

# Seung Geol Lee

## List of Publications by Year in descending order

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128  
papers

3,679  
citations

147801

31  
h-index

161849

54  
g-index

129  
all docs

129  
docs citations

129  
times ranked

4998  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface-loaded metal nanoparticles for peroxydisulfate activation: Efficiency and mechanism reconnaissance. <i>Applied Catalysis B: Environmental</i> , 2019, 241, 561-569.	20.2	260
2	Synthesis of B-doped graphene quantum dots as a metal-free electrocatalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10537-10543.	10.3	178
3	Novel Graphene Hydrogel/B-doped Graphene Quantum Dots Composites as Trifunctional Electrocatalysts for Zn-Air Batteries and Overall Water Splitting. <i>Advanced Energy Materials</i> , 2019, 9, 1900945.	19.5	150
4	An Ultrasensitive, Viscoelastic Poroelastic Artificial Mechanotransducer Skin Inspired by Piezo2 Protein in Mammalian Merkel Cells. <i>Advanced Materials</i> , 2017, 29, 1605973.	21.0	147
5	Rational design of exfoliated 1T MoS <sub>2</sub> @CNT-based bifunctional separators for lithium sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23909-23918.	10.3	111
6	Mechanisms of Na adsorption on graphene and graphene oxide: density functional theory approach. <i>Carbon Letters</i> , 2015, 16, 116-120.	5.9	84
7	Effects of Calcination Temperature on the Phase Composition, Photocatalytic Degradation, and Virucidal Activities of TiO <sub>2</sub> Nanoparticles. <i>ACS Omega</i> , 2021, 6, 10668-10678.	3.5	82
8	Tuning the Ionomer Distribution in the Fuel Cell Catalyst Layer with Scaling the Ionomer Aggregate Size in Dispersion. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 17835-17841.	8.0	79
9	Synthesis of new TiO <sub>2</sub> /porphyrin-based composites and photocatalytic studies on methylene blue degradation. <i>Dyes and Pigments</i> , 2019, 160, 37-47.	3.7	79
10	Adsorption of D-glucose and cellobiose on kaolinite surfaces: Density functional theory (DFT) approach. <i>Applied Clay Science</i> , 2013, 71, 73-81.	5.2	78
11	An Ultrastable Ionic Chemiresistor Skin with an Intrinsically Stretchable Polymer Electrolyte. <i>Advanced Materials</i> , 2018, 30, e1706851.	21.0	75
12	Molecular dynamics simulation study of P (VP-co-HEMA) hydrogels: Effect of water content on equilibrium structures and mechanical properties. <i>Biomaterials</i> , 2009, 30, 6130-6141.	11.4	73
13	Persulfate activation by ZIF-67-derived cobalt/nitrogen-doped carbon composites: Kinetics and mechanisms dependent on persulfate precursor. <i>Chemical Engineering Journal</i> , 2021, 408, 127305.	12.7	72
14	Mechanism of sodium adsorption on N-doped graphene nanoribbons for sodium ion battery applications: A density functional theory approach. <i>Carbon</i> , 2017, 119, 492-501.	10.3	68
15	10 <sup>5</sup> Cyclable Pseudocapacitive Na-Ion Storage of Hierarchically Structured Phosphorus-Incorporating Nanoporous Carbons in Organic Electrolytes. <i>ACS Energy Letters</i> , 2018, 3, 724-732.	17.4	68
16	Structure Solution from Powder Diffraction of Copper 1,4-Benzenedicarboxylate. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 2140-2145.	2.0	59
17	Facet selectivity of Cu current collector for Li electrodeposition. <i>Energy Storage Materials</i> , 2019, 19, 154-162.	18.0	57
18	Viscoelastic Poroelastic Electrochemiluminescence Skin with Piezoelectric Effect. <i>Advanced Materials</i> , 2021, 33, e2100321.	21.0	52

