

Jinrong Yao

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7596909/jinrong-yao-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	The preparation of regenerated silk fibroin microspheres. <i>Soft Matter</i> , 2007 , 3, 910-915	3.6	129
71	Soy protein-based polyethylenimine hydrogel and its high selectivity for copper ion removal in wastewater treatment. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4163-4171	13	113
70	Protein adsorption and separation with chitosan-based amphoteric membranes. <i>Polymer</i> , 2009 , 50, 12573-1263	6.4	64
69	Strong Collagen Hydrogels by Oxidized Dextran Modification. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1318-1324	8.3	62
68	Robust Protein Hydrogels from Silkworm Silk. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1500-1506	5.6	53
67	Tough protein-carbon nanotube hybrid fibers comparable to natural spider silks. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 3940-3947	7.3	50
66	Plant Protein-Directed Synthesis of Luminescent Gold Nanocluster Hybrids for Tumor Imaging. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 83-90	9.5	49
65	The robust hydrogel hierarchically assembled from a pH sensitive peptide amphiphile based on silk fibroin. <i>Biomacromolecules</i> , 2013 , 14, 2733-8	6.9	48
64	An antimicrobial film by embedding in situ synthesized silver nanoparticles in soy protein isolate. <i>Materials Letters</i> , 2013 , 95, 142-144	3.3	46
63	Synthesis and characterization of multiblock copolymers based on spider dragline silk proteins. <i>Biomacromolecules</i> , 2006 , 7, 2415-9	6.9	46
62	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> , 2016 , 2, 1992-2000	5.5	46
61	Robust soy protein films obtained by slight chemical modification of polypeptide chains. <i>Polymer Chemistry</i> , 2013 , 4, 5425	4.9	42
60	Exploration of the tight structural-mechanical relationship in mulberry and non-mulberry silkworm silks. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 4337-4347	7.3	39
59	Self-assembly of a peptide amphiphile based on hydrolysed Bombyx mori silk fibroin. <i>Chemical Communications</i> , 2011 , 47, 10296-8	5.8	38
58	Hydroxyapatite/regenerated silk fibroin scaffold-enhanced osteoinductivity and osteoconductivity of bone marrow-derived mesenchymal stromal cells. <i>Biotechnology Letters</i> , 2013 , 35, 657-61	3	35
57	The preparation of high performance silk fiber/fibroin composite. <i>Polymer</i> , 2010 , 51, 4843-4849	3.9	32
56	Correlation between structural and dynamic mechanical transitions of regenerated silk fibroin. <i>Polymer</i> , 2010 , 51, 6278-6283	3.9	32

