

Won Bo Lee

List of Publications by Year in descending order

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138
papers

4,152
citations

147726

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133188

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140
docs citations

140
times ranked

5612
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly conductive, stretchable and biocompatible Ag@Au core-shell nanowire composite for wearable and implantable bioelectronics. <i>Nature Nanotechnology</i> , 2018, 13, 1048-1056.	15.6	695
2	Molecular dynamics simulation study of nonconcatenated ring polymers in a melt. I. Statics. <i>Journal of Chemical Physics</i> , 2011, 134, 204904.	1.2	284
3	Optoelectronic Synapse Based on IGZO-Alkylated Graphene Oxide Hybrid Structure. <i>Advanced Functional Materials</i> , 2018, 28, 1804397.	7.8	280
4	Molecular dynamics simulation study of nonconcatenated ring polymers in a melt. II. Dynamics. <i>Journal of Chemical Physics</i> , 2011, 134, 204905.	1.2	210
5	High-Resolution Spin-Coating Patterning of Perovskite Thin Films for a Multiplexed Image Sensor Array. <i>Advanced Materials</i> , 2017, 29, 1702902.	11.1	148
6	Enhancing p-Type Thermoelectric Performances of Polycrystalline SnSe via Tuning Phase Transition Temperature. <i>Journal of the American Chemical Society</i> , 2017, 139, 10887-10896.	6.6	110
7	Polymer-Clay Nanocomposite Solid-State Electrolyte with Selective Cation Transport Boosting and Retarded Lithium Dendrite Formation. <i>Advanced Energy Materials</i> , 2020, 10, 2003114.	10.2	99
8	Architectural Engineering of Rod-Coil Compatibilizers for Producing Mechanically and Thermally Stable Polymer Solar Cells. <i>ACS Nano</i> , 2014, 8, 10461-10470.	7.3	82
9	Supramolecular Diblock Copolymers: A Field-Theoretic Model and Mean-Field Solution. <i>Macromolecules</i> , 2007, 40, 693-702.	2.2	80
10	Amorphous-Phase-Mediated Crystallization of Ni Nanocrystals Revealed by High-Resolution Liquid-Phase Electron Microscopy. <i>Journal of the American Chemical Society</i> , 2019, 141, 763-768.	6.6	76
11	Unveiling the Impact of Fe Incorporation on Intrinsic Performance of Reconstructed Water Oxidation Electrocatalyst. <i>ACS Energy Letters</i> , 2021, 6, 4345-4354.	8.8	67
12	Size-Controlled Polymer-Coated Nanoparticles as Efficient Compatibilizers for Polymer Blends. <i>Macromolecules</i> , 2011, 44, 9852-9862.	2.2	66
13	Moving bed adsorption process with internal heat integration for carbon dioxide capture. <i>International Journal of Greenhouse Gas Control</i> , 2013, 17, 13-24.	2.3	65
14	Composition change-driven texturing and doping in solution-processed SnSe thermoelectric thin films. <i>Nature Communications</i> , 2019, 10, 864.	5.8	62
15	Controlling the Orientation of Block Copolymer Thin Films using Thermally-Stable Gold Nanoparticles with Tuned Surface Chemistry. <i>Macromolecules</i> , 2011, 44, 9356-9365.	2.2	57
16	Three-Dimensional Multilayered Nanostructures with Controlled Orientation of Microdomains from Cross-Linkable Block Copolymers. <i>ACS Nano</i> , 2011, 5, 6164-6173.	7.3	56
17	Widom Delta of Supercritical Gas-Liquid Coexistence. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1734-1738.	2.1	55
18	Anomalous Phase Sequences in Lyotropic Liquid Crystals. <i>Physical Review Letters</i> , 2007, 99, 187801.	2.9	50

