

Zhengwei You

List of Publications by Year in descending order

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76
papers

4,100
citations

109321

35
h-index

118850

62
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77
all docs

77
docs citations

77
times ranked

4555
citing authors

#	ARTICLE	IF	CITATIONS
1	A Highly Efficient Self-Healing Elastomer with Unprecedented Mechanical Properties. <i>Advanced Materials</i> , 2019, 31, e1901402.	21.0	413
2	Mechanically and Electronically Robust Transparent Organohydrogel Fibers. <i>Advanced Materials</i> , 2020, 32, e1906994.	21.0	207
3	Ionogel-based, highly stretchable, transparent, durable triboelectric nanogenerators for energy harvesting and motion sensing over a wide temperature range. <i>Nano Energy</i> , 2019, 63, 103847.	16.0	188
4	Highly efficient self-healable and dual responsive hydrogel-based deformable triboelectric nanogenerators for wearable electronics. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13948-13955.	10.3	163
5	Mechanically and biologically skin-like elastomers for bio-integrated electronics. <i>Nature Communications</i> , 2020, 11, 1107.	12.8	162
6	Electrospun Nanofibers for Tissue Engineering with Drug Loading and Release. <i>Pharmaceutics</i> , 2019, 11, 182.	4.5	151
7	Hybrid small-diameter vascular grafts: Anti-expansion effect of electrospun poly ϵ -caprolactone on heparin-coated decellularized matrices. <i>Biomaterials</i> , 2016, 76, 359-370.	11.4	135
8	A Single Integrated 3D-Printing Process Customizes Elastic and Sustainable Triboelectric Nanogenerators for Wearable Electronics. <i>Advanced Functional Materials</i> , 2018, 28, 1805108.	14.9	126
9	A functionalizable polyester with free hydroxyl groups and tunable physiochemical and biological properties. <i>Biomaterials</i> , 2010, 31, 3129-3138.	11.4	112
10	Degradable and Fully Recyclable Dynamic Thermoset Elastomer for 3D-Printed Wearable Electronics. <i>Advanced Functional Materials</i> , 2021, 31, 2009799.	14.9	109
11	Self-healing polyurethane-elastomer with mechanical tunability for multiple biomedical applications in vivo. <i>Nature Communications</i> , 2021, 12, 4395.	12.8	93
12	A general strategy of 3D printing thermosets for diverse applications. <i>Materials Horizons</i> , 2019, 6, 394-404.	12.2	89
13	3D printing of biomimetic vasculature for tissue regeneration. <i>Materials Horizons</i> , 2019, 6, 1197-1206.	12.2	88
14	A Dynamically Hybrid Crosslinked Elastomer for Room-Temperature Recyclable Flexible Electronic Devices. <i>Advanced Functional Materials</i> , 2021, 31, 2106281.	14.9	87
15	Biomimetic Materials with Multiple Protective Functionalities. <i>Advanced Functional Materials</i> , 2019, 29, 1901058.	14.9	85
16	Strong, detachable, and self-healing dynamic crosslinked hot melt polyurethane adhesive. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1833-1839.	5.9	84
17	Highly Transparent, Stretchable, and Self-Healable Ionogel for Multifunctional Sensors, Triboelectric Nanogenerator, and Wearable Fibrous Electronics. <i>Advanced Fiber Materials</i> , 2022, 4, 98-107.	16.1	83
18	Elastic 3D-Printed Hybrid Polymeric Scaffold Improves Cardiac Remodeling after Myocardial Infarction. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900065.	7.6	73