55	Crystallization of calcium carbonate on chitosan substrates in the presence of regenerated silk fibroin. <i>Langmuir</i> , 2011 , 27, 2804-10	4	31
54	Synthesis and Solid-State Secondary Structure Investigation of Silk-Proteinlike Multiblock Polymers. <i>Macromolecules</i> , 2003 , 36, 7508-7512	5.5	30
53	Silver sulfadiazine-immobilized celluloses as biocompatible polymeric biocides. <i>Journal of Bioactive and Compatible Polymers</i> , 2013 , 28, 398-410	2	29
52	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> , 2000 , 201, 2371-2376	2.6	29
51	Facile fabrication of the porous three-dimensional regenerated silk fibroin scaffolds. <i>Materials Science and Engineering C</i> , 2013 , 33, 3522-9	8.3	27
50	Enhancement of osseointegration of polyethylene terephthalate artificial ligament by coating of silk fibroin and depositing of hydroxyapatite. <i>International Journal of Nanomedicine</i> , 2014 , 9, 4569-80	7.3	24
49	A facile fabrication of silk/MoS hybrids for Photothermal therapy. <i>Materials Science and Engineering C</i> , 2017 , 79, 123-129	8.3	23
48	Intelligent Silk Fibroin Ionotronic Skin for Temperature Sensing. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000430	6.8	23
47	Artificial ligament made from silk protein/Laponite hybrid fibers. <i>Acta Biomaterialia</i> , 2020 , 106, 102-113	10.8	22
46	Fabrication of an alternative regenerated silk fibroin nanofiber and carbonated hydroxyapatite multilayered composite via layer-by-layer. <i>Journal of Materials Science</i> , 2013 , 48, 150-155	4.3	22
45	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> , 2013 , 33, 1409-16	8.3	22
44	Protein adsorption and separation on amphoteric chitosan/carboxymethylcellulose membranes. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 86, 694-700	5.4	21
43	Soy protein-directed one-pot synthesis of gold nanomaterials and their functional conductive devices. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 3643-3650	7.3	21
42	Kinetics of thermally-induced conformational transitions in soybean protein films. <i>Polymer</i> , 2010 , 51, 2410-2416	3.9	19
41	Preparation of 3D fibroin/chitosan blend porous scaffold for tissue engineering via a simplified method. <i>Macromolecular Bioscience</i> , 2011 , 11, 419-26	5.5	18
40	Selective chemical modification of soy protein for a tough and applicable plant protein-based material. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 5241-5248	7.3	17
39	Size-controllable dual drug-loaded silk fibroin nanospheres through a facile formation process. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 1179-1186	7.3	17
38	Enhanced Fibroblast Cellular Ligamentization Process to Polyethylene Terephthalate Artificial Ligament by Silk Fibroin Coating. <i>Artificial Organs</i> , 2016 , 40, 385-93	2.6	17

37	Tamoxifen-loaded silk fibroin electrospun fibers. <i>Materials Letters</i> , 2016 , 178, 31-34	3.3	17
36	One-step synthesis of soy protein/graphene nanocomposites and their application in photothermal therapy. <i>Materials Science and Engineering C</i> , 2016 , 68, 798-804	8.3	16
35	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> , 2019 , 5, 4799-4807	5.5	16
34	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> , 2017 , 5, 6042-6048	7.3	16
33	Preparation and characterization of antibacterial poly(lactic acid) nanocomposites with N-halamine modified silica. <i>International Journal of Biological Macromolecules</i> , 2020 , 155, 1468-1477	7.9	16
32	Water-Resistant Zein-Based Adhesives. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 7668-7679	8.3	15
31	Preparation and Characterization of Polymerizable Hindered Amine-Based Antimicrobial Fibrous Materials. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 5819-5824	3.9	15
30	A Robust, Resilient, and Multi-Functional Soy Protein-Based Hydrogel. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 13730-13738	8.3	13
29	Poly(vinyl alcohol) Hydrogels with Integrated Toughness, Conductivity, and Freezing Tolerance Based on Ionic Liquid/Water Binary Solvent Systems. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 29008-29020	9.5	12
28	Formation of different gold nanostructures by silk nanofibrils. <i>Materials Science and Engineering C</i> , 2016 , 64, 376-382	8.3	12
27	Silk-based hybrid microfibrillar mats as guided bone regeneration membranes. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 2025-2032	7.3	12
26	Silk-based pressure/temperature sensing bimodal ionotronic skin with stimulus discriminability and low temperature workability. <i>Chemical Engineering Journal</i> , 2021 , 422, 130091	14.7	12
25	Morphology and Properties of a New Biodegradable Material Prepared from Zein and Poly(butylene adipate-terephthalate) by Reactive Blending. <i>ACS Omega</i> , 2019 , 4, 5609-5616	3.9	11
24	Exploration of the nature of a unique natural polymer-based thermosensitive hydrogel. <i>Soft Matter</i> , 2016 , 12, 492-9	3.6	10
23	Colorless Silk/Copper Sulfide Hybrid Fiber and Fabric with Spontaneous Heating Property under Sunlight. <i>Biomacromolecules</i> , 2020 , 21, 1596-1603	6.9	10
22	Environmentally responsive composite films fabricated using silk nanofibrils and silver nanowires. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12940-12947	7.1	10
21	Facile Dissolution of Zein Using a Common Solvent Dimethyl Sulfoxide. <i>Langmuir</i> , 2019 , 35, 6640-6649	4	9
20	Direct Observation of Native Silk Fibroin Conformation in Silk Gland of Silkworm. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 1874-1879	5.5	9

