Wenwen Huang

List of Publications by Citations

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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	Silkworm silk-based materials and devices generated using bio-nanotechnology. *Chemical Society Reviews*, **2018**, 47, 6486-6504	58.5	206
41	Design and function of biomimetic multilayer water purification membranes. *Science Advances*, **2017**, 3, e1601939	14.3	161
40	Polymorphic regenerated silk fibers assembled through bioinspired spinning. *Nature Communications*, **2017**, 8, 1387	17.4	158
39	Lyophilized Silk Sponges: A Versatile Biomaterial Platform for Soft Tissue Engineering. *ACS Biomaterials Science and Engineering*, **2015**, 1, 260-270	5.5	120
38	Recombinant Spidroins Fully Replicate Primary Mechanical Properties of Natural Spider Silk. *Biomacromolecules*, **2018**, 19, 3853-3860	6.9	98
37	Predictive modelling-based design and experiments for synthesis and spinning of bioinspired silk fibres. *Nature Communications*, **2015**, 6, 6892	17.4	86
36	Silk-elastin-like protein biomaterials for the controlled delivery of therapeutics. *Expert Opinion on Drug Delivery*, **2015**, 12, 779-91	8	78
35	Nanocomposites of poly(vinylidene fluoride) with multiwalled carbon nanotubes. *Journal of Applied Polymer Science*, **2010**, 115, 3238-3248	2.9	58
34	Design of Multistimuli Responsive Hydrogels Using Integrated Modeling and Genetically Engineered Silk-Elastin-Like Proteins. *Advanced Functional Materials*, **2016**, 26, 4113-4123	15.6	57
33	3D freeform printing of silk fibroin. *Acta Biomaterialia*, **2018**, 71, 379-387	10.8	51
32	High Throughput Screening of Dynamic Silk-Elastin-Like Protein Biomaterials. *Advanced Functional Materials*, **2014**, 24, 4303-4310	15.6	49
31	Tuning chemical and physical cross-links in silk electrogels for morphological analysis and mechanical reinforcement. *Biomacromolecules*, **2013**, 14, 2629-35	6.9	48
30	Charge-Tunable Silk-Tropoelastin Protein Alloys That Control Neuron Cell Responses. *Advanced Functional Materials*, **2013**, 23, 3875-3884	15.6	48
29	Rapid printing of bio-inspired 3D tissue constructs for skin regeneration. *Biomaterials*, **2020**, 258, 120287	15.6	48
28	Heat Capacity of Spider Silk-like Block Copolymers. *Macromolecules*, **2011**, 44, 5299-5309	5.5	43
27	Multiscale design and synthesis of biomimetic gradient protein/biosilica composites for interfacial tissue engineering. *Biomaterials*, **2017**, 145, 44-55	15.6	40
26	Computational smart polymer design based on elastin protein mutability. *Biomaterials*, **2017**, 127, 49-60	15.6	39

25	Physical and biological regulation of neuron regenerative growth and network formation on recombinant dragline silks. *Biomaterials*, **2015**, 48, 137-146	15.6	36
24	Thin film assembly of spider silk-like block copolymers. *Langmuir*, **2011**, 27, 1000-8	4	36
23	Synergistic Integration of Experimental and Simulation Approaches for the de Novo Design of Silk-Based Materials. *Accounts of Chemical Research*, **2017**, 50, 866-876	24.3	34
22	Stimuli-responsive composite biopolymer actuators with selective spatial deformation behavior. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 14602-14608	11.5	29
21	Chemically Functionalized Silk for Human Bone Marrow-Derived Mesenchymal Stem Cells Proliferation and Differentiation. *ACS Applied Materials & Interfaces*, **2016**, 8, 14406-13	9.5	28
20	Influence of Water on Protein Transitions: Morphology and Secondary Structure. *Macromolecules*, **2014**, 47, 8107-8114	5.5	27
19	Control of silicification by genetically engineered fusion proteins: silk-silica binding peptides. *Acta Biomaterialia*, **2015**, 15, 173-80	10.8	26
18	Effect of sequence features on assembly of spider silk block copolymers. *Journal of Structural Biology*, **2014**, 186, 412-9	3.4	23
17	3D Printing of Silk Protein Structures by Aqueous Solvent-Directed Molecular Assembly. *Macromolecular Bioscience*, **2020**, 20, e1900191	5.5	22
16	Aqueous-Based Coaxial Electrospinning of Genetically Engineered Silk Elastin Core-Shell Nanofibers. *Materials*, **2016**, 9,	3.5	19
15	Fabrication and Characterization of Recombinant Silk-Elastin-Like-Protein (SELP) Fiber. *Macromolecular Bioscience*, **2018**, 18, e1800265	5.5	18
14	Modeling and Experiment Reveal Structure and Nanomechanics across the Inverse Temperature Transition in Silk-Elastin-like Protein Polymers. *ACS Biomaterials Science and Engineering*, **2017**, 3, 2889-2899	5.5	16
13	Smart Material Hydrogel Transfer Devices Fabricated with Stimuli-Responsive Silk-Elastin-Like Proteins. *Advanced Healthcare Materials*, **2020**, 9, e2000266	10.1	15
12	Influence of Water on Protein Transitions: Thermal Analysis. *Macromolecules*, **2014**, 47, 8098-8106	5.5	15
11	Unraveling the Molecular Mechanisms of Thermo-responsive Properties of Silk-Elastin-Like Proteins by Integrating Multiscale Modeling and Experiment. *Journal of Materials Chemistry B*, **2018**, 6, 3727-3734	7.3	14
10	Tunable crystallization, degradation, and self-assembly of recombinant protein block copolymers. *Polymer*, **2017**, 117, 107-116	3.9	11
9	Effect of Terminal Modification on the Molecular Assembly and Mechanical Properties of Protein-Based Block Copolymers. *Macromolecular Bioscience*, **2017**, 17, 1700095	5.5	9
8	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

7	Silk-ionomer and silk-tropoelastin hydrogels as charged three-dimensional culture platforms for the regulation of hMSC response. *Journal of Tissue Engineering and Regenerative Medicine*, **2017**, 11, 2549-2564	4.4	6
6	Influence of Solution Parameters on Phase Diagram of Recombinant Spider Silk-Like Block Copolymers. *Macromolecular Chemistry and Physics*, **2014**, 215, 1230-1238	2.6	6
5	Recursive Directional Ligation Approach for Cloning Recombinant Spider Silks. *Methods in Molecular Biology*, **2018**, 1777, 181-192	1.4	4
4	PVDF-based Polymer Blend Films for Fuel Cell Membranes. *Materials Research Society Symposia Proceedings*, **2012**, 1384, 1		1
3	Biomimetic Joint Paint for Efficient Cartilage Repair by Simultaneously Regulating Cartilage Degeneration and Regeneration in Pigs. *ACS Applied Materials & Interfaces*, **2021**, 13, 54801-54816	9.5	1
2	Deaf and Hard of Hearing Undergraduate Interns Investigate Smart Polymeric Materials. *Materials Research Society Symposia Proceedings*, **2009**, 1233, 1		
1	Morphology and Crystallinity Control of Novel Spider Silk-like Block Copolymer. *Materials Research Society Symposia Proceedings*, **2012**, 1417, 19		