiber-incorporated 3D Bacterial Cellulose Nanofibrous Scaffolds with Enhanced Cell Performance. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800316.	1.7	15
69	Fabrication of Robust, Shape Recoverable, Macroporous Bacterial Cellulose Scaffolds for Cartilage Tissue Engineering. <i>Macromolecular Bioscience</i> , 2021, 21, e2100167.	2.1	15
70	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.	2.3	14
71	Antibacterial and UV-blocking Bioelectronics Based on Transparent, Adhesive, and Strain-sensitive Multifunctional Hydrogel. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	14
72	Preparation and characterization of a VEGF-Fc fusion protein matrix for enhancing HUVEC growth. <i>Biotechnology Letters</i> , 2012, 34, 1765-1771.	1.1	13

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73	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.	2.3	13
74	Simvastatin-loaded nanotubular mesoporous bioactive glass scaffolds for bone tissue engineering. <i>Microporous and Mesoporous Materials</i> , 2019, 288, 109570.	2.2	13
75	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.	5.2	13
76	Biomimetic mineralization of a hydroxyapatite crystal in the presence of a zwitterionic polymer. <i>CrystEngComm</i> , 2018, 20, 2374-2383.	1.3	12
77	Preparation and characterization of protein resistant zwitterionic starches: The effect of substitution degrees. <i>Starch/Staerke</i> , 2015, 67, 920-929.	1.1	10
78	Effect of Graphene Oxide Incorporation into Electrospun Cellulose Acetate Scaffolds on Breast Cancer Cell Culture. <i>Fibers and Polymers</i> , 2019, 20, 1577-1585.	1.1	10
79	Enhanced vascularization of PCL porous scaffolds through VEGF-Fc modification. <i>Journal of Materials Chemistry B</i> , 2018, 6, 4474-4485.	2.9	9
80	Constructing 3D scaffold with 40-nm-diameter hollow mesoporous bioactive glass nanofibers. <i>Materials Letters</i> , 2019, 248, 201-203.	1.3	9
81	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.	2.3	8
82	Improved Removal of Toxic Metal Ions by Incorporating Graphene Oxide into Bacterial Cellulose. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 719-730.	0.9	8
83	Bio-inspired Antibacterial Hydrogel Adhesives with High Adhesion Strength. <i>Macromolecular Rapid Communications</i> , 2022, 43, .	2.0	7
84	Improved properties of corn fiber-reinforced polylactide composites by incorporating silica nanoparticles at interfaces. <i>Polymers and Polymer Composites</i> , 2020, 28, 170-179.	1.0	6
85	Synthesis of graphene aerogels using cyclohexane and <i>n</i> -butanol as soft templates. <i>RSC Advances</i> , 2020, 10, 14283-14290.	1.7	6
86	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.	2.5	6
87	Oxygen-generating materials and their biomedical applications: a review. <i>Journal of Materials Science</i> , 2022, 57, 9077-9103.	1.7	6
88	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.	3.3	3
89	Rare-earth-catalyzed alternating copolymerization of carbon monoxide with styrene. <i>Journal of Polymer Science Part A</i> , 2002, 40, 642-649.	2.5	2
90	Copolymerization of carbon monoxide and styrene with the Nd(III)-Cu(II) catalyst. <i>Journal of Applied Polymer Science</i> , 2001, 82, 8-13.	1.3	1

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91	Modification of poly(L-lactic acid) with L-lactic acid / citric acid oligomers. E-Polymers, 2006, 6, .	1.3	1