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19	A molecular dynamics simulation study of hydrated sulfonated poly(ether ether ketone) for application to polymer electrolyte membrane fuel cells: Effect of water content. <i>Journal of Renewable and Sustainable Energy</i> , 2009, 1, .	2.0	51
20	First-principles study of Li adsorption in a carbon nanotube-fullerene hybrid system. <i>Carbon</i> , 2011, 49, 286-293.	10.3	51
21	Large Scale Synthesis and Light Emitting Fibers of Tailor-Made Graphene Quantum Dots. <i>Scientific Reports</i> , 2015, 5, 14163.	3.3	48
22	In Situ Observation of Carbon Dioxide Capture on Pseudo-Liquid Eutectic Mixture-Promoted Magnesium Oxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 2414-2422.	8.0	47
23	Nano-scale control of the ionomer distribution by molecular masking of the Pt surface in PEMFCs. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13004-13013.	10.3	46
24	A Nanophase-Separated, Quasi-Solid-State Polymeric Single-Ion Conductor: Polysulfide Exclusion for Lithium-Sulfur Batteries. <i>ACS Energy Letters</i> , 2017, 2, 1232-1239.	17.4	44
25	Active Methanol Oxidation Reaction by Enhanced CO Tolerance on Bimetallic Pt/Ir Electrocatalysts Using Electronic and Bifunctional Effects. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 39581-39589.	8.0	43
26	Dispersion-Solvent Control of Ionomer Aggregation in a Polymer Electrolyte Membrane Fuel Cell. <i>Scientific Reports</i> , 2018, 8, 10739.	3.3	40
27	Tunable Electronic Properties of Nitrogen and Sulfur Doped Graphene: Density Functional Theory Approach. <i>Nanomaterials</i> , 2019, 9, 268.	4.1	39
28	Photocatalytic degradation of methylene blue under UV and visible light by brookite-rutile bi-crystalline phase of TiO <sub>2</sub> . <i>New Journal of Chemistry</i> , 2021, 45, 3485-3497.	2.8	36
29	Persulfate activation by nanodiamond-derived carbon onions: Effect of phase transformation of the inner diamond core on reaction kinetics and mechanisms. <i>Applied Catalysis B: Environmental</i> , 2021, 293, 120205.	20.2	35
30	Effect of Monomeric Sequence on Mechanical Properties of P(VP-co-HEMA) Hydrogels at Low Hydration. <i>Journal of Physical Chemistry B</i> , 2009, 113, 6604-6612.	2.6	34
31	Investigating Polaron Formation in Anatase and Brookite TiO <sub>2</sub> by Density Functional Theory with Hybrid-Functional and DFT + U Methods. <i>ACS Omega</i> , 2019, 4, 8056-8064.	3.5	34
32	A density functional theory (DFT) study of CO <sub>2</sub> adsorption on Mg-rich minerals by enhanced charge distribution. <i>Computational Materials Science</i> , 2014, 95, 181-186.	3.0	32
33	Adsorption of carbonate on calcium carbonate (xmmumath) by DFT. <i>Journal of Physical Chemistry C</i> , 2015, 119, 10784-10791.	4.7	32
34	surface: Molecular simulation approach. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 474, 9-17.		
34	Mechanism of adhesion of the diglycidyl ether of bisphenol A (DGEBA) to the Fe(100) surface. <i>Composites Science and Technology</i> , 2016, 126, 9-16.	7.8	32
35	Nanostructures of Nafion Film at Platinum/Carbon Surface in Catalyst Layer of PEMFC: Molecular Dynamics Simulation Approach. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21386-21395.	3.1	32
36	Interactions of Pt nanoparticles with molecular components in polymer electrolyte membrane fuel cells: multi-scale modeling approach. <i>RSC Advances</i> , 2016, 6, 69670-69676.	3.6	31

