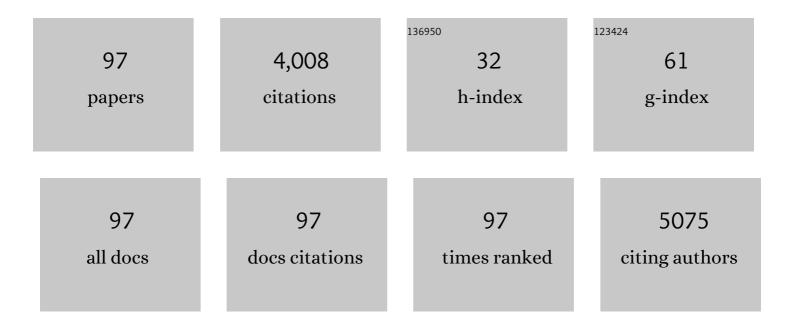
List of Publications by Year in descending order

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FRANK KO

#	Article	IF	CITATIONS
1	Electronic textiles for electrocardiogram monitoring: A review on the structure–property and performance evaluation from fiber to fabric. Textile Reseach Journal, 2023, 93, 878-910.	2.2	7
2	Hybrid PTFE-glass hierarchical braided/epoxy composites with self-lubricating and high tribological performance. Journal of Industrial Textiles, 2022, 51, 4720S-4739S.	2.4	10
3	Synergy of surface sodium and hydroxyl on NaTi2HO5 nanotubes accelerating the Pt-dominated ambient HCHO oxidation. Journal of Hazardous Materials, 2022, 421, 126769.	12.4	7
4	On the tribology of complex 2D/3D composites bearing. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2022, 236, 1296-1310.	1.8	2
5	Polyacrylonitrileâ€Reinforced Composite Gel Polymer Electrolytes for Stable Potassium Metal Anodes. Small, 2022, 18, e2107186.	10.0	18
6	Antibiofilm and immunomodulatory resorbable nanofibrous filing for dental pulp regenerative procedures. Bioactive Materials, 2022, 16, 173-186.	15.6	13
7	Poly(Lactide)-Modified Lignin Nanofibers: Investigating the Role of Polymer Tacticity on Fiber Properties and Filtration Efficiency. ACS Sustainable Chemistry and Engineering, 2022, 10, 2772-2783.	6.7	5
8	Polyacrylonitrileâ€Reinforced Composite Gel Polymer Electrolytes for Stable Potassium Metal Anodes (Small 8/2022). Small, 2022, 18, .	10.0	0
9	Study on microstructure and tribological properties of hierarchical <scp>3D</scp> braid applicable in heavy operating tribology conditions. Polymer Composites, 2022, 43, 3290-3312.	4.6	6
10	Sustainable production of oxygen-rich hierarchically porous carbon network from corn straw lignin and silk degumming wastewater for high-performance electrochemical energy storage. Renewable Energy, 2022, 191, 141-150.	8.9	11
11	Ethylenediamine-functionalized Zr-based MOF for efficient removal of heavy metal ions from water. Chemosphere, 2021, 264, 128466.	8.2	179
12	Enhancement of charge transport in interconnected lignin-derived carbon fibrous network for flexible battery-supercapacitor hybrid device. Chemical Engineering Journal, 2021, 409, 128214.	12.7	37
13	Performance and Signal Quality Analysis of Electrocardiogram Textile Electrodes for Smart Apparel Applications. Frontiers in Electronics, 2021, 2, .	3.2	6
14	The micro/macro mechanical approach of reinforced braid composite used in tribology. Journal of Composite Materials, 2021, 55, 3813-3825.	2.4	5
15	Fe3O4@PAA@UiO-66-NH2 magnetic nanocomposite for selective adsorption of Quercetin. Chemosphere, 2021, 275, 130087.	8.2	47
16	Design of NiO <i>_x</i> /Carbon Heterostructure Interlayer to Improve Hole Extraction Efficiency of Inverted Perovskite Solar Cells. Advanced Materials Interfaces, 2021, 8, 2100862.	3.7	8
17	Fabrication and Characterization of Lignin/Dendrimer Electrospun Blended Fiber Mats. Molecules, 2021, 26, 518.	3.8	14
18	3 D NiO Nanowall Holeâ€Transporting Layer for the Passivation of Interfacial Contact in Inverted Perovskite Solar Cells. ChemSusChem, 2020, 13, 1006-1012.	6.8	30

