

Jonghwi Lee

List of Publications by Year in Descending Order

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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	Water-pumping and purifying hydrogels driven by diurnal temperature variation. <i>Applied Materials Today</i> , 2022 , 27, 101404	6.6	
80	Temperature-Responsive On-Off Control over Water Evaporation Achieved via Sweat-Gland-Mimetic Composites. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 4442-4449	9.5	1
79	Fast and opposite temperature responsivity in release behavior of cocontinuous hydrogel composites. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 104, 514-514	6.3	1
78	Hydrogels of polyacrylic acid crosslinked by atorvastatin. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 85, 81-86	6.3	3
77	Stretchable Lithium-Ion Battery Based on Re-entrant Micro-honeycomb Electrodes and Cross-Linked Gel Electrolyte. <i>ACS Nano</i> , 2020 , 14, 3660-3668	16.7	44
76	Polymer-Directed Crystallization of Luteolin, Quercetin, and Myricetin. <i>Macromolecular Research</i> , 2020 , 28, 1276-1281	1.9	2
75	Outstanding Degradation Resistance of Hyaluronic Acid Achieved by Flavonoid Conjugations: Rheological Behavior. <i>Macromolecular Research</i> , 2020 , 28, 351-355	1.9	
74	Electrothermal soft manipulator enabling safe transport and handling of thin cell/tissue sheets and bioelectronic devices. <i>Science Advances</i> , 2020 , 6,	14.3	11
73	In-situ crystallization of sildenafil during ionic crosslinking of alginate granules. <i>Korean Journal of Chemical Engineering</i> , 2020 , 37, 1726-1731	2.8	2
72	Cocrystal Formation via Resorcinol-Urea Interactions: Naringenin and Carbamazepine. <i>Crystal Growth and Design</i> , 2019 , 19, 3807-3814	3.5	6
71	In Situ Incorporation of Pores and Nanoparticles into Polymer Surfaces Using Melt Crystallization. <i>Macromolecular Rapid Communications</i> , 2019 , 40, e1900131	4.8	1
70	Hierarchically structured microgels of SPIONs, nanofibers, and alginate for copper ion removal. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 77, 303-308	6.3	4
69	Is a pyrogallol group better than a catechol group for promoting adhesion between polymers and metals?. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 73, 58-61	6.3	3
68	Stimulus-Responsive Anti-Oxidizing Drug Crystals and their Ecological Implication. <i>Small</i> , 2019 , 15, e1900765	10.7	6
67	Strategies for Fabrication of Hydrophobic Porous Materials Based on Polydimethylsiloxane for Oil-Water Separation. <i>Macromolecular Research</i> , 2019 , 27, 109-114	1.9	14
66	Applications Using the Metal Affinity of Polyphenols with Mussel-Inspired Chemistry. <i>Macromolecular Research</i> , 2018 , 26, 93-99	1.9	7
65	Blood-clotting mimetic behavior of biocompatible microgels. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 63, 117-123	6.3	11

64	Anisotropic mechanical responses of composites having water microchannels. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 60, 498-504	6.3	3
63	Spatial Organization of Superparamagnetic Iron Oxide Nanoparticles in/on Nano/Microsized Carriers Modulates the Magnetic Resonance Signal. <i>Langmuir</i> , 2018 , 34, 15276-15282	4	5
62	Enhanced Adhesion of Polydimethylsiloxane Using an Interlocked Finger Structure. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800106	4.8	6
61	Functional hyaluronic acid conjugates based on natural polyphenols exhibit antioxidant, adhesive, gelation, and self-healing properties. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 54, 44-51	6.3	18
60	Mimicking Neuromuscular Junctions Using Controlled Crystallization of Solvents: A Surface and Interface Engineering Technique for Polymers. <i>Crystal Growth and Design</i> , 2017 , 17, 2600-2610	3.5	4
59	Antioxidant and ion-induced gelation functions of pectins enabled by polyphenol conjugation. <i>International Journal of Biological Macromolecules</i> , 2017 , 101, 776-782	7.9	44
58	Biaxial Stretchability and Transparency of Ag Nanowire 2D Mass-Spring Networks Prepared by Floating Compression. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 10865-10873	9.5	30
57	Active Antioxidizing Particles for On-Demand Pressure-Driven Molecular Release. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 35642-35650	9.5	12
56	3D Cocontinuous Composites of Hydrophilic and Hydrophobic Soft Materials: High Modulus and Fast Actuation Time. <i>ACS Macro Letters</i> , 2017 , 6, 1119-1123	6.6	16
55	2D reentrant auxetic structures of graphene/CNT networks for omnidirectionally stretchable supercapacitors. <i>Nanoscale</i> , 2017 , 9, 13272-13280	7.7	55
54	Micro- and nano-porous surface patterns prepared by surface-confined directional melt crystallization of solvent. <i>Journal of Crystal Growth</i> , 2017 , 469, 184-190	1.6	3
53	Incomparable hardness and modulus of biomimetic porous polyurethane films prepared by directional melt crystallization of a solvent. <i>Journal of Crystal Growth</i> , 2017 , 469, 106-113	1.6	3
52	Fractionation of graphene oxides by size-selective adhesion with spherical particles. <i>Macromolecular Research</i> , 2016 , 24, 1098-1104	1.9	5
51	Recently developed applications for natural hydrophilic polymers. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 40, 16-22	6.3	26
50	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> , 2016 , 24, 314-322	1.9	14
49	Macroporous PVDF/TiO ₂ membranes with three-dimensionally interconnected pore structures produced by directional melt crystallization. <i>Chemical Engineering Journal</i> , 2016 , 301, 158-165	14.7	30
48	Fabrication of 3D honeycomb-like porous polyurethane-functionalized reduced graphene oxide for detection of dopamine. <i>Biosensors and Bioelectronics</i> , 2016 , 86, 122-128	11.8	47
47	Structural implications of polyphenolic antioxidants. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 35, 1-7	6.3	52