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37	High-performance MoS <sub>2</sub> -based nanocomposite anode prepared by high-energy mechanical milling: The effect of carbonaceous matrix on MoS <sub>2</sub> . <i>Electrochimica Acta</i> , 2018, 260, 129-138.	5.2	31
38	Deswelling Mechanisms of Surface-Grafted Poly(NIPAAm) Brush: Molecular Dynamics Simulation Approach. <i>Journal of Physical Chemistry C</i> , 2012, 116, 15974-15985.	3.1	30
39	Adsorption mechanisms of lithium oxides (Li <sub>2</sub> O <sub>2</sub> ) on a graphene-based electrode: A density functional theory approach. <i>Applied Surface Science</i> , 2015, 351, 193-202.	6.1	30
40	Pd core-shell alloy catalysts for high-temperature polymer electrolyte membrane fuel cells: Effect of the core composition on the activity towards oxygen reduction reactions. <i>Applied Catalysis A: General</i> , 2018, 562, 250-257.	4.3	30
41	Mechanism of Li Adsorption on Carbon Nanotube-Fullerene Hybrid System: A First-Principles Study. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 1186-1194.	8.0	29
42	A First-Principles Study of Lithium Adsorption on a Graphene-Fullerene Nanohybrid System. <i>ChemPhysChem</i> , 2015, 16, 789-795.	2.1	29
43	Li adsorption on a graphene-fullerene nanobud system: density functional theory approach. <i>RSC Advances</i> , 2015, 5, 32819-32825.	3.6	27
44	SnTe-TiC composites as high-performance anodes for Li-ion batteries. <i>Journal of Power Sources</i> , 2017, 365, 372-379.	7.8	27
45	Sb <sub>2</sub> Te <sub>3</sub> -TiC-C nanocomposites for the high-performance anode in lithium-ion batteries. <i>Electrochimica Acta</i> , 2019, 293, 8-18.	5.2	27
46	Transient color changes in oxidative-stable fluorinated polyimide film for flexible display substrates. <i>RSC Advances</i> , 2015, 5, 57339-57345.	3.6	26
47	Investigation of electrochemical performance on carbon supported tin-selenium bimetallic anodes in lithium-ion batteries. <i>Electrochimica Acta</i> , 2018, 266, 193-201.	5.2	26
48	Density functional theory study of CH <sub>4</sub> and CO <sub>2</sub> adsorption by fluorinated graphene. <i>Carbon Letters</i> , 2016, 20, 81-85.	5.9	26
49	Effect of temperature on structure and water transport of hydrated sulfonated poly(ether ether) Tj ETQq1 1 0.784314 rgBT /Overlock 2011, 3, .	2.0	25
50	Catalytic activity of Ni <sub>3</sub> Mo surfaces for hydrogen evolution reaction: A density functional theory approach. <i>Applied Surface Science</i> , 2021, 537, 147894.	6.1	25
51	Nano structural analysis on stiffening phenomena of PAN-based carbon fibers during tensile deformation. <i>Carbon</i> , 2014, 76, 232-239.	10.3	24
52	Molecular Dynamics Simulation to Reveal Effects of Binder Content on Pt/C Catalyst Coverage in a High-Temperature Polymer Electrolyte Membrane Fuel Cell. <i>ACS Applied Nano Materials</i> , 2018, 1, 3251-3258.	5.0	24
53	Investigating the influence of the side-chain pendants of perfluorosulfonic acid membranes in a PEMFC by molecular dynamics simulations. <i>Materials Today Communications</i> , 2019, 21, 100625.	1.9	24
54	Structure-dependent sodium ion storage mechanism of cellulose nanocrystal-based carbon anodes for highly efficient and stable batteries. <i>Journal of Power Sources</i> , 2020, 468, 228371.	7.8	24

