

Joonwon Lim

List of Publications by Year in Descending Order

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Version: 2024-04-20

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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.

38
papers

2,745
citations

22
h-index

46
g-index

46
ext. papers

3,103
ext. citations

13.5
avg, IF

5.13
L-index

#	Paper	IF	Citations
38	Restacked nanohybrid graphene layers with expanded interlayer distance enabled by inorganic spacer for highly efficient, flexible Na-ion battery anodes. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 886, 115137	4.1	2
37	Discovery of Single-Atom Catalyst: Customized Heteroelement Dopants on Graphene. <i>Accounts of Materials Research</i> , 2021 , 2, 394-406	7.5	3
36	Multidimensional TiCT MXene Architectures Interfacial Electrochemical Self-Assembly. <i>ACS Nano</i> , 2021 , 15, 10058-10066	16.7	18
35	CNT-rGO Hydrogel-Integrated Fabric Composite Synthesized via an Interfacial Gelation Process for Wearable Supercapacitor Electrodes. <i>ACS Omega</i> , 2021 , 6, 19578-19585	3.9	3
34	Highly uniform, straightforward, controllable fabrication of copper nano-objects via artificial nucleation-assisted electrodeposition. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 897, 115594	4.1	1
33	N2-dopant of graphene with electrochemically switchable bifunctional ORR/OER catalysis for Zn-air battery. <i>Energy Storage Materials</i> , 2020 , 32, 517-524	19.4	30
32	Intact Crystalline Semiconducting Graphene Nanoribbons from Unzipping Nitrogen-Doped Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 38006-38015	9.5	9
31	Nitrogen-Dopant-Induced Organic/Inorganic Hybrid Perovskite Crystal Growth on Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2019 , 29, 1902489	15.6	11
30	Cobalt Based Nanoparticles Embedded Reduced Graphene Oxide Aerogel for Hydrogen Evolution Electrocatalyst. <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1900090	3.1	8
29	Open porous graphene nanoribbon hydrogel via additive-free interfacial self-assembly: Fast mass transport electrodes for high-performance biosensing and energy storage. <i>Energy Storage Materials</i> , 2019 , 16, 251-258	19.4	17
28	Graphene oxide liquid crystals: a frontier 2D soft material for graphene-based functional materials. <i>Chemical Society Reviews</i> , 2018 , 47, 6013-6045	58.5	88
27	Ultrastable Graphene-Encapsulated 3 nm Nanoparticles by In Situ Chemical Vapor Deposition. <i>Advanced Materials</i> , 2018 , 30, e1805023	24	17
26	Perylene tetracarboxylate surfactant assisted liquid phase exfoliation of graphite into graphene nanosheets with facile re-dispersibility in aqueous/organic polar solvents. <i>Carbon</i> , 2017 , 119, 555-568	10.4	58
25	Cobalt-Based Active Species Molecularly Immobilized on Carbon Nanotubes for the Oxygen Reduction Reaction. <i>ChemSusChem</i> , 2017 , 10, 3473-3481	8.3	16
24	Flash Light Millisecond Self-Assembly of High Block Copolymers for Wafer-Scale Sub-10 nm Nanopatterning. <i>Advanced Materials</i> , 2017 , 29, 1700595	24	66
23	Nitrogen Dopants in Carbon Nanomaterials: Defects or a New Opportunity?. <i>Small Methods</i> , 2017 , 1, 1600014	12.8	114
22	Spontaneous linker-free binding of polyoxometalates on nitrogen-doped carbon nanotubes for efficient water oxidation. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1941-1947	13	39

21	Supramolecular Nanotubules as a Catalytic Regulator for Palladium Cations: Applications in Selective Catalysis. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11511-11514	16.4	36
20	Supramolecular Nanotubules as a Catalytic Regulator for Palladium Cations: Applications in Selective Catalysis. <i>Angewandte Chemie</i> , 2017 , 129, 11669-11672	3.6	5
19	Interface-Confined High Crystalline Growth of Semiconducting Polymers at Graphene Fibers for High-Performance Wearable Supercapacitors. <i>ACS Nano</i> , 2017 , 11, 9424-9434	16.7	75
18	Omnidirectional Deformable Energy Textile for Human Joint Movement Compatible Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 41363-41370	9.5	11
17	Carbon nanotube-grafted inverse opal nanostructures. <i>Optical Materials Express</i> , 2017 , 7, 2242	2.6	2
16	Highly tunable refractive index visible-light metasurface from block copolymer self-assembly. <i>Nature Communications</i> , 2016 , 7, 12911	17.4	109
15	3D Tailored Crumpling of Block-Copolymer Lithography on Chemically Modified Graphene. <i>Advanced Materials</i> , 2016 , 28, 1591-6	24	46
14	Dopant-specific unzipping of carbon nanotubes for intact crystalline graphene nanostructures. <i>Nature Communications</i> , 2016 , 7, 10364	17.4	94
13	Subnanometer Cobalt-Hydroxide-Anchored N-Doped Carbon Nanotube Forest for Bifunctional Oxygen Catalyst. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 1571-7	9.5	62
12	Large-Area Buckled MoS ₂ Films on the Graphene Substrate. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 13512-9	9.5	30
11	High Energy Density All Solid State Asymmetric Pseudocapacitors Based on Free Standing Reduced Graphene Oxide-Co ₃ O ₄ Composite Aerogel Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22253-60	9.5	44
10	Self-Size-Limiting Nanoscale Perforation of Graphene for Dense Heteroatom Doping. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25898-905	9.5	22
9	Selective and Regenerative Carbon Dioxide Capture by Highly Polarizing Porous Carbon Nitride. <i>ACS Nano</i> , 2015 , 9, 9148-57	16.7	73
8	Synergistic concurrent enhancement of charge generation, dissociation, and transport in organic solar cells with plasmonic metal-carbon nanotube hybrids. <i>Advanced Materials</i> , 2015 , 27, 1519-25	24	77
7	Three-dimensional shape engineered, interfacial gelation of reduced graphene oxide for high rate, large capacity supercapacitors. <i>Advanced Materials</i> , 2014 , 26, 615-9, 505	24	349
6	N-doped graphitic self-encapsulation for high performance silicon anodes in lithium-ion batteries. <i>Energy and Environmental Science</i> , 2014 , 7, 621-626	35.4	127
5	Electroless Bimetal Decoration on N-Doped Carbon Nanotubes and Graphene for Oxygen Reduction Reaction Catalysts. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 965-970	3.1	19
4	Liquid crystal size selection of large-size graphene oxide for size-dependent N-doping and oxygen reduction catalysis. <i>ACS Nano</i> , 2014 , 8, 9073-80	16.7	99

3	Nitrogen-doped carbon nanotubes and graphene composite structures for energy and catalytic applications. <i>Chemical Communications</i> , 2014 , 50, 6818-30	5.8	361
2	Molybdenum sulfide/N-doped CNT forest hybrid catalysts for high-performance hydrogen evolution reaction. <i>Nano Letters</i> , 2014 , 14, 1228-33	11.5	554
1	Direct growth of polyaniline chains from N-doped sites of carbon nanotubes. <i>Small</i> , 2013 , 9, 3829-33	11	42