Yun-bing Wang

List of Publications by Citations

180 papers	2,757 citations	28 h-index	43 g-index
198 ext. papers	4,131 ext. citations	7.7 avg, IF	5.85 L-index

#	Paper	IF	Citations
180	Processing and properties of porous poly(L-lactide)/bioactive glass composites. *Biomaterials*, **2004**, 25, 2489-500	15.6	191
179	Polyethylene-poly(L-lactide) diblock copolymers: Synthesis and compatibilization of poly(L-lactide)/polyethylene blends. *Journal of Polymer Science Part A*, **2001**, 39, 2755-2766	2.5	175
178	Evolution of implantable and insertable drug delivery systems. *Journal of Controlled Release*, **2014**, 181, 1-10	11.7	104
177	A pH-responsive drug delivery system with an aggregation-induced emission feature for cell imaging and intracellular drug delivery. *Polymer Chemistry*, **2015**, 6, 4715-4718	4.9	67
176	Redox and pH Dual-Responsive Polymeric Micelles with Aggregation-Induced Emission Feature for Cellular Imaging and Chemotherapy. *ACS Applied Materials & Interfaces*, **2018**, 10, 18489-18498	9.5	65
175	Synthesis of Polybutadiene-Polylactide Diblock Copolymers Using Aluminum Alkoxide Macroinitiators. Kinetics and Mechanism. *Macromolecules*, **2000**, 33, 7395-7403	5.5	63
174	pH-sensitive doxorubicin-conjugated prodrug micelles with charge-conversion for cancer therapy. *Acta Biomaterialia*, **2018**, 70, 186-196	10.8	60
173	Dual-responsive injectable hydrogels encapsulating drug-loaded micelles for on-demand antimicrobial activity and accelerated wound healing. *Journal of Controlled Release*, **2020**, 324, 204-217	11.7	59
172	Multifunctional Two-Photon AIE Luminogens for Highly Mitochondria-Specific Bioimaging and Efficient Photodynamic Therapy. *ACS Applied Materials & Interfaces*, **2019**, 11, 20715-20724	9.5	54
171	Reactive Oxygen Species Responsive Theranostic Nanoplatform for Two-Photon Aggregation-Induced Emission Imaging and Therapy of Acute and Chronic Inflammation. *ACS Nano*, **2020**, 14, 5862-5873	16.7	53
170	Synergistic Chemical and Photodynamic Antimicrobial Therapy for Enhanced Wound Healing Mediated by Multifunctional Light-Responsive Nanoparticles. *Biomacromolecules*, **2019**, 20, 4581-4592	6.9	53
169	Dual-crosslinked mussel-inspired smart hydrogels with enhanced antibacterial and angiogenic properties for chronic infected diabetic wound treatment via pH-responsive quick cargo release. *Chemical Engineering Journal*, **2021**, 411, 128564	14.7	50
168	Bone physiological microenvironment and healing mechanism: Basis for future bone-tissue engineering scaffolds. *Bioactive Materials*, **2021**, 6, 4110-4140	16.7	48
167	Radical polymerization-crosslinking method for improving extracellular matrix stability in bioprosthetic heart valves with reduced potential for calcification and inflammatory response. *Acta Biomaterialia*, **2018**, 82, 44-55	10.8	45
166	Peptide-/Drug-Directed Self-Assembly of Hybrid Polyurethane Hydrogels for Wound Healing. *ACS Applied Materials & Interfaces*, **2019**, 11, 37147-37155	9.5	43
165	In-situ doping of a conductive hydrogel with low protein absorption and bacterial adhesion for electrical stimulation of chronic wounds. *Acta Biomaterialia*, **2019**, 89, 217-226	10.8	42
164	Redox-Responsive Biomimetic Polymeric Micelle for Simultaneous Anticancer Drug Delivery and Aggregation-Induced Emission Active Imaging. *Bioconjugate Chemistry*, **2018**, 29, 1897-1910	6.3	40

163	High-performance porous polylactide stereocomplex crystallite scaffolds prepared by solution blending and salt leaching. *Materials Science and Engineering C*, **2018**, 90, 602-609	8.3	38