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19	Phase Morphologies in Reversibly Bonding Supramolecular Triblock Copolymer Blends. <i>Macromolecules</i> , 2007, 40, 8445-8454.	2.2	47
20	Frustrated self-assembly of dendron and dendrimer-based supramolecular liquid crystals. <i>Soft Matter</i> , 2009, 5, 92-97.	1.2	43
21	Toxic gas release modeling for real-time analysis using variational autoencoder with convolutional neural networks. <i>Chemical Engineering Science</i> , 2018, 181, 68-78.	1.9	43
22	Symmetry Transitions of Polymer-Grafted Nanoparticles: Grafting Density Effect. <i>Chemistry of Materials</i> , 2019, 31, 5264-5273.	3.2	40
23	Donor-Acceptor Alternating Copolymer Compatibilizers for Thermally Stable, Mechanically Robust, and High-Performance Organic Solar Cells. <i>ACS Nano</i> , 2021, 15, 19970-19980.	7.3	38
24	Novel Phase Morphologies in a Microphase-Separated Dendritic Polymer Melt. <i>Macromolecules</i> , 2009, 42, 849-859.	2.2	37
25	Entangled Polymer Melts: Relation between Plateau Modulus and Stress Autocorrelation Function. <i>Macromolecules</i> , 2009, 42, 6270-6276.	2.2	37
26	Promoting alkali and alkaline-earth metals on MgO for enhancing CO ₂ capture by first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 24818-24823.	1.3	37
27	Vertical Orientation of Nanodomains on Versatile Substrates through Self-Neutralization Induced by Star-Shaped Block Copolymers. <i>Advanced Functional Materials</i> , 2015, 25, 5414-5419.	7.8	37
28	Molecular Design of Graft-Assembly for Ordered Microphase Separation of P3HT-Based Rod-Coil Copolymers. <i>Macromolecules</i> , 2013, 46, 8472-8478.	2.2	36
29	Mechanistic Study on the Shape Transition of Block Copolymer Particles Driven by Length-Controlled Nanorod Surfactants. <i>Chemistry of Materials</i> , 2018, 30, 8669-8678.	3.2	36
30	Gas-Phase Carbonylation of Dimethyl Ether on the Stable Seed-Derived Ferrierite. <i>ACS Catalysis</i> , 2020, 10, 5135-5146.	5.5	35
31	Thickness Dependent Ordering in Laterally Confined Monolayers of Spherical-Domain Block Copolymers. <i>Macromolecules</i> , 2007, 40, 5791-5800.	2.2	33
32	Phase Behavior of Star-Shaped Polystyrene- <i>block</i> -poly(methyl methacrylate) Copolymers. <i>Macromolecules</i> , 2014, 47, 5295-5302.	2.2	32
33	Self-Consistent Field Theory of Gaussian Ring Polymers. <i>Macromolecules</i> , 2012, 45, 3263-3269.	2.2	27
34	A Plesiohedral Cellular Network of Graphene Bubbles for Ultralight, Strong, and Superelastic Materials. <i>Advanced Materials</i> , 2018, 30, e1802997.	11.1	27
35	Unusual n-type thermoelectric properties of Bi ₂ Te ₃ doped with divalent alkali earth metals. <i>Journal of Solid State Chemistry</i> , 2019, 269, 396-400.	1.4	25
36	Root causality analysis at early abnormal stage using principal component analysis and multivariate Granger causality. <i>Chemical Engineering Research and Design</i> , 2020, 135, 113-125.	2.7	25