46	Sonication-triggered zero-order release by uncorking core-shell nanofibers. <i>Chemical Engineering Journal</i> , 2016 , 288, 1-8	14.7	30
45	Reversibly Stretchable, Optically Transparent Radio-Frequency Antennas Based on Wavy Ag Nanowire Networks. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2582-90	9.5	52
44	Surface tailored PS/TiO ₂ composite nanofiber membrane for copper removal from water. <i>Journal of Colloid and Interface Science</i> , 2016 , 469, 31-37	9.3	34
43	Porous polyurethane films having biomimetic ordered open pores: Indentation properties. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 33, 362-365	6.3	8
42	Pectin Micro- and Nano-capsules of Retinyl Palmitate as Cosmeceutical Carriers for Stabilized Skin Transport. <i>Korean Journal of Physiology and Pharmacology</i> , 2015 , 19, 59-64	1.8	13
41	Flexible free-standing composite films having 3D continuous structures of hollow graphene ellipsoids. <i>Macromolecular Research</i> , 2015 , 23, 552-558	1.9	4
40	A bio-inspired, microchanneled hydrogel with controlled spacing of cell adhesion ligands regulates 3D spatial organization of cells and tissue. <i>Biomaterials</i> , 2015 , 58, 26-34	15.6	47
39	Morphology control of eprosartan crystals via polymer-directed crystallization. <i>Journal of Pharmaceutical Investigation</i> , 2015 , 45, 367-374	6.3	6
38	Floating compression of Ag nanowire networks for effective strain release of stretchable transparent electrodes. <i>Nanoscale</i> , 2015 , 7, 16434-41	7.7	33
37	Mimicking permafrost formation for the preparation of porous polymer membranes. <i>Polymer</i> , 2015 , 74, 176-181	3.9	6
36	Glacier moraine formation-mimicking colloidal particle assembly in microchanneled, bioactive hydrogel for guided vascular network construction. <i>Advanced Healthcare Materials</i> , 2015 , 4, 195-201	10.1	13
35	Confined crystallization of drug in directionally freeze-dried water-soluble template. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 21, 1183-1190	6.3	18
34	Nanoscale Bumps and Dents on Nanofibers Enabling Sonication-Responsive Wetting and Improved Moisture Collection. <i>Macromolecular Materials and Engineering</i> , 2015 , 300, 1108-1115	3.9	13
33	Bioinspired tuning of hydrogel permeability-rigidity dependency for 3D cell culture. <i>Scientific Reports</i> , 2015 , 5, 8948	4.9	27
32	Superporous thermo-responsive hydrogels by combination of cellulose fibers and aligned micropores. <i>Carbohydrate Polymers</i> , 2014 , 105, 184-92	10.3	31
31	A nano-frost array technique to prepare nanoporous PVDF membranes. <i>Nanoscale</i> , 2014 , 6, 8642-8	7.7	15
30	Graphene-reinforced collagen hydrogels with through-thickness porosity. <i>Macromolecular Research</i> , 2014 , 22, 813-815	1.9	4
29	Application of block copolymeric surface modifier with crosslinkable units for montmorillonite nanocomposites. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 690-698	2.9	2