162	Green Tea Polyphenol Induced Mg-rich Multilayer Conversion Coating: Toward Enhanced Corrosion Resistance and Promoted in Situ Endothelialization of AZ31 for Potential Cardiovascular Applications. *ACS Applied Materials & Interfaces*, **2019**, 11, 41165-41177	9.5	35
161	Superhydrophilic versus normal polydopamine coating: A superior and robust platform for synergistic antibacterial and antithrombotic properties. *Chemical Engineering Journal*, **2020**, 402, 126196	14.7	35
160	Highly Stretchable and Conductive Self-Healing Hydrogels for Temperature and Strain Sensing and Chronic Wound Treatment. *ACS Applied Materials & Interfaces*, **2020**, 12, 40990-40999	9.5	34
159	Synthesis and Characterization of a Novel Macroinitiator of Poly(ethylene oxide) with a 4-Hydroxy-2,2,6,6-tetramethylpiperidinyloxy End Group: Initiation of the Polymerization of Styrene by a Living Radical Mechanism. *Macromolecules*, **1999**, 32, 2480-2483	5.5	31
158	Micelle-Embedded Layer-by-Layer Coating with Catechol and Phenylboronic Acid for Tunable Drug Loading, Sustained Release, Mild Tissue Response, and Selective Cell Fate for Re-endothelialization. *ACS Applied Materials & Interfaces*, **2019**, 11, 10337-10350	9.5	31
157	Flexible and self-healing electrochemical hydrogel sensor with high efficiency toward glucose monitoring. *Biosensors and Bioelectronics*, **2020**, 155, 112105	11.8	30
156	Vascular restoration therapy and bioresorbable vascular scaffold. *International Journal of Energy Production and Management*, **2014**, 1, 49-55	5.3	30
155	Catechol/polyethyleneimine conversion coating with enhanced corrosion protection of magnesium alloys: potential applications for vascular implants. *Journal of Materials Chemistry B*, **2018**, 6, 6936-6949	7.3	29
154	Recognition by Lipases of Hydroxyl Macroinitiators for Diblock Copolymer Synthesis. *Macromolecules*, **2002**, 35, 7606-7611	5.5	28
153	Controlled Radical Copolymerization of Styrene and the Macromonomer of PEO with a Methacryloyl End Group. *Macromolecules*, **1998**, 31, 4057-4060	5.5	28
152	Inflammation-Responsive Drug-Loaded Hydrogels with Sequential Hemostasis, Antibacterial, and Anti-Inflammatory Behavior for Chronically Infected Diabetic Wound Treatment. *ACS Applied Materials & Interfaces*, **2021**, 13, 33584-33599	9.5	28
151	Chromium Cross-Linking Based Immobilization of Silver Nanoparticle Coating on Leather Surface with Broad-Spectrum Antimicrobial Activity and Durability. *ACS Applied Materials & Interfaces*, **2019**, 11, 2352-2363	9.5	27
150	In situ synthesis of multidentate PEGylated chitosan modified gold nanoparticles with good stability and biocompatibility. *RSC Advances*, **2015**, 5, 70109-70116	3.7	26
149	Dopamine-assisted deposition of poly (ethylene imine) for efficient heparinization. *Colloids and Surfaces B: Biointerfaces*, **2016**, 144, 90-98	6	26
148	A synergistic antibacterial effect between terbium ions and reduced graphene oxide in a poly(vinyl alcohol)-alginate hydrogel for treating infected chronic wounds. *Journal of Materials Chemistry B*, **2019**, 7, 538-547	7.3	25
147	A biomimetic and pH-sensitive polymeric micelle as carrier for paclitaxel delivery. *International Journal of Energy Production and Management*, **2018**, 5, 15-24	5.3	25
146	Multifunctional coatings that mimic the endothelium: surface bound active heparin nanoparticles with in situ generation of nitric oxide from nitrosothiols. *Journal of Materials Chemistry B*, **2018**, 6, 5582-5595	7.3	25

145	Multi-stimuli responsive polymeric prodrug micelles for combined chemotherapy and photodynamic therapy. *Journal of Materials Chemistry B*, **2020**, 8, 5267-5279	7.3	22
144	Drug carrier system self-assembled from biomimetic polyphosphorycholine and biodegradable polypeptide based diblock copolymers. *Polymer*, **2016**, 100, 45-55	3.9	22