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37	Anion-Rectifying Polymeric Single Lithium-Ion Conductors. <i>Advanced Functional Materials</i> , 2022, 32, 2107753.	7.8	25
38	Design of liquid-crystalline foods via field theoretic computer simulations. <i>Trends in Food Science and Technology</i> , 2006, 17, 220-226.	7.8	24
39	Self-consistent field theory for lipid-based liquid crystals: Hydrogen bonding effect. <i>Journal of Chemical Physics</i> , 2008, 128, 074504.	1.2	24
40	Graft Architected Rod-Coil Copolymers Based on Alternating Conjugated Backbone: Morphological and Optical Properties. <i>Macromolecules</i> , 2015, 48, 5563-5569.	2.2	23
41	Controlled Assembly of Icosahedral Colloidal Clusters for Structural Coloration. <i>Chemistry of Materials</i> , 2020, 32, 9704-9712.	3.2	23
42	Generative Chemical Transformer: Neural Machine Learning of Molecular Geometric Structures from Chemical Language via Attention. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 5804-5814.	2.5	23
43	Practical Microkinetic Modeling Approach for Methanol Synthesis from Syngas over a Cu-Based Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 8663-8673.	1.8	22
44	Motion-Programmed Bar-Coating Method with Controlled Gap for High-Speed Scalable Preparation of Highly Crystalline Organic Semiconductor Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47153-47161.	4.0	22
45	Fast-Charging Lithium-Sulfur Batteries Enabled via Lean Binder Content. <i>Small</i> , 2020, 16, e2004372.	5.2	21
46	Assemblies of Colloidal CdSe Tetrapod Nanocrystals with Lengthy Arms for Flexible Thin-Film Transistors. <i>Nano Letters</i> , 2017, 17, 2433-2439.	4.5	20
47	Aspect-Ratio Effect of Nanorod Compatibilizers in Conducting Polymer Blends. <i>ACS Macro Letters</i> , 2014, 3, 398-404.	2.3	19
48	Searching for an Optimal Multi-Metallic Alloy Catalyst by Active Learning Combined with Experiments. <i>Advanced Materials</i> , 2022, 34, e2108900.	11.1	19
49	Universality, Scaling, and Collapse in Supercritical Fluids. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 451-455.	2.1	18
50	Monte Carlo simulations on the local density inhomogeneities of sub- and supercritical carbon dioxide: Statistical analysis based on the Voronoi tessellation. <i>Journal of Supercritical Fluids</i> , 2017, 119, 36-43.	1.6	17
51	Comprehensive framework for underground pipeline management with reliability and cost factors using Monte Carlo simulation. <i>Journal of Loss Prevention in the Process Industries</i> , 2020, 63, 104035.	1.7	17
52	Modularly aromatic-knit graphitizable phenolic network as a tailored platform for electrochemical applications. <i>Energy and Environmental Science</i> , 2021, 14, 3203-3215.	15.6	17
53	Pyrrrolidinium-PEG Ionic Copolyester: Li-Ion Accelerator in Polymer Network Solid-State Electrolytes. <i>Advanced Energy Materials</i> , 2021, 11, 2102660.	10.2	17
54	Lateral Buckling of High Aspect Ratio Janus Nanowalls. <i>Advanced Functional Materials</i> , 2012, 22, 3723-3728.	7.8	16

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55	Probabilistic characterization of the Widom delta in supercritical region. <i>Journal of Chemical Physics</i> , 2018, 149, 014502.	1.2	16
56	Trends and Outlook of Computational Chemistry and Microkinetic Modeling for Catalytic Synthesis of Methanol and DME. <i>Catalysts</i> , 2020, 10, 655.	1.6	16
57	Influence of Grafting Density on Ultrasound-Induced Backbone and Arm Scission of Graft Copolymers. <i>Macromolecules</i> , 2021, 54, 4219-4226.	2.2	16
58	An improved CO ₂ adsorption efficiency for the zeolites impregnated with the amino group: A molecular simulation approach. <i>International Journal of Greenhouse Gas Control</i> , 2013, 19, 350-357.	2.3	15
59	Molecular dynamics simulation on the local density distribution and solvation structure of supercritical CO ₂ around naphthalene. <i>Journal of Supercritical Fluids</i> , 2017, 130, 364-372.	1.6	15
60	Prediction of the Crystal Morphology of β -HMX using a Generalized Interfacial Structure Analysis Model. <i>Crystal Growth and Design</i> , 2018, 18, 2349-2357.	1.4	15
61	Topological Characterization of Rigid-Nonrigid Transition across the Frenkel Line. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6524-6528.	2.1	15
62	A corresponding-state framework for the structural transition of supercritical fluids across the Widom delta. <i>Journal of Chemical Physics</i> , 2019, 150, 154503.	1.2	15
63	Ligand-Dependent Coalescence Behaviors of Gold Nanoparticles Studied by Multichamber Graphene Liquid Cell Transmission Electron Microscopy. <i>Nano Letters</i> , 2020, 20, 8704-8710.	4.5	15
64	Robust design of ambient-air vaporizer based on time-series clustering. <i>Computers and Chemical Engineering</i> , 2018, 118, 236-247.	2.0	14
65	Molecular Dynamics Simulation of Silicon Dioxide Etching by Hydrogen Fluoride Using the Reactive Force Field. <i>ACS Omega</i> , 2021, 6, 16009-16015.	1.6	14
66	Toward residual-layer-free nanoimprint lithography in large-area fabrication. <i>Korea Australia Rheology Journal</i> , 2014, 26, 39-48.	0.7	13
67	Molecular dynamics study on microstructures of diblock copolymer melts with soft potential and potential recovery. <i>Physical Review E</i> , 2016, 94, 032501.	0.8	13
68	Study on thermal conductivity and electrical resistivity of Al-Cu alloys obtained by Boltzmann transport equation and first-principles simulation: Semi-empirical approach. <i>Journal of Alloys and Compounds</i> , 2017, 727, 1237-1242.	2.8	13
69	1D hypo-crystals: A novel concept for the crystallization of stereo-irregular polymers. <i>Materials Today</i> , 2020, 40, 26-37.	8.3	13
70	Real-space imaging of nanoparticle transport and interaction dynamics by graphene liquid cell TEM. <i>Science Advances</i> , 2021, 7, eabi5419.	4.7	13
71	Two-Phase Thermodynamics of the Frenkel Line. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4550-4554.	2.1	12
72	Multicompartment Model of an Ethylene-Vinyl Acetate Autoclave Reactor: A Combined Computational Fluid Dynamics and Polymerization Kinetics Model. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 16459-16471.	1.8	12

