Thomas S Miller

List of Publications by Year
in descending order

41 papers	2,444 citations	257101 24 h-index	301761 39 g-index
41 all docs	41 docs citations	41 times ranked	3584 citing authors

#	Article	IF	Citations
1	Alleviation of Dendrite Formation on Zinc Anodes via Electrolyte Additives. ACS Energy Letters, 2021, 6, 395-403.	8.8	340
2	Carbon nitrides: synthesis and characterization of a new class of functional materials. Physical Chemistry Chemical Physics, 2017, 19, 15613-15638.	1.3	339
3	Production of phosphorene nanoribbons. Nature, 2019, 568, 216-220.	13.7	208
4	Landing and Catalytic Characterization of Individual Nanoparticles on Electrode Surfaces. Journal of the American Chemical Society, 2012, 134, 18558-18561.	6.6	160
5	Comparison and Reappraisal of Carbon Electrodes for the Voltammetric Detection of Dopamine. Analytical Chemistry, 2013, 85, 11755-11764.	3.2	143
6	Graphitic Carbon Nitride as a Catalyst Support in Fuel Cells and Electrolyzers. Electrochimica Acta, 2016, 222, 44-57.	2.6	97
7	Versatile Polymer-Free Graphene Transfer Method and Applications. ACS Applied Materials & Interfaces, 2016, 8, 8008-8016.	4.0	95
8	Engineering Catalyst Layers for Nextâ€Generation Polymer Electrolyte Fuel Cells: A Review of Design, Materials, and Methods. Advanced Energy Materials, 2021, 11, 2101025.	10.2	85
9	Single Crystal, Luminescent Carbon Nitride Nanosheets Formed by Spontaneous Dissolution. Nano Letters, 2017, 17, 5891-5896.	4.5	76
10	2021 roadmap on lithium sulfur batteries. JPhys Energy, 2021, 3, 031501.	2.3	74
11	Ionic solutions of two-dimensional materials. Nature Chemistry, 2017, 9, 244-249.	6.6	68
12	Operando Electrochemical Atomic Force Microscopy of Solidâ€“Electrolyte Interphase Formation on Graphite Anodes: The Evolution of SEI Morphology and Mechanical Properties. ACS Applied Materials & Interfaces, 2020, 12, 35132-35141.	4.0	65
13	Synthesis, Structure and Electronic Properties of Graphitic Carbon Nitride Films. Journal of Physical Chemistry C, 2018, 122, 25183-25194.	1.5	64
14	Lithium-sulfur battery diagnostics through distribution of relaxation times analysis. Energy Storage Materials, 2022, 51, 97-107.	9.5	54
15	Boron doped diamond ultramicroelectrodes: a generic platform for sensing single nanoparticle electrocatalytic collisions. Chemical Communications, 2013, 49, 5657.	2.2	50
16	PIMâ€1 as a Multifunctional Framework to Enable Highâ€Performance Solidâ€State Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2021, 31, 2104830.	7.8	47
17	Nucleation and Aggregative Growth of Palladium Nanoparticles on Carbon Electrodes: Experiment and Kinetic Model. Journal of Physical Chemistry C, 2015, 119, 17389-17397.	1.5	43
18	Dendrite suppression by anode polishing in zinc-ion batteries. Journal of Materials Chemistry A, 2021, 9, 15355-15362.	5.2	41