143	Dual-Responsive Doxorubicin-Conjugated Polymeric Micelles with Aggregation-Induced Emission Active Bioimaging and Charge Conversion for Cancer Therapy. *Bioconjugate Chemistry*, **2018**, 29, 4050-4061	6.3	22
142	ROS Responsive Nanoplatform with Two-Photon AIE Imaging for Atherosclerosis Diagnosis and "Two-Pronged" Therapy. *Small*, **2020**, 16, e2003253	11	20
141	Epigallocatechin gallate mediated sandwich-like coating for mimicking endothelium with sustained therapeutic nitric oxide generation and heparin release. *Biomaterials*, **2021**, 269, 120418	15.6	20
140	Coaxial electrospinning multicomponent functional controlled-release vascular graft: Optimization of graft properties. *Colloids and Surfaces B: Biointerfaces*, **2017**, 152, 432-439	6	19
139	Two-photon AIE luminogen labeled multifunctional polymeric micelles for theranostics. *Theranostics*, **2019**, 9, 6618-6630	12.1	19
138	Polycaprolactone vascular graft with epigallocatechin gallate embedded sandwiched layer-by-layer functionalization for enhanced antithrombogenicity and anti-inflammation. *Journal of Controlled Release*, **2020**, 320, 226-238	11.7	18
137	Heart Valves Cross-Linked with Erythrocyte Membrane Drug-Loaded Nanoparticles as a Biomimetic Strategy for Anti-coagulation, Anti-inflammation, Anti-calcification, and Endothelialization. *ACS Applied Materials & Interfaces*, **2020**, 12, 41113-41126	9.5	18
136	High contrast stimuli-responsive luminescence switching of pyrene-1-carboxylic esters triggered by a crystal-to-crystal transition. *New Journal of Chemistry*, **2017**, 41, 13784-13791	3.6	17
135	Electrospun silk fibroin/poly (L-lactide-□caplacton) graft with platelet-rich growth factor for inducing smooth muscle cell growth and infiltration. *International Journal of Energy Production and Management*, **2016**, 3, 239-45	5.3	17
134	Cross-Linking Methacrylated Porcine Pericardium by Radical Polymerization Confers Enhanced Extracellular Matrix Stability, Reduced Calcification, and Mitigated Immune Response to Bioprosthetic Heart Valves. *ACS Biomaterials Science and Engineering*, **2019**, 5, 1822-1832	5.5	16
133	Systematic screening identifies a 2-gene signature as a high-potential prognostic marker of undifferentiated pleomorphic sarcoma/myxofibrosarcoma. *Journal of Cellular and Molecular Medicine*, **2020**, 24, 1010-1021	5.6	16
132	Thermo-triggered ultrafast self-healing of microporous coating for on-demand encapsulation of biomacromolecules. *Biomaterials*, **2019**, 192, 15-25	15.6	16
131	Two-photon AIE probe conjugated theranostic nanoparticles for tumor bioimaging and pH-sensitive drug delivery. *Nano Research*, **2019**, 12, 1703-1712	10	15
130	A thermo-sensitive, injectable and biodegradable in situ hydrogel as a potential formulation for uveitis treatment. *Journal of Materials Chemistry B*, **2019**, 7, 4402-4412	7.3	14
129	Oxidation-Responsive and Aggregation-Induced Emission Polymeric Micelles with Two-Photon Excitation for Cancer Therapy and Bioimaging. *ACS Biomaterials Science and Engineering*, **2019**, 5, 2577-2586	5.5	14
128	Dual-Responsive Micelles with Aggregation-Induced Emission Feature and Two-Photon Aborsption for Accurate Drug Delivery and Bioimaging. *Bioconjugate Chemistry*, **2019**, 30, 2075-2087	6.3	14

127	A tailored extracellular matrix (ECM) - Mimetic coating for cardiovascular stents by stepwise assembly of hyaluronic acid and recombinant human type III collagen. *Biomaterials*, **2021**, 276, 121055	15.6	14
126	A conformally adapted all-in-one hydrogel coating: towards robust hemocompatibility and bactericidal activity. *Journal of Materials Chemistry B*, **2021**, 9, 2697-2708	7.3	14