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19	Functional piezoelectric yarn: Toward optimization of zinc oxide nanowires growth. Journal of Materials Research, 2020, 35, 3091-3105.	2.6	1
20	A knitted wearable flexible sensor for monitoring breathing condition. Journal of Engineered Fibers and Fabrics, 2020, 15, 155892502093035.	1.0	14
21	Open hole tension and compression behavior of 3D braided composites. Polymer Composites, 2020, 41, 2455-2465.	4.6	11
22	The role of oxygen vacancies on Pt/NaInO2 catalyst in improving formaldehyde oxidation at ambient condition. Chemical Engineering Journal, 2020, 395, 125131.	12.7	39
23	Fatigue Behavior of 3D Braided Composites Containing an Open-Hole. Polymers, 2020, 12, 2147.	4.5	3
24	Simple fabrication of a highly conductive and passivated PEDOT:PSS film <i>via</i> cryo-controlled quasi-congealing spin-coating for flexible perovskite solar cells. Journal of Materials Chemistry C, 2019, 7, 10247-10256.	5.5	24
25	Novel NiO Nanoforest Architecture for Efficient Inverted Mesoporous Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 44308-44314.	8.0	27
26	Experimental composites of polyacrilonitrile-electrospun nanofibers containing nanocrystal cellulose. Dental Materials, 2019, 35, e286-e297.	3.5	11
27	Minimalist Design of Efficient, Stable Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 12460-12466.	8.0	9
28	Signal Quality Analysis of Electrocardiogram Textile Electrodes for Smart Apparel Applications. , 2019, , .		2
29	Capacitance performance boost of cellulose-derived carbon nanofibers via carbon and silver nanoparticles. Cellulose, 2019, 26, 2499-2512.	4.9	18
30	Nanocrystalline cellulose as a reinforcing agent for electrospun polyacrylonitrile (PAN) nanofibers. Journal of Oral Biosciences, 2019, 61, 37-42.	2.2	5
31	Roll-to-roll electrochemical fabrication of non-polarizable silver/silver chloride-coated nylon yarn for biological signal monitoring. Textile Reseach Journal, 2019, 89, 3591-3600.	2.2	3
32	Electrospun Sandwich‣tructure Composite Membranes for Wound Dressing Scaffolds with High Antioxidant and Antibacterial Activity. Macromolecular Materials and Engineering, 2018, 303, 1700270.	3.6	20
33	Skipping Oxidative Thermal Stabilization for Lignin-Based Carbon Nanofibers. ACS Sustainable Chemistry and Engineering, 2018, 6, 6434-6444.	6.7	47
34	Experimental study on compression properties and failure mechanism of 3D MWK carbon/epoxy composites at elevated temperatures. Polymer Composites, 2018, 39, E1987.	4.6	8
35	Investigation of the mechanical properties of lignin nanofibrous structures using statistical modeling. Textile Reseach Journal, 2018, 88, 1943-1953.	2.2	4
36	Effect of iron oxide nanoparticle size on electromagnetic properties of composite nanofibers. Journal of Composite Materials, 2018, 52, 1723-1736.	2.4	18