28	Large-area PVDF membranes with through-thickness porosity prepared by uni-directional freezing. <i>Macromolecular Research</i> , 2013 , 21, 194-201	1.9	19
27	Anisometric nanocomposite hydrogels with temperature responsive compartments. <i>Soft Matter</i> , 2013 , 9, 472-479	3.6	8
26	Directional crystallization of dioxane in the presence of PVDF producing porous membranes. <i>Journal of Crystal Growth</i> , 2013 , 373, 45-49	1.6	10
25	Pore size reduction in directional crystallization processing of porous polymeric membranes. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 2276-83	1.3	2
24	Mechanism of freeze-drying drug nanosuspensions. <i>International Journal of Pharmaceutics</i> , 2012 , 437, 42-50	6.5	61
23	Janus hydrogel particles and their aggregation behavior. <i>Macromolecular Research</i> , 2012 , 20, 899-901	1.9	3
22	Regioselective substitution of 2-isocyanatoethylmethacrylate onto cellulose. <i>Journal of Applied Polymer Science</i> , 2012 , 128, n/a-n/a	2.9	2
21	Polymer-directed crystallization of atorvastatin. <i>Journal of Pharmaceutical Sciences</i> , 2012 , 101, 2941-51	3.9	14
20	Specialized channels to control the kinetics of ion release in hydrophobic resin. <i>Journal of Materials Science</i> , 2011 , 46, 3136-3143	4.3	1
19	Particle size reduction of water-insoluble drug in water-assisted extrusion of hydroxypropyl methyl cellulose. <i>Macromolecular Research</i> , 2011 , 19, 38-43	1.9	
18	Freezing/thawing processing of PVA in the preparation of structured microspheres for protein drug delivery. <i>Macromolecular Research</i> , 2011 , 19, 130-136	1.9	15
17	PEG/PLA core/shell particles from coaxial electrohydrodynamic spray drying. <i>Macromolecular Research</i> , 2011 , 19, 815-821	1.9	17
16	Chitooligosaccharide Copolymers: Synthesis and Aqueous Self-assembly. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2010 , 47, 580-587	2.2	2
15	Alternating Encapsulation of Water-Soluble Components in a One-Dimensional Structure. <i>Macromolecular Materials and Engineering</i> , 2010 , 295, 22-25	3.9	7
14	One-Step Immobilization of Protein-Encapsulated Core/Shell Particles onto Nanofibers. <i>Macromolecular Materials and Engineering</i> , 2010 , 295, 544-550	3.9	16
13	Membranes with through-thickness porosity prepared by unidirectional freezing. <i>Polymer</i> , 2010 , 51, 6258-6267	3.6	29
12	Electrosprayed polymer particles: Effect of the solvent properties. <i>Journal of Applied Polymer Science</i> , 2009 , 114, 430-437	2.9	65
11	Supramolecular hydrogels instantaneously formed by inclusion complexation between amphiphilic oligomers and β -cyclodextrins. <i>Macromolecular Research</i> , 2009 , 17, 156-162	1.9	11

10	Structural heterogeneity of pharmaceutical compacts probed by micro-indentation. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 1981-90	4.5	8
9	In-situ nanofabrication via electrohydrodynamic jetting of countercharged nozzles. <i>Polymer Bulletin</i> , 2008 , 61, 521-528	2.4	23
8	Preparation of Polymer/Drug Nano- and Micro-Particles by Electrospraying. <i>Macromolecular Symposia</i> , 2007 , 249-250, 116-119	0.8	8
7	Nanosopic friction behavior of pharmaceutical materials. <i>International Journal of Pharmaceutics</i> , 2007 , 340, 191-7	6.5	7
6	Critical freezing rate in freeze drying nanocrystal dispersions. <i>Journal of Controlled Release</i> , 2006 , 111, 185-92	11.7	109
5	Intrinsic adhesion properties of poly(vinyl pyrrolidone) to pharmaceutical materials: humidity effect. <i>Macromolecular Bioscience</i> , 2005 , 5, 1085-93	5.5	29
4	Drug nano- and microparticles processed into solid dosage forms: physical properties. <i>Journal of Pharmaceutical Sciences</i> , 2003 , 92, 2057-68	3.9	156
3	Fracture behavior of glass bead filled epoxies: Cleaning process of glass beads. <i>Journal of Applied Polymer Science</i> , 2001 , 79, 1371-1383	2.9	36
2	Fracture behavior of glass bead filled epoxies: Cleaning process of glass beads 2001 , 79, 1371		1
1	Micro-mechanical deformation mechanisms in the fracture of hybrid-particulate composites based on glass beads, rubber and epoxies. <i>Polymer Engineering and Science</i> , 2000 , 40, 2457-2470	2.3	19