

# Yong Lak Joo

## List of Publications by Year in Descending Order

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**Version:** 2024-04-27

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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.

84  
papers

2,526  
citations

26  
h-index

48  
g-index

93  
ext. papers

2,776  
ext. citations

5.1  
avg, IF

5.26  
L-index

#	Paper	IF	Citations
84	Critical roles of reduced graphene oxide in the electrochemical performance of silicon/reduced graphene oxide hybrids for high rate capable lithium-ion battery anodes. <i>Electrochimica Acta</i> , <b>2022</b> , 404, 139753	6.7	0
83	Study on structural geometry and dynamic property of [NH(CH)NH]CdCl crystal at phases I, II, and III.. <i>Scientific Reports</i> , <b>2022</b> , 12, 4251	4.9	0
82	Production of fast-charge Zn-based aqueous batteries via interfacial adsorption of ion-oligomer complexes.. <i>Nature Communications</i> , <b>2022</b> , 13, 2283	17.4	6
81	Physicochemical properties and structural dynamics of organic-inorganic hybrid [NH(CH)NH]ZnX (X = Cl and Br) crystals. <i>Scientific Reports</i> , <b>2021</b> , 11, 8408	4.9	5
80	Ultralight graphene/graphite hybrid fibers via entirely water-based processes and their application to density-controlled, high performance composites. <i>Carbon</i> , <b>2021</b> , 173, 880-890	10.4	3
79	Design principles in continuous inkjet electrohydrodynamic printing from discretized modeling and image analysis. <i>Journal of Manufacturing Processes</i> , <b>2020</b> , 54, 413-419	5	6
78	Polysulfide entrapment and retardation in gel electrolyte LiS batteries: experiments and modeling. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 4341-4353	13	14
77	Facile Production of Graphenic Microsheets and Their Assembly via Water-Based, Surfactant-Aided Mechanical Deformations. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 8944-8951	9.5	4
76	Three-dimensional line edge roughness in pre- and post-dry etch line and space patterns of block copolymer lithography. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 478-488	3.6	2
75	Structural dynamics of CHNH and PbBr in tetragonal and cubic phases of CHNHPbBr hybrid perovskite by nuclear magnetic resonance. <i>Scientific Reports</i> , <b>2020</b> , 10, 13140	4.9	5
74	Fabrication of Activated Carbon Fibers with Sheath-Core, Hollow, or Porous Structures via Conjugated Melt Spinning of Polyethylene Precursor. <i>Polymers</i> , <b>2020</b> , 12,	4.5	3
73	Non-enthalpic enhancement of spatial distribution and orientation of CNTs and GNRs in polymer nanofibers. <i>Polymer</i> , <b>2019</b> , 178, 121551	3.9	4
72	Control of formation of viscoelastic droplets and distribution of nano-inclusions in functional deposition for lithium-sulfur batteries. <i>Soft Matter</i> , <b>2019</b> , 15, 6485-6494	3.6	5
71	Metal Oxide Coatings on Carbon Electrodes with Large Mesopores for Deeply Charged Zinc Bromine Redox Flow Batteries. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A2245-A2254	3.9	2
70	Continuous Synthesis of Structurally Uniform Graphene Oxide Materials in a Model Taylor-Couette Flow Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 1167-1176	3.9	9
69	Direct addition of sulfur and nitrogen functional groups to graphite felt electrodes for improving all-vanadium redox flow battery performance. <i>Electrochimica Acta</i> , <b>2019</b> , 297, 905-915	6.7	28
68	Directly Deposited Binder-Free Sulfur Electrode Enabled by Air-Controlled Electrospray Process. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 678-686	6.1	2

