

Zhengwei You

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.

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 | Biodegradable Elastomers and Gels for Elastic Electronics.. <i>Advanced Science</i> , 2022 , e2105146 | 13.6 | 7 |
| 73 | Supertough spontaneously self-healing polymer based on septuple dynamic bonds integrated in one chemical group. <i>Science China Chemistry</i> , 2022 , 65, 363-372 | 7.9 | 6 |
| 72 | A perfusable, multifunctional epicardial device improves cardiac function and tissue repair. <i>Nature Medicine</i> , 2021 , 27, 480-490 | 50.5 | 22 |
| 71 | Self-healing materials enable free-standing seamless large-scale 3D printing. <i>Science China Materials</i> , 2021 , 64, 1791-1800 | 7.1 | 8 |
| 70 | Simple Solvent-Free Strategy for Synthesizing Covalent Adaptable Networks from Commodity Vinyl Monomers. <i>Macromolecules</i> , 2021 , 54, 4081-4088 | 5.5 | 5 |
| 69 | Hot-Melt Adhesive Based on Dynamic Oxime-Carbamate Bonds. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 6925-6931 | 3.9 | 0 |
| 68 | Self-healing polyurethane-elastomer with mechanical tunability for multiple biomedical applications in vivo. <i>Nature Communications</i> , 2021 , 12, 4395 | 17.4 | 17 |
| 67 | Peptidoglycan-inspired autonomous ultrafast self-healing bio-friendly elastomers for bio-integrated electronics. <i>National Science Review</i> , 2021 , 8, nwa154 | 10.8 | 18 |
| 66 | Degradable and Fully Recyclable Dynamic Thermoset Elastomer for 3D-Printed Wearable Electronics. <i>Advanced Functional Materials</i> , 2021 , 31, 2009799 | 15.6 | 50 |
| 65 | Coupling metal organic frameworks with molybdenum disulfide nanoflakes for targeted cancer theranostics. <i>Biomaterials Science</i> , 2021 , 9, 3306-3318 | 7.4 | 3 |
| 64 | Thermoplastic Photoheating Polymer Enables 3D-Printed Self-Healing Light-Propelled Smart Devices. <i>Advanced Functional Materials</i> , 2021 , 31, 2009568 | 15.6 | 6 |
| 63 | Bacterial cellulose nanofiber reinforced poly(glycerol-sebacate) biomimetic matrix for 3D cell culture. <i>Cellulose</i> , 2021 , 28, 8483-8492 | 5.5 | 3 |
| 62 | 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 | 3.5 | 3 |
| 61 | A New Strategy of Discretionarily Reconfigurable Actuators Based on Self-Healing Elastomers for Diverse Soft Robots. <i>Advanced Functional Materials</i> , 2021 , 31, 2008328 | 15.6 | 19 |
| 60 | 3D printing preview for stereo-lithography based on photopolymerization kinetic models. <i>Bioactive Materials</i> , 2020 , 5, 798-807 | 16.7 | 11 |
| 59 | Effects of the different-sized external stents on vein graft intimal hyperplasia and inflammation. <i>Annals of Translational Medicine</i> , 2020 , 8, 102 | 3.2 | 1 |
| 58 | 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 | 13 | 16 |

