

Seung Jae Yang

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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.

86

papers

4,563

citations

31

h-index

67

g-index

93

ext. papers

5,081

ext. citations

9.5

avg, IF

5.63

L-index

#	Paper	IF	Citations
86	MOF-Derived Hierarchically Porous Carbon with Exceptional Porosity and Hydrogen Storage Capacity. <i>Chemistry of Materials</i> , 2012 , 24, 464-470	9.6	593
85	Surface modifications for the effective dispersion of carbon nanotubes in solvents and polymers. <i>Carbon</i> , 2012 , 50, 3-33	10.4	526
84	Preparation and exceptional lithium anodic performance of porous carbon-coated ZnO quantum dots derived from a metal-organic framework. <i>Journal of the American Chemical Society</i> , 2013 , 135, 7394-7401	16.4	418
83	Preparation and Enhanced Hydrostability and Hydrogen Storage Capacity of [email[protected]] Hybrid Composite. <i>Chemistry of Materials</i> , 2009 , 21, 1893-1897	9.6	287
82	Rational Design of Nanostructured Functional Interlayer/Separator for Advanced Li ⁺ Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1707411	15.6	196
81	Hidden Second Oxidation Step of Hummers Method. <i>Chemistry of Materials</i> , 2016 , 28, 756-764	9.6	149
80	Flexible and Robust Thermoelectric Generators Based on All-Carbon Nanotube Yarn without Metal Electrodes. <i>ACS Nano</i> , 2017 , 11, 7608-7614	16.7	146
79	Preparation of highly moisture-resistant black-colored metal organic frameworks. <i>Advanced Materials</i> , 2012 , 24, 4010-3	24	135
78	MOF-derived ZnO and ZnO@C composites with high photocatalytic activity and adsorption capacity. <i>Journal of Hazardous Materials</i> , 2011 , 186, 376-82	12.8	104
77	Self-Assembly of Metal Phenolic Mesocrystals and Morphosynthetic Transformation toward Hierarchically Porous Carbons. <i>Journal of the American Chemical Society</i> , 2015 , 137, 8269-73	16.4	98
76	Rational design of exfoliated 1T MoS ₂ @CNT-based bifunctional separators for lithium sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23909-23918	13	96
75	Easy synthesis of highly nitrogen-enriched graphitic carbon with a high hydrogen storage capacity at room temperature. <i>Carbon</i> , 2009 , 47, 1585-1591	10.4	95
74	Enhanced hydrogen storage capacity of Pt-loaded CNT@MOF-5 hybrid composites. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 13062-13067	6.7	83
73	Preparation of a freestanding, macroporous reduced graphene oxide film as an efficient and recyclable sorbent for oils and organic solvents. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9427	13	78
72	Si-doping effect on the enhanced hydrogen storage of single walled carbon nanotubes and graphene. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 12286-12295	6.7	76
71	Solvent evaporation mediated preparation of hierarchically porous metal organic framework-derived carbon with controllable and accessible large-scale porosity. <i>Carbon</i> , 2014 , 71, 294-302	10.4	67
70	Partially unzipped carbon nanotubes for high-rate and stable lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 819-826	13	66

