Fanglian Yao

List of Publications by Year in Descending Order

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	Flexible, robust and washable bacterial cellulose/silver nanowire conductive paper for high-performance electromagnetic interference shielding. *Journal of Materials Chemistry A*, **2022**, 10, 960-968	13	3
90	Facile preparation of a thermosensitive and antibiofouling physically crosslinked hydrogel/powder for wound healing.. *Journal of Materials Chemistry B*, **2022**,	7.3	4
89	Antifreeze proteins and their biomimetics for cell cryopreservation: Mechanism, function and application-A review. *International Journal of Biological Macromolecules*, **2021**, 192, 1276-1291	7.9	3
88	Rational design of injectable conducting polymer-based hydrogels for tissue engineering. *Acta Biomaterialia*, **2021**,	10.8	9
87	Simultaneous engineering of nanofillers and patterned surface macropores of graphene/hydroxyapatite/polyetheretherketone ternary composites for potential bone implants. *Materials Science and Engineering C*, **2021**, 123, 111967	8.3	6
86	Ultrathin, Strong, and Highly Flexible TiCT MXene/Bacterial Cellulose Composite Films for High-Performance Electromagnetic Interference Shielding. *ACS Nano*, **2021**, 15, 8439-8449	16.7	44
85	Low-temperature tolerant strain sensors based on triple crosslinked organohydrogels with ultrastretchability. *Chemical Engineering Journal*, **2021**, 404, 126559	14.7	42
84	Fully-physically crosslinked silk fibroin/poly(hydroxyethyl acrylamide) hydrogel with high transparency and adhesive properties for wireless sensing and low-temperature strain sensing. *Journal of Materials Chemistry C*, **2021**, 9, 1880-1887	7.1	10
83	High-strength and fibrous capsule-resistant zwitterionic elastomers. *Science Advances*, **2021**, 7,	14.3	26
82	Fast self-healing zwitterion nanocomposite hydrogel for underwater sensing. *Composites Communications*, **2021**, 26, 100784	6.7	13
81	Fabrication of Robust, Shape Recoverable, Macroporous Bacterial Cellulose Scaffolds for Cartilage Tissue Engineering. *Macromolecular Bioscience*, **2021**, 21, e2100167	5.5	1
80	Fabrication of a gradient hydrophobic surface with parallel ridges on pyrolytic carbon for artificial heart valves. *Colloids and Surfaces B: Biointerfaces*, **2021**, 205, 111894	6	2
79	A starch-based zwitterionic hydrogel coating for blood-contacting devices with durability and bio-functionality. *Chemical Engineering Journal*, **2021**, 421, 129702	14.7	6
78	A conductive PEDOT/alginate porous scaffold as a platform to modulate the biological behaviors of brown adipose-derived stem cells. *Biomaterials Science*, **2020**, 8, 3173-3185	7.4	25
77	Ionically Conductive Hydrogel with Fast Self-Recovery and Low Residual Strain as Strain and Pressure Sensors. *Macromolecular Rapid Communications*, **2020**, 41, e2000185	4.8	24
76	Zwitterionic Unimolecular Micelles with pH and Temperature Response: Enhanced Circulation Stability and Tumor Therapeutic Efficiency. *Langmuir*, **2020**, 36, 3356-3366	4	11
75	Modification of Natural Rubber Latex by Graft Copolymerization of 2-Ethylhexyl Acrylate and Methacrylic Acid. *Transactions of Tianjin University*, **2020**, 26, 314-323	2.9	1