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37	A novel bilayer photoanode made of carbon nanotubes incorporated TiO2 nanorods and Mg2+ doped TiO2 nanorods for flexible dye-sensitized solar cells. Thin Solid Films, 2018, 646, 44-52.	1.8	14
38	Experimental Investigation of Compression Properties of Composites with Printed Braiding Structure. Materials, 2018, 11, 1767.	2.9	11
39	Electrospun carbon nanofiber catalyst layers for polymer electrolyte membrane fuel cells: fabrication and optimization. Journal of Materials Science, 2018, 53, 11633-11647.	3.7	19
40	Facile synthesis of flexible electrode based on cotton/polypyrrole/multi-walled carbon nanotube composite for supercapacitors. Cellulose, 2018, 25, 4079-4091.	4.9	50
41	Electrospun carbon nanofiber catalyst layers for polymer electrolyte membrane fuel cells: Structure and performance. Journal of Power Sources, 2018, 392, 239-250.	7.8	23
42	Breathable Dry Silver/Silver Chloride Electronic Textile Electrodes for Electrodermal Activity Monitoring. Biosensors, 2018, 8, 79.	4.7	18
43	Enhancement of the mechanical properties of electrospun lignin-based nanofibers by heat treatment. Journal of Materials Science, 2017, 52, 9602-9614.	3.7	49
44	Electrospray biodegradable microcapsules loaded with curcumin for drug delivery systems with high bioactivity. RSC Advances, 2017, 7, 1724-1734.	3.6	61
45	Highly flexible TiO2/C nanofibrous film for flexible dye-sensitized solar cells as a platinum- and transparent conducting oxide-free flexible counter electrode. Electrochimica Acta, 2017, 255, 256-265.	5.2	26
46	Effects of Flexible Dry Electrode Design on Electrodermal Activity Stimulus Response Detection. IEEE Transactions on Biomedical Engineering, 2017, 64, 2979-2987.	4.2	8
47	Branched open-ended TiO2 nanotubes for improved efficiency of flexible dye-sensitized solar cells. Journal of Alloys and Compounds, 2017, 724, 1124-1133.	5.5	7
48	Conversion of hydrophilic SiOC nanofibrous membrane to robust hydrophobic materials by introducing palladium. Applied Surface Science, 2017, 425, 750-757.	6.1	25
49	Dynamic mechanical relaxations of electrospun poly(acrylonitrile-co-methyl acrylate) nanofibrous yarn. Textile Reseach Journal, 2017, 87, 2193-2203.	2.2	8
50	Novel Flexible Wearable Sensor Materials and Signal Processing for Vital Sign and Human Activity Monitoring. Sensors, 2017, 17, 1622.	3.8	81
51	Analytical modelling of dry-jet wet spinning. Thermal Science, 2017, 21, 1807-1812.	1.1	0
52	Kynurenine Modulates MMPâ€1 and Typeâ€I Collagen Expression Via Aryl Hydrocarbon Receptor Activation in Dermal Fibroblasts. Journal of Cellular Physiology, 2016, 231, 2749-2760.	4.1	35
53	Enhanced efficiency in flexible dye-sensitized solar cells by a novel bilayer photoanode made of carbon nanotubes incorporated TiO 2 nanorods and branched TiO 2 nanotubes. Solar Energy Materials and Solar Cells, 2016, 147, 134-143.	6.2	36
54	Influence of Poly(ethylene oxide) (PEO) Percent and Lignin Type on the Properties of Lignin/PEO Blend Filament. Macromolecular Materials and Engineering, 2015, 300, 1023-1032.	3.6	18

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55	Synthesis of Noble Monometal and Bimetalâ€Modified Lignin Nanofibers and Carbon Nanofibers Through Surfaceâ€Grafted Poly(2â€{Dimethylamino)Ethyl Methacrylate) Brushes. Macromolecular Materials and Engineering, 2015, 300, 836-847.	3.6	19
56	Influence of the solvent and nonsolvent composition on the electrospinning of a cellulose acetate ternary system. Journal of Applied Polymer Science, 2015, 132, .	2.6	3
57	Highly piezoresistive compliant nanofibrous sensors for tactile and epidermal electronic applications. Journal of Materials Research, 2015, 30, 121-129.	2.6	10
58	An analysis of the tensile properties of nanofiber mats. Polymer, 2015, 73, 62-67.	3.8	23
59	Nanofibers for ligament and tendon tissue regeneration. , 2015, , 91-118.		3
60	Flexural properties of experimental nanofiber reinforced composite are affected by resin composition and nanofiber/resin ratio. Dental Materials, 2015, 31, 1132-1141.	3.5	32
61	Effect of sonication treatment on electrospinnability of high-viscosity PAN solution and mechanical performance of microfiber mat. Iranian Polymer Journal (English Edition), 2014, 23, 947-953.	2.4	15
62	Structure-property relationship of regenerated spider silk protein nano/microfibrous scaffold fabricated by electrospinning. Journal of Biomedical Materials Research - Part A, 2014, 102, 3828-3837.	4.0	23
63	Electromechanical properties of knitted wearable sensors: part 1 – theory. Textile Reseach Journal, 2014, 84, 3-15.	2.2	36
64	Electro-mechanical properties of knitted wearable sensors: Part 2 – Parametric study and experimental verification. Textile Reseach Journal, 2014, 84, 200-213.	2.2	43
65	Postelectrospinning modifications for alginate nanofiberâ€based wound dressings. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2014, 102, 508-515.	3.4	47
66	Preparation and Characterization of Interconnected, Kraft Ligninâ€ <scp>B</scp> ased Carbon Fibrous Materials by Electrospinning. Macromolecular Materials and Engineering, 2014, 299, 540-551.	3.6	122
67	Enzymatic synthesis of ionic responsive lignin nanofibres through surface poly(N-isopropylacrylamide) immobilization. Green Chemistry, 2014, 16, 3890-3898.	9.0	45
68	Study on synthesis of ZnO nanorods and its UV-blocking properties on cotton fabrics coated with the ZnO quantum dot. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	16
69	Correlation of Elongational Fluid Properties to Fiber Diameter in Electrospinning of Softwood Kraft Lignin Solutions. Industrial & Engineering Chemistry Research, 2014, 53, 2697-2705.	3.7	53
70	Ultra-filtration membranes based on electrospun poly(vinylidene fluoride) (PVDF) fibrous composite membrane scaffolds. RSC Advances, 2013, 3, 11614.	3.6	26
71	Highly Stretchable, Sparse, Metallized Nanofiber Webs as Thin, Transferrable Transparent Conductors. Advanced Energy Materials, 2013, 3, 1332-1337.	19.5	76
72	Nanofibre Based Biomaterials Bioactive Nanofibres for Wound Healing Applications. , 2012, , .		3

