

# Ick-Soo Kim

## List of Publications by Year in descending order

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117  
papers

4,645  
citations

81900

39  
h-index

123424

61  
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118  
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118  
docs citations

118  
times ranked

5019  
citing authors

#	ARTICLE	IF	CITATIONS
1	Salts and water-free dyeing of cellulose nanofibers using novel green deep eutectic solvents: Isotherm, kinetics, and thermodynamic studies. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	13
2	Fabrication of Low-Twist and High-Strength Metallic Fibre Hybrid Spun Yarns. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3413.	2.5	1
3	Electroless Deposition: A Superficial Route to Synthesis of Highly Conductive Electrospun Nylon 6 Nanofibers. <i>Fibers and Polymers</i> , 2022, 23, 680-689.	2.1	3
4	Structural design and optimization of metal-organic framework-derived FeO @C/rGO anode materials for constructing high-performance hybrid supercapacitors. <i>Composites Part B: Engineering</i> , 2022, 236, 109812.	12.0	15
5	Development of a Multifunctional Intelligent Elbow Brace (MIEB) Using a Knitted Textile Strain Sensor. <i>Fibres and Textiles in Eastern Europe</i> , 2022, 30, 22-30.	0.5	2
6	Regenerated Silk Nanofibers for Robust and Cyclic Adsorption-Desorption on Anionic Dyes. <i>Langmuir</i> , 2022, 38, 6376-6386.	3.5	8
7	Electrospun Composite Nanofibers for Functional Applications. <i>Polymers</i> , 2022, 14, 2290.	4.5	3
8	Wet-spun bi-component alginate based hydrogel fibers: Development and in-vitro evaluation as a potential moist wound care dressing. <i>International Journal of Biological Macromolecules</i> , 2021, 168, 601-610.	7.5	27
9	Bioactive Sambong oil-loaded electrospun cellulose acetate nanofibers: Preparation, characterization, and in-vitro biocompatibility. <i>International Journal of Biological Macromolecules</i> , 2021, 166, 1009-1021.	7.5	61
10	Fabricating Antibacterial and Antioxidant Electrospun Hydrophilic Polyacrylonitrile Nanofibers Loaded with AgNPs by Lignin-Induced In-Situ Method. <i>Polymers</i> , 2021, 13, 748.	4.5	24
11	Evaluating Antibacterial Efficacy and Biocompatibility of PAN Nanofibers Loaded with Diclofenac Sodium Salt. <i>Polymers</i> , 2021, 13, 510.	4.5	27
12	Synthesis of Highly Conductive Electrospun Recycled Polyethylene Terephthalate Nanofibers Using the Electroless Deposition Method. <i>Nanomaterials</i> , 2021, 11, 531.	4.1	21
13	Lignin-mediated in-situ synthesis of CuO nanoparticles on cellulose nanofibers: A potential wound dressing material. <i>International Journal of Biological Macromolecules</i> , 2021, 173, 315-326.	7.5	42
14	A facile method for the preparation of a high-performance, hybrid separator for use in lithium-ion batteries. <i>Textile Research Journal</i> , 2021, 91, 2508-2517.	2.2	0
15	Fabrication of Poly(Ethylene-glycol 1,4-Cyclohexane Dimethylene-Isosorbide-Terephthalate) Electrospun Nanofiber Mats for Potential Infiltration of Fibroblast Cells. <i>Polymers</i> , 2021, 13, 1245.	4.5	16
16	Conductive and antibacterial cellulose nanofibers decorated with copper nanoparticles for potential application in wearable devices. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51381.	2.6	15
17	Introducing Deep Eutectic Solvents as a Water-Free Dyeing Medium for Poly (1,4-cyclohexane) Tj ETQq1 1 0.784314 rgBT /Oyerlock 10	4.5	5
18	Carboxymethyl Cellulose (CMC) Based Electrospun Composite Nanofiber Mats for Food Packaging. <i>Polymers</i> , 2021, 13, 302.	4.5	42

