

# Jie Song

## List of Publications by Year in descending order

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64  
papers

3,437  
citations

159525

30  
h-index

138417

58  
g-index

65  
all docs

65  
docs citations

65  
times ranked

5253  
citing authors

#	ARTICLE	IF	CITATIONS
1	Anti-Periprosthetic Infection Strategies: From Implant Surface Topographical Engineering to Smart Drug-Releasing Coatings. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 20921-20937.	4.0	35
2	Modulating Mechanical and Shape-Memory Properties while Mitigating Degradation-Induced Inflammation of Polylactides by Pendant Aspirin Incorporation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 22271-22281.	4.0	10
3	Independent and Synergistic Modulations of Viscoelasticity and Stiffness of Dynamically Cross-Linked Cell-Encapsulating ClickGels by Covalently Tethered Polymer Brushes. <i>Biomacromolecules</i> , 2021, 22, 3408-3415.	2.6	2
4	Surface-Grafted Zwitterionic Polymers Improve the Efficacy of a Single Antibiotic Injection in Suppressing <i>Staphylococcus aureus</i> Periprosthetic Infections. <i>ACS Applied Bio Materials</i> , 2020, 3, 5896-5904.	2.3	8
5	Significant Suppression of <i>Staphylococcus aureus</i> Colonization on Intramedullary Ti6Al4V Implants Surface-Grafted with Vancomycin-Bearing Polymer Brushes. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 28641-28647.	4.0	27
6	Multifunctional scaffolds for facile implantation, spontaneous fixation, and accelerated long bone regeneration in rodents. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	41
7	Micrococcal-Nuclease-Triggered On-Demand Release of Vancomycin from Intramedullary Implant Coating Eradicates <i>Staphylococcus aureus</i> Infection in Mouse Femoral Canals. <i>ACS Central Science</i> , 2019, 5, 1929-1936.	5.3	35
8	3D-Printed Biomaterials for Guided Tissue Regeneration. <i>Small Methods</i> , 2018, 2, 1700306.	4.6	23
9	Anionic and Zwitterionic Residues Modulate Stiffness of Photo-Cross-Linked Hydrogels and Cellular Behavior of Encapsulated Chondrocytes. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 1843-1851.	2.6	7
10	Modulating Viscoelasticity, Stiffness, and Degradation of Synthetic Cellular Niches via Stoichiometric Tuning of Covalent versus Dynamic Noncovalent Cross-Linking. <i>ACS Central Science</i> , 2018, 4, 971-981.	5.3	33
11	Shape Recovery with Concomitant Mechanical Strengthening of Amphiphilic Shape Memory Polymers in Warm Water. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 4450-4456.	4.0	31
12	Age-dependent Changes in the Articular Cartilage and Subchondral Bone of C57BL/6 Mice after Surgical Destabilization of Medial Meniscus. <i>Scientific Reports</i> , 2017, 7, 42294.	1.6	60
13	Facile Stem Cell Delivery to Bone Grafts Enabled by Smart Shape Recovery and Stiffening of Degradable Synthetic Periosteal Membranes. <i>Advanced Functional Materials</i> , 2017, 27, 1604784.	7.8	35
14	Impaired osteogenesis of T1DM bone marrow-derived stromal cells and periosteum-derived cells and their differential in-vitro responses to growth factor rescue. <i>Stem Cell Research and Therapy</i> , 2017, 8, 65.	2.4	23
15	Skeletal Characterization of Smurf2-Deficient Mice and In Vitro Analysis of Smurf2-Deficient Chondrocytes. <i>PLoS ONE</i> , 2016, 11, e0148088.	1.1	18
16	Well-controlled ATRP of $\alpha$ -(2-azidoethoxy)ethyl methacrylate for high-density click functionalization of polymers and metallic substrates. <i>Journal of Polymer Science Part A</i> , 2016, 54, 1268-1277.	2.5	5
17	Experimental and numerical measurements of adhesion energies between PHEMA and PGLYMA with hydroxyapatite crystal. <i>Bioinspiration and Biomimetics</i> , 2015, 10, 046011.	1.5	3
18	Templated Repair of Long Bone Defects in Rats with Bioactive Spiral-Wrapped Electrospun Amphiphilic Polymer/Hydroxyapatite Scaffolds. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 4890-4901.	4.0	53