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55	Magnetic Field-Induced Through-Plane Alignment of the Proton Highway in a Proton Exchange Membrane. <i>ACS Applied Energy Materials</i> , 2020, 3, 4619-4628.	5.1	24
56	Distribution and Diffusion of Water in Model Epoxy Molding Compound: Molecular Dynamics Simulation Approach. <i>IEEE Transactions on Advanced Packaging</i> , 2010, 33, 333-339.	1.6	23
57	Controlling Ionomer Film Morphology through Altering Pt Catalyst Surface Properties for Polymer Electrolyte Membrane Fuel Cells. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1807-1818.	4.4	23
58	Adsorption mechanisms of lithium oxides (Li <sub>x</sub> O <sub>2</sub> ) on N-doped graphene: a density functional theory study with implications for lithium-air batteries. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1.	1.4	22
59	Copper-antimony-red phosphorus composites as promising anode materials for sodium-ion batteries. <i>Journal of Power Sources</i> , 2017, 362, 115-122.	7.8	21
60	Toward enhanced CO <sub>2</sub> adsorption on bimodal calcium-based materials with porous truncated architectures. <i>Applied Surface Science</i> , 2020, 505, 144512.	6.1	20
61	Post-assembly modification of polymeric composite membranes using spin drying for fuel cell applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7380-7388.	10.3	19
62	Catalytic performance of graphene quantum dot supported manganese phthalocyanine for efficient oxygen reduction: density functional theory approach. <i>New Journal of Chemistry</i> , 2019, 43, 348-355.	2.8	19
63	Molecular dynamics simulation study on the effect of perfluorosulfonic acid side chains on oxygen permeation in hydrated ionomers of PEMFCs. <i>Scientific Reports</i> , 2021, 11, 8702.	3.3	19
64	Investigations of the band structures of edge-defect zigzag graphene nanoribbons using density functional theory. <i>RSC Advances</i> , 2016, 6, 39587-39594.	3.6	18
65	Do HOMO-LUMO Energy Levels and Band Gaps Provide Sufficient Understanding of Dye-Sensitizer Activity Trends for Water Purification?. <i>ACS Omega</i> , 2020, 5, 15052-15062.	3.5	18
66	Insights on boosting oxygen evolution reaction performance via boron incorporation into nitrogen-doped carbon electrocatalysts. <i>Applied Surface Science</i> , 2020, 528, 146979.	6.1	18
67	Li adsorption on a Fullerene-Single wall carbon nanotube hybrid system: Density functional theory approach. <i>Current Applied Physics</i> , 2014, 14, 1748-1754.	2.4	17
68	First principles study of Ir <sub>3</sub> Ru, IrRu and IrRu <sub>3</sub> catalysts for hydrogen oxidation reaction: Effect of surface modification and ruthenium content. <i>Applied Surface Science</i> , 2021, 545, 149002.	6.1	17
69	Adhesion mechanism of bisphenol A diglycidyl ether (BADGE) on an Ir-Fe <sub>2</sub> O <sub>3</sub> (0001) surface. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 53, 62-67.	5.8	16
70	Effect of binders and additives to tailor the electrochemical performance of Sb <sub>2</sub> Te <sub>3</sub> -TiC alloy anodes for high-performance sodium-ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 76, 419-428.	5.8	16
71	CO <sub>2</sub> Adsorption on H <sub>2</sub> O-Saturated BaO (100) and Induced Barium Surface Dissociation. <i>Bulletin of the Korean Chemical Society</i> , 2015, 36, 11-16.	1.9	15
72	Enhanced competitive adsorption of CO <sub>2</sub> and H <sub>2</sub> on graphyne: A density functional theory study. <i>AIP Advances</i> , 2017, 7, .	1.3	15

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73	Hierarchically Designed Cathodes Composed of Vanadium Hexacyanoferrate@Copper Hexacyanoferrate with Enhanced Cycling Stability. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 24817-24826.	8.0	15
74	Development of a comprehensive visual dataset based on a CIE blue color center: Assessment of color difference formulae using various statistical methods. <i>Color Research and Application</i> , 2011, 36, 27-41.	1.6	14
75	Role of surface fluorine in improving the electrochemical properties of Fe/MWCNT electrodes. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 43, 78-85.	5.8	14
76	Enhancing the Electrochemical Performance of SbTe Bimetallic Anodes for High-Performance Sodium-Ion Batteries: Roles of the Binder and Carbon Support Matrix. <i>Nanomaterials</i> , 2019, 9, 1134.	4.1	13
77	Prediction of Lap Shear Strength and Impact Peel Strength of Epoxy Adhesive by Machine Learning Approach. <i>Nanomaterials</i> , 2021, 11, 872.	4.1	13
78	Revelation of transport properties of ultra-thin ionomer films in catalyst layer of polymer electrolyte membrane fuel cells using molecular dynamics. <i>Applied Surface Science</i> , 2022, 598, 153815.	6.1	13
79	Effect of monomeric sequence on transport properties of d-glucose and ascorbic acid in poly(VP-co-HEMA) hydrogels with various water contents: molecular dynamics simulation approach. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	1.4	12
80	Enhanced H <sub>2</sub> dissociative phenomena of Pt-Ir electrocatalysts for PEMFCs: an integrated experimental and theoretical study. <i>RSC Advances</i> , 2015, 5, 54941-54946.	3.6	12
81	Synergistic effect of antimony-triselenide on addition of conductive hybrid matrix for high-performance lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 828, 154410.	5.5	12
82	Electron-rich $\pi$ -extended phthalocyanine-thiophene-phthalocyanine triad for the sensitive and selective detection of picric acid. <i>RSC Advances</i> , 2015, 5, 73989-73992.	3.6	11
83	Mg <sup>2+</sup> Inversion in MgO@MgO <sup>n</sup> Al <sub>2</sub> O <sub>3</sub> Oxides: The Origin of Basic Sites. <i>ChemSusChem</i> , 2019, 12, 2810-2818.	6.8	11
84	Decomposition mechanisms of self-polishing copolymers for antifouling coating materials through first-principles approach. <i>Progress in Organic Coatings</i> , 2020, 138, 105406.	3.9	11
85	Relationship between hydrogen binding energy and activity for hydrogen evolution reaction by palladium supported on sulfur-doped ordered mesoporous carbon. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 89, 361-367.	5.8	11
86	Sponge Behaviors of Functionalized Few-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2010, 114, 14868-14875.	3.1	10
87	Effect of fluorination on haze reduction in transparent polyimide films for flexible substrates. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	10
88	Cu-SnO <sub>2</sub> nanostructures obtained via galvanic replacement control as high performance anodes for lithium-ion storage. <i>Applied Surface Science</i> , 2018, 429, 218-224.	6.1	10
89	Electrochemical Oxygen-Reduction Activity and Carbon Monoxide Tolerance of Iron Phthalocyanine Functionalized with Graphene Quantum Dots: A Density Functional Theory Approach. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27483-27491.	3.1	10
90	Effect of Temperature on Water Molecules in a Model Epoxy Molding Compound: Molecular Dynamics Simulation Approach. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2011, 1, 1533-1542.	2.5	9