125	Biodegradable phosphorylcholine copolymer for cardiovascular stent coating. *Journal of Materials Chemistry B*, **2020**, 8, 5361-5368	7.3	13
124	The bifunctional SDF-1-AnxA5 fusion protein protects cardiac function after myocardial infarction. *Journal of Cellular and Molecular Medicine*, **2019**, 23, 7673-7684	5.6	13
123	Preparation of organic mechanochromic fluorophores with simple structures and promising mechanochromic luminescence properties. *RSC Advances*, **2016**, 6, 84787-84793	3.7	13
122	Catechol-mediated and copper-incorporated multilayer coating: An endothelium-mimetic approach for blood-contacting devices. *Journal of Controlled Release*, **2020**, 321, 59-70	11.7	12
121	TPE-conjugated biomimetic and biodegradable polymeric micelle for AIE active cell imaging and cancer therapy. *Journal of Applied Polymer Science*, **2018**, 135, 45651	2.9	12
120	Platelet Adhesion and Activation on Chiral Surfaces: The Influence of Protein Adsorption. *Langmuir*, **2017**, 33, 10402-10410	4	12
119	Experimental and Numerical Simulation of Biodegradable Stents with Different Strut Geometries. *Cardiovascular Engineering and Technology*, **2020**, 11, 36-46	2.2	12
118	Transdermal delivery of peptide and protein drugs: Strategies, advantages and disadvantages. *Journal of Drug Delivery Science and Technology*, **2020**, 60, 102007	4.5	12
117	A method for simultaneously crosslinking and functionalizing extracellular matrix-based biomaterials as bioprosthetic heart valves with enhanced endothelialization and reduced inflammation. *Acta Biomaterialia*, **2021**, 119, 89-100	10.8	12
116	Substrate stiffness differentially impacts autophagy of endothelial cells and smooth muscle cells. *Bioactive Materials*, **2021**, 6, 1413-1422	16.7	12
115	pH and singlet oxygen dual-responsive GEM prodrug micelles for efficient combination therapy of chemotherapy and photodynamic therapy. *Journal of Materials Chemistry B*, **2020**, 8, 5645-5654	7.3	11
114	Performance of PEGylated chitosan and poly (L-lactic acid-co-ε-caprolactone) bilayer vascular grafts in a canine femoral artery model. *Colloids and Surfaces B: Biointerfaces*, **2020**, 188, 110806	6	11
113	Cation–anion interaction directed dual-mode switchable mechanochromic luminescence. *Journal of Materials Chemistry C*, **2017**, 5, 8527-8534	7.1	11
112	Phosphorylcholine- and cation-bearing copolymer coating with superior antibiofilm and antithrombotic properties for blood-contacting devices. *Journal of Materials Chemistry B*, **2020**, 8, 8433-8443	7.3	11
111	Photo-functionalized TiO nanotubes decorated with multifunctional Ag nanoparticles for enhanced vascular biocompatibility. *Bioactive Materials*, **2021**, 6, 45-54	16.7	11
110	Disassembly of micelle-like polyethylenimine nanocomplexes for siRNA delivery: High transfection efficiency and reduced toxicity achieved by simple reducible lipid modification. *Journal of Colloid and Interface Science*, **2017**, 504, 633-644	9.3	10

109	A two-photon AIE fluorophore as a photosensitizer for highly efficient mitochondria-targeted photodynamic therapy. *New Journal of Chemistry*, **2020**, 44, 9355-9364	3.6	10
108	Pre-mounted dry TAVI valve with improved endothelialization potential using REDV-loaded PEGMA hydrogel hybrid pericardium. *Journal of Materials Chemistry B*, **2020**, 8, 2689-2701	7.3	10
107	Bionic Tea Stain□like, All-Nanoparticle Coating for Biocompatible Corrosion Protection. *Advanced Materials Interfaces*, **2019**, 6, 1900899	4.6	10
106	A novel mechanism of inhibiting in-stent restenosis with arsenic trioxide drug-eluting stent: Enhancing contractile phenotype of vascular smooth muscle cells via YAP pathway. *Bioactive Materials*, **2021**, 6, 375-385	16.7	10