#	Article	IF	Citations
19	Characterizing Batteries by In Situ Electrochemical Atomic Force Microscopy: A Critical Review. Advanced Energy Materials, 2021, 11, 2101518.	10.2	40
20	Electrochemistry at carbon nanotube forests: sidewalls and closed ends allow fast electron transfer. Chemical Communications, 2012, 48, 7435.	2.2	37
21	Fast Exfoliation and Functionalisation of Twoâ€Dimensional Crystalline Carbon Nitride by Framework Charging. Angewandte Chemie - International Edition, 2018, 57, 12656-12660.	7.2	35
22	Iron, Nitrogen Coâ€Doped Carbon Spheres as Low Cost, Scalable Electrocatalysts for the Oxygen Reduction Reaction. Advanced Functional Materials, 2021, 31, 2102974.	7.8	35
23	Disentangling water, ion and polymer dynamics in an anion exchange membrane. Nature Materials, 2022, 21, 555-563.	13.3	32
24	Formation of an ion-free crystalline carbon nitride and its reversible intercalation with ionic species and molecular water. Chemical Science, 2019, 10, 2519-2528.	3.7	30
25	The Use of Graphitic Carbon Nitride Based Composite Anodes for Lithiumâ€Ion Battery Applications. Electroanalysis, 2015, 27, 2614-2619.	1.5	24
26	Pt nanoparticle modified single walled carbon nanotube network electrodes for electrocatalysis: Control of the specific surface area over three orders of magnitude. Catalysis Today, 2015, 244, 136-145.	2.2	22
27	Controlled functionalisation of single-walled carbon nanotube network electrodes for the enhanced voltammetric detection of dopamine. Physical Chemistry Chemical Physics, 2015, 17, 26394-26402.	1.3	17
28	Carbon Nitride Materials as Efficient Catalyst Supports for Proton Exchange Membrane Water Electrolyzers. Nanomaterials, 2018, 8, 432.	1.9	17
29	Aquaporin-like water transport in nanoporous crystalline layered carbon nitride. Science Advances, 2020, 6, .	4.7	17
30	Dendritic silver self-assembly in molten-carbonate membranes for efficient carbon dioxide capture. Energy and Environmental Science, 2020, 13, 1766-1775.	15.6	15
31	Fast Exfoliation and Functionalisation of Twoâ€Dimensional Crystalline Carbon Nitride by Framework Charging. Angewandte Chemie, 2018, 130, 12838-12842.	1.6	14
32	Pharaoh's Serpents: New Insights into a Classic Carbon Nitride Material. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 1572-1580.	0.6	12
33	Electrochemical activation of pristine single walled carbon nanotubes: impact on oxygen reduction and other surface sensitive redox processes. Physical Chemistry Chemical Physics, 2014, 16, 9966.	1.3	9
34	Graphitic Carbon Nitride-Graphene Hybrid Nanostructure as a Catalyst Support for Polymer Electrolyte Membrane Fuel Cells. ECS Transactions, 2016, 75, 885-897.	0.3	8
35	Understanding spontaneous dissolution of crystalline layered carbon nitride for tuneable photoluminescent solutions and glasses. Journal of Materials Chemistry A, 2021, 9, 2175-2183.	5.2	8
36	SERS-Active Cu Nanoparticles on Carbon Nitride Support Fabricated Using Pulsed Laser Ablation. Nanomaterials, 2019, 9, 1223.	1.9	7

#	Article	IF	Citations
37	Dual-electrode measurements in a meniscus microcapillary electrochemical cell using a high aspect ratio carbon fibre ultramicroelectrode. Journal of Electroanalytical Chemistry, 2014, 729, 80-86.	1.9	6
38	A novel fuel cell design for operando energy-dispersive x-ray absorption measurements. Journal of Physics Condensed Matter, 2021, 33, 314002.	0.7	6
39	Synthetic tethered silver nanoparticles on reduced graphene oxide for alkaline oxygen reduction catalysis. Journal of Materials Science, 2021, 56, 6966-6976.	1.7	4
40	Quantitative trace level voltammetry in the presence of electrode fouling agents: Comparison of single-walled carbon nanotube network electrodes and screen-printed carbon electrodes. Journal of Electroanalytical Chemistry, 2020, 872, 114137.	1.9	0
41	A New High: Cannabis as a budding source of carbon-based materials for electrochemical power sources. Current Opinion in Electrochemistry, 2021, , 100860.	2.5	0