Yi Lin

List of Publications by Year in descending order

65 papers	9,769 citations	71102 41 h-index	114465 63 g-index
68 all docs	68 docs citations	68 times ranked	12606 citing authors

#	Article	IF	Citations
1	Practical considerations in designing solid state Li-S cells for electric aviation. Electrochimica Acta, 2022, 403, 139406.	5.2	7
2	Li-Ion Permeability of Holey Graphene in Solid State Batteries: A Particle Dynamics Study. ACS Applied Materials & Interfaces, 2022, 14, 21363-21370.	8.0	1
3	Architecture Transformations of Ultrahigh Areal Capacity Air Cathodes for Lithiumâ€Oxygen Batteries. Batteries and Supercaps, 2021, 4, 120-130.	4.7	5
4	Holey Grapheneâ€“Enabled Solvent-Free Preparation of Ultrahigh Mass Loading Selenium Cathodes for High Areal Capacity Lithiumâ€“Selenium Batteries. Frontiers in Energy Research, 2021, 9, .	2.3	3
5	Dry-pressed lithium nickel cobalt manganese oxide (NCM) cathodes enabled by holey graphene host. Electrochimica Acta, 2020, 362, 137129.	5.2	9
6	Shuttling Induced Starvation of Redox Mediators in High Areal Capacity Rechargeable Lithium-Oxygen Batteries. Journal of the Electrochemical Society, 2020, 167, 080522.	2.9	7
7	Highâ€Performance, Longâ€Life, Rechargeable Liâ€“CO₂ Batteries based on a 3D Holey Graphene Cathode Implanted with Single Iron Atoms. Advanced Materials, 2020, 32, e1907436.	21.0	133
8	Picosecond laser surface treatment and analysis of thermoplastic composites for structural adhesive bonding. Composites Part B: Engineering, 2020, 191, 107939.	12.0	19
9	An ultra-long life, high-performance, flexible Liâ€“CO2 battery based on multifunctional carbon electrocatalysts. Nano Energy, 2020, 71, 104595.	16.0	80
10	Dry Pressing Neat Active Materials into Ultrahigh Mass Loading Sandwich Cathodes Enabled by Holey Graphene Scaffold. ACS Applied Energy Materials, 2020, 3, 6374-6382.	5.1	10
11	Optimized surface treatment of aerospace composites using a picosecond laser. Composites Part B: Engineering, 2019, 175, 107155.	12.0	16
12	Carbonâ€Based Metalâ€Free Catalysts for Energy Storage and Environmental Remediation. Advanced Materials, 2019, 31, e1806128.	21.0	188
13	Evaluating graphene oxide and holey graphene oxide membrane performance for water purification. Journal of Membrane Science, 2019, 588, 117195.	8.2	43
14	Facile, Solventâ€Free Preparation of High Density, High Mass Loading Sulfur Cathodes Enabled by Dryâ€Pressable Holey Graphene Scaffolds. Batteries and Supercaps, 2019, 2, 774-783.	4.7	25
15	Scalable Dry Processing of Binder-Free Lithium-Ion Battery Electrodes Enabled by Holey Graphene. ACS Applied Energy Materials, 2019, 2, 2990-2997.	5.1	55
16	Nanomanufacturing of graphene nanosheets through nano-hole opening and closing. Materials Today, 2019, 24, 26-32.	14.2	48
17	Extrusionâ€Based 3D Printing of Hierarchically Porous Advanced Battery Electrodes. Advanced Materials, 2018, 30, e1705651.	21.0	241
18	Synthesis and characterization of copolyimides containing fluorine and silicon surface-modifying agents. High Performance Polymers, 2018, 30, 355-364.	1.8	0

