

# Jinrong Yao

## 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.

72  
papers

1,674  
citations

23  
h-index

37  
g-index

75  
ext. papers

2,000  
ext. citations

6  
avg, IF

4.85  
L-index

#	Paper	IF	Citations
72	Enhancement of the Mechanical Properties of Poly(lactic acid)/Epoxidized Soybean Oil Blends by the Addition of 3-Aminophenylboronic Acid. <i>ACS Omega</i> , <b>2022</b> , 7, 17841-17848	3.9	
71	Crystallization, Mechanical, and Antimicrobial Properties of Diallyl Cyanuric Derivative-Grafted Polypropylene. <i>ACS Omega</i> , <b>2021</b> , 6, 12794-12800	3.9	1
70	Poly(vinyl alcohol) Hydrogels with Integrated Toughness, Conductivity, and Freezing Tolerance Based on Ionic Liquid/Water Binary Solvent Systems. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 29008-29020	9.5	12
69	Silk microfibrillar mats with long-lasting antimicrobial function. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 63, 203-209	9.1	6
68	Silk-based hybrid microfibrillar mats as guided bone regeneration membranes. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 2025-2032	7.3	12
67	Silk-based pressure/temperature sensing bimodal ionotronic skin with stimulus discriminability and low temperature workability. <i>Chemical Engineering Journal</i> , <b>2021</b> , 422, 130091	14.7	12
66	Water-Resistant Zein-Based Adhesives. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 7668-7679	8.3	15
65	Intelligent Silk Fibroin Ionotronic Skin for Temperature Sensing. <i>Advanced Materials Technologies</i> , <b>2020</b> , 5, 2000430	6.8	23
64	Colorless Silk/Copper Sulfide Hybrid Fiber and Fabric with Spontaneous Heating Property under Sunlight. <i>Biomacromolecules</i> , <b>2020</b> , 21, 1596-1603	6.9	10
63	Direct Observation of Native Silk Fibroin Conformation in Silk Gland of Silkworm. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 1874-1879	5.5	9
62	Artificial ligament made from silk protein/Laponite hybrid fibers. <i>Acta Biomaterialia</i> , <b>2020</b> , 106, 102-113	10.8	22
61	Effect of stress on the molecular structure and mechanical properties of supercontracted spider dragline silks. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 168-176	7.3	6
60	Preparation and characterization of antibacterial poly(lactic acid) nanocomposites with N-halamine modified silica. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 155, 1468-1477	7.9	16
59	Structural Changes in Spider Dragline Silk after Repeated Supercontraction-Stretching Processes. <i>Biomacromolecules</i> , <b>2020</b> , 21, 5306-5314	6.9	3
58	Synthesis of novel multi-hydroxyl -halamine precursors based on barbituric acid and their applications in antibacterial poly(ethylene terephthalate) (PET) materials. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 8695-8701	7.3	9
57	Enhanced compatibility between poly(lactic acid) and poly (butylene adipate-co-terephthalate) by incorporation of N-halamine epoxy precursor. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 165, 460-471	7.9	8
56	Facile Dissolution of Zein Using a Common Solvent Dimethyl Sulfoxide. <i>Langmuir</i> , <b>2019</b> , 35, 6640-6649	4	9