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19	Development of Antibacterial and Hemostatic PCL/Zein/ZnO@Quaternary Ammonium Salts NPs Composite Mats as Wound Dressings. <i>Macromolecular Materials and Engineering</i> , 2021, 306, .	3.6	13
20	Fabrication and Characterization of Electrospun Folic Acid/Hybrid Fibers: In Vitro Controlled Release Study and Cytocompatibility Assays. <i>Polymers</i> , 2021, 13, 3594.	4.5	18
21	Zn/Carbon nanofibers for efficient adsorption of lead from aqueous solutions. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 2731-2741.	2.2	23
22	Preparation and characterization of Juniperus chinensis extract-loaded polyurethane nanofiber laminate with polyurethane resin on polyethylene terephthalate fabric. <i>Polymer Bulletin</i> , 2020, 77, 919-928.	3.3	6
23	Castor oil-based polyols with gradually increasing functionalities for biopolyurethane synthesis. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48304.	2.6	12
24	Pretreatment of Microfibrillated Cellulose on Polylactide Composites. <i>Macromolecular Research</i> , 2020, 28, 110-117.	2.4	10
25	Ultrasonic-assisted dyeing of silk fibroin nanofibers: an energy-efficient coloration at room temperature. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 917-930.	3.1	19
26	Stabilized nanofibers of polyvinyl alcohol (PVA) crosslinked by unique method for efficient removal of heavy metal ions. <i>Journal of Water Process Engineering</i> , 2020, 33, 101111.	5.6	85
27	Zein nanofibers via deep eutectic solvent electrospinning: tunable morphology with super hydrophilic properties. <i>Scientific Reports</i> , 2020, 10, 15307.	3.3	46
28	In-vitro assessment of appropriate hydrophilic scaffolds by co-electrospinning of poly(1,4) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Td	3.3	19
29	A facile approach to synthesize highly conductive electrospun aramid nanofibers via electroless deposition. <i>Materials Chemistry and Physics</i> , 2020, 255, 123614.	4.0	18
30	Fabrication of Promising Antimicrobial Aloe Vera/PVA Electrospun Nanofibers for Protective Clothing. <i>Materials</i> , 2020, 13, 3884.	2.9	47
31	Optimized Loading of Carboxymethyl Cellulose (CMC) in Tri-component Electrospun Nanofibers Having Uniform Morphology. <i>Polymers</i> , 2020, 12, 2524.	4.5	32
32	Reusability Comparison of Melt-Blown vs Nanofiber Face Mask Filters for Use in the Coronavirus Pandemic. <i>ACS Applied Nano Materials</i> , 2020, 3, 7231-7241.	5.0	177
33	Antibacterial mechanisms of various copper species incorporated in polymeric nanofibers against bacteria. <i>Materials Today Communications</i> , 2020, 25, 101377.	1.9	41
34	Fabrication of Antibacterial Nanofibers Composites by Functionalizing the Surface of Cellulose Acetate Nanofibers. <i>ChemistrySelect</i> , 2020, 5, 1315-1321.	1.5	14
35	Thiol-functionalized cellulose nanofiber membranes for the effective adsorption of heavy metal ions in water. <i>Carbohydrate Polymers</i> , 2020, 234, 115881.	10.2	180
36	Active loading graphite/hydroxyapatite into the stable hydroxyethyl cellulose scaffold nanofibers for artificial cornea application. <i>Cellulose</i> , 2020, 27, 3319-3334.	4.9	15

