

# Ki Hoon Lee

## List of Publications by Citations

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59  
papers

2,094  
citations

28  
h-index

45  
g-index

59  
ext. papers

2,359  
ext. citations

4.6  
avg. IF

4.93  
L-index

#	Paper	IF	Citations
59	Characterization of gelatin nanofiber prepared from gelatinformic acid solution. <i>Polymer</i> , <b>2005</b> , 46, 5094-5102	3.9	443
58	Multi-biofunction of antimicrobial peptide-immobilized silk fibroin nanofiber membrane: Implications for wound healing. <i>Acta Biomaterialia</i> , <b>2016</b> , 39, 146-155	10.8	149
57	Electrospun three-dimensional silk fibroin nanofibrous scaffold. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 106, 3922-3928	2.9	102
56	Application of electrospun silk fibroin nanofibers as an immobilization support of enzyme. <i>Fibers and Polymers</i> , <b>2005</b> , 6, 181-185	2	78
55	Molecular weight distribution and solution properties of silk fibroins with different dissolution conditions. <i>International Journal of Biological Macromolecules</i> , <b>2012</b> , 51, 336-41	7.9	77
54	The effect of residual silk sericin on the structure and mechanical property of regenerated silk filament. <i>International Journal of Biological Macromolecules</i> , <b>2007</b> , 41, 346-53	7.9	67
53	Effect of degumming condition on the solution properties and electrospinnability of regenerated silk solution. <i>International Journal of Biological Macromolecules</i> , <b>2013</b> , 55, 161-8	7.9	57
52	Preparation and characterization of wet spun silk fibroin/poly(vinyl alcohol) blend filaments. <i>International Journal of Biological Macromolecules</i> , <b>2007</b> , 41, 168-72	7.9	55
51	Effects of different Bombyx mori silkworm varieties on the structural characteristics and properties of silk. <i>International Journal of Biological Macromolecules</i> , <b>2015</b> , 79, 943-51	7.9	53
50	Refining hot-water extracted silk sericin by ethanol-induced precipitation. <i>International Journal of Biological Macromolecules</i> , <b>2011</b> , 48, 32-7	7.9	52
49	Preparation of bead-type biosorbent from water-soluble Spirulina platensis extracts for chromium (VI) removal. <i>Algal Research</i> , <b>2015</b> , 7, 92-99	5	51
48	Surface-modified spherical lignin particles with superior Cr(VI) removal efficiency. <i>Chemosphere</i> , <b>2020</b> , 239, 124733	8.4	46
47	Polyethylenimine-functionalized silk sericin beads for high-performance remediation of hexavalent chromium from aqueous solution. <i>Chemosphere</i> , <b>2018</b> , 207, 507-516	8.4	43
46	Effect of degumming methods on structural characteristics and properties of regenerated silk. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 104, 294-302	7.9	42
45	Novel mucoadhesive polymer prepared by template polymerization of acrylic acid in the presence of silk sericin. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 80, 274-280	2.9	41
44	Fabrication of an ultrafine fish gelatin nanofibrous web from an aqueous solution by electrospinning. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 102, 1092-1103	7.9	39
43	Silk fibroin/chitosan conjugate crosslinked by tyrosinase. <i>Macromolecular Research</i> , <b>2004</b> , 12, 534-539	1.9	39

42	Preparation of Silk Sericin/Lignin Blend Beads for the Removal of Hexavalent Chromium Ions. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17,	6.3	39
41	Crosslinking reaction of phenolic side chains in silk fibroin by tyrosinase. <i>Fibers and Polymers</i> , <b>2004</b> , 5, 234-238	2	36
40	Sericin Promotes Fibroin Silk I Stabilization Across a Phase-Separation. <i>Biomacromolecules</i> , <b>2017</b> , 18, 2343-2349	6.9	35
39	Dissolution and wet spinning of silk fibroin using phosphoric acid/formic acid mixture solvent system. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 105, 1605-1610	2.9	35
38	Fish gelatin nanofibers prevent drug crystallization and enable ultrafast delivery. <i>RSC Advances</i> , <b>2017</b> , 7, 40411-40417	3.7	34
37	Silk Sericin Retards the Crystallization of Silk Fibroin. <i>Macromolecular Rapid Communications</i> , <b>2004</b> , 25, 1792-1796	4.8	34
36	The role of glycerol and water in flexible silk sericin film. <i>International Journal of Biological Macromolecules</i> , <b>2016</b> , 82, 945-51	7.9	31
35	Preparation of silk sericin beads using LiCl/DMSO solvent and their potential as a drug carrier for oral administration. <i>Fibers and Polymers</i> , <b>2007</b> , 8, 470-476	2	31
34	Multifunctional adhesive silk fibroin with blending of RGD-bioconjugated mussel adhesive protein. <i>Biomacromolecules</i> , <b>2014</b> , 15, 1390-8	6.9	28
33	Preparation and characterization of silk sericin/glycerol/graphene oxide nanocomposite film. <i>Fibers and Polymers</i> , <b>2013</b> , 14, 2111-2116	2	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> , <b>2013</b> , 52, 59-65	7.9	28
31	Effect of shear viscosity on the preparation of sphere-like silk fibroin microparticles by electrospraying. <i>International Journal of Biological Macromolecules</i> , <b>2015</b> , 79, 988-95	7.9	25
30	Preparation of sericin microparticles by electrohydrodynamic spraying and their application in drug delivery. <i>Macromolecular Research</i> , <b>2011</b> , 19, 266-272	1.9	24
29	Fabrication of <i>Phaeodactylum tricornutum</i> extract-loaded gelatin nanofibrous mats exhibiting antimicrobial activity. <i>International Journal of Biological Macromolecules</i> , <b>2014</b> , 63, 198-204	7.9	23
28	Highly porous three-dimensional poly(lactide-co-glycolide) (PLGA) microfibrous scaffold prepared by electrospinning method: A comparison study with other PLGA type scaffolds on its biological evaluation. <i>Fibers and Polymers</i> , <b>2012</b> , 13, 685-691	2	23
27	Structural characteristics and biological performance of silk fibroin nanofiber containing microalgae <i>Spirulina</i> extract. <i>Biopolymers</i> , <b>2014</b> , 101, 307-18	2.2	22
26	Green fabrication of antibacterial gelatin fiber for biomedical application. <i>Reactive and Functional Polymers</i> , <b>2019</b> , 136, 86-94	4.6	21
25	Miscibility, structural characteristics, and thermal behavior of wet spun regenerated silk fibroin/nylon 6 blend filaments. <i>Fibers and Polymers</i> , <b>2010</b> , 11, 14-20	2	19