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73	Topological extension of the isomorph theory based on the Shannon entropy. <i>Physical Review E</i> , 2019, 100, 012118.	0.8	12
74	Microkinetic modeling of DME synthesis from methanol over H-zeolite catalyst: Associative vs. dissociative pathways. <i>Catalysis Today</i> , 2021, 375, 314-323.	2.2	12
75	Recent progress on Al distribution over zeolite frameworks: Linking theories and experiments. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 1117-1128.	1.2	12
76	Adaptive approach for estimation of pipeline corrosion defects via Bayesian inference. <i>Reliability Engineering and System Safety</i> , 2021, 216, 107998.	5.1	12
77	Thermoelectric transport properties of Pb doped SnSe alloys (PbxSn1-xSe): DFT-BTE simulations. <i>Journal of Solid State Chemistry</i> , 2019, 270, 413-418.	1.4	11
78	Phase Behavior of 18-Arm Star-Shaped Polystyrene-block-poly(methyl methacrylate) Copolymers with Different Second Block Initiations. <i>Macromolecules</i> , 2018, 51, 2750-2755.	2.2	10
79	Integrated Process Design and Optimization of Nitrogen Recovery in Natural Gas Processing. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 1658-1674.	1.8	10
80	Topological generalization of the rigid-nonrigid transition in soft-sphere and hard-sphere fluids. <i>Physical Review E</i> , 2019, 99, 052603.	0.8	10
81	Ionic-Group Dependence of Polyelectrolyte Coacervate Phase Behavior. <i>Macromolecules</i> , 2021, 54, 7572-7581.	2.2	10
82	Folding of Sequence-Controlled Graft Copolymers to Subdomain-Defined Single-Chain Nanoparticles. <i>Macromolecules</i> , 2021, 54, 8829-8838.	2.2	10
83	Material Optimization for a High Power Thermoelectric Generator in Wearable Applications. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1015.	1.3	9
84	Inherently Safer Process Design of Natural Gas Liquefaction Processes through Multiobjective Optimization—Part I. With Inherent Safety Indexes. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 4186-4198.	1.8	9
85	Kinetic modeling for direct synthesis of dimethyl ether from syngas over a hybrid Cu/ZnO/Al ₂ O ₃ /ferrierite catalyst. <i>Catalysis Today</i> , 2022, 388-389, 323-328.	2.2	9
86	CFD modeling for the prediction of molecular weight distribution in the LDPE autoclave reactor: Effects of non-ideal mixing. <i>Chemical Engineering Journal</i> , 2022, 427, 131829.	6.6	9
87	In Situ Supramolecular Polymerization of Micellar Nanoobjects Induced by Polymerization. <i>ACS Macro Letters</i> , 2022, 11, 149-155.	2.3	9
88	Inhomogeneity of block copolymers at the interface of an immiscible polymer blend. <i>Physical Review E</i> , 2018, 97, 042502.	0.8	8
89	Process fault diagnosis via the integrated use of graphical lasso and Markov random fields learning & inference. <i>Computers and Chemical Engineering</i> , 2019, 125, 460-475.	2.0	8
90	Development of surrogate model using CFD and deep neural networks to optimize gas detector layout. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 325-332.	1.2	8