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| 57 | Effect of Bifunctional [Defensin 2-Modified Scaffold on Bone Defect Reconstruction. <i>ACS Omega</i> , 2020 , 5, 4302-4312 | 3.9 | 6 |
| 56 | Mechanically and biologically skin-like elastomers for bio-integrated electronics. <i>Nature Communications</i> , 2020 , 11, 1107 | 17.4 | 75 |
| 55 | Biofunctionalized chondrogenic shape-memory ternary scaffolds for efficient cell-free cartilage regeneration. <i>Acta Biomaterialia</i> , 2020 , 105, 97-110 | 10.8 | 36 |
| 54 | Mechanically and Electronically Robust Transparent Organohydrogel Fibers. <i>Advanced Materials</i> , 2020 , 32, e1906994 | 24 | 103 |
| 53 | Bioactive Elastic Scaffolds Loaded with Neural Stem Cells Promote Rapid Spinal Cord Regeneration. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 6331-6343 | 5.5 | 10 |
| 52 | A novel biodegradable external stent regulates vein graft remodeling via the Hippo-YAP and mTOR signaling pathways. <i>Biomaterials</i> , 2020 , 258, 120254 | 15.6 | 2 |
| 51 | 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 | 21.8 | 19 |
| 50 | Biomimetic Trachea Regeneration Using a Modular Ring Strategy Based on Poly(Sebacoyl Diglyceride)/Polycaprolactone for Segmental Trachea Defect Repair. <i>Advanced Functional Materials</i> , 2020 , 30, 2004276 | 15.6 | 19 |
| 49 | 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 | 3.4 | 10 |
| 48 | 4-Axis printing microfibrinous tubular scaffold and tracheal cartilage application. <i>Science China Materials</i> , 2019 , 62, 1910-1920 | 7.1 | 15 |
| 47 | Hybrid electrospun rapamycin-loaded small-diameter decellularized vascular grafts effectively inhibit intimal hyperplasia. <i>Acta Biomaterialia</i> , 2019 , 97, 321-332 | 10.8 | 37 |
| 46 | A biodegradable functional water-responsive shape memory polymer for biomedical applications. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 123-132 | 7.3 | 45 |
| 45 | 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 | 17.1 | 120 |
| 44 | Biomimetic Materials with Multiple Protective Functionalities. <i>Advanced Functional Materials</i> , 2019 , 29, 1901058 | 15.6 | 53 |
| 43 | Electrospun Nanofibers for Tissue Engineering with Drug Loading and Release. <i>Pharmaceutics</i> , 2019 , 11, | 6.4 | 88 |
| 42 | 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). <i>Advanced Healthcare Materials</i> , 2019 , 8, 1970018 | 10.1 | |
| 41 | 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 | 13 | 114 |
| 40 | A Highly Efficient Self-Healing Elastomer with Unprecedented Mechanical Properties. <i>Advanced Materials</i> , 2019 , 31, e1901402 | 24 | 236 |

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| 39 | Elastic 3D-Printed Hybrid Polymeric Scaffold Improves Cardiac Remodeling after Myocardial Infarction. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1900065 | 10.1 | 38 |
| 38 | 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 | 10.1 | 26 |
| 37 | 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 | 5.5 | 11 |
| 36 | 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 | 6 | 14 |
| 35 | Strong, detachable, and self-healing dynamic crosslinked hot melt polyurethane adhesive. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 1833-1839 | 7.8 | 38 |
| 34 | Tumor-targeted biodegradable multifunctional nanoparticles for cancer theranostics. <i>Chemical Engineering Journal</i> , 2019 , 378, 122171 | 14.7 | 15 |
| 33 | 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 | 5.5 | 13 |
| 32 | 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 | 5.5 | 14 |
| 31 | 3D printing of biomimetic vasculature for tissue regeneration. <i>Materials Horizons</i> , 2019 , 6, 1197-1206 | 14.4 | 62 |
| 30 | Facile preparation of a controlled-release tubular scaffold for blood vessel implantation. <i>Journal of Colloid and Interface Science</i> , 2019 , 539, 351-360 | 9.3 | 20 |
| 29 | Molecularly engineered metal-based bioactive soft materials - Neuroactive magnesium ion/polymer hybrids. <i>Acta Biomaterialia</i> , 2019 , 85, 310-319 | 10.8 | 23 |
| 28 | A general strategy of 3D printing thermosets for diverse applications. <i>Materials Horizons</i> , 2019 , 6, 394-404 | 14.4 | 60 |
| 27 | Sustained release of GDF5 from a designed coacervate attenuates disc degeneration in a rat model. <i>Acta Biomaterialia</i> , 2019 , 86, 300-311 | 10.8 | 22 |
| 26 | Merging metal organic framework with hollow organosilica nanoparticles as a versatile nanoplatform for cancer theranostics. <i>Acta Biomaterialia</i> , 2019 , 86, 406-415 | 10.8 | 42 |
| 25 | AgBr/diatomite for the efficient visible-light-driven photocatalytic degradation of Rhodamine B. <i>Journal of Nanoparticle Research</i> , 2018 , 20, 1 | 2.3 | 4 |
| 24 | Fabrication of heterogeneous porous bilayered nanofibrous vascular grafts by two-step phase separation technique. <i>Acta Biomaterialia</i> , 2018 , 79, 168-181 | 10.8 | 34 |
| 23 | Self-Extinguishing Resin Transfer Molding Composites Using Non-Fire-Retardant Epoxy Resin. <i>Materials</i> , 2018 , 11, | 3.5 | 4 |
| 22 | Wearable Electronics: A Single Integrated 3D-Printing Process Customizes Elastic and Sustainable Triboelectric Nanogenerators for Wearable Electronics (Adv. Funct. Mater. 46/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870331 | 15.6 | 1 |

