Zhengwei You

List of Publications by Citations

74 papers	2,292 citations	26 h-index	46 g-index
77 ext. papers	3,106 ext. citations	10.6 avg, IF	5.31 L-index

#	Paper	IF	Citations
74	A Highly Efficient Self-Healing Elastomer with Unprecedented Mechanical Properties. *Advanced Materials*, **2019**, 31, e1901402	24	236
73	Ionogel-based, highly stretchable, transparent, durable triboelectric nanogenerators for energy harvesting and motion sensing over a wide temperature range. *Nano Energy*, **2019**, 63, 103847	17.1	120
72	Highly efficient self-healable and dual responsive hydrogel-based deformable triboelectric nanogenerators for wearable electronics. *Journal of Materials Chemistry A*, **2019**, 7, 13948-13955	13	114
71	Hybrid small-diameter vascular grafts: Anti-expansion effect of electrospun poly ε-caprolactone on heparin-coated decellularized matrices. *Biomaterials*, **2016**, 76, 359-70	15.6	113
70	Mechanically and Electronically Robust Transparent Organohydrogel Fibers. *Advanced Materials*, **2020**, 32, e1906994	24	103
69	A functionalizable polyester with free hydroxyl groups and tunable physiochemical and biological properties. *Biomaterials*, **2010**, 31, 3129-38	15.6	98
68	Electrospun Nanofibers for Tissue Engineering with Drug Loading and Release. *Pharmaceutics*, **2019**, 11,	6.4	88
67	A Single Integrated 3D-Printing Process Customizes Elastic and Sustainable Triboelectric Nanogenerators for Wearable Electronics. *Advanced Functional Materials*, **2018**, 28, 1805108	15.6	87
66	Mechanically and biologically skin-like elastomers for bio-integrated electronics. *Nature Communications*, **2020**, 11, 1107	17.4	75
65	3D printing of biomimetic vasculature for tissue regeneration. *Materials Horizons*, **2019**, 6, 1197-1206	14.4	62
64	A general strategy of 3D printing thermosets for diverse applications. *Materials Horizons*, **2019**, 6, 394-404	14.4	60
63	Biomimetic Materials with Multiple Protective Functionalities. *Advanced Functional Materials*, **2019**, 29, 1901058	15.6	53
62	Poly(sebacoyl diglyceride) Cross-Linked by Dynamic Hydrogen Bonds: A Self-Healing and Functionalizable Thermoplastic Bioelastomer. *ACS Applied Materials & Interfaces*, **2016**, 8, 20591-9	9.5	50
61	Degradable and Fully Recyclable Dynamic Thermoset Elastomer for 3D-Printed Wearable Electronics. *Advanced Functional Materials*, **2021**, 31, 2009799	15.6	50
60	A biodegradable functional water-responsive shape memory polymer for biomedical applications. *Journal of Materials Chemistry B*, **2019**, 7, 123-132	7.3	45
59	Merging metal organic framework with hollow organosilica nanoparticles as a versatile nanoplatform for cancer theranostics. *Acta Biomaterialia*, **2019**, 86, 406-415	10.8	42
58	Characterization of human ethmoid sinus mucosa derived mesenchymal stem cells (hESMSCs) and the application of hESMSCs cell sheets in bone regeneration. *Biomaterials*, **2015**, 66, 67-82	15.6	39