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91	Effects of ionic liquids and silica nanoparticles on the ionic conductivities, mechanical properties, and rheological properties of sodium-containing solid polymer electrolytes. <i>Journal of Power Sources</i> , 2022, 518, 230748.	4.0	8
92	A highly efficient and transparent luminescent solar concentrator based on a nanosized metal cluster luminophore anchored on polymers. <i>Journal of Materials Chemistry C</i> , 2022, 10, 4402-4410.	2.7	8
93	Conformation Dynamics of Single Polymer Strands in Solution. <i>Advanced Materials</i> , 0, , 2202353.	11.1	8
94	Orientation and position of cylindrical-shaped gold nanoparticles at liquid-liquid interfaces. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	7
95	Isolated Mesoporous Microstructures Prepared by Stress Localization-Induced Crack Manipulation. <i>ACS Nano</i> , 2016, 10, 9259-9266.	7.3	7
96	Efficient Process Monitoring via the Integrated Use of Markov Random Fields Learning and the Graphical Lasso. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 13144-13155.	1.8	7
97	Robust Design of Multicomponent Working Fluid for Organic Rankine Cycle. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 4154-4167.	1.8	7
98	Active microrheology of a bulk metallic glass. <i>Science Advances</i> , 2020, 6, eaba8766.	4.7	7
99	Quantitative risk assessment integrated with dynamic process simulation for reactor section in heavy oil desulfurization process. <i>Journal of Loss Prevention in the Process Industries</i> , 2020, 66, 104158.	1.7	7
100	Magnetic Field-Induced Self-Assembly of Conjugated Block Copolymers and Nanoparticles at the Air-Water Interface. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 8266-8273.	4.0	7
101	Structure of poly(styrene- <i>b</i> -ethylene- <i>alt</i> -propylene) diblock copolymer micelles in binary solvent mixtures. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 22-31.	2.4	6
102	Interfacial Structure Analysis for the Morphology Prediction of Adipic Acid Crystals from Aqueous Solution. <i>Crystal Growth and Design</i> , 2017, 17, 1088-1095.	1.4	6
103	Mechano-responsive lateral buckling of miniaturized beams standing on flexible substrates. <i>Soft Matter</i> , 2017, 13, 8357-8361.	1.2	6
104	Driving Conformational Transitions in the Feature Space of Autoencoder Neural Network. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23224-23229.	1.5	6
105	Function transformation of polymeric films through morphing of surface shapes. <i>Chemical Engineering Journal</i> , 2022, 434, 134665.	6.6	6
106	Differences in DNA Probe-Mediated Aggregation Behavior of Gold Nanomaterials Based on Their Geometric Appearance. <i>Langmuir</i> , 2018, 34, 14869-14874.	1.6	5
107	Plane-Selective Coating of Li ₂ SnO ₃ on Li[Ni _x Co _{1-x}]O ₂ for High Power Li ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7096-7102.	2.1	5
108	Reply to Comment on "Entangled Polymer Melts: Relation between Plateau Modulus and Stress Autocorrelation Function". <i>Macromolecules</i> , 2010, 43, 3984-3985.	2.2	4