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37	Cellulose acetate/multi-wall carbon nanotube/Ag nanofiber composite for antibacterial applications. <i>Materials Science and Engineering C</i> , 2020, 110, 110679.	7.3	41
38	Sea-Island-Like Morphology of CuNi Bimetallic Nanoparticles Uniformly Anchored on Single Layer Graphene Oxide as a Highly Efficient and Noble-Metal-Free Catalyst for Cyanation of Aryl Halides. <i>Scientific Reports</i> , 2020, 10, 677.	3.3	14
39	Compatibilization of immiscible blends of polypropylene and isosorbide containing copolyester with silica nanoparticles. <i>Polymer Engineering and Science</i> , 2020, 60, 1365-1376.	3.1	5
40	Manuka honey incorporated cellulose acetate nanofibrous mats: Fabrication and in vitro evaluation as a potential wound dressing. <i>International Journal of Biological Macromolecules</i> , 2020, 155, 479-489.	7.5	118
41	Electrospun <i>Momordica charantia</i> incorporated polyvinyl alcohol (PVA) nanofibers for antibacterial applications. <i>Materials Today Communications</i> , 2020, 24, 101161.	1.9	36
42	Fabrication and Characterization of Novel Antibacterial Ultrafine Nylon-6 Nanofibers Impregnated by Garlic Sour. <i>Fibers and Polymers</i> , 2020, 21, 2780-2787.	2.1	17
43	An Experimental Study on Modelling the Physical Properties of Composite Psyllium, Alginate and Chitosan Fibers Using Box-Behnken Technique. <i>Fibers and Polymers</i> , 2020, 21, 2494-2504.	2.1	12
44	Construction of aerogels based on nanocrystalline cellulose and chitosan for high efficient oil/water separation and water disinfection. <i>Carbohydrate Polymers</i> , 2020, 243, 116461.	10.2	75
45	Adsorptive defluoridation from aqueous solution using a novel blend of eggshell powder and chitosan nanofibers. <i>Materials Research Express</i> , 2020, 7, 125005.	1.6	9
46	Sonication induced effective approach for coloration of compact polyacrylonitrile (PAN) nanofibers. <i>Ultrasonics Sonochemistry</i> , 2019, 51, 399-405.	8.2	30
47	Characterizations and application of CA/ZnO/AgNP composite nanofibers for sustained antibacterial properties. <i>Materials Science and Engineering C</i> , 2019, 105, 110077.	7.3	54
48	Design and characterization of dual drug delivery based on in-situ assembled PVA/PAN core-shell nanofibers for wound dressing application. <i>Scientific Reports</i> , 2019, 9, 12640.	3.3	81
49	Copper oxide (CuO) loaded polyacrylonitrile (PAN) nanofiber membranes for antimicrobial breath mask applications. <i>Current Research in Biotechnology</i> , 2019, 1, 1-10.	3.7	101
50	Thiol-based chemistry as versatile routes for the effective functionalization of cellulose nanofibers. <i>Carbohydrate Polymers</i> , 2019, 226, 115259.	10.2	36
51	Silver sulfadiazine loaded zein nanofiber mats as a novel wound dressing. <i>RSC Advances</i> , 2019, 9, 268-277.	3.6	64
52	Graphene oxide as a polymeric N-halamine carrier and release platform: Highly-efficient, sustained-release antibacterial property and great storage stability. <i>Materials Science and Engineering C</i> , 2019, 103, 109877.	7.3	29
53	Synthesis and attachment of silver and copper nanoparticles on cellulose nanofibers and comparative antibacterial study. <i>Cellulose</i> , 2019, 26, 6629-6640.	4.9	58
54	Facile Mechanochemical Synthesis of Nickel/Graphene Oxide Nanocomposites with Unique and Tunable Morphology: Applications in Heterogeneous Catalysis and Supercapacitors. <i>Catalysts</i> , 2019, 9, 486.	3.5	27