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73	Biomedical applications of nanofibers. Polymers for Advanced Technologies, 2011, 22, 350-365.	3.2	196
74	Fabrication and characterization of polyâ€î³â€glutamic acid nanofiber. Journal of Applied Polymer Science, 2011, 122, 150-158.	2.6	9
75	Electromagnetic properties of electrospun Fe3O4/carbon composite nanofibers. Polymer, 2011, 52, 1645-1653.	3.8	63
76	Bioactive Nanofibres for Wound Healing Applications. Journal of Fiber Bioengineering and Informatics, 2011, 4, 1-14.	0.2	27
77	Electrospinning of Technical Lignins for the Production of Fibrous Networks. Journal of Wood Chemistry and Technology, 2010, 30, 315-329.	1.7	133
78	Cytotoxicity and Cell Adhesion of PLLA/keratin Composite Fibrous Membranes. IFMBE Proceedings, 2009, , 1492-1495.	0.3	1
79	Process, Structure, and Properties of Electrospun Carbon Nanotube-Reinforced Nanocomposite Yarns. Research Letters in Materials Science, 2009, 2009, 1-5.	0.2	12
80	Antibacterial Properties of Nanosilver PLLA Fibrous Membranes. Journal of Nanomaterials, 2009, 2009, 1-5.	2.7	19
81	Preparation and biodegradation of electrospun PLLA/keratin nonwoven fibrous membrane. Polymer Degradation and Stability, 2009, 94, 1800-1807.	5.8	72
82	Post-spinning modification of electrospun nanofiber nanocomposite from Bombyx mori silk and carbon nanotubes. Polymer, 2009, 50, 1918-1924.	3.8	70
83	Characteristics of Elastomeric Nanofiber Membranes Produced by Electrospinning. Journal of Textile Engineering, 2007, 53, 137-142.	0.2	32
84	Regeneration of <l>Bombyx Mori</l> Silk by Electrospinning: A Comparative Study of the Biocompatibility of Natural and Synthetic Polymers for Tissue Engineering Applications. Journal of Biobased Materials and Bioenergy, 2007, 1, 274-281.	0.3	7
85	Carbon Nanotube ReinforcedBombyx moriSilk Nanofibers by the Electrospinning Process. Biomacromolecules, 2006, 7, 208-214.	5.4	218
86	Feature Article: Melt Electrospinning of Polymers: A Review. Polymer News, 2005, 30, 170-178.	0.1	46
87	Regeneration of Bombyx mori silk by electrospinning. Part 3: characterization of electrospun nonwoven mat. Polymer, 2005, 46, 1625-1634.	3.8	226
88	Carbon Nanotube Reinforced Bombyx mori Nanofiber Composites by the Electrospinning Process. Materials Research Society Symposia Proceedings, 2004, 844, 1.	0.1	2
89	Regeneration of Bombyx mori silk by electrospinning. Part 2. Process optimization and empirical modeling using response surface methodology. Polymer, 2004, 45, 3701-3708.	3.8	143
90	Melt-electrospinning part I: processing parameters and geometric properties. Polymer, 2004, 45, 7597-7603.	3.8	357

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91	Reinforcement and rupture behavior of carbon nanotubes–polymer nanofibers. Applied Physics Letters, 2004, 85, 1775-1777.	3.3	152
92	Regeneration of Bombyx mori silk by electrospinning—part 1: processing parameters and geometric properties. Polymer, 2003, 44, 5721-5727.	3.8	335
93	Electrospinning of Carbon Nanotube Reinforced Nanocomposite Fibrils and Yarns. Materials Research Society Symposia Proceedings, 2003, 791, 1.	0.1	8
94	Characterizing and Modeling Bending Properties of Multiaxial Warp Knitted Fabrics. Textile Reseach Journal, 1999, 69, 691-697.	2.2	30
95	Modeling Uniaxial Tensile Properties of Multiaxial Warp Knitted Fabrics. Textile Reseach Journal, 1998, 68, 828-834.	2.2	34
96	Analysis of multiaxial warp-knit preforms for composite reinforcement. Composites Science and Technology, 1996, 56, 253-260.	7.8	63
97	Toughened Complex Composite Structures. Materials and Processing Report, 1988, 2, 1-2.	0.0	0