

In-Chul Um

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.

66

papers

3,138

citations

27

h-index

55

g-index

69

ext. papers

3,464

ext. citations

5.1

avg, IF

5.14

L-index

#	Paper	IF	Citations
66	Preparation, Structural Characterization, and Properties of Natural Silk Non-woven Fabrics from Different Silkworm Varieties. <i>Fibers and Polymers</i> , 2022 , 23, 1130-1141	2	1
65	Effects of Fabrication Conditions on Structure and Properties of Mechanically Prepared Natural Silk Web and Non-Woven Fabrics. <i>Polymers</i> , 2021 , 13,	4.5	2
64	Electrospinning to Surpass White Natural Silk in Sunlight Rejection for Radiative Cooling. <i>Advanced Photonics Research</i> , 2021 , 2, 2100008	1.9	3
63	Preparation, Structural Characteristics, and Properties of Airlaid Nonwoven Silk Fabric. <i>Porrime</i> , 2020 , 44, 809-816	1	3
62	Effect of Silkworm Variety on Characteristics of Raw Sericin in Silk. <i>Fibers and Polymers</i> , 2019 , 20, 271-279		5
61	Effect of Sericin Content on the Structural Characteristics and Properties of Electro-spun Regenerated Silk. <i>Fibers and Polymers</i> , 2018 , 19, 507-514	2	7
60	Effect of molecular weight on electro-spinning performance of regenerated silk. <i>International Journal of Biological Macromolecules</i> , 2018 , 106, 1166-1172	7.9	31
59	Effect of molecular weight on the structure and mechanical properties of silk sericin gel, film, and sponge. <i>International Journal of Biological Macromolecules</i> , 2018 , 119, 821-832	7.9	16
58	Preparation of new natural silk non-woven fabrics by using adhesion characteristics of sericin and their characterization. <i>International Journal of Biological Macromolecules</i> , 2018 , 106, 39-47	7.9	21
57	Effect of degumming methods on structural characteristics and properties of regenerated silk. <i>International Journal of Biological Macromolecules</i> , 2017 , 104, 294-302	7.9	42
56	Effect of sericin concentration and ethanol content on gelation behavior, rheological properties, and sponge characteristics of silk sericin. <i>European Polymer Journal</i> , 2017 , 93, 761-774	5.2	23
55	A facile fabrication method and the boosted adsorption and photodegradation activity of CuO nanoparticles synthesized using a silk fibroin template. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 56, 335-341	6.3	16
54	Effects of electric field on the maximum electro-spinning rate of silk fibroin solutions. <i>International Journal of Biological Macromolecules</i> , 2017 , 95, 8-13	7.9	16
53	Effect of centrifugation on the structure and properties of silk sericin. <i>International Journal of Industrial Entomology</i> , 2016 , 33, 144-148		1
52	Effect of degumming on structure and mechanical properties of silk textile made with silk/polyurethane core-spun yarn. <i>International Journal of Industrial Entomology</i> , 2016 , 33, 132-137		
51	Effect of treatment temperature on mechanical properties of silk textiles made with silk/polyurethane core-spun yarn. <i>International Journal of Industrial Entomology</i> , 2016 , 33, 108-112		1
50	Effect of residual sericin on the structural characteristics and properties of regenerated silk films. <i>International Journal of Biological Macromolecules</i> , 2016 , 89, 273-8	7.9	22