67	Conductive Membrane Coatings for High-Rate Vanadium Redox Flow Batteries. <i>ACS Omega</i> , <b>2018</b> , 3, 1856-1863	3.9	4
66	Harvesting Interconductivity and Intraconductivity of Graphene Nanoribbons for a Directly Deposited, High-Rate Silicon-Based Anode for Li-Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 1106-1115	6.1	13
65	Simultaneous uniaxial extensional deformation and cylindrical confinement of block copolymers using non-equilibrium molecular dynamics. <i>Soft Matter</i> , <b>2018</b> , 14, 1389-1396	3.6	2
64	Discretized Modeling of Motionless Printing Based on Retarded Bending Motion and Deposition Control of Electrically Driven Jet. <i>3D Printing and Additive Manufacturing</i> , <b>2018</b> , 5, 248-256	4	4
63	Designing an ordered template of cylindrical arrays based on a simple flat plate confinement of block copolymers: a coarse-grained molecular dynamics study. <i>Soft Matter</i> , <b>2018</b> , 14, 597-613	3.6	2
62	Cation dynamics by H and C MAS NMR in hybrid organic-inorganic (CHCHNH)CuCl <sub>2</sub> . <i>RSC Advances</i> , <b>2018</b> , 8, 34110-34115	3.7	4
61	Effective Suppression of the Polysulfide Shuttle Effect in Lithium-Sulfur Batteries by Implementing rGO-PEDOT:PSS-Coated Separators via Air-Controlled Electro spray. <i>ACS Omega</i> , <b>2018</b> , 3, 16465-16471	3.9	23
60	Graphene Oxide Involved Air-Controlled Electro spray for Uniform, Fast, Instantly Dry, and Binder-Free Electrode Fabrication. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 9738-9746	9.5	30
59	Discretized modeling of beads-on-a-string morphology from electrically driven, conducting, and viscoelastic polymer jets. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 134306	2.5	7
58	Immersion Electro spinning as a New Method to Direct Fiber Deposition. <i>Macromolecular Materials and Engineering</i> , <b>2017</b> , 302, 1700148	3.9	6
57	Facile and scalable fabrication of highly loaded sulfur cathodes and lithium-sulfur pouch cells via air-controlled electro spray. <i>Materials Today Energy</i> , <b>2017</b> , 6, 255-263	7	12
56	Discretized modeling for centrifugal spinning of viscoelastic liquids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2017</b> , 247, 62-77	2.7	22
55	Polymer/ceramic co-continuous nanofiber membranes via room-curable organopolysilazane for improved lithium-ion battery performance. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 3657-3669	4.3	17
54	Structural phase transitions and ferroelastic properties of perovskite-type layered (CH <sub>3</sub> NH <sub>3</sub> ) <sub>2</sub> CdCl <sub>4</sub> . <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 215501	2.5	6
53	Controlling the Placement of Spherical Nanoparticles in Electrically Driven Polymer Jets and its Application to Li-Ion Battery Anodes. <i>Small</i> , <b>2016</b> , 12, 5543-5553	11	9
52	Facile, Water-Based, Direct Deposit Fabrication of Hybrid Silicon Assemblies for Scalable and High Performance Li-Ion Battery Anodes. <i>Electrochimica Acta</i> , <b>2016</b> , 222, 946-955	6.7	4
51	Effect of elongational flow on immiscible polymer blend/nanoparticle composites: a molecular dynamics study. <i>Soft Matter</i> , <b>2016</b> , 12, 6132-40	3.6	4
50	Graphene Folding in Si Rich Carbon Nanofibers for Highly Stable, High Capacity Li-Ion Battery Anodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 5243-50	9.5	35