105	Improved Antithrombotic Function of Oriented Endothelial Cell Monolayer on Microgrooves. *ACS Biomaterials Science and Engineering*, **2018**, 4, 1976-1985	5.5	10
104	Hydrogel hybrid porcine pericardium for the fabrication of a pre-mounted TAVI valve with improved biocompatibility. *Journal of Materials Chemistry B*, **2019**, 7, 1427-1434	7.3	9
103	Scaffold with Micro/Macro-Architecture for Myocardial Alignment Engineering into Complex 3D Cell Patterns. *Advanced Healthcare Materials*, **2019**, 8, e1901015	10.1	9
102	Hierarchical Responsive Nanoplatform with Two-Photon Aggregation-Induced Emission Imaging for Efficient Cancer Theranostics. *ACS Applied Materials & Interfaces*, **2019**, 11, 47259-47269	9.5	9
101	Turn-on fluorescent probe for lipid droplet specific imaging of fatty liver and atherosclerosis. *Journal of Materials Chemistry B*, **2021**, 9, 4050-4055	7.3	9
100	Hybrid Pericardium with VEGF-Loaded Hyaluronic Acid Hydrogel Coating to Improve the Biological Properties of Bioprosthetic Heart Valves. *Macromolecular Bioscience*, **2019**, 19, e1800390	5.5	8
99	Integrated prodrug micelles with two-photon bioimaging and pH-triggered drug delivery for cancer theranostics. *International Journal of Energy Production and Management*, **2020**, 7, 171-180	5.3	8
98	Hierarchical Capillary Coating to Biofunctionlize Drug-Eluting Stent for Improving Endothelium Regeneration. *Research*, **2020**, 2020, 1458090	7.8	8
97	Polyzwitterion-crosslinked hybrid tissue with antithrombogenicity, endothelialization, anticalcification properties. *Chemical Engineering Journal*, **2021**, 410, 128244	14.7	8
96	Poly (dimethyl diallyl ammonium chloride) incorporated multilayer coating on biodegradable AZ31 magnesium alloy with enhanced resistance to chloride corrosion and promoted endothelialization. *Chemical Engineering Journal*, **2021**, 421, 127724	14.7	8
95	Biomimetic-Coated Nanoplatform with Lipid-Specific Imaging and ROS Responsiveness for Atherosclerosis-Targeted Theranostics. *ACS Applied Materials & Interfaces*, **2021**, 13, 35410-35421	9.5	8
94	A multi-in-one strategy with glucose-triggered long-term antithrombogenicity and sequentially enhanced endothelialization for biological valve leaflets. *Biomaterials*, **2021**, 275, 120981	15.6	8
93	A facile and versatile superhydrophilic coating on biodegradable PLA stent with stepwise assembly of metal/phenolic networks for mimicking endothelium function. *Chemical Engineering Journal*, **2022**, 427, 130932	14.7	8
92	Elastin Stabilization Through Polyphenol and Ferric Chloride Combined Treatment for the Enhancement of Bioprosthetic Heart Valve Anticalcification. *Artificial Organs*, **2018**, 42, 1062-1069	2.6	7

91	Grafting of poly(ethylene oxide) with Schiff's base end group onto chloromethylated polystyrene via Decker-Forster reaction. *Macromolecular Rapid Communications*, **1998**, 19, 247-250	4.8	7
90	Nonglutaraldehyde treated porcine pericardium with good biocompatibility, reduced calcification and improved Anti-coagulation for bioprosthetic heart valve applications. *Chemical Engineering Journal*, **2021**, 414, 128900	14.7	7
89	Stability research on polydopamine and immobilized albumin on 316L stainless steel. *International Journal of Energy Production and Management*, **2016**, 3, 277-284	5.3	7
88	The tropoelastin and lysyl oxidase treatments increased the content of insoluble elastin in bioprosthetic heart valves. *Journal of Biomaterials Applications*, **2018**, 33, 637-646	2.9	7
87	miR-22 eluting cardiovascular stent based on a self-healable spongy coating inhibits in-stent restenosis. *Bioactive Materials*, **2021**, 6, 4686-4696	16.7	7