49	Effect of shear viscosity on the preparation of sphere-like silk fibroin microparticles by electro-spraying. <i>International Journal of Biological Macromolecules</i> , 2015 , 79, 988-95	7.9	25
48	Effects of different <i>Bombyx mori</i> silkworm varieties on the structural characteristics and properties of silk. <i>International Journal of Biological Macromolecules</i> , 2015 , 79, 943-51	7.9	53
47	Characteristics of TEMPO-oxidized cellulose fibril-based hydrogels induced by cationic ions and their properties. <i>Cellulose</i> , 2015 , 22, 1993-2010	5.5	49
46	Effects of solvent on the solution properties, structural characteristics and properties of silk sericin. <i>International Journal of Biological Macromolecules</i> , 2015 , 78, 287-95	7.9	37
45	Effect of storage and drying temperature on the gelation behavior and structural characteristics of sericin. <i>International Journal of Biological Macromolecules</i> , 2015 , 81, 936-41	7.9	17
44	Effect of Korean <i>Bombyx mori</i> variety on electro-spinning performance of regenerated silk fibroin. <i>Fibers and Polymers</i> , 2015 , 16, 1935-1940	2	12
43	Evaluation of bone formation and membrane degradation in guided bone regeneration using a 4-hexylresorcinol-incorporated silk fabric membrane. <i>Maxillofacial Plastic and Reconstructive Surgery</i> , 2015 , 37, 32	2.7	16
42	Effect of different <i>Bombyx mori</i> silkworm varieties on the wet spinning of silk fibroin. <i>International Journal of Industrial Entomology</i> , 2015 , 30, 75-80		1
41	Structure and properties of silk sericin obtained from different silkworm varieties. <i>International Journal of Industrial Entomology</i> , 2015 , 30, 81-85		5
40	Preparation, structure, and properties of cellulose nanofibril/silk sericin composite film. <i>International Journal of Industrial Entomology</i> , 2015 , 31, 1-6		1
39	Effect of molecular weight and concentration on crystallinity and post drawing of wet spun silk fibroin fiber. <i>Fibers and Polymers</i> , 2014 , 15, 153-160	2	38
38	Relationship between rheology and electro-spinning performance of regenerated silk fibroin prepared using different degumming methods 2014 , 26, 119-125		23
37	Effect of degumming ratio on wet spinning and post drawing performance of regenerated silk. <i>International Journal of Biological Macromolecules</i> , 2014 , 67, 387-93	7.9	35
36	Effectiveness of Woven Silk Dressing Materials on Full-skin Thickness Burn Wounds in Rat Model. <i>Maxillofacial Plastic and Reconstructive Surgery</i> , 2014 , 36, 280-4	2.7	10
35	Examination of thermo-gelation behavior of HPMC and HEMC aqueous solutions using rheology 2013 , 25, 67-75		18
34	Effect of degumming condition on the solution properties and electrospinnability of regenerated silk solution. <i>International Journal of Biological Macromolecules</i> , 2013 , 55, 161-8	7.9	57
33	Effects of degumming conditions on electro-spinning rate of regenerated silk. <i>International Journal of Biological Macromolecules</i> , 2013 , 61, 50-7	7.9	28
32	Extraction conditions of <i>Antheraea mylitta</i> sericin with high yields and minimum molecular weight degradation. <i>International Journal of Biological Macromolecules</i> , 2013 , 52, 59-65	7.9	28