49	A general approach to fabricate free-standing metal sulfide@carbon nanofiber networks as lithium ion battery anodes. <i>Chemical Communications</i> , <b>2016</b> , 52, 1501-4	5.8	76
48	Tunable Large Mesopores in Carbon Nanofiber Interlayers for High-Rate Lithium Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, A2745-A2756	3.9	19
47	Thermal restacking of graphene structure to improve lithium-air battery cyclability. <i>Electrochemistry Communications</i> , <b>2016</b> , 70, 43-46	5.1	1
46	The critical contribution of unzipped graphene nanoribbons to scalable silicon-carbon fiber anodes in rechargeable Li-ion batteries. <i>Nano Energy</i> , <b>2015</b> , 16, 446-457	17.1	26
45	Surface hydro-properties of electrospun fiber mats. <i>Fibers and Polymers</i> , <b>2015</b> , 16, 1578-1586	2	10
44	Enhanced Dispersion and Stability of Petroleum Coke Water Slurries via Triblock Copolymer and Xanthan Gum: Rheological and Adsorption Studies. <i>Langmuir</i> , <b>2015</b> , 31, 8989-97	4	11
43	Synergy Between Metal Oxide Nanofibers and Graphene Nanoribbons for Rechargeable Lithium-Oxygen Battery Cathodes. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1401412	21.8	38
42	The jetting behavior of viscoelastic Boger fluids during centrifugal spinning. <i>Physics of Fluids</i> , <b>2015</b> , 27, 123101	4.4	20
41	Facile Synthesis of Porous Silicon Nanofibers by Magnesium Reduction for Application in Lithium Ion Batteries. <i>Nanoscale Research Letters</i> , <b>2015</b> , 10, 424	5	17
40	Silicon-Rich Carbon Hybrid Nanofibers from Water-Based Spinning: The Synergy Between Silicon and Carbon for Li-ion Battery Anode Application. <i>ChemElectroChem</i> , <b>2014</b> , 1, 220-226	4.3	20
39	Tailoring nanorod alignment in a polymer matrix by elongational flow under confinement: simulation, experiments, and surface enhanced Raman scattering application. <i>Soft Matter</i> , <b>2014</b> , 10, 3494-505	2.6	20
38	Formation of interconnected morphologies via nanorod inclusion in the confined assembly of symmetric block copolymers. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 8865-71	3.6	6
37	Role of Nanoparticle Selectivity in the Symmetry Breaking of Cylindrically Confined Block Copolymers. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 7653-7668	3.8	11
36	Controlling the dispersion and orientation of nanorods in polymer melt under shear: coarse-grained molecular dynamics simulation study. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 124903	3.9	14
35	Further improvement of air filtration efficiency of cellulose filters coated with nanofibers via inclusion of electrostatically active nanoparticles. <i>Polymer</i> , <b>2013</b> , 54, 2364-2372	3.9	72
34	Dynamics of micelle-nanoparticle systems undergoing shear: a coarse-grained molecular dynamics approach. <i>Soft Matter</i> , <b>2013</b> , 9, 10294	3.6	4
33	Effect of flow structure at the onset of instability on barium sulfate precipitation in Taylor-Couette crystallizers. <i>Journal of Crystal Growth</i> , <b>2013</b> , 373, 20-31	1.6	15
32	Mechanical properties and biodegradability of electrospun soy protein Isolate/PVA hybrid nanofibers. <i>Polymer Degradation and Stability</i> , <b>2012</b> , 97, 747-754	4.7	57