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19	Highâ€Performance Liâ€CO₂ Batteries Based on Metalâ€Free Carbon Quantum Dot/Holey Graphene Composite Catalysts. Advanced Functional Materials, 2018, 28, 1804630.	14.9	121
20	Flexible lithiumâ€“CO₂ battery with ultrahigh capacity and stable cycling. Energy and Environmental Science, 2018, 11, 3231-3237.	30.8	117
21	Holey graphene: a unique structural derivative of graphene. Materials Research Letters, 2017, 5, 209-234.	8.7	85
22	Compressible, Dense, Three-Dimensional Holey Graphene Monolithic Architecture. ACS Nano, 2017, 11, 3189-3197.	14.6	44
23	Highly Rechargeable Lithiumâ€CO₂ Batteries with a Boronâ€and Nitrogenâ€Codoped Holeyâ€Graphene Cathode. Angewandte Chemie - International Edition, 2017, 56, 6970-6974.	13.8	260
24	Solution Processed Boron Nitride Nanosheets: Synthesis, Assemblies and Emerging Applications. Advanced Functional Materials, 2017, 27, 1701450.	14.9	160
25	Highly Rechargeable Lithiumâ€CO₂ Batteries with a Boronâ€and Nitrogenâ€Codoped Holeyâ€Graphene Cathode. Angewandte Chemie, 2017, 129, 7074-7078.	2.0	24
26	Holey Carbon Nanotubes from Controlled Air Oxidation. Advanced Functional Materials, 2017, 27, 1700762.	14.9	21
27	Ultrahigh-Capacity Lithiumâ€“Oxygen Batteries Enabled by Dry-Pressed Holey Graphene Air Cathodes. Nano Letters, 2017, 17, 3252-3260.	9.1	132
28	Highly compressible, binderless and ultrathick holey graphene-based electrode architectures. Nano Energy, 2017, 31, 386-392.	16.0	39
29	Dry-Processed, Binder-Free Holey Graphene Electrodes for Supercapacitors with Ultrahigh Areal Loadings. ACS Applied Materials & Interfaces, 2016, 8, 29478-29485.	8.0	76
30	Evolution of MoirÃ© Profiles from van der Waals Superstructures of Boron Nitride Nanosheets. Scientific Reports, 2016, 6, 26084.	3.3	19
31	Nitrogen-Doped Holey Graphene for High-Performance Rechargeable Liâ€“O₂ Batteries. ACS Energy Letters, 2016, 1, 260-265.	17.4	116
32	Oxidative Etching of Hexagonal Boron Nitride Toward Nanosheets with Defined Edges and Holes. Scientific Reports, 2015, 5, 14510.	3.3	58
33	Purification of Carbon Nanotube Sheets. Advanced Engineering Materials, 2015, 17, 674-688.	3.5	22
34	Nitrogenâ€Doped Holey Graphene as an Anode for Lithiumâ€Ion Batteries with High Volumetric Energy Density and Long Cycle Life. Small, 2015, 11, 6179-6185.	10.0	115
35	Holey Graphene Nanomanufacturing: Structure, Composition, and Electrochemical Properties. Advanced Functional Materials, 2015, 25, 2920-2927.	14.9	150
36	Chemical Sharpening, Shortening, and Unzipping of Boron Nitride Nanotubes. Advanced Functional Materials, 2014, 24, 4497-4506.	14.9	67