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19	Biodegradable PEG-Based Amphiphilic Block Copolymers for Tissue Engineering Applications. ACS Biomaterials Science and Engineering, 2015, 1, 463-480.	2.6	139
20	Poly(lactic acid (PLA)-based shape-memory materials for biomedical applications. , 2015, , 197-217.		25
21	Rapid Prototyping Amphiphilic Polymer/Hydroxyapatite Composite Scaffolds with Hydration-Induced Self-Fixation Behavior. Tissue Engineering - Part C: Methods, 2015, 21, 229-241.	1.1	40
22	Shape-Memory Performance of Thermoplastic Amphiphilic Triblock Copolymer Poly( $\epsilon$ -caprolactone)- $\beta$ -lactide-co-( $\epsilon$ -caprolactone)- $\beta$ -lactide (PELA)/Hydroxyapatite Composites. Macromolecular Chemistry and Physics, 2014, 215, 2482-2490.	1.1	34
23	Vancomycin-bearing Synthetic Bone Graft Delivers rhBMP-2 and Promotes Healing of Critical Rat Femoral Segmental Defects. Clinical Orthopaedics and Related Research, 2014, 472, 4015-4023.	0.7	14
24	Renaissance of aliphatic polycarbonates: New techniques and biomedical applications. Journal of Applied Polymer Science, 2014, 131, .	1.3	87
25	Modification of Ti6Al4V Substrates with Well-defined Zwitterionic Polysulfobetaine Brushes for Improved Surface Mineralization. ACS Applied Materials & Interfaces, 2014, 6, 7141-7152.	4.0	53
26	A comparative study of zwitterionic ligands-mediated mineralization and the potential of mineralized zwitterionic matrices for bone tissue engineering. Journal of Materials Chemistry B, 2014, 2, 7524-7533.	2.9	14
27	Three-dimensionally presented anti-fouling zwitterionic motifs sequester and enable high-efficiency delivery of therapeutic proteins. Acta Biomaterialia, 2014, 10, 4296-4303.	4.1	20
28	Bioorthogonally Cross-Linked Hydrogel Network with Precisely Controlled Disintegration Time over a Broad Range. Journal of the American Chemical Society, 2014, 136, 4105-4108.	6.6	48
29	Amphiphilic degradable polymers for immobilization and sustained delivery of sphingosine 1-phosphate. Acta Biomaterialia, 2014, 10, 3079-3090.	4.1	9
30	pHEMA-nHA Encapsulation and Delivery of Vancomycin and rhBMP-2 Enhances its Role as a Bone Graft Substitute. Clinical Orthopaedics and Related Research, 2013, 471, 2540-2547.	0.7	14
31	An amphiphilic degradable polymer/hydroxyapatite composite with enhanced handling characteristics promotes osteogenic gene expression in bone marrow stromal cells. Acta Biomaterialia, 2013, 9, 8354-8364.	4.1	59
32	Sulfobetaine as a zwitterionic mediator for 3D hydroxyapatite mineralization. Biomaterials, 2013, 34, 2442-2454.	5.7	36
33	Stem Cell Labeling using Polyethylenimine Conjugated ( $\text{NaYbF}_4$ : $\text{Tm}^{3+}$ )/ $\text{CaF}_2$ Upconversion Nanoparticles. Theranostics, 2013, 3, 249-257.	4.6	82
34	A Sulfated Nanofibrous Mesh Supporting the Osteogenic Differentiation of Periosteum-Derived Cells. Journal of Biomaterials and Tissue Engineering, 2013, 3, 486-493.	0.0	5
35	( $\text{NaYbF}_4$ : $\text{Tm}^{3+}$ )/ $\text{CaF}_2$ Core/Shell Nanoparticles with Efficient Near-Infrared to Near-Infrared Upconversion for High-Contrast Deep Tissue Bioimaging. ACS Nano, 2012, 6, 8280-8287.	7.3	647
36	Elastomeric Osteoconductive Synthetic Scaffolds with Acquired Osteoinductivity Expedite the Repair of Critical Femoral Defects in Rats. Tissue Engineering - Part A, 2011, 17, 503-511.	1.6	30