86	Hyaluronic acid-curcumin conjugate suppresses the fibrotic functions of myofibroblasts from contractive joint by the PTGER2 demethylation. *International Journal of Energy Production and Management*, **2019**, 6, 269-277	5.3	6
85	Tough pNAGA hydrogel hybridized porcine pericardium for the pre-mounted TAVI valve with improved anti-tearing properties and hemocompatibility. *Biomedical Materials (Bristol)*, **2020**, 15, 065013	3.5	6
84	A fully absorbable biomimetic polymeric micelle loaded with cisplatin as drug carrier for cancer therapy. *International Journal of Energy Production and Management*, **2018**, 5, 1-8	5.3	6
83	A pH-Sensitive Phospholipid Polymeric Prodrug Based on Branched Polyethylenimine for Intracellular Drug Delivery. *Macromolecular Chemistry and Physics*, **2016**, 217, 2049-2055	2.6	6
82	Multistep Instead of One-Step: A Versatile and Multifunctional Coating Platform for Biocompatible Corrosion Protection. *ACS Biomaterials Science and Engineering*, **2019**, 5, 6541-6556	5.5	6
81	Multiplexed nanomaterial-assisted laser desorption/ionization for pan-cancer diagnosis and classification.. *Nature Communications*, **2022**, 13, 617	17.4	6
80	A spatiotemporal release platform based on pH/ROS stimuli-responsive hydrogel in wound repairing. *Journal of Controlled Release*, **2021**, 341, 147-165	11.7	6
79	NT5DC2 promotes leiomyosarcoma tumour cell growth via stabilizing unpalmitoylated TEAD4 and generating a positive feedback loop. *Journal of Cellular and Molecular Medicine*, **2021**, 25, 5976	5.6	6
78	Inorganic-polymerization crosslinked tissue-siloxane hybrid as potential biomaterial for bioprosthetic heart valves. *Journal of Biomedical Materials Research - Part A*, **2021**, 109, 754-765	5.4	6
77	A transparent hydrophilic anti-biofouling coating for intraocular lens materials prepared by "bridging" of the intermediate adhesive layer. *Journal of Materials Chemistry B*, **2021**, 9, 3696-3704	7.3	6
76	Micelles prepared from poly(N-isopropylacrylamide-co-tetraphenylethene acrylate)-b-poly[oligo(ethylene glycol) methacrylate] double hydrophilic block copolymer as hydrophilic drug carrier. *Journal of Materials Chemistry B*, **2018**, 6, 7495-7502	7.3	6
75	Dressing Blood-Contacting Materials by a Stable Hydrogel Coating with Embedded Antimicrobial Peptides for Robust Antibacterial and Antithrombus Properties. *ACS Applied Materials & Interfaces*, **2021**, 13, 38947-38958	9.5	6
74	A robust mussel-inspired zwitterionic coating on biodegradable poly(L-lactide) stent with enhanced anticoagulant, anti-inflammatory, and anti-hyperplasia properties. *Chemical Engineering Journal*, **2022**, 427, 130910	14.7	6

73	Redox-Sensitive Polymeric Micelles Based on Tetraphenylethylene-Conjugated Copolymer for Aggregation-Induced Emission Active Imaging and Drug Delivery. *Journal of Biomedical Nanotechnology*, **2017**, 13, 1480-1489	4	5
72	Synthesis of Poly(N-isopropylacrylamide)-Block-Poly(tert-Butyl Methacrylate) Block Copolymer by Visible Light□Induced Metal-Free Atom Transfer Polymerization. *Macromolecular Chemistry and Physics*, **2018**, 219, 1800192	2.6	5
71	Nonglutaraldehyde crosslinked bioprosthetic heart valves based on 2-isocyanatoethyl methacrylate crosslinked porcine pericardium with improved properties of stability, cytocompatibility and anti-calcification. *Composites Part B: Engineering*, **2022**, 230, 109504	10	5
70	Microenvironment-responsive multifunctional hydrogels with spatiotemporal sequential release of tailored recombinant human collagen type III for the rapid repair of infected chronic diabetic wounds. *Journal of Materials Chemistry B*, **2021**, 9, 9684-9699	7.3	5