69	Simple and cost-effective reduction of graphite oxide by sulfuric acid. <i>Carbon</i> , 2012 , 50, 3229-3232	10.4	62
68	Recent advances in hydrogen storage technologies based on nanoporous carbon materials. <i>Progress in Natural Science: Materials International</i> , 2012 , 22, 631-638	3.6	59
67	Easy preparation of self-assembled high-density buckypaper with enhanced mechanical properties. <i>Nano Letters</i> , 2015 , 15, 190-7	11.5	57
66	Recent progress on biomass-derived ecomaterials toward advanced rechargeable lithium batteries. <i>EcoMat</i> , 2020 , 2, e12019	9.4	55
65	Preparation and Exceptional Mechanical Properties of Bone-Mimicking Size-Tuned Graphene Oxide@Carbon Nanotube Hybrid Paper. <i>ACS Nano</i> , 2016 , 10, 2184-92	16.7	55
64	Facile preparation of reduced graphene oxide-based gas barrier films for organic photovoltaic devices. <i>Energy and Environmental Science</i> , 2014 , 7, 3403-3411	35.4	54
63	The effect of heating rate on porosity production during the low temperature reduction of graphite oxide. <i>Carbon</i> , 2013 , 53, 73-80	10.4	50
62	Wrapping SnO ₂ with porosity-tuned graphene as a strategy for high-rate performance in lithium battery anodes. <i>Carbon</i> , 2015 , 85, 289-298	10.4	48
61	General Relationship between Hydrogen Adsorption Capacities at 77 and 298 K and Pore Characteristics of the Porous Adsorbents. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 10529-10540	3.8	46
60	Stabilization of Insoluble Discharge Products by Facile Aniline Modification for High Performance Li-S Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1500268	21.8	43
59	Simple fabrication of carbon/TiO ₂ composite nanotubes showing dual functions with adsorption and photocatalytic decomposition of Rhodamine B. <i>Nanotechnology</i> , 2012 , 23, 035604	3.4	38
58	A simple method for determining the neutralization point in Boehm titration regardless of the CO ₂ effect. <i>Carbon</i> , 2012 , 50, 3315-3323	10.4	37
57	Preparation and photoluminescence (PL) performance of a nanoweb of P3HT nanofibers with diameters below 100 nm. <i>Journal of Materials Chemistry</i> , 2011 , 21, 14231		36
56	Facile preparation of monodisperse ZnO quantum dots with high quality photoluminescence characteristics. <i>Nanotechnology</i> , 2008 , 19, 035609	3.4	36
55	Characteristics tuning of graphene-oxide-based-graphene to various end-uses. <i>Energy Storage Materials</i> , 2018 , 14, 8-21	19.4	31
54	One step preparation and excellent performance of CNT yarn based flexible micro lithium ion batteries. <i>Energy Storage Materials</i> , 2016 , 5, 1-7	19.4	29
53	Determination of solubility parameters of single-walled and double-walled carbon nanotubes using a finite-length model. <i>RSC Advances</i> , 2013 , 3, 4814	3.7	28
52	Guidelines for Tailored Chemical Functionalization of Graphene. <i>Chemistry of Materials</i> , 2017 , 29, 307-318	3.6	28

51	Effects of carbon dioxide and acidic carbon compounds on the analysis of Boehm titration curves. <i>Carbon</i> , 2012 , 50, 1510-1516	10.4	28
50	Metal-Phenolic Carbon Nanocomposites for Robust and Flexible Energy-Storage Devices. <i>ChemSusChem</i> , 2017 , 10, 1675-1682	8.3	26
49	Impact of large-scale meso- and macropore structures in adenosine-derived affordable noble carbon on efficient reversible oxygen electrocatalytic redox reactions. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11720-11724	13	25
48	Quantum Hall effect in graphene decorated with disordered multilayer patches. <i>Applied Physics Letters</i> , 2013 , 103, 233110	3.4	24
47	Morphochemical imprinting of melamine cyanurate mesocrystals in glucose-derived carbon for high performance lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20635-20642	13	23
46	Influence of H ⁺ ion irradiation on the surface and microstructural changes of a nuclear graphite. <i>Fusion Engineering and Design</i> , 2012 , 87, 344-351	1.7	23
45	Rational Design of 1D Partially Graphitized N-Doped Hierarchical Porous Carbon with Uniaxially Packed Carbon Nanotubes for High-Performance Lithium-Ion Batteries. <i>ACS Nano</i> , 2018 , 12, 11106-11119	16.7	23
44	Preparation of PCDTBT nanofibers with a diameter of 20 nm and their application to air-processed organic solar cells. <i>Nanoscale</i> , 2014 , 6, 2847-54	7.7	22
43	Effects of structural modifications on the hydrogen storage capacity of MOF-5. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 5777-5783	6.7	22
42	Ultrafast room-temperature reduction of graphene oxide to graphene with excellent dispersibility by lithium naphthalenide. <i>Carbon</i> , 2013 , 63, 165-174	10.4	21
41	Enhanced water stability and CO ₂ gas sorption properties of a methyl functionalized titanium metal-organic framework. <i>New Journal of Chemistry</i> , 2014 , 38, 2752-2755	3.6	19
40	Concentration-Driven Evolution of Crystal Structure, Pore Characteristics, and Hydrogen Storage Capacity of Metal Organic Framework-5s: Experimental and Computational Studies. <i>Chemistry of Materials</i> , 2010 , 22, 6138-6145	9.6	18
39	Enhanced gas barrier property of stacking-controlled reduced graphene oxide films for encapsulation of polymer solar cells. <i>Carbon</i> , 2019 , 150, 275-283	10.4	14
38	New insights into the oxidation of single-walled carbon nanotubes for the fabrication of transparent conductive films. <i>Carbon</i> , 2015 , 81, 525-534	10.4	14
37	Macroscopically interconnected hierarchically porous carbon monolith by metal-phenolic coordination as a sorbent for multi-scale molecules. <i>Carbon</i> , 2018 , 126, 190-196	10.4	13
36	Reversible pore size control of elastic microporous material by mechanical force. <i>Chemistry - A European Journal</i> , 2013 , 19, 13009-16	4.8	13
35	Highly reproducible thermocontrolled electrospun fiber based organic photovoltaic devices. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 4481-7	9.5	13
34	Stacked double-walled carbon nanotube sheet electrodes for electrochemically harvesting thermal energy. <i>Carbon</i> , 2019 , 147, 559-565	10.4	12

