

Yi Hong

List of Publications by Year in Descending Order

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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.

104
papers

4,593
citations

39
h-index

66
g-index

118
ext. papers

5,372
ext. citations

8.3
avg, IF

5.68
L-index

#	Paper	IF	Citations
104	GelNB molecular coating as a biophysical barrier to isolate intestinal irritating metabolites and regulate intestinal microbial homeostasis in the treatment of inflammatory bowel disease.. <i>Bioactive Materials</i> , 2023 , 19, 251-267	16.7	0
103	Reference values for plasma neurofilament light chain in healthy Chinese children. <i>Clinical Chemistry and Laboratory Medicine</i> , 2022 , 60, e10-e12	5.9	0
102	Polyglutamic Acid-Based Elastic and Tough Adhesive Patch Promotes Tissue Regeneration through In Situ Macrophage Modulation.. <i>Advanced Science</i> , 2022 , e2106115	13.6	2
101	Biomimetic macroporous hydrogel with a triple-network structure for full-thickness skin regeneration. <i>Applied Materials Today</i> , 2022 , 27, 101442	6.6	2
100	Rational design of biodegradable thermoplastic polyurethanes for tissue repair.. <i>Bioactive Materials</i> , 2022 , 15, 250-271	16.7	6
99	In vitro comparison of harvesting site effects on cardiac extracellular matrix hydrogels. <i>Journal of Biomedical Materials Research - Part A</i> , 2021 , 109, 1922-1930	5.4	0
98	Biomechanical properties of acellular scar ECM during the acute to chronic stages of myocardial infarction. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 116, 104342	4.1	2
97	3D printing of chemical-empowered tendon stem/progenitor cells for functional tissue repair. <i>Biomaterials</i> , 2021 , 271, 120722	15.6	4
96	Multifunctional peptide-conjugated nanocarriers for pulp regeneration in a full-length human tooth root. <i>Acta Biomaterialia</i> , 2021 , 127, 252-265	10.8	2
95	Dynamic loading enhances chondrogenesis of human chondrocytes within a biodegradable resilient hydrogel. <i>Biomaterials Science</i> , 2021 , 9, 5011-5024	7.4	2
94	Mechanical expansion microscopy. <i>Methods in Cell Biology</i> , 2021 , 161, 125-146	1.8	1
93	Anxiety and depression in school-age patients with spinal muscular atrophy: a cross-sectional study. <i>Orphanet Journal of Rare Diseases</i> , 2021 , 16, 385	4.2	0
92	A long-term retaining molecular coating for corneal regeneration. <i>Bioactive Materials</i> , 2021 , 6, 4447-4454	16.7	5
91	Polydopamine nanoparticles and hyaluronic acid hydrogels for mussel-inspired tissue adhesive nanocomposites.. <i>Materials Science and Engineering C</i> , 2021 , 112589	8.3	1
90	Preseeding of Mesenchymal Stem Cells Increases Integration of an iPSC-Derived CM Sheet into a Cardiac Matrix. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 6808-6818	5.5	1
89	Tissue-Adhesive Paint of Silk Microparticles for Articular Surface Cartilage Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 22467-22478	9.5	10
88	Exploring NIR Aza-BODIPY-Based Polarity Sensitive Probes with ON-and-OFF Fluorescence Switching in Pluronic Nanoparticles. <i>Polymers</i> , 2020 , 12,	4.5	11