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19	Poly(sebacoyl diglyceride) Cross-Linked by Dynamic Hydrogen Bonds: A Self-Healing and Functionalizable Thermoplastic Bioelastomer. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 20591-20599.	8.0	70
20	A biodegradable functional water-responsive shape memory polymer for biomedical applications. <i>Journal of Materials Chemistry B</i> , 2019, 7, 123-132.	5.8	70
21	Biofunctionalized chondrogenic shape-memory ternary scaffolds for efficient cell-free cartilage regeneration. <i>Acta Biomaterialia</i> , 2020, 105, 97-110.	8.3	65
22	A perfusable, multifunctional epicardial device improves cardiac function and tissue repair. <i>Nature Medicine</i> , 2021, 27, 480-490.	30.7	61
23	Hybrid electrospun rapamycin-loaded small-diameter decellularized vascular grafts effectively inhibit intimal hyperplasia. <i>Acta Biomaterialia</i> , 2019, 97, 321-332.	8.3	60
24	Merging metal organic framework with hollow organosilica nanoparticles as a versatile nanoplatform for cancer theranostics. <i>Acta Biomaterialia</i> , 2019, 86, 406-415.	8.3	59
25	Characterization of human ethmoid sinus mucosa derived mesenchymal stem cells (hESMSCs) and the application of hESMSCs cell sheets in bone regeneration. <i>Biomaterials</i> , 2015, 66, 67-82.	11.4	56
26	Peptidoglycan-inspired autonomous ultrafast self-healing bio-friendly elastomers for bio-integrated electronics. <i>National Science Review</i> , 2021, 8, nwaa154.	9.5	52
27	A New Strategy of Discretionarily Reconfigurable Actuators Based on Self-Healing Elastomers for Diverse Soft Robots. <i>Advanced Functional Materials</i> , 2021, 31, 2008328.	14.9	51
28	Fabrication of heterogeneous porous bilayered nanofibrous vascular grafts by two-step phase separation technique. <i>Acta Biomaterialia</i> , 2018, 79, 168-181.	8.3	50
29	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. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801455.	7.6	50
30	Biodegradable Elastomers and Gels for Elastic Electronics. <i>Advanced Science</i> , 2022, 9, e2105146.	11.2	45
31	Sustained release of GDF5 from a designed coacervate attenuates disc degeneration in a rat model. <i>Acta Biomaterialia</i> , 2019, 86, 300-311.	8.3	42
32	A Versatile Synthetic Platform for a Wide Range of Functionalized Biomaterials. <i>Advanced Functional Materials</i> , 2012, 22, 2812-2820.	14.9	41
33	A functional polyester carrying free hydroxyl groups promotes the mineralization of osteoblast and human mesenchymal stem cell extracellular matrix. <i>Acta Biomaterialia</i> , 2014, 10, 2814-2823.	8.3	41
34	Biomimetic Trachea Regeneration Using a Modular Ring Strategy Based on Poly(Sebacoyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td 2020, 30, 2004276.	14.9	41
35	Phosphorylated poly(sebacoyl diglyceride) â€“ a phosphate functionalized biodegradable polymer for bone tissue engineering. <i>Journal of Materials Chemistry B</i> , 2016, 4, 2090-2101.	5.8	38
36	Dynamic Oxime-Urethane Bonds, a Versatile Unit of High Performance Self-healing Polymers for Diverse Applications. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021, 39, 1281-1291.	3.8	34

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37	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. <i>Journal of Materials Chemistry B</i> , 2017, 5, 2468-2482.	5.8	32
38	Molecularly engineered metal-based bioactive soft materials “ Neuroactive magnesium ion/polymer hybrids. <i>Acta Biomaterialia</i> , 2019, 85, 310-319.	8.3	32
39	Large-Grained Perovskite Films Enabled by One-Step Meniscus-Assisted Solution Printing of Cross-Aligned Conductive Nanowires for Biodegradable Flexible Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 2001185.	19.5	31
40	A functional polymer designed for bone tissue engineering. <i>Acta Biomaterialia</i> , 2012, 8, 502-510.	8.3	30
41	Biodegradable Mesoporous Silica Nanocarrier Bearing Angiogenic QK Peptide and Dexamethasone for Accelerating Angiogenesis in Bone Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 6766-6778.	5.2	28
42	Facile preparation of a controlled-release tubular scaffold for blood vessel implantation. <i>Journal of Colloid and Interface Science</i> , 2019, 539, 351-360.	9.4	28
43	Highly compact nanochannel thin films with exceptional thermal conductivity and water pumping for efficient solar steam generation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13927-13934.	10.3	28
44	Supertough spontaneously self-healing polymer based on septuple dynamic bonds integrated in one chemical group. <i>Science China Chemistry</i> , 2022, 65, 363-372.	8.2	28
45	CO ₂ -based poly (propylene carbonate) with various carbonate linkage content for reactive hot-melt polyurethane adhesives. <i>International Journal of Adhesion and Adhesives</i> , 2020, 96, 102456.	2.9	27
46	4-Axis printing microfibrillar tubular scaffold and tracheal cartilage application. <i>Science China Materials</i> , 2019, 62, 1910-1920.	6.3	26
47	A Biocompatible, Biodegradable, and Functionalizable Copolyester and Its Application in Water-Responsive Shape Memory Scaffold. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 1668-1676.	5.2	26
48	Nanofibrous vascular scaffold prepared from miscible polymer blend with heparin/stromal cell-derived factor-1 alpha for enhancing anticoagulation and endothelialization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 181, 963-972.	5.0	25
49	3D printing preview for stereo-lithography based on photopolymerization kinetic models. <i>Bioactive Materials</i> , 2020, 5, 798-807.	15.6	25
50	Bioactive Elastic Scaffolds Loaded with Neural Stem Cells Promote Rapid Spinal Cord Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 6331-6343.	5.2	24
51	Fine Control of Polyester Properties via Epoxide ROP Using Monomers Carrying Diverse Functional Groups. <i>Macromolecular Bioscience</i> , 2012, 12, 822-829.	4.1	22
52	Bilayered Scaffold Prepared from a Kartogenin-Loaded Hydrogel and BMP-2-Derived Peptide-Loaded Porous Nanofibrous Scaffold for Osteochondral Defect Repair. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 4564-4573.	5.2	22
53	Tumor-targeted biodegradable multifunctional nanoparticles for cancer theranostics. <i>Chemical Engineering Journal</i> , 2019, 378, 122171.	12.7	22
54	Thermoplastic Photoheating Polymer Enables 3D-Printed Self-Healing Light-Propelled Smart Devices. <i>Advanced Functional Materials</i> , 2021, 31, 2009568.	14.9	22