33	Unusual thermopower of inhomogeneous graphene grown by chemical vapor deposition. <i>Applied Physics Letters</i> , 2014 , 104, 021902	3.4	12
32	Effect of annealing with pressure on tungsten film properties fabricated by atmospheric plasma spray. <i>Metals and Materials International</i> , 2014 , 20, 1037-1042	2.4	12
31	A universal surface modification method of carbon nanotube fibers with enhanced tensile strength. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 140, 106182	8.4	12
30	A sustainable synthesis alternative for IL-derived N-doped carbons: Bio-based-imidazolium compounds. <i>Carbon</i> , 2015 , 94, 641-645	10.4	11
29	Revisit to the correlation of surface characteristic nature with performance of N-enriched carbon-based supercapacitor. <i>Carbon</i> , 2018 , 140, 68-76	10.4	11
28	Deposition/erosion and H/D retention characteristics in gaps of PFCs in KSTAR studied by cavity technique. <i>Journal of Nuclear Materials</i> , 2013 , 438, S698-S706	3.3	11
27	Secondary Interactions of Graphene Oxide on Liquid Crystal Formation and Stability. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1600383	3.1	9
26	Function-regeneration of non-porous hydrolyzed-MOF-derived materials. <i>Nano Research</i> , 2019 , 12, 1921-1930	10.9	9
25	Pseudo metal-organic coordination derived one-step carbonization of non-carbonizable carboxylate organic molecules toward functional mesostructured porous carbons. <i>Carbon</i> , 2021 , 173, 637-645	10.4	9
24	Crucial Role of Oxidation Debris of Carbon Nanotubes in Subsequent End-Use Applications of Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 17552-17564	9.5	8
23	Atomic-Distributed Coordination State of Metal-Phenolic Compounds Enabled Low Temperature Graphitization for High-Performance Multioriented Graphite Anode. <i>Small</i> , 2020 , 16, e2003104	11	8
22	Simple Preparation of Anatase Titanium Dioxide Nanoparticles by Heating Titanium-Organic Frameworks. <i>Bulletin of the Korean Chemical Society</i> , 2014 , 35, 2477-2480	1.2	8
21	Preliminary test results on tungsten tile with castellation structures in KSTAR. <i>Fusion Engineering and Design</i> , 2014 , 89, 1704-1708	1.7	7
20	Easy preparation of partially-opened carbon nanotubes by simple air oxidation for high performance LiB batteries. <i>RSC Advances</i> , 2016 , 6, 113522-113526	3.7	7
19	Revisiting the Role of Graphene Quantum Dots in Ternary Organic Solar Cells: Insights into the Nanostructure Reconstruction and Effective Förster Resonance Energy Transfer. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8826-8835	6.1	7
18	Demonstration of the nanosize effect of carbon nanomaterials on the dehydrogenation temperature of ammonia borane. <i>Nanoscale Advances</i> , 2019 , 1, 4697-4703	5.1	7
17	All-in-one flexible supercapacitor with ultrastable performance under extreme load.. <i>Science Advances</i> , 2022 , 8, eabl8631	14.3	6
16	Influence of the physicochemical characteristics of reduced graphene oxides on the gas permeability of the barrier films for organic electronics. <i>Chemical Communications</i> , 2017 , 53, 6573-6576	5.8	5

