

# Jonghwi Lee

## List of Publications by Citations

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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.

81  
papers

1,524  
citations

23  
h-index

36  
g-index

86  
ext. papers

1,711  
ext. citations

5.2  
avg, IF

5.14  
L-index

#	Paper	IF	Citations
81	Drug nano- and microparticles processed into solid dosage forms: physical properties. <i>Journal of Pharmaceutical Sciences</i> , <b>2003</b> , 92, 2057-68	3.9	156
80	Critical freezing rate in freeze drying nanocrystal dispersions. <i>Journal of Controlled Release</i> , <b>2006</b> , 111, 185-92	11.7	109
79	Electrosprayed polymer particles: Effect of the solvent properties. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 114, 430-437	2.9	65
78	Mechanism of freeze-drying drug nanosuspensions. <i>International Journal of Pharmaceutics</i> , <b>2012</b> , 437, 42-50	6.5	61
77	2D reentrant auxetic structures of graphene/CNT networks for omnidirectionally stretchable supercapacitors. <i>Nanoscale</i> , <b>2017</b> , 9, 13272-13280	7.7	55
76	Structural implications of polyphenolic antioxidants. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2016</b> , 35, 1-7	6.3	52
75	Reversibly Stretchable, Optically Transparent Radio-Frequency Antennas Based on Wavy Ag Nanowire Networks. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 2582-90	9.5	52
74	A bio-inspired, microchanneled hydrogel with controlled spacing of cell adhesion ligands regulates 3D spatial organization of cells and tissue. <i>Biomaterials</i> , <b>2015</b> , 58, 26-34	15.6	47
73	Fabrication of 3D honeycomb-like porous polyurethane-functionalized reduced graphene oxide for detection of dopamine. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 86, 122-128	11.8	47
72	Antioxidant and ion-induced gelation functions of pectins enabled by polyphenol conjugation. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 101, 776-782	7.9	44
71	Stretchable Lithium-Ion Battery Based on Re-entrant Micro-honeycomb Electrodes and Cross-Linked Gel Electrolyte. <i>ACS Nano</i> , <b>2020</b> , 14, 3660-3668	16.7	44
70	Fracture behavior of glass bead filled epoxies: Cleaning process of glass beads. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 79, 1371-1383	2.9	36
69	Surface tailored PS/TiO <sub>2</sub> composite nanofiber membrane for copper removal from water. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 469, 31-37	9.3	34
68	Floating compression of Ag nanowire networks for effective strain release of stretchable transparent electrodes. <i>Nanoscale</i> , <b>2015</b> , 7, 16434-41	7.7	33
67	Superporous thermo-responsive hydrogels by combination of cellulose fibers and aligned micropores. <i>Carbohydrate Polymers</i> , <b>2014</b> , 105, 184-92	10.3	31
66	Biaxial Stretchability and Transparency of Ag Nanowire 2D Mass-Spring Networks Prepared by Floating Compression. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 10865-10873	9.5	30
65	Macroporous PVDF/TiO <sub>2</sub> membranes with three-dimensionally interconnected pore structures produced by directional melt crystallization. <i>Chemical Engineering Journal</i> , <b>2016</b> , 301, 158-165	14.7	30