69	Extracellular matrix coating improves the biocompatibility of polymeric heart valves. *Journal of Materials Chemistry B*, **2020**, 8, 10616-10629	7.3	5
68	The biological responses and mechanisms of endothelial cells to magnesium alloy. *International Journal of Energy Production and Management*, **2021**, 8, rbab017	5.3	5
67	EGCG and enzymatic cross-linking combined treatments for improving elastin stability and reducing calcification in bioprosthetic heart valves. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2019**, 107, 1551-1559	3.5	5
66	Alternatives to Conventional Antibiotic Therapy: Potential Therapeutic Strategies of Combating Antimicrobial-Resistance and Biofilm-Related Infections. *Molecular Biotechnology*, **2021**, 63, 1103-1124	3	5
65	Microneedle-mediated vascular endothelial growth factor delivery promotes angiogenesis and functional recovery after stroke. *Journal of Controlled Release*, **2021**, 338, 610-622	11.7	5
64	Development of Innovative Biomaterials and Devices for the Treatment of Cardiovascular Diseases. *Advanced Materials*,2201971	24	5
63	Nanostructured Multilayer Films Assembled from Poly(dopamine)-Coated Carbon Nanotubes for Controlling Cell Behavior. *ChemNanoMat*, **2017**, 3, 319-327	3.5	4
62	Cation□anion interaction-directed formation of functional vesicles and their biological application for nucleus-specific imaging. *New Journal of Chemistry*, **2018**, 42, 9187-9192	3.6	4
61	Multifunctional mussel-inspired copolymerized epigallocatechin gallate (EGCG)/arginine coating: the potential as an ad-layer for vascular materials. *International Journal of Energy Production and Management*, **2016**, 3, 247-255	5.3	4
60	A novel anti-calcification method for bioprosthetic heart valves using dopamine-modified alginate. *Polymer Bulletin*, **2019**, 76, 1423-1434	2.4	4
59	Intrinsic Antibacterial and Conductive Hydrogels Based on the Distinct Bactericidal Effect of Polyaniline for Infected Chronic Wound Healing. *ACS Applied Materials & Interfaces*, **2021**,	9.5	4
58	Cross-Linking Porcine Pericardium by 3,4-Dihydroxybenzaldehyde: A Novel Method to Improve the Biocompatibility of Bioprosthetic Valve. *Biomacromolecules*, **2021**, 22, 823-836	6.9	4
57	Biodegradable synthetic polymeric composite scaffold-based tissue engineered heart valve with minimally invasive transcatheter implantation. *Polymers for Advanced Technologies*, **2020**, 31, 2422-2432	3.2	4
56	Highly specific probe for dual-emissive mitochondrial imaging based on a photostable and aqueous-soluble phosphonium fluorophore. *RSC Advances*, **2016**, 6, 94085-94091	3.7	4

55	Riboflavin photo-cross-linking method for improving elastin stability and reducing calcification in bioprosthetic heart valves. *Xenotransplantation*, **2019**, 26, e12481	2.8	4
54	Conductive dual hydrogen bonding hydrogels for the electrical stimulation of infected chronic wounds. *Journal of Materials Chemistry B*, **2021**, 9, 8138-8146	7.3	4
53	Fluid shear stress activates YAP to promote epithelial-mesenchymal transition in hepatocellular carcinoma. *Molecular Oncology*, **2021**, 15, 3164-3183	7.9	4
52	Multifarious anti-biofouling bioprosthetic heart valve materials with the formation of interpenetrating polymer network structures. *Materials and Design*, **2021**, 206, 109803	8.1	4
51	The application of antitumor drug-targeting models on liver cancer. *Drug Delivery*, **2016**, 23, 1667-75	7	3
50	Enzyme-oxidative-polymerization method for improving glycosaminoglycans stability and reducing calcification in bioprosthetic heart valves. *Biomedical Materials (Bristol)*, **2019**, 14, 025012	3.5	3
