

Wenwen Huang

List of Publications by Year in Descending Order

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Version: 2024-04-25

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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.

42
papers

1,795
citations

24
h-index

42
g-index

43
ext. papers

2,169
ext. citations

10
avg, IF

4.91
L-index

#	Paper	IF	Citations
42	Biomimetic Joint Paint for Efficient Cartilage Repair by Simultaneously Regulating Cartilage Degeneration and Regeneration in Pigs. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 54801-54816	9.5	1
41	Stimuli-responsive composite biopolymer actuators with selective spatial deformation behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 14602-14608	11.5	29
40	Smart Material Hydrogel Transfer Devices Fabricated with Stimuli-Responsive Silk-Elastin-Like Proteins. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2000266	10.1	15
39	Rapid printing of bio-inspired 3D tissue constructs for skin regeneration. <i>Biomaterials</i> , 2020 , 258, 120287-120297	15.6	48
38	3D Printing of Silk Protein Structures by Aqueous Solvent-Directed Molecular Assembly. <i>Macromolecular Bioscience</i> , 2020 , 20, e1900191	5.5	22
37	3D freeform printing of silk fibroin. <i>Acta Biomaterialia</i> , 2018 , 71, 379-387	10.8	51
36	Recombinant Spidroins Fully Replicate Primary Mechanical Properties of Natural Spider Silk. <i>Biomacromolecules</i> , 2018 , 19, 3853-3860	6.9	98
35	Unraveling the Molecular Mechanisms of Thermo-responsive Properties of Silk-Elastin-Like Proteins by Integrating Multiscale Modeling and Experiment. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 3727-3734	7.3	14
34	Recursive Directional Ligation Approach for Cloning Recombinant Spider Silks. <i>Methods in Molecular Biology</i> , 2018 , 1777, 181-192	1.4	4
33	Fabrication and Characterization of Recombinant Silk-Elastin-Like-Protein (SELP) Fiber. <i>Macromolecular Bioscience</i> , 2018 , 18, e1800265	5.5	18
32	Silkworm silk-based materials and devices generated using bio-nanotechnology. <i>Chemical Society Reviews</i> , 2018 , 47, 6486-6504	58.5	206
31	Silk-ionomer and silk-tropoelastin hydrogels as charged three-dimensional culture platforms for the regulation of hMSC response. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 2549-2564	4.4	6
30	Computational smart polymer design based on elastin protein mutability. <i>Biomaterials</i> , 2017 , 127, 49-60	15.6	39
29	Synergistic Integration of Experimental and Simulation Approaches for the de Novo Design of Silk-Based Materials. <i>Accounts of Chemical Research</i> , 2017 , 50, 866-876	24.3	34
28	Tunable crystallization, degradation, and self-assembly of recombinant protein block copolymers. <i>Polymer</i> , 2017 , 117, 107-116	3.9	11
27	Modeling and Experiment Reveal Structure and Nanomechanics across the Inverse Temperature Transition in Silk-Elastin-like Protein Polymers. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 2889-2899	5.5	16
26	Design and function of biomimetic multilayer water purification membranes. <i>Science Advances</i> , 2017 , 3, e1601939	14.3	161

25	Multiscale design and synthesis of biomimetic gradient protein/biosilica composites for interfacial tissue engineering. <i>Biomaterials</i> , 2017 , 145, 44-55	15.6	40
24	Effect of Terminal Modification on the Molecular Assembly and Mechanical Properties of Protein-Based Block Copolymers. <i>Macromolecular Bioscience</i> , 2017 , 17, 1700095	5.5	9
23	Polymorphic regenerated silk fibers assembled through bioinspired spinning. <i>Nature Communications</i> , 2017 , 8, 1387	17.4	158
22	Aqueous-Based Coaxial Electrospinning of Genetically Engineered Silk Elastin Core-Shell Nanofibers. <i>Materials</i> , 2016 , 9,	3.5	19
21	Design of Multistimuli Responsive Hydrogels Using Integrated Modeling and Genetically Engineered Silk-Elastin-Like Proteins. <i>Advanced Functional Materials</i> , 2016 , 26, 4113-4123	15.6	57
20	Chemically Functionalized Silk for Human Bone Marrow-Derived Mesenchymal Stem Cells Proliferation and Differentiation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 14406-13	9.5	28
19	Lyophilized Silk Sponges: A Versatile Biomaterial Platform for Soft Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 260-270	5.5	120
18	Silk-elastin-like protein biomaterials for the controlled delivery of therapeutics. <i>Expert Opinion on Drug Delivery</i> , 2015 , 12, 779-91	8	78
17	Control of silicification by genetically engineered fusion proteins: silk-silica binding peptides. <i>Acta Biomaterialia</i> , 2015 , 15, 173-80	10.8	26
16	Predictive modelling-based design and experiments for synthesis and spinning of bioinspired silk fibres. <i>Nature Communications</i> , 2015 , 6, 6892	17.4	86
15	Physical and biological regulation of neuron regenerative growth and network formation on recombinant dragline silks. <i>Biomaterials</i> , 2015 , 48, 137-146	15.6	36
14	Effect of sequence features on assembly of spider silk block copolymers. <i>Journal of Structural Biology</i> , 2014 , 186, 412-9	3.4	23
13	Influence of Water on Protein Transitions: Thermal Analysis. <i>Macromolecules</i> , 2014 , 47, 8098-8106	5.5	15
12	High Throughput Screening of Dynamic Silk-Elastin-Like Protein Biomaterials. <i>Advanced Functional Materials</i> , 2014 , 24, 4303-4310	15.6	49
11	Influence of Water on Protein Transitions: Morphology and Secondary Structure. <i>Macromolecules</i> , 2014 , 47, 8107-8114	5.5	27
10	Influence of Solution Parameters on Phase Diagram of Recombinant Spider Silk-Like Block Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2014 , 215, 1230-1238	2.6	6
9	Tuning chemical and physical cross-links in silk electrogels for morphological analysis and mechanical reinforcement. <i>Biomacromolecules</i> , 2013 , 14, 2629-35	6.9	48
8	Charge-Tunable Silk-Tropoelastin Protein Alloys That Control Neuron Cell Responses. <i>Advanced Functional Materials</i> , 2013 , 23, 3875-3884	15.6	48

- 7 Thermal analysis of spider silk inspired di-block copolymers in the glass transition region by TMDSC. *Journal of Thermal Analysis and Calorimetry*, **2012**, 109, 1193-1201 4.1 9
- 6 PVDF-based Polymer Blend Films for Fuel Cell Membranes. *Materials Research Society Symposia Proceedings*, **2012**, 1384, 1 1
- 5 Morphology and Crystallinity Control of Novel Spider Silk-like Block Copolymer. *Materials Research Society Symposia Proceedings*, **2012**, 1417, 19
- 4 Thin film assembly of spider silk-like block copolymers. *Langmuir*, **2011**, 27, 1000-8 4 36
- 3 Heat Capacity of Spider Silk-like Block Copolymers. *Macromolecules*, **2011**, 44, 5299-5309 5.5 43
- 2 Nanocomposites of poly(vinylidene fluoride) with multiwalled carbon nanotubes. *Journal of Applied Polymer Science*, **2010**, 115, 3238-3248 2.9 58
- 1 Deaf and Hard of Hearing Undergraduate Interns Investigate Smart Polymeric Materials. *Materials Research Society Symposia Proceedings*, **2009**, 1233, 1