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91	Distribution characteristics of phosphoric acid and PTFE binder on Pt/C surfaces in high-temperature polymer electrolyte membrane fuel cells: Molecular dynamics simulation approach. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 17295-17305.	7.1	9
92	Preparation and swelling behavior of moisture-absorbing polyurethane films impregnated with superabsorbent sodium polyacrylate particles. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	8
93	Density functional theory approach to CO <sub>2</sub> adsorption on a spinel mineral: determination of binding coordination. <i>RSC Advances</i> , 2016, 6, 28607-28611.	3.6	8
94	Blowing Properties and Functionality of Thermoplastic Polyester Film Using Thermally Expandable Microcapsules. <i>Polymers</i> , 2019, 11, 1652.	4.5	8
95	Alkyl Conformation and H <sub>2</sub> O Interaction Dependent on Polymorphism in the 1,8-Naphthalimide (NI) Derivative. <i>ACS Omega</i> , 2019, 4, 19705-19709.	3.5	8
96	Theoretical Investigation of the Active Sites in N-Doped Graphene Bilayer for the Oxygen Reduction Reaction in Alkaline Media in PEMFCs. <i>Journal of Physical Chemistry C</i> , 2022, 126, 5863-5872.	3.1	8
97	Performance of select color-difference formulas in the blue region. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014, 31, 1328.	1.5	7
98	First-principles study of the effect of compressive strain on oxygen adsorption in Pd/Ni/Cu-alloy-core@Pd/Ir-alloy-shell catalysts. <i>New Journal of Chemistry</i> , 2019, 43, 8195-8203.	2.8	7
99	Defect structure evolution of polyacrylonitrile and single wall carbon nanotube nanocomposites: a molecular dynamics simulation approach. <i>Scientific Reports</i> , 2020, 10, 11816.	3.3	7
100	Novel hybrid binder mixture tailored to enhance the electrochemical performance of SbTe bi-metallic anode for sodium ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2020, 865, 114160.	3.8	7
101	Influence of defective sites in Pt/C catalysts on the anode of direct methanol fuel cell and their role in CO poisoning: a first-principles study. <i>Carbon Letters</i> , 2015, 16, 198-202.	5.9	7
102	Structure and Physical Properties of Hydrophilic Polyamide Copolymers Fiber Based on Nylon 6 and Nylon 4,6. <i>Fibers and Polymers</i> , 2020, 21, 2173-2178.	2.1	6
103	Single-Step Fabrication of Polymeric Composite Membrane via Centrifugal Colloidal Casting for Fuel Cell Applications. <i>Small Methods</i> , 2021, 5, e2100285.	8.6	6
104	Near-infrared absorption and photothermal properties of heptamethine pyrylium dyes with bistriflimide anion. <i>Dyes and Pigments</i> , 2022, 203, 110321.	3.7	6
105	Alkaline Hydrolysis and Dyeing Characteristics of Sea-Island-Type Ultramicrofibers of PET Tricot Fabrics with Black Disperse Dye. <i>Polymers</i> , 2020, 12, 1243.	4.5	5
106	Plasma-engineered organic dyes as efficient polysulfide-mediating layers for high performance lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2022, 430, 132679.	12.7	5
107	Optical and Electronic Properties of Organic NIR-II Fluorophores by Time-Dependent Density Functional Theory and Many-Body Perturbation Theory: GW-BSE Approaches. <i>Nanomaterials</i> , 2021, 11, 2293.	4.1	5
108	Investigation on the stress behavior of cellulose acetate and the development of highly moisture-resistant optical films for display devices. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 1470-1479.	2.1	4