49	A two-photon fluorophore labeled multi-functional drug carrier for targeting cancer therapy, inflammation restraint and AIE active bioimaging. *Journal of Materials Chemistry B*, **2019**, 7, 3894-3908	7.3	3
48	Bioprosthetic heart valves□structural integrity improvement through exogenous amino donor treatments. *Journal of Materials Research*, **2018**, 33, 2576-2585	2.5	3
47	Platelet Membrane-Coated Nanocarriers Targeting Plaques to Deliver Anti-CD47 Antibody for Atherosclerotic Therapy.. *Research*, **2022**, 2022, 9845459	7.8	3
46	Dissolving microneedle-encapsulated drug-loaded nanoparticles and recombinant humanized collagen type III for the treatment of chronic wound anti-inflammation and enhanced cell proliferation and angiogenesis.. *Nanoscale*, **2022**,	7.7	3
45	Sodium lignosulfonate cross-linked bioprosthetic heart valve materials for enhanced cytocompatibility, improved hemocompatibility, and reduced calcification. *Composites Part B: Engineering*, **2022**, 234, 109669	10	3
44	A lipid droplet specific fluorescent probe for image-guided photodynamic therapy under hypoxia. *Journal of Materials Chemistry B*, **2021**, 9, 9553-9560	7.3	3
43	A honokiol-mediated robust coating for blood-contacting devices with anti-inflammatory, antibacterial and antithrombotic properties. *Journal of Materials Chemistry B*, **2021**, 9, 9770-9783	7.3	3
42	The study of dry biological valve crosslinked with a combination of carbodiimide and polyphenol. *International Journal of Energy Production and Management*, **2021**, 8, rbaa049	5.3	3
41	A combination of hydrogen bonding and chemical covalent crosslinking to fabricate a novel swim-bladder-derived dry heart valve material yields advantageous mechanical and biological properties. *Biomedical Materials (Bristol)*, **2021**, 16, 015014	3.5	3
40	PEGylated chitosan and PEGylated PLCL for blood vessel repair: An in vitro study. *Journal of Biomaterials Applications*, **2020**, 34, 778-789	2.9	3
39	Chemical bonding of biological valve leaflets with an aminated zwitterionic copolymer for long-term anticoagulation and improved anti-calcification. *Chemical Engineering Journal*, **2021**, 426, 131803	14.7	3
38	A bioprosthetic heart valve cross-linked by a non-glutaraldehyde reagent with improved biocompatibility, endothelialization, anti-coagulation and anti-calcification properties. *Journal of Materials Chemistry B*, **2021**, 9, 4031-4038	7.3	3

37	ROS and GSH Dual-Responsive GEM Prodrug Micelles for ROS-Triggered Fluorescence Turn on Bioimaging and Cancer Therapy. *Advanced Materials Interfaces*, **2020**, 7, 2000294	4.6	3
36	A PEGylation method of fabricating bioprosthetic heart valves based on glutaraldehyde and 2-amino-4-pentenoic acid co-crosslinking with improved antithrombogenicity and cytocompatibility.. *Acta Biomaterialia*, **2022**,	10.8	3
35	A Polyphenol-Network-Mediated Coating Modulates Inflammation and Vascular Healing on Vascular Stents.. *ACS Nano*, **2022**,	16.7	3
34	A thrombin-triggered self-regulating anticoagulant strategy combined with anti-inflammatory capacity for blood-contacting implants.. *Science Advances*, **2022**, 8, eabm3378	14.3	3
33	Injectable multifunctional hyaluronic acid/methylcellulose hydrogels for chronic wounds repairing.. *Carbohydrate Polymers*, **2022**, 289, 119456	10.3	3
32	Exogenous hyaluronic acid and chondroitin sulfate crosslinking treatment for increasing the amount and stability of glycosaminoglycans in bioprosthetic heart valves. *Journal of Materials Science: Materials in Medicine*, **2019**, 30, 38	4.5	2
31	and assessment of nanostructured porous biphasic calcium phosphate ceramics for promoting osteogenesis in an osteoporotic environment.. *RSC Advances*, **2018**, 8, 14646-14653	3.7	2
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