64	Sonication-triggered zero-order release by uncorking core-shell nanofibers. <i>Chemical Engineering Journal</i> , <b>2016</b> , 288, 1-8	14.7	30
63	Membranes with through-thickness porosity prepared by unidirectional freezing. <i>Polymer</i> , <b>2010</b> , 51, 6258-6267	3.9	29
62	Intrinsic adhesion properties of poly(vinyl pyrrolidone) to pharmaceutical materials: humidity effect. <i>Macromolecular Bioscience</i> , <b>2005</b> , 5, 1085-93	5.5	29
61	Bioinspired tuning of hydrogel permeability-rigidity dependency for 3D cell culture. <i>Scientific Reports</i> , <b>2015</b> , 5, 8948	4.9	27
60	Recently developed applications for natural hydrophilic polymers. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2016</b> , 40, 16-22	6.3	26
59	In-situ nanofabrication via electrohydrodynamic jetting of countercharged nozzles. <i>Polymer Bulletin</i> , <b>2008</b> , 61, 521-528	2.4	23
58	Large-area PVDF membranes with through-thickness porosity prepared by uni-directional freezing. <i>Macromolecular Research</i> , <b>2013</b> , 21, 194-201	1.9	19
57	Micro-mechanical deformation mechanisms in the fracture of hybrid-particulate composites based on glass beads, rubber and epoxies. <i>Polymer Engineering and Science</i> , <b>2000</b> , 40, 2457-2470	2.3	19
56	Functional hyaluronic acid conjugates based on natural polyphenols exhibit antioxidant, adhesive, gelation, and self-healing properties. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2017</b> , 54, 44-51	6.3	18
55	Confined crystallization of drug in directionally freeze-dried water-soluble template. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2015</b> , 21, 1183-1190	6.3	18
54	PEG/PLA core/shell particles from coaxial electrohydrodynamic spray drying. <i>Macromolecular Research</i> , <b>2011</b> , 19, 815-821	1.9	17
53	3D Cocontinuous Composites of Hydrophilic and Hydrophobic Soft Materials: High Modulus and Fast Actuation Time. <i>ACS Macro Letters</i> , <b>2017</b> , 6, 1119-1123	6.6	16
52	One-Step Immobilization of Protein-Encapsulated Core/Shell Particles onto Nanofibers. <i>Macromolecular Materials and Engineering</i> , <b>2010</b> , 295, 544-550	3.9	16
51	A nano-frost array technique to prepare nanoporous PVDF membranes. <i>Nanoscale</i> , <b>2014</b> , 6, 8642-8	7.7	15
50	Freezing/thawing processing of PVA in the preparation of structured microspheres for protein drug delivery. <i>Macromolecular Research</i> , <b>2011</b> , 19, 130-136	1.9	15
49	Interconnection of electrospun nanofibers via a post co-solvent treatment and its open pore size effect on pressure-retarded osmosis performance. <i>Macromolecular Research</i> , <b>2016</b> , 24, 314-322	1.9	14
48	Polymer-directed crystallization of atorvastatin. <i>Journal of Pharmaceutical Sciences</i> , <b>2012</b> , 101, 2941-51	3.9	14
47	Strategies for Fabrication of Hydrophobic Porous Materials Based on Polydimethylsiloxane for Oil-Water Separation. <i>Macromolecular Research</i> , <b>2019</b> , 27, 109-114	1.9	14

46	Pectin Micro- and Nano-capsules of Retinyl Palmitate as Cosmeceutical Carriers for Stabilized Skin Transport. <i>Korean Journal of Physiology and Pharmacology</i> , <b>2015</b> , 19, 59-64	1.8	13
45	Glacier moraine formation-mimicking colloidal particle assembly in microchanneled, bioactive hydrogel for guided vascular network construction. <i>Advanced Healthcare Materials</i> , <b>2015</b> , 4, 195-201	10.1	13
44	Nanoscale Bumps and Dents on Nanofibers Enabling Sonication-Responsive Wetting and Improved Moisture Collection. <i>Macromolecular Materials and Engineering</i> , <b>2015</b> , 300, 1108-1115	3.9	13
43	Active Antioxidizing Particles for On-Demand Pressure-Driven Molecular Release. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 35642-35650	9.5	12
42	Blood-clotting mimetic behavior of biocompatible microgels. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 63, 117-123	6.3	11
41	Supramolecular hydrogels instantaneously formed by inclusion complexation between amphiphilic oligomers and Cyclodextrins. <i>Macromolecular Research</i> , <b>2009</b> , 17, 156-162	1.9	11
40	Electrothermal soft manipulator enabling safe transport and handling of thin cell/tissue sheets and bioelectronic devices. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	11
39	Directional crystallization of dioxane in the presence of PVDF producing porous membranes. <i>Journal of Crystal Growth</i> , <b>2013</b> , 373, 45-49	1.6	10
38	Porous polyurethane films having biomimetic ordered open pores: Indentation properties. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2016</b> , 33, 362-365	6.3	8
37	Anisometric nanocomposite hydrogels with temperature responsive compartments. <i>Soft Matter</i> , <b>2013</b> , 9, 472-479	3.6	8
36	Preparation of Polymer/Drug Nano- and Micro-Particles by Electrospraying. <i>Macromolecular Symposia</i> , <b>2007</b> , 249-250, 116-119	0.8	8
35	Structural heterogeneity of pharmaceutical compacts probed by micro-indentation. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2008</b> , 19, 1981-90	4.5	8
34	Applications Using the Metal Affinity of Polyphenols with Mussel-Inspired Chemistry. <i>Macromolecular Research</i> , <b>2018</b> , 26, 93-99	1.9	7
33	Alternating Encapsulation of Water-Soluble Components in a One-Dimensional Structure. <i>Macromolecular Materials and Engineering</i> , <b>2010</b> , 295, 22-25	3.9	7
32	Nanosopic friction behavior of pharmaceutical materials. <i>International Journal of Pharmaceutics</i> , <b>2007</b> , 340, 191-7	6.5	7
31	Cocrystal Formation via Resorcinol-Urea Interactions: Naringenin and Carbamazepine. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 3807-3814	3.5	6
30	Stimulus-Responsive Anti-Oxidizing Drug Crystals and their Ecological Implication. <i>Small</i> , <b>2019</b> , 15, e1900765	6	6
29	Morphology control of eprosartan crystals via polymer-directed crystallization. <i>Journal of Pharmaceutical Investigation</i> , <b>2015</b> , 45, 367-374	6.3	6