87	"All-in-One" Gel System for Whole Procedure of Stem-Cell Amplification and Tissue Engineering. <i>Small</i> , 2020 , 16, e1906539	11	13
86	Comparative Proteomics Profiling Illuminates the Fruitlet Abscission Mechanism of Sweet Cherry as Induced by Embryo Abortion. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	2
85	Glutathione-responsive biodegradable polyurethane nanoparticles for lung cancer treatment. <i>Journal of Controlled Release</i> , 2020 , 321, 363-371	11.7	24
84	Mussel-inspired bioadhesives in healthcare: design parameters, current trends, and future perspectives. <i>Biomaterials Science</i> , 2020 , 8, 1240-1255	7.4	39
83	A Biocompatible and Near-Infrared Liposome for In Vivo Ultrasound-Switchable Fluorescence Imaging. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901457	10.1	8
82	Tissue Engineering: All-in-One Gel System for Whole Procedure of Stem-Cell Amplification and Tissue Engineering (Small 16/2020). <i>Small</i> , 2020 , 16, 2070088	11	
81	Temperature-sensitive polymeric nanogels encapsulating with Cyclodextrin and ICG complex for high-resolution deep-tissue ultrasound-switchable fluorescence imaging. <i>Nano Research</i> , 2020 , 13, 1100-1110	10	4
80	Current advances in biodegradable synthetic polymer based cardiac patches. <i>Journal of Biomedical Materials Research - Part A</i> , 2020 , 108, 972-983	5.4	19
79	Targeting downstream subcellular YAP activity as a function of matrix stiffness with Verteporfin-encapsulated chitosan microsphere attenuates osteoarthritis. <i>Biomaterials</i> , 2020 , 232, 119724	15.6	18
78	Rapid printing of bio-inspired 3D tissue constructs for skin regeneration. <i>Biomaterials</i> , 2020 , 258, 120287	15.6	48
77	An interleukin-4-loaded bi-layer 3D printed scaffold promotes osteochondral regeneration. <i>Acta Biomaterialia</i> , 2020 , 117, 246-260	10.8	23
76	Optimizing Anisotropic Polyurethane Scaffolds to Mechanically Match with Native Myocardium. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 2757-2769	5.5	6
75	Recent advances in high-strength and elastic hydrogels for 3D printing in biomedical applications. <i>Acta Biomaterialia</i> , 2019 , 95, 50-59	10.8	66
74	A strongly adhesive hemostatic hydrogel for the repair of arterial and heart bleeds. <i>Nature Communications</i> , 2019 , 10, 2060	17.4	266
73	3D bioprinting of vascular conduits for pediatric congenital heart repairs. <i>Translational Research</i> , 2019 , 211, 35-45	11	18
72	Cardiac tissue-derived extracellular matrix scaffolds for myocardial repair: advantages and challenges. <i>International Journal of Energy Production and Management</i> , 2019 , 6, 185-199	5.3	46
71	Epicardial prestrained confinement and residual stresses: a newly observed heart ventricle confinement interface. <i>Journal of the Royal Society Interface</i> , 2019 , 16, 20190028	4.1	6
70	Biodegradable Zwitterionic Polymer Coatings for Magnesium Alloy Stents. <i>Langmuir</i> , 2019 , 35, 1421-1429	4	17

69	Heart valve tissue-derived hydrogels: Preparation and characterization of mitral valve chordae, aortic valve, and mitral valve gels. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019 , 107, 1732-1740	3.5	6
68	Highly Elastic Biodegradable Single-Network Hydrogel for Cell Printing. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9969-9979	9.5	62
67	Evaluation of Photochemistry Reaction Kinetics to Pattern Bioactive Proteins on Hydrogels for Biological Applications. <i>Bioactive Materials</i> , 2018 , 3, 64-73	16.7	13
66	Enhancing anti-thrombogenicity of biodegradable polyurethanes through drug molecule incorporation. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 7288-7297	7.3	9
65	Biodegradable Nanoparticles Enhanced Adhesiveness of Mussel-Like Hydrogels at Tissue Interface. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1701069	10.1	28
64	Decellularization in Heart Valve Tissue Engineering 2018 , 289-317		1
63	In silico simulation and in vitro evaluation of an elastomeric scaffold using ultrasonic shear wave imaging. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 322, 022035	0.4	
62	Quantitative Analysis of Tissue Damage Evolution in Porcine Liver With Interrupted Mechanical Testing Under Tension, Compression, and Shear. <i>Journal of Biomechanical Engineering</i> , 2018 , 140,	2.1	8
61	Low-Initial-Modulus Biodegradable Polyurethane Elastomers for Soft Tissue Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 2169-2180	9.5	50
60	Patterning Bioactive Proteins or Peptides on Hydrogel Using Photochemistry for Biological Applications. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	1
59	An optical probe for detecting chondrocyte apoptosis in response to mechanical injury. <i>Scientific Reports</i> , 2017 , 7, 10906	4.9	6
58	Asymmetric Sensory-Motor Regeneration of Transected Peripheral Nerves Using Molecular Guidance Cues. <i>Scientific Reports</i> , 2017 , 7, 14323	4.9	9
57	Skeletal muscle derived stem cells microintegrated into a biodegradable elastomer for reconstruction of the abdominal wall. <i>Biomaterials</i> , 2017 , 113, 31-41	15.6	24
56	A Dual-Modality System for Both Multi-Color Ultrasound-Switchable Fluorescence and Ultrasound Imaging. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	12
55	The Mechanisms and Biomedical Applications of an NIR BODIPY-Based Switchable Fluorescent Probe. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	13
54	Lung protection by inhalation of exogenous solubilized extracellular matrix. <i>PLoS ONE</i> , 2017 , 12, e0171165	15.5	9
53	Development of dopant-free conductive bioelastomers. <i>Scientific Reports</i> , 2016 , 6, 34451	4.9	25
52	Abdominal wall reconstruction by a regionally distinct biocomposite of extracellular matrix digest and a biodegradable elastomer. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, 748-614	4.4	21