55	Morphology and Properties of a New Biodegradable Material Prepared from Zein and Poly(butylene adipate-terephthalate) by Reactive Blending. <i>ACS Omega</i> , <b>2019</b> , 4, 5609-5616	3.9	11
54	Pea Protein/Gold Nanocluster/Indocyanine Green Ternary Hybrid for Near-Infrared Fluorescence/Computed Tomography Dual-Modal Imaging and Synergistic Photodynamic/Photothermal Therapy. <i>ACS Biomaterials Science and Engineering</i> , <b>2019</b> , 5, 4799-4807	5.5	16
53	Size-controllable dual drug-loaded silk fibroin nanospheres through a facile formation process. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 1179-1186	7.3	17
52	Silk Fibroin Acts as a Self-Emulsifier to Prepare Hierarchically Porous Silk Fibroin Scaffolds through Emulsion-Ice Dual Templates. <i>ACS Omega</i> , <b>2018</b> , 3, 3396-3405	3.9	8
51	Plant Protein-Directed Synthesis of Luminescent Gold Nanocluster Hybrids for Tumor Imaging. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 83-90	9.5	49
50	Environmentally responsive composite films fabricated using silk nanofibrils and silver nanowires. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 12940-12947	7.1	10
49	A Robust, Resilient, and Multi-Functional Soy Protein-Based Hydrogel. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 13730-13738	8.3	13
48	Soy protein-based polyethylenimine hydrogel and its high selectivity for copper ion removal in wastewater treatment. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 4163-4171	13	113
47	A facile fabrication of silk/MoS hybrids for Photothermal therapy. <i>Materials Science and Engineering C</i> , <b>2017</b> , 79, 123-129	8.3	23
46	Precise correlation of macroscopic mechanical properties and microscopic structures of animal silks-using <i>Antheraea pernyi</i> silkworm silk as an example. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 6042-6048	7.3	16
45	Exploration of the nature of a unique natural polymer-based thermosensitive hydrogel. <i>Soft Matter</i> , <b>2016</b> , 12, 492-9	3.6	10
44	One-step synthesis of soy protein/graphene nanocomposites and their application in photothermal therapy. <i>Materials Science and Engineering C</i> , <b>2016</b> , 68, 798-804	8.3	16
43	Robust Protein Hydrogels from Silkworm Silk. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 1500-1506	8.9	53
42	Enhanced Fibroblast Cellular Ligamentization Process to Polyethylene Terephthalate Artificial Ligament by Silk Fibroin Coating. <i>Artificial Organs</i> , <b>2016</b> , 40, 385-93	2.6	17
41	Exploration of the tight structural-mechanical relationship in mulberry and non-mulberry silkworm silks. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 4337-4347	7.3	39
40	Formation of different gold nanostructures by silk nanofibrils. <i>Materials Science and Engineering C</i> , <b>2016</b> , 64, 376-382	8.3	12
39	Soy protein-directed one-pot synthesis of gold nanomaterials and their functional conductive devices. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 3643-3650	7.3	21
38	Tamoxifen-loaded silk fibroin electrospun fibers. <i>Materials Letters</i> , <b>2016</b> , 178, 31-34	3.3	17

37	Insights into Silk Formation Process: Correlation of Mechanical Properties and Structural Evolution during Artificial Spinning of Silk Fibers. <i>ACS Biomaterials Science and Engineering</i> , <b>2016</b> , 2, 1992-2000	5.5	46
36	Selective chemical modification of soy protein for a tough and applicable plant protein-based material. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 5241-5248	7.3	17
35	Tough protein-carbon nanotube hybrid fibers comparable to natural spider silks. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 3940-3947	7.3	50
34	Strong Collagen Hydrogels by Oxidized Dextran Modification. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 1318-1324	8.3	62
33	Enhancement of osseointegration of polyethylene terephthalate artificial ligament by coating of silk fibroin and depositing of hydroxyapatite. <i>International Journal of Nanomedicine</i> , <b>2014</b> , 9, 4569-80	7.3	24
32	The robust hydrogel hierarchically assembled from a pH sensitive peptide amphiphile based on silk fibroin. <i>Biomacromolecules</i> , <b>2013</b> , 14, 2733-8	6.9	48
31	Facile fabrication of the porous three-dimensional regenerated silk fibroin scaffolds. <i>Materials Science and Engineering C</i> , <b>2013</b> , 33, 3522-9	8.3	27
30	Fabrication of superhydrophobic surfaces via CaCO <sub>3</sub> mineralization mediated by poly(glutamic acid). <i>Journal of Solid State Chemistry</i> , <b>2013</b> , 199, 338-343	3.3	4
29	Hydroxyapatite/regenerated silk fibroin scaffold-enhanced osteoinductivity and osteoconductivity of bone marrow-derived mesenchymal stromal cells. <i>Biotechnology Letters</i> , <b>2013</b> , 35, 657-61	3	35
28	Characterization and assembly investigation of a dodecapeptide hydrolyzed from the crystalline domain of Bombyx mori silk fibroin. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 3005	4.9	8
27	Robust soy protein films obtained by slight chemical modification of polypeptide chains. <i>Polymer Chemistry</i> , <b>2013</b> , 4, 5425	4.9	42
26	Fabrication of an alternative regenerated silk fibroin nanofiber and carbonated hydroxyapatite multilayered composite via layer-by-layer. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 150-155	4.3	22
25	An antimicrobial film by embedding in situ synthesized silver nanoparticles in soy protein isolate. <i>Materials Letters</i> , <b>2013</b> , 95, 142-144	3.3	46
24	Silk fibroin immobilization on poly(ethylene terephthalate) films: comparison of two surface modification methods and their effect on mesenchymal stem cells culture. <i>Materials Science and Engineering C</i> , <b>2013</b> , 33, 1409-16	8.3	22
23	Silver sulfadiazine-immobilized celluloses as biocompatible polymeric biocides. <i>Journal of Bioactive and Compatible Polymers</i> , <b>2013</b> , 28, 398-410	2	29
22	Amphiphilic polypeptides as a bifunctional template in the mineralization of calcium carbonate at the air/water interface. <i>Macromolecular Bioscience</i> , <b>2013</b> , 13, 650-9	5.5	8
21	Quasi one-dimensional assembly of gold nanoparticles templated by a pH-sensitive peptide amphiphile from silk fibroin. <i>RSC Advances</i> , <b>2012</b> , 2, 5599	3.7	7
20	Synthesis of poly (Ebenzyl-L-glutamate) with well-defined terminal structures and its block polypeptides with alanine, leucine and phenylalanine. <i>Polymer International</i> , <b>2012</b> , 61, 774-779	3.3	9