57	A functional polyester carrying free hydroxyl groups promotes the mineralization of osteoblast and human mesenchymal stem cell extracellular matrix. *Acta Biomaterialia*, **2014**, 10, 2814-23	10.8	39
56	Elastic 3D-Printed Hybrid Polymeric Scaffold Improves Cardiac Remodeling after Myocardial Infarction. *Advanced Healthcare Materials*, **2019**, 8, e1900065	10.1	38
55	Strong, detachable, and self-healing dynamic crosslinked hot melt polyurethane adhesive. *Materials Chemistry Frontiers*, **2019**, 3, 1833-1839	7.8	38
54	Hybrid electrospun rapamycin-loaded small-diameter decellularized vascular grafts effectively inhibit intimal hyperplasia. *Acta Biomaterialia*, **2019**, 97, 321-332	10.8	37
53	Biofunctionalized chondrogenic shape-memory ternary scaffolds for efficient cell-free cartilage regeneration. *Acta Biomaterialia*, **2020**, 105, 97-110	10.8	36
52	A Versatile Synthetic Platform for a Wide Range of Functionalized Biomaterials. *Advanced Functional Materials*, **2012**, 22, 2812-2820	15.6	36
51	Fabrication of heterogeneous porous bilayered nanofibrous vascular grafts by two-step phase separation technique. *Acta Biomaterialia*, **2018**, 79, 168-181	10.8	34
50	Phosphorylated poly(sebacoyl diglyceride) - a phosphate functionalized biodegradable polymer for bone tissue engineering. *Journal of Materials Chemistry B*, **2016**, 4, 2090-2101	7.3	30
49	A functional polymer designed for bone tissue engineering. *Acta Biomaterialia*, **2012**, 8, 502-10	10.8	27
48	PGS Scaffolds Promote the In Vivo Survival and Directional Differentiation of Bone Marrow Mesenchymal Stem Cells Restoring the Morphology and Function of Wounded Rat Uterus. *Advanced Healthcare Materials*, **2019**, 8, e1801455	10.1	26
47	Highly Transparent, Stretchable, and Self-Healable Ionogel for Multifunctional Sensors, Triboelectric Nanogenerator, and Wearable Fibrous Electronics. *Advanced Fiber Materials*,1	10.9	25
46	In vitro osteogenic induction of bone marrow mesenchymal stem cells with a decellularized matrix derived from human adipose stem cells and in vivo implantation for bone regeneration. *Journal of Materials Chemistry B*, **2017**, 5, 2468-2482	7.3	23
45	Molecularly engineered metal-based bioactive soft materials - Neuroactive magnesium ion/polymer hybrids. *Acta Biomaterialia*, **2019**, 85, 310-319	10.8	23
44	A perfusable, multifunctional epicardial device improves cardiac function and tissue repair. *Nature Medicine*, **2021**, 27, 480-490	50.5	22
43	Sustained release of GDF5 from a designed coacervate attenuates disc degeneration in a rat model. *Acta Biomaterialia*, **2019**, 86, 300-311	10.8	22
42	Facile preparation of a controlled-release tubular scaffold for blood vessel implantation. *Journal of Colloid and Interface Science*, **2019**, 539, 351-360	9.3	20
41	Fine control of polyester properties via epoxide ROP using monomers carrying diverse functional groups. *Macromolecular Bioscience*, **2012**, 12, 822-9	5.5	19
40	Large-Grained Perovskite Films Enabled by One-Step Meniscus-Assisted Solution Printing of Cross-Aligned Conductive Nanowires for Biodegradable Flexible Solar Cells. *Advanced Energy Materials*, **2020**, 10, 2001185	21.8	19

39	Biomimetic Trachea Regeneration Using a Modular Ring Strategy Based on Poly(Sebacoyl Diglyceride)/Polycaprolactone for Segmental Trachea Defect Repair. *Advanced Functional Materials*, **2020**, 30, 2004276	15.6	19
38	A New Strategy of Discretionarily Reconfigurable Actuators Based on Self-Healing Elastomers for Diverse Soft Robots. *Advanced Functional Materials*, **2021**, 31, 2008328	15.6	19
37	Peptidoglycan-inspired autonomous ultrafast self-healing bio-friendly elastomers for bio-integrated electronics. *National Science Review*, **2021**, 8, nwaa154	10.8	18
36	Self-healing polyurethane-elastomer with mechanical tunability for multiple biomedical applications in vivo. *Nature Communications*, **2021**, 12, 4395	17.4	17
35	Highly compact nanochannel thin films with exceptional thermal conductivity and water pumping for efficient solar steam generation. *Journal of Materials Chemistry A*, **2020**, 8, 13927-13934	13	16
34	4-Axis printing microfibrous tubular scaffold and tracheal cartilage application. *Science China Materials*, **2019**, 62, 1910-1920	7.1	15
33	Tumor-targeted biodegradable multifunctional nanoparticles for cancer theranostics. *Chemical Engineering Journal*, **2019**, 378, 122171	14.7	15
32	A biocompatible, metal-free catalyst and its application in microwave-assisted synthesis of functional polyesters. *Polymer Chemistry*, **2012**, 3, 384-389	4.9	15
31	Polyester with Pendent Acetylcholine-Mimicking Functionalities Promotes Neurite Growth. *ACS Applied Materials & Interfaces*, **2016**, 8, 9590-9	9.5	15
30	Nanofibrous vascular scaffold prepared from miscible polymer blend with heparin/stromal cell-derived factor-1 alpha for enhancing anticoagulation and endothelialization. *Colloids and Surfaces B: Biointerfaces*, **2019**, 181, 963-972	6	14
29	A Biocompatible, Biodegradable, and Functionalizable Copolyester and Its Application in Water-Responsive Shape Memory Scaffold. *ACS Biomaterials Science and Engineering*, **2019**, 5, 1668-1676	5.5	14
28	A Dynamically Hybrid Crosslinked Elastomer for Room-Temperature Recyclable Flexible Electronic Devices. *Advanced Functional Materials*,2106281	15.6	14
27	Biodegradable Mesoporous Silica Nanocarrier Bearing Angiogenic QK Peptide and Dexamethasone for Accelerating Angiogenesis in Bone Regeneration. *ACS Biomaterials Science and Engineering*, **2019**, 5, 6766-6778	5.5	13
26	3D printing preview for stereo-lithography based on photopolymerization kinetic models. *Bioactive Materials*, **2020**, 5, 798-807	16.7	11
25	Bilayered Scaffold Prepared from a Kartogenin-Loaded Hydrogel and BMP-2-Derived Peptide-Loaded Porous Nanofibrous Scaffold for Osteochondral Defect Repair. *ACS Biomaterials Science and Engineering*, **2019**, 5, 4564-4573	5.5	11
24	A poly(glycerol sebacate) based photo/thermo dual curable biodegradable and biocompatible polymer for biomedical applications. *Journal of Biomaterials Science, Polymer Edition*, **2017**, 28, 1728-1739	3.5	11
23	Bioactive Elastic Scaffolds Loaded with Neural Stem Cells Promote Rapid Spinal Cord Regeneration. *ACS Biomaterials Science and Engineering*, **2020**, 6, 6331-6343	5.5	10
22	CO2-based poly (propylene carbonate) with various carbonate linkage content for reactive hot-melt polyurethane adhesives. *International Journal of Adhesion and Adhesives*, **2020**, 96, 102456	3.4	10