51	High-Resolution Ultrasound-Switchable Fluorescence Imaging in Centimeter-Deep Tissue Phantoms with High Signal-To-Noise Ratio and High Sensitivity via Novel Contrast Agents. <i>PLoS ONE</i> , 2016 , 11, e0163963	3.7	16
50	Synthesis and characterization of conductive, biodegradable, elastomeric polyurethanes for biomedical applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 2305-14	5.4	24
49	New generation ICG-based contrast agents for ultrasound-switchable fluorescence imaging. <i>Scientific Reports</i> , 2016 , 6, 35942	4.9	19
48	Enhancing cell infiltration of electrospun fibrous scaffolds in tissue regeneration. <i>Bioactive Materials</i> , 2016 , 1, 56-64	16.7	151
47	Guanidinium based blend anion exchange membranes for direct methanol alkaline fuel cells (DMAFCs). <i>Journal of Power Sources</i> , 2015 , 300, 95-103	8.9	29
46	Improved properties of bone and cartilage tissue from 3D inkjet-bioprinted human mesenchymal stem cells by simultaneous deposition and photocrosslinking in PEG-GelMA. <i>Biotechnology Letters</i> , 2015 , 37, 2349-55	3	218
45	Triggerable Degradation of Polyurethanes for Tissue Engineering Applications. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 20377-88	9.5	42
44	Fabrication of elastomeric scaffolds with curvilinear fibrous structures for heart valve leaflet engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 3101-6	5.4	28
43	Establishing Early Functional Perfusion and Structure in Tissue Engineered Cardiac Constructs. <i>Critical Reviews in Biomedical Engineering</i> , 2015 , 43, 455-71	1.1	5
42	Tailoring material properties of cardiac matrix hydrogels to induce endothelial differentiation of human mesenchymal stem cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11053-61	9.5	43
41	An injectable extracellular matrix derived hydrogel for meniscus repair and regeneration. <i>Acta Biomaterialia</i> , 2015 , 16, 49-59	10.8	113
40	Electrospun biodegradable elastic polyurethane scaffolds with dipyridamole release for small diameter vascular grafts. <i>Acta Biomaterialia</i> , 2014 , 10, 4618-4628	10.8	90
39	Collagenase-labile polyurethane urea synthesis and processing into hollow fiber membranes. <i>Biomacromolecules</i> , 2014 , 15, 2924-32	6.9	11
38	Direct writing of bio-functional coatings for cardiovascular applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 4290-300	5.4	5
37	Development of Ultrasound-switchable Fluorescence Imaging Contrast Agents based on Thermosensitive Polymers and Nanoparticles. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014 , 20,	3.8	16
36	Synthesis of guanidinium-based anion exchange membranes and their stability assessment. <i>Polymers for Advanced Technologies</i> , 2014 , 25, 108-116	3.2	31
35	Nonthrombogenic, biodegradable elastomeric polyurethanes with variable sulfobetaine content. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 22796-806	9.5	54
34	The effect of polymer degradation time on functional outcomes of temporary elastic patch support in ischemic cardiomyopathy. <i>Biomaterials</i> , 2013 , 34, 7353-63	15.6	45