74	A transparent, ultrastretchable and fully recyclable gelatin organohydrogel based electronic sensor with broad operating temperature. *Journal of Materials Chemistry A*, **2020**, 8, 4447-4456	13	72
73	Preparation of graphene quantum dots with high quantum yield by a facile one-step method and applications for cell imaging. *Materials Letters*, **2020**, 271, 127806	3.3	11
72	Synthesis of graphene aerogels using cyclohexane and -butanol as soft templates.. *RSC Advances*, **2020**, 10, 14283-14290	3.7	2
71	Laser-induced wettability gradient surface on NiTi alloy for improved hemocompatibility and flow resistance. *Materials Science and Engineering C*, **2020**, 111, 110847	8.3	16
70	Carbon Nanotubes/Hydrophobically Associated Hydrogels as Ultrastretchable, Highly Sensitive, Stable Strain, and Pressure Sensors. *ACS Applied Materials & Interfaces*, **2020**, 12, 4944-4953	9.5	109
69	Interpenetrated nano- and submicro-fibrous biomimetic scaffolds towards enhanced mechanical and biological performances. *Materials Science and Engineering C*, **2020**, 108, 110416	8.3	9
68	Improved Removal of Toxic Metal Ions by Incorporating Graphene Oxide into Bacterial Cellulose. *Journal of Nanoscience and Nanotechnology*, **2020**, 20, 719-730	1.3	6
67	In Situ Clickable Purely Zwitterionic Hydrogel for Peritoneal Adhesion Prevention. *Chemistry of Materials*, **2020**, 32, 6347-6357	9.6	18
66	An anti-oxidative and conductive composite scaffold for cardiac tissue engineering. *Composites Part B: Engineering*, **2020**, 199, 108285	10	14
65	Scalable synthesis of robust and stretchable composite wound dressings by dispersing silver nanowires in continuous bacterial cellulose. *Composites Part B: Engineering*, **2020**, 199, 108259	10	45
64	Fully physically crosslinked pectin-based hydrogel with high stretchability and toughness for biomedical application. *International Journal of Biological Macromolecules*, **2020**, 149, 707-716	7.9	21
63	Nanocomposite hydrogel-based strain and pressure sensors: a review. *Journal of Materials Chemistry A*, **2020**, 8, 18605-18623	13	83
62	Dual physically cross-linked carboxymethyl cellulose-based hydrogel with high stretchability and toughness as sensitive strain sensors. *Cellulose*, **2020**, 27, 9975-9989	5.5	15
61	Carbon nanotubes reinforced hydrogel as flexible strain sensor with high stretchability and mechanically toughness. *Chemical Engineering Journal*, **2020**, 382, 122832	14.7	159
60	Improved properties of corn fiber-reinforced polylactide composites by incorporating silica nanoparticles at interfaces. *Polymers and Polymer Composites*, **2020**, 28, 170-179	0.8	2
59	Effect of Graphene Oxide Incorporation into Electrospun Cellulose Acetate Scaffolds on Breast Cancer Cell Culture. *Fibers and Polymers*, **2019**, 20, 1577-1585	2	3
58	Effect of highly dispersed graphene and graphene oxide in 3D nanofibrous bacterial cellulose scaffold on cell responses: A comparative study. *Materials Chemistry and Physics*, **2019**, 235, 121774	4.4	19
57	Simvastatin-loaded nanotubular mesoporous bioactive glass scaffolds for bone tissue engineering. *Microporous and Mesoporous Materials*, **2019**, 288, 109570	5.3	10

56	Freezing-Tolerant Supramolecular Organohydrogel with High Toughness, Thermoplasticity, and Healable and Adhesive Properties. *ACS Applied Materials & Interfaces*, **2019**, 11, 21184-21193	9.5	88
55	B,N-Co-doped graphene quantum dots as fluorescence sensor for detection of Hg2+ and F□ons. *Analytical Methods*, **2019**, 11, 1879-1883	3.2	26
54	Constructing 3D scaffold with 40-nm-diameter hollow mesoporous bioactive glass nanofibers. *Materials Letters*, **2019**, 248, 201-203	3.3	6
53	A rhBMP-2-loaded three-dimensional mesoporous bioactive glass nanotubular scaffold prepared from bacterial cellulose. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2019**, 581, 123838	5.1	6
52	Incorporation of hydroxyapatite into nanofibrous PLGA scaffold towards improved breast cancer cell behavior. *Materials Chemistry and Physics*, **2019**, 226, 177-183	4.4	15
51	Biomimetic mineralization of a hydroxyapatite crystal in the presence of a zwitterionic polymer. *CrystEngComm*, **2018**, 20, 2374-2383	3.3	5
50	Layer-by-Layer Assembled Bacterial Cellulose/Graphene Oxide Hydrogels with Extremely Enhanced Mechanical Properties. *Nano-Micro Letters*, **2018**, 10, 42	19.5	55
49	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. *Carbon*, **2018**, 139, 824-832	10.4	41
48	Engineering Polyzwitterion and Polydopamine Decorated Doxorubicin-Loaded Mesoporous Silica Nanoparticles as a pH-Sensitive Drug Delivery. *Polymers*, **2018**, 10,	4.5	16
47	Wrapping mesoporous Fe2O3 nanoparticles by reduced graphene oxide: Enhancement of cycling stability and capacity of lithium ion batteries by mesoscopic engineering. *Ceramics International*, **2018**, 44, 20656-20663	5.1	11
46	Enhanced vascularization of PCL porous scaffolds through VEGF-Fc modification. *Journal of Materials Chemistry B*, **2018**, 6, 4474-4485	7.3	5
45	Zwitterionic starch-based hydrogel for the expansion and "stemness" maintenance of brown adipose derived stem cells. *Biomaterials*, **2018**, 157, 149-160	15.6	29
44	A Dual-Crosslinked Strategy to Construct Physical Hydrogels with High Strength, Toughness, Good Mechanical Recoverability, and Shape-Memory Ability. *Macromolecular Materials and Engineering*, **2018**, 303, 1700396	3.9	47
43	Preparation and properties of few-layer graphene modified waterborne epoxy coatings. *Journal of Applied Polymer Science*, **2018**, 135, 46743	2.9	12
42	Submicrofiber-Incorporated 3D Bacterial Cellulose Nanofibrous Scaffolds with Enhanced Cell Performance. *Macromolecular Materials and Engineering*, **2018**, 303, 1800316	3.9	11
41	Thermoresponsive polysaccharide-based composite hydrogel with antibacterial and healing-promoting activities for preventing recurrent adhesion after adhesiolysis. *Acta Biomaterialia*, **2018**, 74, 439-453	10.8	48
40	Establishment of a Physical Model for Solute Diffusion in Hydrogel: Understanding the Diffusion of Proteins in Poly(sulfobetaine methacrylate) Hydrogel. *Journal of Physical Chemistry B*, **2017**, 121, 800-814	3.4	20
39	Constructing three-dimensional nanofibrous bioglass/gelatin nanocomposite scaffold for enhanced mechanical and biological performance. *Chemical Engineering Journal*, **2017**, 326, 210-221	14.7	22