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| 21 | A Single Integrated 3D-Printing Process Customizes Elastic and Sustainable Triboelectric Nanogenerators for Wearable Electronics. <i>Advanced Functional Materials</i> , 2018 , 28, 1805-108 | 15.6 | 87 |
| 20 | 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 | 7.3 | 23 |
| 19 | Poly (fumaroyl bioxirane) maleate: A potential functional scaffold for bone regeneration. <i>Materials Science and Engineering C</i> , 2017 , 76, 249-259 | 8.3 | 9 |
| 18 | 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 | 11 |
| 17 | Poly(sebacoyl diglyceride) Cross-Linked by Dynamic Hydrogen Bonds: A Self-Healing and Functionalizable Thermoplastic Bioelastomer. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20591-9 | 9.5 | 50 |
| 16 | Phosphorylated poly(sebacoyl diglyceride) - a phosphate functionalized biodegradable polymer for bone tissue engineering. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 2090-2101 | 7.3 | 30 |
| 15 | 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 | 4.1 | 5 |
| 14 | Hybrid small-diameter vascular grafts: Anti-expansion effect of electrospun poly ϵ -caprolactone on heparin-coated decellularized matrices. <i>Biomaterials</i> , 2016 , 76, 359-70 | 15.6 | 113 |
| 13 | 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, 1334-47 | 5.5 | 6 |
| 12 | Polyester with Pendent Acetylcholine-Mimicking Functionalities Promotes Neurite Growth. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 9590-9 | 9.5 | 15 |
| 11 | 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 | 15.6 | 39 |
| 10 | 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, 2814-23 | 10.8 | 39 |
| 9 | A biocompatible, metal-free catalyst and its application in microwave-assisted synthesis of functional polyesters. <i>Polymer Chemistry</i> , 2012 , 3, 384-389 | 4.9 | 15 |
| 8 | Fine control of polyester properties via epoxide ROP using monomers carrying diverse functional groups. <i>Macromolecular Bioscience</i> , 2012 , 12, 822-9 | 5.5 | 19 |
| 7 | A Versatile Synthetic Platform for a Wide Range of Functionalized Biomaterials. <i>Advanced Functional Materials</i> , 2012 , 22, 2812-2820 | 15.6 | 36 |
| 6 | A functional polymer designed for bone tissue engineering. <i>Acta Biomaterialia</i> , 2012 , 8, 502-10 | 10.8 | 27 |
| 5 | A functionalizable polyester with free hydroxyl groups and tunable physiochemical and biological properties. <i>Biomaterials</i> , 2010 , 31, 3129-38 | 15.6 | 98 |
| 4 | Highly Transparent, Stretchable, and Self-Healable Ionogel for Multifunctional Sensors, Triboelectric Nanogenerator, and Wearable Fibrous Electronics. <i>Advanced Fiber Materials</i> , 1 | 10.9 | 25 |

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| 3 | A Dynamically Hybrid Crosslinked Elastomer for Room-Temperature Recyclable Flexible Electronic Devices. <i>Advanced Functional Materials</i> ,2106281 | 15.6 | 14 |
| 2 | Transparent, stretchable and anti-freezing hybrid double-network organohydrogels. <i>Science China Materials</i> ,1 | 7.1 | 1 |
| 1 | A fluorine-rich phenolic polyurethane elastomer with excellent self-healability and reprocessability and its applications for wearable electronics. <i>Science China Materials</i> ,1 | 7.1 | 2 |