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37	Scalable Holey Graphene Synthesis and Dense Electrode Fabrication toward High-Performance Ultracapacitors. ACS Nano, 2014, 8, 8255-8265.	14.6	212
38	Palladium nanoparticles supported on carbon nanotubes from solventless preparations: versatile catalysts for ligand-free Suzuki cross coupling reactions. Journal of Materials Chemistry A, 2013, 1, 12909.	10.3	92
39	Bulk preparation of holey graphene via controlled catalytic oxidation. Nanoscale, 2013, 5, 7814.	5.6	97
40	Polyaniline/Carbon Nanotube Sheet Nanocomposites: Fabrication and Characterization. ACS Applied Materials & Interfaces, 2013, 5, 8597-8606.	8.0	40
41	Low friction, elastomer-containing copolyimides. High Performance Polymers, 2013, 25, 3-12.	1.8	0
42	Large scale synthesis of single-crystal and polycrystalline boron nitride nanosheets. Journal of Materials Science, 2013, 48, 2543-2549.	3.7	25
43	In situmechanical property measurements of amorphous carbonâ€“boron nitride nanotube nanostructures. Nanotechnology, 2012, 23, 035701.	2.6	5
44	Advances in 2D boron nitride nanostructures: nanosheets, nanoribbons, nanomeshes, and hybrids with graphene. Nanoscale, 2012, 4, 6908.	5.6	745
45	Aqueously Dispersed Silver Nanoparticle-Decorated Boron Nitride Nanosheets for Reusable, Thermal Oxidation-Resistant Surface Enhanced Raman Spectroscopy (SERS) Devices. ACS Applied Materials & Interfaces, 2012, 4, 1110-1117.	8.0	168
46	Aqueous Dispersions of Few-Layered and Monolayered Hexagonal Boron Nitride Nanosheets from Sonication-Assisted Hydrolysis: Critical Role of Water. Journal of Physical Chemistry C, 2011, 115, 2679-2685.	3.1	519
47	Instantaneous Formation of Metal and Metal Oxide Nanoparticles on Carbon Nanotubes and Graphene via Solvent-Free Microwave Heating. ACS Applied Materials & Interfaces, 2011, 3, 1652-1664.	8.0	97
48	Defect Functionalization of Hexagonal Boron Nitride Nanosheets. Journal of Physical Chemistry C, 2010, 114, 17434-17439.	3.1	208
49	Soluble, Exfoliated Hexagonal Boron Nitride Nanosheets. Journal of Physical Chemistry Letters, 2010, 1, 277-283.	4.6	668
50	Carbon Nanosheets for Polymeric Nanocomposites with High Thermal Conductivity. Advanced Materials, 2009, 21, 2088-2092.	21.0	324
51	Mercury Capture from Flue Gas Using Palladium Nanoparticle-Decorated Substrates as Injected Sorbent. Energy & Fuels, 2009, 23, 1512-1517.	5.1	25
52	Rapid, Solventless, Bulk Preparation of Metal Nanoparticle-Decorated Carbon Nanotubes. ACS Nano, 2009, 3, 871-884.	14.6	233
53	Direct Mechanochemical Formation of Metal Nanoparticles on Carbon Nanotubes. Journal of Physical Chemistry C, 2009, 113, 14858-14862.	3.1	37
54	Functionalized carbon nanotubes for polymeric nanocomposites. Journal of Materials Chemistry, 2007, 17, 1143.	6.7	153

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55	Preparation, Characterization, and Evaluation of Immuno Carbon Nanotubes. Mikrochimica Acta, 2006, 152, 249-254.	5.0	13
56	Carbon Nanotubes for Immunomagnetic Separation of Escherichia Coli O157:H7. Journal of Nanoscience and Nanotechnology, 2006, 6, 868-871.	0.9	13
57	Functionalization of Carbon Nanotubes with Derivatized Polyimide. Macromolecules, 2005, 38, 7670-7675.	4.8	85
58	Solubilization of boron nitride nanotubes. Chemical Communications, 2005, , 3670.	4.1	188
59	Protein-Affinity of Single-Walled Carbon Nanotubes in Water. Journal of Physical Chemistry B, 2004, 108, 3760-3764.	2.6	150
60	Functionalized Carbon Nanotubes with Tethered Pyrenes:â€‰ Synthesis and Photophysical Properties. Journal of Physical Chemistry B, 2004, 108, 11447-11453.	2.6	76
61	Advances toward bioapplications of carbon nanotubes. Journal of Materials Chemistry, 2004, 14, 527.	6.7	827
62	High Aqueous Solubility of Functionalized Single-Walled Carbon Nanotubes. Langmuir, 2004, 20, 4777-4778.	3.5	119
63	Functionalization of Carbon Nanotubes with Polystyrene. Macromolecules, 2002, 35, 9466-9471.	4.8	379
64	Functionalized Carbon Nanotubes:â€‰ Properties and Applications. Accounts of Chemical Research, 2002, 35, 1096-1104.	15.6	1,560
65	Defunctionalization of Functionalized Carbon Nanotubes. Nano Letters, 2001, 1, 439-441.	9.1	191