28	Mimicking permafrost formation for the preparation of porous polymer membranes. <i>Polymer</i> , <b>2015</b> , 74, 176-181	3.9	6
27	Enhanced Adhesion of Polydimethylsiloxane Using an Interlocked Finger Structure. <i>Macromolecular Rapid Communications</i> , <b>2018</b> , 39, e1800106	4.8	6
26	Fractionation of graphene oxides by size-selective adhesion with spherical particles. <i>Macromolecular Research</i> , <b>2016</b> , 24, 1098-1104	1.9	5
25	Spatial Organization of Superparamagnetic Iron Oxide Nanoparticles in/on Nano/Microsized Carriers Modulates the Magnetic Resonance Signal. <i>Langmuir</i> , <b>2018</b> , 34, 15276-15282	4	5
24	Mimicking Neuromuscular Junctions Using Controlled Crystallization of Solvents: A Surface and Interface Engineering Technique for Polymers. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 2600-2610	3.5	4
23	Hierarchically structured microgels of SPIONs, nanofibers, and alginate for copper ion removal. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 77, 303-308	6.3	4
22	Flexible free-standing composite films having 3D continuous structures of hollow graphene ellipsoids. <i>Macromolecular Research</i> , <b>2015</b> , 23, 552-558	1.9	4
21	Graphene-reinforced collagen hydrogels with through-thickness porosity. <i>Macromolecular Research</i> , <b>2014</b> , 22, 813-815	1.9	4
20	Is a pyrogallol group better than a catechol group for promoting adhesion between polymers and metals?. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 73, 58-61	6.3	3
19	Hydrogels of polyacrylic acid crosslinked by atorvastatin. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2020</b> , 85, 81-86	6.3	3
18	Micro- and nano-porous surface patterns prepared by surface-confined directional melt crystallization of solvent. <i>Journal of Crystal Growth</i> , <b>2017</b> , 469, 184-190	1.6	3
17	Incomparable hardness and modulus of biomimetic porous polyurethane films prepared by directional melt crystallization of a solvent. <i>Journal of Crystal Growth</i> , <b>2017</b> , 469, 106-113	1.6	3
16	Janus hydrogel particles and their aggregation behavior. <i>Macromolecular Research</i> , <b>2012</b> , 20, 899-901	1.9	3
15	Anisotropic mechanical responses of composites having water microchannels. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 60, 498-504	6.3	3
14	Application of block copolymeric surface modifier with crosslinkable units for montmorillonite nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 127, 690-698	2.9	2
13	Regioselective substitution of 2-isocyanatoethylmethacrylate onto cellulose. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 128, n/a-n/a	2.9	2
12	Pore size reduction in directional crystallization processing of porous polymeric membranes. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2013</b> , 13, 2276-83	1.3	2
11	Chitooligosaccharide Copolymers: Synthesis and Aqueous Self-assembly. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2010</b> , 47, 580-587	2.2	2

10	Polymer-Directed Crystallization of Luteolin, Quercetin, and Myricetin. <i>Macromolecular Research</i> , <b>2020</b> , 28, 1276-1281	1.9	2
9	In-situ crystallization of sildenafil during ionic crosslinking of alginate granules. <i>Korean Journal of Chemical Engineering</i> , <b>2020</b> , 37, 1726-1731	2.8	2
8	In Situ Incorporation of Pores and Nanoparticles into Polymer Surfaces Using Melt Crystallization. <i>Macromolecular Rapid Communications</i> , <b>2019</b> , 40, e1900131	4.8	1
7	Specialized channels to control the kinetics of ion release in hydrophobic resin. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 3136-3143	4.3	1
6	Temperature-Responsive On-Off Control over Water Evaporation Achieved via Sweat-Gland-Mimetic Composites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 4442-4449	9.5	1
5	Fast and opposite temperature responsivity in release behavior of cocontinuous hydrogel composites. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2021</b> , 104, 514-514	6.3	1
4	Fracture behavior of glass bead filled epoxies: Cleaning process of glass beads <b>2001</b> , 79, 1371		1
3	Particle size reduction of water-insoluble drug in water-assisted extrusion of hydroxypropyl methyl cellulose. <i>Macromolecular Research</i> , <b>2011</b> , 19, 38-43	1.9	
2	Water-pumping and purifying hydrogels driven by diurnal temperature variation. <i>Applied Materials Today</i> , <b>2022</b> , 27, 101404	6.6	
1	Outstanding Degradation Resistance of Hyaluronic Acid Achieved by Flavonoid Conjugations: Rheological Behavior. <i>Macromolecular Research</i> , <b>2020</b> , 28, 351-355	1.9	