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55	Processing of metallic fiber hybrid spun yarns for better electrical conductivity. <i>Materials and Manufacturing Processes</i> , 2019, 34, 1008-1015.	4.7	15
56	&lt;p&gt;Antibacterial properties of in situ and surface functionalized impregnation of silver sulfadiazine in polyacrylonitrile nanofiber mats&lt;/p&gt;. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 2693-2703.	6.7	48
57	Dopa-based facile procedure to synthesize AgNP/cellulose nanofiber composite for antibacterial applications. <i>Applied Nanoscience (Switzerland)</i> , 2019, 9, 1661-1670.	3.1	13
58	Tunichrome-inspired pyrogallol functionalized chitosan for tissue adhesion and hemostasis. <i>Carbohydrate Polymers</i> , 2019, 208, 77-85.	10.2	114
59	Cellulose acetate nanofibers embedded with AgNPs anchored TiO <sub>2</sub> nanoparticles for long term excellent antibacterial applications. <i>Carbohydrate Polymers</i> , 2019, 207, 640-649.	10.2	123
60	Development and characterization of conductive ring spun hybrid yarns. <i>Journal of the Textile Institute</i> , 2019, 110, 141-150.	1.9	9
61	Preparation and characterizations of multifunctional PVA/ZnO nanofibers composite membranes for surgical gown application. <i>Journal of Materials Research and Technology</i> , 2019, 8, 1328-1334.	5.8	54
62	<i>In vitro</i> assessment of dual-εnetwork electrospun tubes from poly(1,4 cyclohexane dimethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Science, 2019, 136, 47222.	2.6	18
63	A comparative study on synthesis of AgNPs on cellulose nanofibers by thermal treatment and DMF for antibacterial activities. <i>Materials Science and Engineering C</i> , 2019, 98, 1179-1195.	7.3	51
64	The development of nanofiber tubes based on nanocomposites of polyvinylpyrrolidone incorporated gold nanoparticles as scaffolds for neuroscience application in axons. <i>Textile Reseach Journal</i> , 2019, 89, 2713-2720.	2.2	19
65	Comparison of fabrication methods for the effective loading of Ag onto PVA nanofibers. <i>Textile Reseach Journal</i> , 2019, 89, 625-634.	2.2	22
66	Characterization of nano-structured poly(ε-caprolactone) membranes with DNA-doped polypyrrole via sonication-induced layer-by-layer assembly. <i>Textile Reseach Journal</i> , 2019, 89, 1267-1275.	2.2	2
67	Preparation of colored recycled polyethylene terephthalate nanofibers from waste bottles: Physicochemical studies. <i>Advances in Polymer Technology</i> , 2018, 37, 2820-2827.	1.7	35
68	Control of the morphology of cellulose acetate nanofibers via electrospinning. <i>Cellulose</i> , 2018, 25, 2829-2837.	4.9	83
69	Antibacterial efficacy of poly(vinyl alcohol) composite nanofibers embedded with silver-εanchored silica nanoparticles. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 1121-1128.	3.4	36
70	Deodorant activity of phthalocyanine complex nanofiber. <i>Textile Reseach Journal</i> , 2018, 88, 630-635.	2.2	10
71	Self-cleaning effect of electrospun poly (1,4-cyclohexanedimethylene isosorbide terephthalate) nanofibers embedded with zinc oxide nanoparticles. <i>Textile Reseach Journal</i> , 2018, 88, 2493-2498.	2.2	17
72	Nanofibers: Emerging Progress on Fabrication Using Mechanical Force and Recent Applications. <i>Polymer Reviews</i> , 2018, 58, 688-716.	10.9	14