33	Non-invasive characterization of polyurethane-based tissue constructs in a rat abdominal repair model using high frequency ultrasound elasticity imaging. <i>Biomaterials</i> , 2013 , 34, 2701-9	15.6	36
32	Biodegradable elastic patch plasty ameliorates left ventricular adverse remodeling after ischemia-reperfusion injury: a preclinical study of a porous polyurethane material in a porcine model. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2013 , 146, 391-9.e1	1.5	33
31	Surface modification of a biodegradable magnesium alloy with phosphorylcholine (PC) and sulfobetaine (SB) functional macromolecules for reduced thrombogenicity and acute corrosion resistance. <i>Langmuir</i> , 2013 , 29, 8320-7	4	55
30	Synthesis, characterization, and paclitaxel release from a biodegradable, elastomeric, poly(ester urethane)urea bearing phosphorylcholine groups for reduced thrombogenicity. <i>Biomacromolecules</i> , 2012 , 13, 3686-94	6.9	49
29	Microstructural manipulation of electrospun scaffolds for specific bending stiffness for heart valve tissue engineering. <i>Acta Biomaterialia</i> , 2012 , 8, 4268-77	10.8	66
28	An elastomeric patch electrospun from a blended solution of dermal extracellular matrix and biodegradable polyurethane for rat abdominal wall repair. <i>Tissue Engineering - Part C: Methods</i> , 2012 , 18, 122-32	2.9	47
27	Biodegradable polyurethane ureas with variable polyester or polycarbonate soft segments: effects of crystallinity, molecular weight, and composition on mechanical properties. <i>Biomacromolecules</i> , 2011 , 12, 3265-74	6.9	148
26	Mechanical properties and in vivo behavior of a biodegradable synthetic polymer microfiber-extracellular matrix hydrogel biohybrid scaffold. <i>Biomaterials</i> , 2011 , 32, 3387-94	15.6	161
25	Rapid Engineered Small Diameter Vascular Grafts from Smooth Muscle Cells. <i>Cardiovascular Engineering and Technology</i> , 2011 , 2, 149-159	2.2	7
24	Elastomeric electrospun polyurethane scaffolds: the interrelationship between fabrication conditions, fiber topology, and mechanical properties. <i>Advanced Materials</i> , 2011 , 23, 106-11	24	68
23	In vivo performance of a phospholipid-coated bioerodable elastomeric graft for small-diameter vascular applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2011 , 96, 436-48	5.4	89
22	Spatial control of gene expression within a scaffold by localized inducer release. <i>Biomaterials</i> , 2011 , 32, 3062-71	15.6	17
21	In vivo assessment of a tissue-engineered vascular graft combining a biodegradable elastomeric scaffold and muscle-derived stem cells in a rat model. <i>Tissue Engineering - Part A</i> , 2010 , 16, 1215-23	3.9	122
20	Thermally responsive injectable hydrogel incorporating methacrylate-poly(lactide) for hydrolytic lability. <i>Biomacromolecules</i> , 2010 , 11, 1873-81	6.9	76
19	Morphological and mechanical characteristics of the reconstructed rat abdominal wall following use of a wet electrospun biodegradable polyurethane elastomer scaffold. <i>Biomaterials</i> , 2010 , 31, 3253-65	15.6	67
18	Tailoring the degradation kinetics of poly(ester carbonate urethane)urea thermoplastic elastomers for tissue engineering scaffolds. <i>Biomaterials</i> , 2010 , 31, 4249-58	15.6	145
17	Pericyte-based human tissue engineered vascular grafts. <i>Biomaterials</i> , 2010 , 31, 8235-44	15.6	120
16	A bilayered elastomeric scaffold for tissue engineering of small diameter vascular grafts. <i>Acta Biomaterialia</i> , 2010 , 6, 110-22	10.8	220

15	A small diameter, fibrous vascular conduit generated from a poly(ester urethane)urea and phospholipid polymer blend. <i>Biomaterials</i> , 2009 , 30, 2457-67	15.6	139
14	Evaluation of a biodegradable scaffold- and stem cell-based tissue-engineered vascular graft in rat and pig models. <i>FASEB Journal</i> , 2009 , 23, 418.2	0.9	
13	Generating elastic, biodegradable polyurethane/poly(lactide-co-glycolide) fibrous sheets with controlled antibiotic release via two-stream electrospinning. <i>Biomacromolecules</i> , 2008 , 9, 1200-7	6.9	97
12	Protein-reactive, thermoresponsive copolymers with high flexibility and biodegradability. <i>Biomacromolecules</i> , 2008 , 9, 1283-92	6.9	82
11	Collagen-coated polylactide microcarriers/chitosan hydrogel composite: injectable scaffold for cartilage regeneration. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 85, 628-37	5.4	69
10	Transient elastic support for vein grafts using a constricting microfibrillar polymer wrap. <i>Biomaterials</i> , 2008 , 29, 3213-20	15.6	39
9	Tissue-to-cellular level deformation coupling in cell micro-integrated elastomeric scaffolds. <i>Biomaterials</i> , 2008 , 29, 3228-36	15.6	69
8	Rings of Hydrogel Fabricated by a Micro-Transfer Technique. <i>Macromolecular Rapid Communications</i> , 2007 , 28, 567-571	4.8	10
7	Covalently crosslinked chitosan hydrogel: properties of in vitro degradation and chondrocyte encapsulation. <i>Acta Biomaterialia</i> , 2007 , 3, 23-31	10.8	189
6	Fabrication of cell microintegrated blood vessel constructs through electrohydrodynamic atomization. <i>Biomaterials</i> , 2007 , 28, 2738-46	15.6	173
5	Engineering Vein Grafts Using an External Electrospun Biodegradable Polymer Wrap to Gradually Impose Arterial Circumferential Wall Stress Over Time 2007 , 135		
4	Covalently crosslinked chitosan hydrogel formed at neutral pH and body temperature. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 79, 913-22	5.4	50
3	Collagen-coated polylactide microspheres as chondrocyte microcarriers. <i>Biomaterials</i> , 2005 , 26, 6305-13	15.6	144
2	Preparation of porous polylactide microspheres by emulsion-solvent evaporation based on solution induced phase separation. <i>Polymers for Advanced Technologies</i> , 2005 , 16, 622-627	3.2	62
1	Photografting of poly(hydroxyethyl acrylate) onto porous polyurethane scaffolds to improve their endothelial cell compatibility. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2003 , 14, 937-50	3.5	22