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55	Hot-Melt Adhesive Based on Dynamic Oxime-Carbamate Bonds. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 6925-6931.	3.7	21
56	Self-healing materials enable free-standing seamless large-scale 3D printing. <i>Science China Materials</i> , 2021, 64, 1791-1800.	6.3	20
57	A biocompatible, metal-free catalyst and its application in microwave-assisted synthesis of functional polyesters. <i>Polymer Chemistry</i> , 2012, 3, 384-389.	3.9	18
58	Polyester with Pendent Acetylcholine-Mimicking Functionalities Promotes Neurite Growth. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9590-9599.	8.0	18
59	Transparent, stretchable and anti-freezing hybrid double-network organohydrogels. <i>Science China Materials</i> , 2022, 65, 2207-2216.	6.3	18
60	A poly(glycerol sebacate) based photo/thermo dual curable biodegradable and biocompatible polymer for biomedical applications. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2017, 28, 1728-1739.	3.5	16
61	Cooperative Chemical Coupling and Physical Lubrication Effects Construct Highly Dynamic Ionic Covalent Adaptable Network for High-Performance Wearable Electronics. <i>CCS Chemistry</i> , 2023, 5, 1096-1107.	7.8	16
62	Simple Solvent-Free Strategy for Synthesizing Covalent Adaptable Networks from Commodity Vinyl Monomers. <i>Macromolecules</i> , 2021, 54, 4081-4088.	4.8	14
63	A novel biodegradable external stent regulates vein graft remodeling via the Hippo-YAP and mTOR signaling pathways. <i>Biomaterials</i> , 2020, 258, 120254.	11.4	12
64	Coupling metal organic frameworks with molybdenum disulfide nanoflakes for targeted cancer theranostics. <i>Biomaterials Science</i> , 2021, 9, 3306-3318.	5.4	12
65	Poly (fumaroyl bioxirane) maleate: A potential functional scaffold for bone regeneration. <i>Materials Science and Engineering C</i> , 2017, 76, 249-259.	7.3	10
66	Effect of Bifunctional \hat{I}^2 Defensin 2-Modified Scaffold on Bone Defect Reconstruction. <i>ACS Omega</i> , 2020, 5, 4302-4312.	3.5	10
67	A fluorine-rich phenolic polyurethane elastomer with excellent self-healability and reprocessability and its applications for wearable electronics. <i>Science China Materials</i> , 2022, 65, 2553-2564.	6.3	10
68	Effects of the different-sized external stents on vein graft intimal hyperplasia and inflammation. <i>Annals of Translational Medicine</i> , 2020, 8, 102-102.	1.7	9
69	Bacterial cellulose nanofiber reinforced poly(glycerol-sebacate) biomimetic matrix for 3D cell culture. <i>Cellulose</i> , 2021, 28, 8483-8492.	4.9	9
70	Poly(1,3-propylene sebacate) and Poly(sebacoyl diglyceride): A Pair of Potential Polymers for the Proliferation and Differentiation of Retinal Progenitor Cells. <i>Macromolecular Bioscience</i> , 2016, 16, 1334-1347.	4.1	8
71	Self-Extinguishing Resin Transfer Molding Composites Using Non-Fire-Retardant Epoxy Resin. <i>Materials</i> , 2018, 11, 2554.	2.9	7
72	AgBr/diatomite for the efficient visible-light-driven photocatalytic degradation of Rhodamine B. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	1.9	6

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73	Tissue-engineered mitral valve chordae tendineae: Biomechanical and biological characterization of decellularized porcine chordae. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 56, 205-217.	3.1	5
74	Three-dimensional-printed polycaprolactone scaffolds with interconnected hollow-pipe structures for enhanced bone regeneration. <i>International Journal of Energy Production and Management</i> , 2022, 9, .	3.7	4
75	Wearable Electronics: A Single Integrated 3D-Printing Process Customizes Elastic and Sustainable Triboelectric Nanogenerators for Wearable Electronics (<i>Adv. Funct. Mater.</i> 46/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870331.	14.9	2
76	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 (<i>Adv. Healthcare Mater.</i> 5/2019). <i>Advanced Healthcare Materials</i> , 2019, 8, 1970018.	7.6	0