19	PREPARATION AND ANTIMICROBIAL PROPERTIES OF PVA/TANNIN BLEND FILMS. <i>Acta Polymerica Sinica</i> , <b>2012</b> , 012, 125-130		2
18	Crystallization of calcium carbonate on chitosan substrates in the presence of regenerated silk fibroin. <i>Langmuir</i> , <b>2011</b> , 27, 2804-10	4	31
17	Preparation of 3D fibroin/chitosan blend porous scaffold for tissue engineering via a simplified method. <i>Macromolecular Bioscience</i> , <b>2011</b> , 11, 419-26	5.5	18
16	Self-assembly of a peptide amphiphile based on hydrolysed Bombyx mori silk fibroin. <i>Chemical Communications</i> , <b>2011</b> , 47, 10296-8	5.8	38
15	RECENT PROGRESS AND APPLICATION OF NON-BIOACTIVE PROTEINS IN MATERIAL FIELDS. <i>Acta Polymerica Sinica</i> , <b>2011</b> , 011, 12-23		6
14	IMPROVING THE MECHANICAL PROPERTIES OF SILK FIBER/FIBROIN COMPOSITES BY INTERFACIAL MODIFICATION. <i>Acta Polymerica Sinica</i> , <b>2011</b> , 011, 1329-1335		4
13	Kinetics of thermally-induced conformational transitions in soybean protein films. <i>Polymer</i> , <b>2010</b> , 51, 2410-2416	3.9	19
12	The preparation of high performance silk fiber/fibroin composite. <i>Polymer</i> , <b>2010</b> , 51, 4843-4849	3.9	32
11	Correlation between structural and dynamic mechanical transitions of regenerated silk fibroin. <i>Polymer</i> , <b>2010</b> , 51, 6278-6283	3.9	32
10	PREPARATION OF HIGH MOLECULAR WEIGHT SOY PROTEIN AQUEOUS SOLUTION AND SEPARATION OF ITS MAIN COMPONENTS. <i>Acta Polymerica Sinica</i> , <b>2010</b> , 010, 250-254		6
9	Protein adsorption and separation with chitosan-based amphoteric membranes. <i>Polymer</i> , <b>2009</b> , 50, 12573-1263	3.9	64
8	Preparation and Characterization of Polymerizable Hindered Amine-Based Antimicrobial Fibrous Materials. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 5819-5824	3.9	15
7	Protein adsorption and separation on amphoteric chitosan/carboxymethylcellulose membranes. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2008</b> , 86, 694-700	5.4	21
6	The preparation of regenerated silk fibroin microspheres. <i>Soft Matter</i> , <b>2007</b> , 3, 910-915	3.6	129
5	Synthesis and characterization of multiblock copolymers based on spider dragline silk proteins. <i>Biomacromolecules</i> , <b>2006</b> , 7, 2415-9	6.9	46
4	Synthesis and Solid-State Secondary Structure Investigation of Silk Proteinlike Multiblock Polymers. <i>Macromolecules</i> , <b>2003</b> , 36, 7508-7512	5.5	30
3	Polymerization of lactides and lactones, 12. Synthesis of poly[(glycolic acid)-alt-(L-glutamic acid)] and poly{(lactic acid)-co-[(glycolic acid)-alt-(L-glutamic acid)]}. <i>Macromolecular Chemistry and Physics</i> , <b>2000</b> , 201, 2371-2376	2.6	29
2	Polymerization of lactides and lactones 11. Ring-opening polymerization of $\epsilon$ -acetyl- $\epsilon$ -butyrolactone and copolymerization with $\epsilon$ -butyrolactone. <i>European Polymer Journal</i> , <b>2000</b> , 36, 2739-2741	5.2	3

- 1 A highly stretchable and anti-freezing silk-based conductive hydrogel for application as a self-adhesive and transparent ionotronic skin. *Journal of Materials Chemistry C*,

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