38	Injectable Fullerenol/Alginate Hydrogel for Suppression of Oxidative Stress Damage in Brown Adipose-Derived Stem Cells and Cardiac Repair. *ACS Nano*, **2017**, 11, 5474-5488	16.7	158
37	Biodegradable and injectable thermoreversible xyloglucan based hydrogel for prevention of postoperative adhesion. *Acta Biomaterialia*, **2017**, 55, 420-433	10.8	49
36	Engineering pectin-based hollow nanocapsules for delivery of anticancer drug. *Carbohydrate Polymers*, **2017**, 177, 86-96	10.3	44
35	Hybrid pectin-Fe/polyacrylamide double network hydrogels with excellent strength, high stiffness, superior toughness and notch-insensitivity. *Soft Matter*, **2017**, 13, 9237-9245	3.6	22
34	Electrospun PDLLA/PLGA composite membranes for potential application in guided tissue regeneration. *Materials Science and Engineering C*, **2016**, 58, 278-85	8.3	49
33	Physical Cross-Linking Starch-Based Zwitterionic Hydrogel Exhibiting Excellent Biocompatibility, Protein Resistance, and Biodegradability. *ACS Applied Materials & Interfaces*, **2016**, 8, 15710-23	9.5	61
32	Hydroxyapatite Crystal Formation in the Presence of Polysaccharide. *Crystal Growth and Design*, **2016**, 16, 1247-1255	3.5	45
31	Stable and pH-responsive polyamidoamine based unimolecular micelles capped with a zwitterionic polymer shell for anticancer drug delivery. *RSC Advances*, **2016**, 6, 17728-17739	3.7	24
30	In Situ "Clickable" Zwitterionic Starch-Based Hydrogel for 3D Cell Encapsulation. *ACS Applied Materials & Interfaces*, **2016**, 8, 4442-55	9.5	68
29	Zwitterionic-Modified Starch-Based Stealth Micelles for Prolonging Circulation Time and Reducing Macrophage Response. *ACS Applied Materials & Interfaces*, **2016**, 8, 4385-98	9.5	64
28	Development of Electrically Conductive Double-Network Hydrogels via One-Step Facile Strategy for Cardiac Tissue Engineering. *Advanced Healthcare Materials*, **2016**, 5, 474-88	10.1	62
27	RoY peptide-modified chitosan-based hydrogel to improve angiogenesis and cardiac repair under hypoxia. *ACS Applied Materials & Interfaces*, **2015**, 7, 6505-17	9.5	51
26	Poly(lactic acid)/poly(ethylene glycol) block copolymer based shell or core cross-linked micelles for controlled release of hydrophobic drug. *RSC Advances*, **2015**, 5, 19484-19492	3.7	19
25	Physically crosslinked poly(vinyl alcohol)□arrageenan composite hydrogels: pore structure stability and cell adhesive ability. *RSC Advances*, **2015**, 5, 78180-78191	3.7	52
24	Antibacterial action mode of quaternized carboxymethyl chitosan/poly(amidoamine) dendrimer core-shell nanoparticles against Escherichia coli correlated with molecular chain conformation. *Materials Science and Engineering C*, **2015**, 48, 220-7	8.3	26
23	Ionic starch-based hydrogels for the prevention of nonspecific protein adsorption. *Carbohydrate Polymers*, **2015**, 117, 384-391	10.3	37
22	Preparation and characterization of protein resistant zwitterionic starches: The effect of substitution degrees. *Starch/Staerke*, **2015**, 67, 920-929	2.3	7
21	A thermoresponsive poly(N-vinylcaprolactam-co-sulfobetaine methacrylate) zwitterionic hydrogel exhibiting switchable anti-biofouling and cytocompatibility. *Polymer Chemistry*, **2015**, 6, 3431-3442	4.9	51

