John W Connell

List of Publications by Year
in descending order

31	3,159	304743	434195
papers	citations	22 h-index	31 g-index

33	33	33	4220
all docs	docs citations	times ranked	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	An ultra-long life, high-performance, flexible Liâ€“CO2 battery based on multifunctional carbon electrocatalysts. Nano Energy, 2020, 71, 104595.	16.0	80
9	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
10	Carbonâ€Based Metalâ€Free Catalysts for Energy Storage and Environmental Remediation. Advanced Materials, 2019, 31, e1806128.	21.0	188
11	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
12	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
13	Extrusionâ€Based 3D Printing of Hierarchically Porous Advanced Battery Electrodes. Advanced Materials, 2018, 30, e1705651.	21.0	241
14	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
15	Flexible lithiumâ€“CO₂ battery with ultrahigh capacity and stable cycling. Energy and Environmental Science, 2018, 11, 3231-3237.	30.8	117
16	Holey graphene: a unique structural derivative of graphene. Materials Research Letters, 2017, 5, 209-234.	8.7	85
17	Compressible, Dense, Three-Dimensional Holey Graphene Monolithic Architecture. ACS Nano, 2017, 11, 3189-3197.	14.6	44
18	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

#	Article	IF	Citations
19	Highly Rechargeable Lithiumâ€CO₂ Batteries with a Boronâ€and Nitrogenâ€Codoped Holeyâ€Graphene Cathode. Angewandte Chemie, 2017, 129, 7074-7078.	2.0	24
20	Ultrahigh-Capacity Lithiumâ€“Oxygen Batteries Enabled by Dry-Pressed Holey Graphene Air Cathodes. Nano Letters, 2017, 17, 3252-3260.	9.1	132
21	Highly compressible, binderless and ultrathick holey graphene-based electrode architectures. Nano Energy, 2017, 31, 386-392.	16.0	39
22	Dry-Processed, Binder-Free Holey Graphene Electrodes for Supercapacitors with Ultrahigh Areal Loadings. ACS Applied Materials & Interfaces, 2016, 8, 29478-29485.	8.0	76
23	Nitrogen-Doped Holey Graphene for High-Performance Rechargeable Liâ€“O₂ Batteries. ACS Energy Letters, 2016, 1, 260-265.	17.4	116
24	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
25	Holey Graphene Nanomanufacturing: Structure, Composition, and Electrochemical Properties. Advanced Functional Materials, 2015, 25, 2920-2927.	14.9	150
26	Scalable Holey Graphene Synthesis and Dense Electrode Fabrication toward High-Performance Ultracapacitors. ACS Nano, 2014, 8, 8255-8265.	14.6	212
27	Bulk preparation of holey graphene via controlled catalytic oxidation. Nanoscale, 2013, 5, 7814.	5.6	97
28	Direct Mechanochemical Formation of Metal Nanoparticles on Carbon Nanotubes. Journal of Physical Chemistry C, 2009, 113, 14858-14862.	3.1	37
29	Incorporation of multi-walled carbon nanotubes into high temperature resin using dry mixing techniques. Composites Part A: Applied Science and Manufacturing, 2006, 37, 465-475.	7.6	30
30	Fabrication and Characterization of High Temperature Resin/Carbon Nanofiber Composites. High Performance Polymers, 2006, 18, 527-544.	1.8	22
31	Dispersion of single wall carbon nanotubes by in situ polymerization under sonication. Chemical Physics Letters, 2002, 364, 303-308.	2.6	716