Thomas S Miller

List of Publications by Citations

40 papers	1,474 citations	18 h-index	38 g-index
41 ext. papers	1,942 ext. citations	10.8 avg, IF	4.73 L-index

#	Paper	IF	Citations
40	Carbon nitrides: synthesis and characterization of a new class of functional materials. *Physical Chemistry Chemical Physics*, **2017**, 19, 15613-15638	3.6	231
39	Landing and catalytic characterization of individual nanoparticles on electrode surfaces. *Journal of the American Chemical Society*, **2012**, 134, 18558-61	16.4	149
38	Production of phosphorene nanoribbons. *Nature*, **2019**, 568, 216-220	50.4	131
37	Comparison and reappraisal of carbon electrodes for the voltammetric detection of dopamine. *Analytical Chemistry*, **2013**, 85, 11755-64	7.8	124
36	Alleviation of Dendrite Formation on Zinc Anodes via Electrolyte Additives. *ACS Energy Letters*, **2021**, 6, 395-403	20.1	110
35	Graphitic Carbon Nitride as a Catalyst Support in Fuel Cells and Electrolyzers. *Electrochimica Acta*, **2016**, 222, 44-57	6.7	83
34	Versatile Polymer-Free Graphene Transfer Method and Applications. *ACS Applied Materials & Interfaces*, **2016**, 8, 8008-16	9.5	74
33	Single Crystal, Luminescent Carbon Nitride Nanosheets Formed by Spontaneous Dissolution. *Nano Letters*, **2017**, 17, 5891-5896	11.5	58
32	Ionic solutions of two-dimensional materials. *Nature Chemistry*, **2017**, 9, 244-249	17.6	58
31	Boron doped diamond ultramicroelectrodes: a generic platform for sensing single nanoparticle electrocatalytic collisions. *Chemical Communications*, **2013**, 49, 5657-9	5.8	44
30	Synthesis, Structure and Electronic Properties of Graphitic Carbon Nitride Films. *Journal of Physical Chemistry C*, **2018**, 122, 25183-25194	3.8	38
29	Nucleation and Aggregative Growth of Palladium Nanoparticles on Carbon Electrodes: Experiment and Kinetic Model. *Journal of Physical Chemistry C*, **2015**, 119, 17389-17397	3.8	35
28	Electrochemistry at carbon nanotube forests: sidewalls and closed ends allow fast electron transfer. *Chemical Communications*, **2012**, 48, 7435-7	5.8	34
27	2021 roadmap on lithium sulfur batteries. *JPhys Energy*, **2021**, 3, 031501	4.9	32
26	Operando Electrochemical Atomic Force Microscopy of Solid-Electrolyte Interphase Formation on Graphite Anodes: The Evolution of SEI Morphology and Mechanical Properties. *ACS Applied Materials & Interfaces*, **2020**, 12, 35132-35141	9.5	30
25	Fast Exfoliation and Functionalisation of Two-Dimensional Crystalline Carbon Nitride by Framework Charging. *Angewandte Chemie - International Edition*, **2018**, 57, 12656-12660	16.4	25
24	The Use of Graphitic Carbon Nitride Based Composite Anodes for Lithium-Ion Battery Applications. *Electroanalysis*, **2015**, 27, 2614-2619	3	22

23	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	5.3	20
22	Formation of an ion-free crystalline carbon nitride and its reversible intercalation with ionic species and molecular water. *Chemical Science*, **2019**, 10, 2519-2528	9.4	18
21	Controlled functionalisation of single-walled carbon nanotube network electrodes for the enhanced voltammetric detection of dopamine. *Physical Chemistry Chemical Physics*, **2015**, 17, 26394-402	3.6	15
20	Engineering Catalyst Layers for Next-Generation Polymer Electrolyte Fuel Cells: A Review of Design, Materials, and Methods. *Advanced Energy Materials*, **2021**, 11, 2101025	21.8	14
19	Iron, Nitrogen Co-Doped Carbon Spheres as Low Cost, Scalable Electrocatalysts for the Oxygen Reduction Reaction. *Advanced Functional Materials*,2102974	15.6	12
18	Pharaohž Serpents: New Insights into a Classic Carbon Nitride Material. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2017**, 643, 1572-1580	1.3	10
17	Dendritic silver self-assembly in molten-carbonate membranes for efficient carbon dioxide capture. *Energy and Environmental Science*, **2020**, 13, 1766-1775	35.4	10
16	Carbon Nitride Materials as Efficient Catalyst Supports for Proton Exchange Membrane Water Electrolyzers. *Nanomaterials*, **2018**, 8,	5.4	10
15	Fast Exfoliation and Functionalisation of Two-Dimensional Crystalline Carbon Nitride by Framework Charging. *Angewandte Chemie*, **2018**, 130, 12838-12842	3.6	9
14	PIM-1 as a Multifunctional Framework to Enable High-Performance Solid-State LithiumSulfur Batteries. *Advanced Functional Materials*, **2021**, 31, 2104830	15.6	9
13	Dendrite suppression by anode polishing in zinc-ion batteries. *Journal of Materials Chemistry A*, **2021**, 9, 15355-15362	13	9
12	Electrochemical activation of pristine single walled carbon nanotubes: impact on oxygen reduction and other surface sensitive redox processes. *Physical Chemistry Chemical Physics*, **2014**, 16, 9966-73	3.6	8
11	Characterizing Batteries by In Situ Electrochemical Atomic Force Microscopy: A Critical Review. *Advanced Energy Materials*, **2021**, 11, 2101518	21.8	8
10	Aquaporin-like water transport in nanoporous crystalline layered carbon nitride. *Science Advances*, **2020**, 6,	14.3	7
9	Graphitic Carbon Nitride-Graphene Hybrid Nanostructure as a Catalyst Support for Polymer Electrolyte Membrane Fuel Cells. *ECS Transactions*, **2016**, 75, 885-897	1	7
8	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	4.1	6
7	Understanding spontaneous dissolution of crystalline layered carbon nitride for tuneable photoluminescent solutions and glasses. *Journal of Materials Chemistry A*, **2021**, 9, 2175-2183	13	5
6	Disentangling water, ion and polymer dynamics in an anion exchange membrane.. *Nature Materials*, **2022**,	27	5

5	SERS-Active Cu Nanoparticles on Carbon Nitride Support Fabricated Using Pulsed Laser Ablation. *Nanomaterials*, **2019**, 9,	5.4	4
4	A novel fuel cell design forenergy-dispersive x-ray absorption measurements. *Journal of Physics Condensed Matter*, **2021**, 33,	1.8	3
3	Synthetic tethered silver nanoparticles on reduced graphene oxide for alkaline oxygen reduction catalysis. *Journal of Materials Science*, **2021**, 56, 6966-6976	4.3	2
2	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	4.1	
1	A New High: Cannabis as a budding source of carbon-based materials for electrochemical power sources. *Current Opinion in Electrochemistry*, **2021**, 100860	7.2	