24	Sericin-fixed silk fiber as an immobilization support of enzyme. <i>Fibers and Polymers</i> , <b>2005</b> , 6, 1-5	2	17
23	Silk sericin microparticles as a biosorbent for hexavalent chromium ion. <i>Macromolecular Research</i> , <b>2014</b> , 22, 788-795	1.9	15
22	Osteoblastic cells culture on electrospun poly( $\epsilon$ -caprolacton) scaffolds incorporating amphiphilic PEG-POSS telechelic. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2013</b> , 24, 2029-36	4.5	13
21	Surface modification of silk fibroin nanofibrous mat with dextran for wound dressing. <i>Fibers and Polymers</i> , <b>2014</b> , 15, 1137-1145	2	12
20	Preparation and characterization of electrospun poly( $\epsilon$ -caprolactone)-poly(L-lactic acid) nanofiber tubes. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 3659-3664	4.3	11
19	Water-resistant Lignin/Poly(vinyl alcohol) Blend Fibers for Removal of Hexavalent Chromium. <i>Fibers and Polymers</i> , <b>2018</b> , 19, 1175-1183	2	10
18	Effects of organic solvent and solution temperature on electrospun polyvinylidene fluoride nanofibers. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2013</b> , 13, 2708-13	1.3	10
17	Preparation of phytoncide-emitting nylon/PP sheath/core fiber and the release profile of phytoncide. <i>Fibers and Polymers</i> , <b>2012</b> , 13, 1209-1213	2	8
16	Recovery of Silk Sericin from Soap-Alkaline Degumming Solution. <i>International Journal of Industrial Entomology</i> , <b>2013</b> , 27, 203-208		8
15	Chromium(VI) Adsorption Behavior of Silk Sericin Beads. <i>International Journal of Industrial Entomology</i> , <b>2013</b> , 26, 47-53		7
14	Methyl cellulose nanofibrous mat for lipase immobilization via cross-linked enzyme aggregates. <i>Macromolecular Research</i> , <b>2016</b> , 24, 218-225	1.9	6
13	Wound-healing potential of Cultured Epidermal Sheets is unaltered after lyophilization: a preclinical study in comparison to cryopreserved CES. <i>BioMed Research International</i> , <b>2013</b> , 2013, 907209 <sup>3</sup>		6
12	Preparation and characterization of low molecular weight silk fibroin by high-temperature and high-pressure method. <i>Journal of Applied Polymer Science</i> , <b>2002</b> , 85, 2890-2895	2.9	6
11	3D Silk Fiber Construct Embedded Dual-Layer PEG Hydrogel for Articular Cartilage Repair - Assessment. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 653509	5.8	4
10	Introducing Deodorant Property on Chitosan Nonwoven Fabric by Sericin Post-Treatment. <i>Textile Science and Engineering</i> , <b>2016</b> , 53, 273-278		2
9	Synthesis of gold nanoparticles using silk sericin as a green reducing and capping agent. <i>European Polymer Journal</i> , <b>2022</b> , 164, 110960	5.2	2
8	Activity and Stability of Immobilized Enzyme on Silk Sericin Bead. <i>International Journal of Industrial Entomology</i> , <b>2013</b> , 27, 329-332		2
7	Monitoring of phase separation between silk fibroin and sericin using various dye system. <i>International Journal of Industrial Entomology</i> , <b>2015</b> , 30, 1-5		2

- 6 Heavy Metal Adsorption with PVA/Lignin Blend Fibers. *Textile Science and Engineering*, **2016**, 53, 391-396 1
- 5 Operation Modes Can Affect the Activity of Immobilized Enzyme onto Silk Fibroin Nanofibrous Membrane. *International Journal of Industrial Entomology*, **2013**, 27, 322-325 1
- 4 Strategies of Caffeine Loading into Silk Fibroin Film for Weight Loss Patch. *International Journal of Industrial Entomology*, **2013**, 27, 312-316 1
- 3 Effect of Salts on Gelation Time of Silk Sericin Solution. *International Journal of Industrial Entomology*, **2013**, 27, 326-328 0
- 2 Fabrication of Porous Silk Fibroin Microparticles by Electrohydrodynamic Spraying. *Porrime*, **2014**, 38, 98-102 1 0
- 1 Silk materials for biotechnology **2019**, 239-262