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73	Readily Functionalizable and Stabilizable Polymeric Particles with Controlled Size and Morphology by Electro spray. Scientific Reports, 2018, 8, 15725.	3.3	21
74	Effective Formation of Well-Defined Polymeric Microfibers and Nanofibers with Exceptional Uniformity by Simple Mechanical Needle Spinning. Polymers, 2018, 10, 980.	4.5	6
75	Epoxy-Containing Copolymers: A Versatile Toolbox for Functional Nanofiber Mats with Desired Chemical Functionalities. Advanced Materials Interfaces, 2018, 5, 1800506.	3.7	11
76	Ultrasonic energy-assisted coloration of polyurethane nanofibers. Applied Nanoscience (Switzerland), 2018, 8, 1505-1514.	3.1	18
77	Fabrication of Two Polyester Nanofiber Types Containing the Biobased Monomer Isosorbide: Poly (Ethylene Glycol 1,4-Cyclohexane Dimethylene Isosorbide Terephthalate) and Poly (1,4-Cyclohexane) Terephthalate. Polymers, 2018, 10, 1987.	1.0	14
78	Preparation and In-Vitro Assessment of Hierarchical Organized Antibacterial Breath Mask Based on Polyacrylonitrile/Silver (PAN/AgNPs) Nanofiber. Nanomaterials, 2018, 8, 461.	4.1	50
79	Aqueous hardness removal by anionic functionalized electrospun cellulose nanofibers. Cellulose, 2018, 25, 5985-5997.	4.9	26
80	Effect of molecular weight on the structure and mechanical properties of silk sericin gel, film, and sponge. International Journal of Biological Macromolecules, 2018, 119, 821-832.	7.5	35
81	Self-Cleaning Properties of Electrospun PVA/TiO <sub>2</sub> and PVA/ZnO Nanofibers Composites. Nanomaterials, 2018, 8, 644.	4.1	56
82	Cytocompatibility and Osteogenesis of Adipose Tissue-Derived Stem Cells on POSS-PEG Coated Collagen. Journal of Nanoscience and Nanotechnology, 2018, 18, 4439-4444.	0.9	3
83	Electrospun tungsten trioxide nanofibers decorated with palladium oxide nanoparticles exhibiting enhanced photocatalytic activity. RSC Advances, 2017, 7, 6108-6113.	3.6	34
84	Utilization of Human Hair as a Synergistic Support for Ag, Au, Cu, Ni, and Ru Nanoparticles: Application in Catalysis. Industrial & Engineering Chemistry Research, 2017, 56, 1926-1939.	3.7	19
85	Effect of graphene incorporation in carbon nanofiber decorated with TiO <sub>2</sub> for photoanode applications. RSC Advances, 2017, 7, 6574-6582.	3.6	15
86	Three-dimensional cheese-like carbon nanoarchitecture with tremendous surface area and pore construction derived from corn as superior electrode materials for supercapacitors. Applied Surface Science, 2017, 409, 52-59.	6.1	46
87	Post-electrospinning thermal treatments on poly(4-methyl-1-pentene) nanofiber membranes for improved mechanical properties. Polymer Bulletin, 2017, 74, 5221-5230.	3.3	18
88	Sub-micron silk fibroin film with high humidity sensibility through color changing. RSC Advances, 2017, 7, 17889-17897.	3.6	66
89	Electrospun Zein Nanofiber as a Green and Recyclable Adsorbent for the Removal of Reactive Black 5 from the Aqueous Phase. ACS Sustainable Chemistry and Engineering, 2017, 5, 4340-4351.	6.7	76
90	Ultrasonic-assisted dyeing of Nylon-6 nanofibers. Ultrasonics Sonochemistry, 2017, 39, 34-38.	8.2	38