15	Effect of microstructure and morphological properties of carbon nanotubes on the length reduction during melt processing. <i>Composites Science and Technology</i> , 2015 , 112, 42-49	8.6	5
14	Mechanical Properties and Epoxy Resin Infiltration Behavior of Carbon-Nanotube-Fiber-Based Single-Fiber Composites. <i>Materials</i> , 2020 , 14,	3.5	5
13	Rational Design of Metal-Organic Framework-Based Materials for Advanced Li/S Batteries. <i>Bulletin of the Korean Chemical Society</i> , 2021 , 42, 148-158	1.2	5
12	Function-convertible metal-organic crystal derived from liquid-solid interfacial reaction for lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2021 , 491, 229593	8.9	5
11	Metal-Phenolic Carbon Nanocomposites for Robust and Flexible Energy-Storage Devices. <i>ChemSusChem</i> , 2017 , 10, 1644-1644	8.3	4
10	Versatile reorganization of metal-polyphenol coordination on CNTs for dispersion, assembly, and transformation. <i>Carbon</i> , 2019 , 144, 402-409	10.4	4
9	Facile preparation of ZnO quantum dots@porous carbon composites through direct carbonization of metal-organic complex for high-performance lithium ion batteries. <i>Carbon Letters</i> , 2021 , 31, 323-329	2.3	4
8	High-Density Carbon Nanotube Wet-laid Buckypapers with Enhanced Strength and Conductivity Using a High-pressure Homogenization Process. <i>Bulletin of the Korean Chemical Society</i> , 2017 , 38, 438-443 ^{1,2}	1.2	3
7	Fast-chargeable N-doped multi-oriented graphitic carbon as a Li-intercalation compound. <i>Energy Storage Materials</i> , 2021 ,	19.4	3
6	Facile Fabrication of Anisotropic Multicompartmental Microfibers Using Charge Reversal Electrohydrodynamic Co-Jetting. <i>Macromolecular Rapid Communications</i> , 2021 , e2100560	4.8	2
5	A New Class of Carbon Nanostructures for High-Performance Electro-Magnetic and -Chemical Barriers. <i>Advanced Science</i> , 2021 , 8, e2102718	13.6	2
4	Effect of Helmholtz Oscillation on Auto-shroud for APS Tungsten Carbide Coating. <i>Journal of Thermal Spray Technology</i> , 2013 , 22, 756-763	2.5	1
3	Concentration-driven polymorphic mesocrystal and morphosynthetic transformation toward omni-adsorbent with the widest range of pores. <i>Chemical Engineering Journal</i> , 2021 , 433, 133871	14.7	0
2	Lithium Ion Batteries: Atomic-Distributed Coordination State of Metal-Phenolic Compounds Enabled Low Temperature Graphitization for High-Performance Multioriented Graphite Anode (Small 33/2020). <i>Small</i> , 2020 , 16, 2070182	11	0
1	Dimension-controlled N-doped graphitic carbon nanostructures through low-temperature metal-catalyzed transformation from C ₃ N ₄ for high-performance electrochemical barrier in lithium-sulfur batteries. <i>Carbon</i> , 2022 , 196, 304-312	10.4	0