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37	A Versatile Monomer for Preparing Well-Defined Functional Polycarbonates and Poly(ester-carbonates). <i>Macromolecules</i> , 2011, 44, 2660-2667.	2.2	84
38	Evolutionary Screening of Collagen-like Peptides That Nucleate Hydroxyapatite Crystals. <i>Langmuir</i> , 2011, 27, 7620-7628.	1.6	75
39	Polyethylene/polyurethane blends for improved paint adhesion. <i>Progress in Organic Coatings</i> , 2011, 72, 492-497.	1.9	27
40	Chemically modified cellulose fibrous meshes for use as tissue engineering scaffolds. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 5067-5070.	1.0	39
41	Cytocompatible Poly(ethylene glycol)-polycarbonate Hydrogels Cross-Linked by Copper-Free, Strain-Promoted Click Chemistry. <i>Chemistry - an Asian Journal</i> , 2011, 6, 2730-2737.	1.7	87
42	Flow accelerates adhesion between functional polyethylene and polyurethane. <i>AICHE Journal</i> , 2011, 57, 3496-3506.	1.8	31
43	Surface mineralization of Ti6Al4V substrates with calcium apatites for the retention and local delivery of recombinant human bone morphogenetic protein-2. <i>Acta Biomaterialia</i> , 2011, 7, 3488-3495.	4.1	21
44	In vivo tissue responses to thermal-responsive shape memory polymer nanocomposites. <i>Biomaterials</i> , 2011, 32, 985-991.	5.7	86
45	High performance shape memory polymer networks based on rigid nanoparticle cores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7652-7657.	3.3	122
46	Elastomeric high-mineral content hydrogel-hydroxyapatite composites for orthopedic applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 89A, 1098-1107.	2.1	55
47	Sustained and localized in vitro release of BMP-2, RANKL, and tetracycline from Flexbone, an elastomeric osteoconductive bone substitute. <i>Journal of Orthopaedic Research</i> , 2009, 27, 1306-1311.	1.2	29
48	Effects of poly(2-hydroxyethyl methacrylate) and poly(vinyl-pyrrolidone) hydrogel implants on myopic and normal chick sclera. <i>Experimental Eye Research</i> , 2009, 88, 445-457.	1.2	19
49	Nanomechanical analysis of bone tissue engineering scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 81A, 611-623.	2.1	19
50	Functional Hydrogel-Biomineral Composites Inspired by Natural Bone. <i>ACS Symposium Series</i> , 2005, , 96-106.	0.5	1
51	Mineralization of Synthetic Polymer Scaffolds: A Bottom-Up Approach for the Development of Artificial Bone. <i>Journal of the American Chemical Society</i> , 2005, 127, 3366-3372.	6.6	203
52	Functional glass slides for in vitro evaluation of interactions between osteosarcoma TE85 cells and mineral-binding ligands. <i>Journal of Materials Chemistry</i> , 2004, 14, 2643.	6.7	7
53	Functional Self-Assembling Bolaamphiphilic Polydiacetylenes as Colorimetric Sensor Scaffolds. <i>Journal of the American Chemical Society</i> , 2004, 126, 8459-8465.	6.6	104
54	Functional lipid microstructures immobilized on a gold electrode for voltammetric biosensing of cholera toxin. <i>Analyst</i> , The, 2004, 129, 309.	1.7	29

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55	Functional Amphiphilic and Bolaamphiphilic Poly(diacetylene) Assemblies with Controlled Optical and Morphological Properties. ACS Symposium Series, 2004, , 96-109.	0.5	0
56	Preparation of pHEMAâ€“CP composites with high interfacial adhesion via template-driven mineralization. Journal of the European Ceramic Society, 2003, 23, 2905-2919.	2.8	38
57	A New Approach to Mineralization of Biocompatible Hydrogel Scaffolds:Â An Efficient Process toward 3-Dimensional Bonelike Composites. Journal of the American Chemical Society, 2003, 125, 1236-1243.	6.6	245
58	Morphological manipulation of bolaamphiphilic polydiacetylene assemblies by controlled lipid doping. Chemistry and Physics of Lipids, 2002, 114, 203-214.	1.5	23
59	Title is missing!. Biomedical Microdevices, 2002, 4, 213-221.	1.4	73
60	Modulating Artificial Membrane Morphology:Â pH-Induced Chromatic Transition and Nanostructural Transformation of a Bolaamphiphilic Conjugated Polymer from Blue Helical Ribbons to Red Nanofibers. Journal of the American Chemical Society, 2001, 123, 3205-3213.	6.6	164
61	Homochiral 4-hydroxy-5-hexenoic acids and their derivatives and homologues from carbohydrates. Tetrahedron: Asymmetry, 2001, 12, 387-391.	1.8	24
62	Synthesis, Conformational Analysis, and Phase Characterization of a Versatile Self-Assembling Monoglucosyl Diacylglycerol Analog. Journal of the American Chemical Society, 1999, 121, 1851-1861.	6.6	19
63	Thermal Responsive Shape Memory Polymers for Biomedical Applications. , 0, , .		7
64	Scalable Functional Bone Substitutes: Strategic Integration of Key Structural Elements of Bone in Synthetic Biomaterials. , 0, , .		1