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91	Interactions between Halloysite Nanotubes and Poly(styrene sulfonate) in Solution. Bulletin of the Korean Chemical Society, 2017, 38, 107-111.	1.9	3
92	Ultrasonic-assisted deacetylation of cellulose acetate nanofibers: A rapid method to produce cellulose nanofibers. Ultrasonics Sonochemistry, 2017, 36, 319-325.	8.2	79
93	Electrospun tri-layered zein/PVP-GO/zein nanofiber mats for providing biphasic drug release profiles. International Journal of Pharmaceutics, 2017, 531, 101-107.	5.2	84
94	Highly efficient and robust electrospun nanofibers for selective removal of acid dye. Journal of Molecular Liquids, 2017, 244, 478-488.	4.9	32
95	Enhancement of mechanical properties of polymeric nanofibers by controlling crystallization behavior using a simple freezing/thawing process. RSC Advances, 2017, 7, 43994-44000.	3.6	45
96	Enhanced Wettability and Thermal Stability of a Novel Polyethylene Terephthalate-Based Poly(Vinylidene Fluoride) Nanofiber Hybrid Membrane for the Separator of Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 26400-26406.	8.0	69
97	Fabrication and characterization of nanofibers of honey/poly(1,4-cyclohexane dimethylene isosorbide) Tj ETQq1 1 0,784314 rgBT /Over	7.3	39
98	Dyeing and characterization of regenerated cellulose nanofibers with vat dyes. Carbohydrate Polymers, 2017, 174, 443-449.	10.2	59
99	Cyclodextrin functionalized cellulose nanofiber composites for the faster adsorption of toluene from aqueous solution. Journal of the Taiwan Institute of Chemical Engineers, 2017, 70, 352-358.	5.3	24
100	Accelerated skin wound healing using electrospun nanofibrous mats blended with mussel adhesive protein and polycaprolactone. Journal of Biomedical Materials Research - Part A, 2017, 105, 218-225.	4.0	52
101	A Review of Structure Construction of Silk Fibroin Biomaterials from Single Structures to Multi-Level Structures. International Journal of Molecular Sciences, 2017, 18, 237.	4.1	333
102	The Chemical Deposition Method for the Decoration of Palladium Particles on Carbon Nanofibers with Rapid Conductivity Changes. Nanomaterials, 2016, 6, 226.	4.1	14
103	Fabrication of silk fibroin/eggshell nanofiber membranes for facemasks. Fibers and Polymers, 2016, 17, 1776-1781.	2.1	20
104	Human Hair: A Suitable Platform for Catalytic Nanoparticles. ACS Sustainable Chemistry and Engineering, 2016, 4, 5409-5414.	6.7	19
105	Handspinning Enabled Highly Concentrated Carbon Nanotubes with Controlled Orientation in Nanofibers. Scientific Reports, 2016, 6, 37590.	3.3	28
106	Rhus verniciflua as a green corrosion inhibitor for mild steel in 1 M H <sub>2</sub> SO <sub>4</sub> . RSC Advances, 2016, 6, 57144-57153.	3.6	57
107	Ultrasonic dyeing of cellulose nanofibers. Ultrasonics Sonochemistry, 2016, 31, 350-354.	8.2	63
108	Highly dispersed nanoscale hydroxyapatite on cellulose nanofibers for bone regeneration. Materials Letters, 2016, 168, 56-61.	2.6	40

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109	Cellulose acetate nanofiber mat with honeycomb-like surface structure. <i>Materials Letters</i> , 2016, 169, 33-36.	2.6	15
110	Noble metal/functionalized cellulose nanofiber composites for catalytic applications. <i>Carbohydrate Polymers</i> , 2015, 132, 554-564.	10.2	91
111	Needle-like MnO <sub>2</sub> /activated carbon nanocomposites derived from human hair as versatile electrode materials for supercapacitors. <i>RSC Advances</i> , 2015, 5, 81492-81498.	3.6	44
112	Cold pad-batch dyeing of cellulose nanofibers with reactive dyes. <i>Cellulose</i> , 2014, 21, 3089-3095.	4.9	55
113	Cationic-cellulose nanofibers: Preparation and dyeability with anionic reactive dyes for apparel application. <i>Carbohydrate Polymers</i> , 2013, 91, 434-443.	10.2	95
114	Dyeing and characterization of cellulose nanofibers to improve color yields by dual padding method. <i>Cellulose</i> , 2013, 20, 1469-1476.	4.9	74
115	Pad dyeing of cellulose acetate nanofibres with disperse dyes. <i>Coloration Technology</i> , 2013, 129, 159-163.	1.5	31
116	Thermal Insulation, Antibacterial and Mold Properties of Breathable Nanofiber-Laminated Wallpapers. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 4929-4933.	0.9	11
117	Frictional Properties of Electrospun Polyurethane Nanofiber Web. <i>Tribology Online</i> , 2010, 5, 262-265.	0.9	3