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109	Ultralightweight Strain-Responsive 3D Graphene Network. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9884-9893.	1.5	4
110	Molecular dynamics study on lithium-ion transport in PEO branched nanopores with PVR ₁₄ TFSI ionic liquid. , 2022, 1, .		4
111	Modeling of a methanol synthesis process to utilize CO ₂ in the exhaust gas from an engine plant. <i>Korean Journal of Chemical Engineering</i> , 2022, 39, 1989-1998.	1.2	4
112	Searching for an Optimal Multi-Metallic Alloy Catalyst by Active Learning Combined with Experiments (Adv. Mater. 19/2022). <i>Advanced Materials</i> , 2022, 34, .	11.1	4
113	Nanowalls: Lateral Buckling of High Aspect Ratio Janus Nanowalls (Adv. Funct. Mater. 17/2012). <i>Advanced Functional Materials</i> , 2012, 22, 3530-3530.	7.8	3
114	Response to "Comment on "Molecular dynamics simulation study of nonconcatenated ring polymers in a melt. I. Statics" [J. Chem. Phys. 139, 217101 (2013)]. <i>Journal of Chemical Physics</i> , 2013, 139, 217102.	1.2	3
115	The formation and control of highly crumpled metal surfaces on a photocurable viscous liquid. <i>Soft Matter</i> , 2016, 12, 6507-6511.	1.2	3
116	Effect of lattice relaxation on thermal conductivity of fcc-based structures: an efficient procedure of molecular dynamics simulation. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2017, 25, 055011.	0.8	3
117	Self-assembly of rod-coil diblock copolymer nanoparticle composites in thin films: dissipative particle dynamics. <i>Soft Matter</i> , 2021, 17, 2384-2391.	1.2	3
118	Direct utilization of CO ₂ via methanol synthesis for natural gas fields with high CO ₂ concentration. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 96, 104308.	2.1	3
119	Multi-objective optimization of a methanol synthesis process: CO ₂ emission vs. economics. <i>Korean Journal of Chemical Engineering</i> , 0, , .	1.2	3
120	Numerical studies on the thermal tuning of domain size in supramolecular diblock copolymer melts. <i>Macromolecular Research</i> , 2011, 19, 483-486.	1.0	2
121	Molecular Dynamics Study of Diffusion Behaviors of CO ₂ and N ₂ Confined to a Uni-directional Zeolite Structure. <i>Computer Aided Chemical Engineering</i> , 2014, 33, 1717-1722.	0.3	2
122	Perovskite Thin Films: High-Resolution Spin-Patterning of Perovskite Thin Films for a Multiplexed Image Sensor Array (Adv. Mater. 40/2017). <i>Advanced Materials</i> , 2017, 29, .	11.1	2
123	Enhanced sampling of cylindrical microphase separation via a shell-averaged bond-orientational order parameter. <i>Soft Matter</i> , 2020, 16, 659-667.	1.2	2
124	Development of augmented virtual reality-based operator training system for accident prevention in a refinery. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 1566-1577.	1.2	2
125	Aligned structures of mesogenic motifs in epoxy resin and their thermal conductivities. <i>Nanoscale Advances</i> , 2022, 4, 1970-1978.	2.2	2
126	Mechanistic kinetic modeling for catalytic conversion of DME to gasoline-range hydrocarbons over nanostructured ZSM-5. <i>Catalysis Science and Technology</i> , 2022, 12, 4798-4810.	2.1	2

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127	Molecular dynamics study of the role of friction on the thermal rupture of linear alternate copolymers. <i>Macromolecular Research</i> , 2011, 19, 1192-1194.	1.0	1
128	Cellular Networks: A Plesiohedral Cellular Network of Graphene Bubbles for Ultralight, Strong, and Superelastic Materials (<i>Adv. Mater.</i> 45/2018). <i>Advanced Materials</i> , 2018, 30, 1870343.	11.1	1
129	Efficient Conduction in Thin Film Transistors Consisting of Colloidal Nanocrystals: Effect of Nanocrystal Geometry. <i>Advanced Theory and Simulations</i> , 2018, 1, 1800120.	1.3	1
130	Quantitative and Probabilistic approach for Underground Pipeline management Optimization. <i>Computer Aided Chemical Engineering</i> , 2018, 44, 1549-1554.	0.3	1
131	Phase behavior of disk-coil block copolymers under cylindrical confinement: Curvature-induced structural frustrations. <i>Physical Review E</i> , 2019, 100, 052502.	0.8	1
132	An Amine-Impregnated Zeolite for Enhancing CO ₂ Adsorption: A Monte Carlo Simulation Approach. <i>Science of Advanced Materials</i> , 2014, 6, 2582-2584.	0.1	1
133	Structure and Property of Alkylated Graphene Oxide Depending on the Chain Length: Grand Canonical Monte Carlo-Molecular Dynamics Approach. <i>Journal of Physical Chemistry C</i> , 2022, 126, 12178-12183.	1.5	1
134	Thermal rupture of linear alternate copolymers: A molecular dynamics study. <i>Journal of Chemical Physics</i> , 2011, 135, 084903.	1.2	0
135	Soft matter rheology: Theory and experiments. <i>Korea Australia Rheology Journal</i> , 2014, 26, 1-1.	0.7	0
136	Efficient Process Monitoring and Fault Isolation with the Integrated use of Markov Random Fields Learning and the Graphical Lasso. <i>Computer Aided Chemical Engineering</i> , 2018, 44, 589-594.	0.3	0
137	First-principles study of electronic transport coefficients of point-defective metallic species: aluminum and its bimetallic alloys. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019, 27, 035009.	0.8	0
138	Dynamical time scales of friction dynamics in active microrheology of a model glass. <i>Soft Matter</i> , 2021, 17, 5162-5169.	1.2	0