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109	Molecularly engineered copolyimide film for capacitive humidity sensor. <i>Materials Letters</i> , 2020, 268, 127565.	2.6	4
110	Synthesis, characterization, and photocatalytic disinfection studies of porphyrin dimer/TiO <sub>2</sub> -based photocatalyst. <i>Journal of Molecular Structure</i> , 2021, 1236, 130276.	3.6	4
111	Organic Dye-Derived N, S Co-Doped Porous Carbon Hosts for Effective Lithium Polysulfide Confinement in Lithium-Sulfur Batteries. <i>Nanomaterials</i> , 2021, 11, 2954.	4.1	4
112	Pyro-polymerization of organic pigments for superior lithium storage. <i>Carbon</i> , 2022, 188, 187-196.	10.3	4
113	Near-Infrared Absorption Properties of Neutral Bis(1,2-dithiolene) Platinum(II) Complexes Using Density Functional Theory. <i>Nanomaterials</i> , 2022, 12, 1704.	4.1	4
114	Predicting the Properties of High-Performance Epoxy Resin by Machine Learning Using Molecular Dynamics Simulations. <i>Nanomaterials</i> , 2022, 12, 2353.	4.1	4
115	Influence of Sulfonic Acid Group on Sulfonated Polyethersulfone Membrane for PEM Fuel Cell: A First-Principles Study. <i>Bulletin of the Korean Chemical Society</i> , 2015, 36, 2116-2119.	1.9	3
116	Simple Luminescent Phenanthroimidazole Emitters for Solution-processed Non-doped Organic Light-emitting Electrochemical Cells. <i>New Journal of Chemistry</i> , 0, .	2.8	3
117	Permeability of a Zinc-Methacrylate-Based Self-Polishing Copolymer for Use in Antifouling Coating Materials by Molecular Dynamics Simulations. <i>Nanomaterials</i> , 2021, 11, 3141.	4.1	3
118	Multiscale simulation approach to investigate the binder distribution in catalyst layers of high-temperature polymer electrolyte membrane fuel cells. <i>Scientific Reports</i> , 2022, 12, 3810.	3.3	3
119	The Development of High Performance Nano-composites with Carbon Nanotube. <i>Textile Coloration and Finishing</i> , 2014, 26, 71-78.	0.0	2
120	Intrinsic Kinetics of Platy Hydrated Magnesium Silicate (Talc) for Geological CO <sub>2</sub> Sequestration: Determination of Activation Barrier. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 16523-16528.	3.7	1
121	Structure and hydrophilicity of azo-dye-derived rotaxane: density functional theory approach. <i>Coloration Technology</i> , 2017, 133, 382-390.	1.5	1
122	Artificial Skin: An Ultrasensitive, Viscoelastic Artificial Mechanotransducer Skin Inspired by Piezo2 Protein in Mammalian Merkel Cells ( <i>Adv. Mater.</i> 13/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	1
123	Copper-Antimony-Based Alloy Nanocomposites as Anodes for Lithium-Ion Batteries: Effects of Heat Treatment and Mass Loading. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 8205-8208.	0.9	1
124	Effect of polyhydric alcohols on the mechanical and thermal properties, porosities, and air permeabilities of polyurethane-blended films. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47429.	2.6	1
125	Density Functional Theory Study on Polybenzimidazole with Sulfonic Acid Functional Group for PEMFC Applications. <i>Textile Science and Engineering</i> , 2015, 52, 137-142.	0.4	1
126	Sensors: An Ultrastable Ionic Chemiresistor Skin with an Intrinsically Stretchable Polymer Electrolyte ( <i>Adv. Mater.</i> 20/2018). <i>Advanced Materials</i> , 2018, 30, 1870140.	21.0	0



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127	The Effect of Reaction Condition on Particle Formation in the Synthesis of Silica Powder Using Emulsion. Korean Journal of Materials Research, 2005, 15, 717-721.	0.2	0
128	Effects of ATO Combined Fibers for Solar Energy Transmittance of Sun-Screen Fabrics. Textile Science and Engineering, 2016, 53, 403-408.	0.4	0