21	Poly (fumaroyl bioxirane) maleate: A potential functional scaffold for bone regeneration. *Materials Science and Engineering C*, **2017**, 76, 249-259	8.3	9
20	Self-healing materials enable free-standing seamless large-scale 3D printing. *Science China Materials*, **2021**, 64, 1791-1800	7.1	8
19	Biodegradable Elastomers and Gels for Elastic Electronics.. *Advanced Science*, **2022**, e2105146	13.6	7
18	Effect of Bifunctional Defensin 2-Modified Scaffold on Bone Defect Reconstruction. *ACS Omega*, **2020**, 5, 4302-4312	3.9	6
17	Poly(1,3-propylene sebacate) and Poly(sebacoyl diglyceride): A Pair of Potential Polymers for the Proliferation and Differentiation of Retinal Progenitor Cells. *Macromolecular Bioscience*, **2016**, 16, 1334-47	5.5	6
16	Thermoplastic Photoheating Polymer Enables 3D-Printed Self-Healing Light-Propelled Smart Devices. *Advanced Functional Materials*, **2021**, 31, 2009568	15.6	6
15	Supertough spontaneously self-healing polymer based on septuple dynamic bonds integrated in one chemical group. *Science China Chemistry*, **2022**, 65, 363-372	7.9	6
14	Tissue-engineered mitral valve chordae tendineae: Biomechanical and biological characterization of decellularized porcine chordae. *Journal of the Mechanical Behavior of Biomedical Materials*, **2016**, 56, 205-217	4.1	5
13	Simple Solvent-Free Strategy for Synthesizing Covalent Adaptable Networks from Commodity Vinyl Monomers. *Macromolecules*, **2021**, 54, 4081-4088	5.5	5
12	AgBr/diatomite for the efficient visible-light-driven photocatalytic degradation of Rhodamine B. *Journal of Nanoparticle Research*, **2018**, 20, 1	2.3	4
11	Self-Extinguishing Resin Transfer Molding Composites Using Non-Fire-Retardant Epoxy Resin. *Materials*, **2018**, 11,	3.5	4
10	Coupling metal organic frameworks with molybdenum disulfide nanoflakes for targeted cancer theranostics. *Biomaterials Science*, **2021**, 9, 3306-3318	7.4	3
9	Bacterial cellulose nanofiber reinforced poly(glycerol-sebacate) biomimetic matrix for 3D cell culture. *Cellulose*, **2021**, 28, 8483-8492	5.5	3
8	Dynamic Oxime-Urethane Bonds, a Versatile Unit of High Performance Self-healing Polymers for Diverse Applications. *Chinese Journal of Polymer Science (English Edition)*, **2021**, 39, 1281-1291	3.5	3
7	A novel biodegradable external stent regulates vein graft remodeling via the Hippo-YAP and mTOR signaling pathways. *Biomaterials*, **2020**, 258, 120254	15.6	2
6	A fluorine-rich phenolic polyurethane elastomer with excellent self-healability and reprocessability and its applications for wearable electronics. *Science China Materials*,1	7.1	2
5	Effects of the different-sized external stents on vein graft intimal hyperplasia and inflammation. *Annals of Translational Medicine*, **2020**, 8, 102	3.2	1
4	Wearable Electronics: A Single Integrated 3D-Printing Process Customizes Elastic and Sustainable Triboelectric Nanogenerators for Wearable Electronics (Adv. Funct. Mater. 46/2018). *Advanced Functional Materials*, **2018**, 28, 1870331	15.6	1

3	Transparent, stretchable and anti-freezing hybrid double-network organohydrogels. *Science China Materials*,1	7.1	1
2	Hot-Melt Adhesive Based on Dynamic Oxime□Carbamate Bonds. *Industrial & Engineering Chemistry Research*, **2021**, 60, 6925-6931	3.9	0
1	Endometrium Injury: PGS Scaffolds Promote the In Vivo Survival and Directional Differentiation of Bone Marrow Mesenchymal Stem Cells Restoring the Morphology and Function of Wounded Rat Uterus (Adv. Healthcare Mater. 5/2019). *Advanced Healthcare Materials*, **2019**, 8, 1970018	10.1	