19	Synthesis of poly (Ebenzyl-L-glutamate) with well-defined terminal structures and its block polypeptides with alanine, leucine and phenylalanine. <i>Polymer International</i> , 2012 , 61, 774-779	3.3	9
18	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> , 2020 , 8, 8695-8701	7.3	9
17	Silk Fibroin Acts as a Self-Emulsifier to Prepare Hierarchically Porous Silk Fibroin Scaffolds through Emulsion-Ice Dual Templates. <i>ACS Omega</i> , 2018 , 3, 3396-3405	3.9	8
16	Characterization and assembly investigation of a dodecapeptide hydrolyzed from the crystalline domain of Bombyx mori silk fibroin. <i>Polymer Chemistry</i> , 2013 , 4, 3005	4.9	8
15	Amphiphilic polypeptides as a bifunctional template in the mineralization of calcium carbonate at the air/water interface. <i>Macromolecular Bioscience</i> , 2013 , 13, 650-9	5.5	8
14	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> , 2020 , 165, 460-471	7.9	8
13	Quasi one-dimensional assembly of gold nanoparticles templated by a pH-sensitive peptide amphiphile from silk fibroin. <i>RSC Advances</i> , 2012 , 2, 5599	3.7	7
12	PREPARATION OF HIGH MOLECULAR WEIGHT SOY PROTEIN AQUEOUS SOLUTION AND SEPARATION OF ITS MAIN COMPONENTS. <i>Acta Polymerica Sinica</i> , 2010 , 010, 250-254		6
11	RECENT PROGRESS AND APPLICATION OF NON-BIOACTIVE PROTEINS IN MATERIAL FIELDS. <i>Acta Polymerica Sinica</i> , 2011 , 011, 12-23		6
10	Effect of stress on the molecular structure and mechanical properties of supercontracted spider dragline silks. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 168-176	7.3	6
9	Silk microfibrillar mats with long-lasting antimicrobial function. <i>Journal of Materials Science and Technology</i> , 2021 , 63, 203-209	9.1	6
8	A highly stretchable and anti-freezing silk-based conductive hydrogel for application as a self-adhesive and transparent ionotronic skin. <i>Journal of Materials Chemistry C</i> ,	7.1	6
7	Fabrication of superhydrophobic surfaces via CaCO ₃ mineralization mediated by poly(glutamic acid). <i>Journal of Solid State Chemistry</i> , 2013 , 199, 338-343	3.3	4
6	IMPROVING THE MECHANICAL PROPERTIES OF SILK FIBER/FIBROIN COMPOSITES BY INTERFACIAL MODIFICATION. <i>Acta Polymerica Sinica</i> , 2011 , 011, 1329-1335		4
5	Polymerization of lactides and lactones 11. Ring-opening polymerization of E-caprolactone and copolymerization with Ebutyrolactone. <i>European Polymer Journal</i> , 2000 , 36, 2739-2741	5.2	3
4	Structural Changes in Spider Dragline Silk after Repeated Supercontraction-Stretching Processes. <i>Biomacromolecules</i> , 2020 , 21, 5306-5314	6.9	3
3	PREPARATION AND ANTIMICROBIAL PROPERTIES OF PVA/TANNIN BLEND FILMS. <i>Acta Polymerica Sinica</i> , 2012 , 012, 125-130		2
2	Crystallization, Mechanical, and Antimicrobial Properties of Diallyl Cyanuric Derivative-Grafted Polypropylene. <i>ACS Omega</i> , 2021 , 6, 12794-12800	3.9	1

- 1 Enhancement of the Mechanical Properties of Poly(lactic acid)/Epoxidized Soybean Oil Blends by the Addition of 3-Aminophenylboronic Acid. *ACS Omega*, **2022**, 7, 17841-17848

3.9