31	Cylindrically confined assembly of asymmetrical block copolymers with and without nanoparticles. <i>Soft Matter</i> , <b>2012</b> , 8, 1845-1857	3.6	24
30	Metal nanofibers with highly tunable electrical and magnetic properties via highly loaded water-based electrospinning. <i>Small</i> , <b>2012</b> , 8, 1510-4	11	29
29	Photocatalytic self-detoxification by coaxially electrospun fiber containing titanium dioxide nanoparticles. <i>Textile Reseach Journal</i> , <b>2012</b> , 82, 1920-1927	1.7	10
28	Discretized modeling of electrically driven viscoelastic jets in the initial stage of electrospinning. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 094315	2.5	20
27	Structural studies of electrospun nylon 6 fibers from solution and melt. <i>Polymer</i> , <b>2011</b> , 52, 4600-4609	3.9	48
26	Electrohydrodynamic quenching in polymer melt electrospinning. <i>Physics of Fluids</i> , <b>2011</b> , 23, 073102	4.4	42
25	Effect of annealing on the crystallization and properties of electrospun polylactic acid and nylon 6 fibers. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 120, 752-758	2.9	26
24	Properties of PVA/HfO <sub>2</sub> Hybrid Electrospun Fibers and Calcined Inorganic HfO <sub>2</sub> Fibers. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 5535-5544	3.8	18
23	Effect of shear on nanoparticle dispersion in polymer melts: A coarse-grained molecular dynamics study. <i>Journal of Chemical Physics</i> , <b>2010</b> , 132, 024901	3.9	41
22	Electrospun Hybrid Soy Protein/PVA Fibers. <i>Macromolecular Materials and Engineering</i> , <b>2010</b> , 295, 763-773	3.9	50
21	Nanofibers from gas-assisted polymer melt electrospinning. <i>Polymer</i> , <b>2010</b> , 51, 4140-4144	3.9	140
20	Confined assembly of asymmetric block-copolymer nanofibers via multi-axial jet electrospinning. <i>Small</i> , <b>2009</b> , 5, 2323-32	11	87
19	Axisymmetric instabilities in electrospinning of highly conducting, viscoelastic polymer solutions. <i>Physics of Fluids</i> , <b>2009</b> , 21, 103101	4.4	39
18	Coarse-grained molecular dynamics study of block copolymer/nanoparticle composites under elongational flow. <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 214904	3.9	16
17	Coarse-grained molecular dynamics simulation on the placement of nanoparticles within symmetric diblock copolymers under shear flow. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 164909	3.9	33
16	Modeling of Crystallizing Polymer Melts in Electrospinning. <i>AIP Conference Proceedings</i> , <b>2008</b> ,	0	3
15	Using External Fields to Control the Location of Nanoparticles in Polymers: Simulations and Experiments. <i>AIP Conference Proceedings</i> , <b>2008</b> ,	0	1
14	Controlling nanoparticle location via confined assembly in electrospun block copolymer nanofibers. <i>Small</i> , <b>2008</b> , 4, 2067-73	11	72

13	Properties of high-impact polystyrene/organoclay nanocomposites synthesized via in situ polymerization. <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 110, 1441-1450	2.9	17
12	Modeling of non-isothermal polymer jets in melt electrospinning. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2008</b> , 153, 95-108	2.7	70
11	Axisymmetric instabilities of electrically driven viscoelastic jets. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2008</b> , 153, 130-148	2.7	61
10	Electrospinning of viscoelastic Boger fluids: Modeling and experiments. <i>Physics of Fluids</i> , <b>2006</b> , 18, 053102	4.4	116
9	Nanofibers from Polylactic Acid Nanocomposites: Effect of Nanoclays on Molecular Structures. <i>ACS Symposium Series</i> , <b>2006</b> , 217-230	0.4	8
8	Self-Assembled Structures in Electrospun Poly(styrene-block-isoprene) Fibers. <i>Macromolecules</i> , <b>2006</b> , 39, 5453-5457	5.5	64
7	Structural studies of electrospun cellulose nanofibers. <i>Polymer</i> , <b>2006</b> , 47, 5097-5107	3.9	262
6	The thermal effects on electrospinning of polylactic acid melts. <i>Polymer</i> , <b>2006</b> , 47, 7497-7505	3.9	306
5	Fabrication of SiO <sub>2</sub> -ZrO <sub>2</sub> composite fiber mats via electrospinning. <i>Journal of Porous Materials</i> , <b>2006</b> , 13, 325-330	2.4	24
4	Solid-state compaction and drawing of nascent reactor powders of ultra-high-molecular-weight polyethylene. <i>Journal of Applied Polymer Science</i> , <b>2005</b> , 98, 718-730	2.9	21
3	Preparation of submicron-scale, electrospun cellulose fibers via direct dissolution. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2005</b> , 43, 1673-1683	2.6	116
2	Viscoelastic Poiseuille flow through a curved channel: A new elastic instability. <i>Physics of Fluids A, Fluid Dynamics</i> , <b>1991</b> , 3, 2043-2046		20
1	Mitigation and In Situ Probing of Volume Expansion in Silicon/Graphene Hybrid Anodes for High-Capacity, High-Rate-Capable Lithium-Ion Batteries. <i>Advanced Energy and Sustainability Research</i> , 2100125	1.6	3