20	Hydrophilic PCU scaffolds prepared by grafting PEGMA and immobilizing gelatin to enhance cell adhesion and proliferation. *Materials Science and Engineering C*, **2015**, 50, 201-9	8.3	50
19	Iota-carrageenan/chitosan/gelatin scaffold for the osteogenic differentiation of adipose-derived MSCs in vitro. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2015**, 103, 1498-510	3.5	39
18	Synthesis and characterization of dendritic star-shaped zwitterionic polymers as novel anticancer drug delivery carriers. *Journal of Biomaterials Science, Polymer Edition*, **2014**, 25, 1641-57	3.5	15
17	Regulation of the endothelialization by human vascular endothelial cells by ZNF580 gene complexed with biodegradable microparticles. *Biomaterials*, **2014**, 35, 7133-45	15.6	49
16	Nano-hydroxyapatite formation via co-precipitation with chitosan-g-poly(N-isopropylacrylamide) in coil and globule states for tissue engineering application. *Frontiers of Chemical Science and Engineering*, **2013**, 7, 388-400	4.5	12
15	Preparation and characterization of a VEGF-Fc fusion protein matrix for enhancing HUVEC growth. *Biotechnology Letters*, **2012**, 34, 1765-71	3	10
14	Synthesis and characterization of quaternized carboxymethyl chitosan/poly(amidoamine) dendrimer core-shell nanoparticles. *Materials Science and Engineering C*, **2012**, 32, 2026-2036	8.3	37
13	Biomimetic multicomponent polysaccharide/nano-hydroxyapatite composites for bone tissue engineering. *Carbohydrate Polymers*, **2011**, 85, 885-894	10.3	75
12	Modulation of nano-hydroxyapatite size via formation on chitosan-gelatin network film in situ. *Biomaterials*, **2007**, 28, 781-90	15.6	214
11	Modification of poly(L-lactic acid) with L-lactic acid / citric acid oligomers. *E-Polymers*, **2006**, 6,	2.7	1
10	Synthesis and Characterization of Chitosan Grafted Oligo(L-lactic acid). *Macromolecular Bioscience*, **2003**, 3, 653-656	5.5	39
9	A novel amphoteric, pH-sensitive, biodegradable poly[chitosan-g-(L-lactic-co-citric) acid] hydrogel. *Journal of Applied Polymer Science*, **2003**, 89, 3850-3854	2.9	15
8	Synthesis and characterization of multiblock copolymers based on L-lactic acid, citric acid, and poly(ethylene glycol). *Journal of Polymer Science Part A*, **2003**, 41, 2073-2081	2.5	19
7	Rare-earth-catalyzed alternating copolymerization of carbon monoxide with styrene. *Journal of Polymer Science Part A*, **2002**, 40, 642-649	2.5	1
6	Copolymerization of carbon monoxide and styrene with the Nd(III)–Cu(II) catalyst. *Journal of Applied Polymer Science*, **2001**, 82, 8-13	2.9	1
5	Antibacterial and UV-Blocking Bioelectronics Based on Transparent, Adhesive, and Strain-Sensitive Multifunctional Hydrogel. *Advanced Materials Technologies*,2101283	6.8	2
4	A robust polyacrylic acid/chitosan cryogel for rapid hemostasis. *Science China Technological Sciences*,1	3.5	1
3	Non-Swelling and Anti-Fouling MXene Nanocomposite Hydrogels for Underwater Strain Sensing. *Advanced Materials Technologies*,2101343	6.8	8

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