31	Effect of Processing Conditions on the Homogeneity of Partially Degummed Silk Evaluated by FTIR Spectroscopy. <i>International Journal of Industrial Entomology</i> , 2013 , 26, 54-60		10
30	The Effect of Extraction Conditions and Film Side on the Molecular Conformation of Silk Sericin Film. <i>International Journal of Industrial Entomology</i> , 2013 , 26, 113-118		6
29	Preparation of Cellulose Nanofibril/Regenerated Silk Fibroin Composite Fibers. <i>International Journal of Industrial Entomology</i> , 2013 , 26, 81-88		13
28	Effect of Extraction Time on the Rheological Properties of Sericin Solutions and Gels. <i>International Journal of Industrial Entomology</i> , 2013 , 27, 180-184		5
27	Effect of molecular weight and storage time on the wet- and electro-spinning of regenerated silk fibroin. <i>Polymer Degradation and Stability</i> , 2012 , 97, 1060-1066	4-7	47
26	Molecular weight distribution and solution properties of silk fibroins with different dissolution conditions. <i>International Journal of Biological Macromolecules</i> , 2012 , 51, 336-41	7-9	77
25	Comparative evaluation of the hypolipidemic effects of hydroxyethyl methylcellulose (HEMC) and hydroxypropyl methylcellulose (HPMC) in high fat-fed mice. <i>Food and Chemical Toxicology</i> , 2012 , 50, 1304-7	4-7	14
24	Hypoglycemic and antioxidative effects of hydroxyethyl methylcellulose in mice fed with high fat diet. <i>Food and Chemical Toxicology</i> , 2012 , 50, 1716-21	4-7	6
23	Antihyperlipidemic effects of hydroxyethyl methylcellulose with varying viscosity in mice fed with high fat diet. <i>Food Research International</i> , 2012 , 48, 1-6	7	6
22	The effect of ultrasonication on the micro-splitting of wool fiber. <i>Fibers and Polymers</i> , 2012 , 13, 943-947	2	2
21	Antihyperglycemic and antioxidative effects of Hydroxyethyl Methylcellulose (HEMC) and Hydroxypropyl Methylcellulose (HPMC) in mice fed with a high fat diet. <i>International Journal of Molecular Sciences</i> , 2012 , 13, 3738-50	6-3	10
20	Hemicellulose Removal and Crystalline Structure Transition of Flax Fiber with Alkali Treatment. <i>Textile Science and Engineering</i> , 2012 , 49, 271-278		1
19	Refining hot-water extracted silk sericin by ethanol-induced precipitation. <i>International Journal of Biological Macromolecules</i> , 2011 , 48, 32-7	7-9	52
18	Antihyperlipidemic and body fat-lowering effects of silk proteins with different fibroin/sericin compositions in mice fed with high fat diet. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 4192-7	5-7	38
17	Miscibility, structural characteristics, and thermal behavior of wet spun regenerated silk fibroin/nylon 6 blend filaments. <i>Fibers and Polymers</i> , 2010 , 11, 14-20	2	19
16	Effect of RGDS and KRSR peptides immobilized on silk fibroin nanofibrous mats for cell adhesion and proliferation. <i>Macromolecular Research</i> , 2010 , 18, 442-448	1-9	18
15	A comparative study on the dielectric and dynamic mechanical relaxation behavior of the regenerated silk fibroin films. <i>Macromolecular Research</i> , 2009 , 17, 785-790	1-9	12
14	Acceleration effect of sericin on shear-induced E transition of silk fibroin. <i>Polymer</i> , 2009 , 50, 4618-4625	3-9	23

13	Dissolution and wet spinning of silk fibroin using phosphoric acid/formic acid mixture solvent system. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 1605-1610	2.9	35
12	The effect of casting solvent on the structural characteristics and miscibility of regenerated silk fibroin/Poly(vinyl alcohol) blends. <i>Fibers and Polymers</i> , 2007 , 8, 579-585	2	29
11	Metal ion adsorbability of electrospun wool keratose/silk fibroin blend nanofiber mats. <i>Fibers and Polymers</i> , 2007 , 8, 271-277	2	43
10	Nanofibrous membrane of wool keratose/silk fibroin blend for heavy metal ion adsorption. <i>Journal of Membrane Science</i> , 2007 , 302, 20-26	9.6	168
9	Formation of water-resistant hyaluronic acid nanofibers by blowing-assisted electro-spinning and non-toxic post treatments. <i>Polymer</i> , 2005 , 46, 4853-4867	3.9	126
8	Characterization of gelatin nanofiber prepared from gelatin/formic acid solution. <i>Polymer</i> , 2005 , 46, 5094-5102	3.9	443
7	Electro-spinning and electro-blowing of hyaluronic acid. <i>Biomacromolecules</i> , 2004 , 5, 1428-36	6.9	272
6	Wet spinning of silk polymer. I. Effect of coagulation conditions on the morphological feature of filament. <i>International Journal of Biological Macromolecules</i> , 2004 , 34, 89-105	7.9	79
5	Wet spinning of silk polymer. II. Effect of drawing on the structural characteristics and properties of filament. <i>International Journal of Biological Macromolecules</i> , 2004 , 34, 107-19	7.9	132
4	The role of formic acid in solution stability and crystallization of silk protein polymer. <i>International Journal of Biological Macromolecules</i> , 2003 , 33, 203-13	7.9	136
3	Physical properties of silk fibroin/chitosan blend films. <i>Journal of Applied Polymer Science</i> , 2001 , 80, 928-234	2.9	179
2	Structural and thermal characteristics of <i>Antheraea pernyi</i> silk fibroin/chitosan blend film. <i>Polymer</i> , 2001 , 42, 6651-6656	3.9	141
1	Structural characteristics and properties of the regenerated silk fibroin prepared from formic acid. <i>International Journal of Biological Macromolecules</i> , 2001 , 29, 91-7	7.9	330