

Thomas S Miller

List of Publications by Year in Descending Order

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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.

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	Disentangling water, ion and polymer dynamics in an anion exchange membrane.. <i>Nature Materials</i> , 2022 ,	27	5
39	A New High: Cannabis as a budding source of carbon-based materials for electrochemical power sources. <i>Current Opinion in Electrochemistry</i> , 2021 , 100860	7.2	
38	2021 roadmap on lithium sulfur batteries. <i>JPhys Energy</i> , 2021 , 3, 031501	4.9	32
37	A novel fuel cell design forenergy-dispersive x-ray absorption measurements. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	3
36	Synthetic tethered silver nanoparticles on reduced graphene oxide for alkaline oxygen reduction catalysis. <i>Journal of Materials Science</i> , 2021 , 56, 6966-6976	4.3	2
35	Alleviation of Dendrite Formation on Zinc Anodes via Electrolyte Additives. <i>ACS Energy Letters</i> , 2021 , 6, 395-403	20.1	110
34	Understanding spontaneous dissolution of crystalline layered carbon nitride for tuneable photoluminescent solutions and glasses. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 2175-2183	13	5
33	Engineering Catalyst Layers for Next-Generation Polymer Electrolyte Fuel Cells: A Review of Design, Materials, and Methods. <i>Advanced Energy Materials</i> , 2021 , 11, 2101025	21.8	14
32	PIM-1 as a Multifunctional Framework to Enable High-Performance Solid-State LithiumSulfur Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2104830	15.6	9
31	Characterizing Batteries by In Situ Electrochemical Atomic Force Microscopy: A Critical Review. <i>Advanced Energy Materials</i> , 2021 , 11, 2101518	21.8	8
30	Dendrite suppression by anode polishing in zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 15355-15362	13	9
29	Dendritic silver self-assembly in molten-carbonate membranes for efficient carbon dioxide capture. <i>Energy and Environmental Science</i> , 2020 , 13, 1766-1775	35.4	10
28	Quantitative trace level voltammetry in the presence of electrode fouling agents: Comparison of single-walled carbon nanotube network electrodes and screen-printed carbon electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 872, 114137	4.1	
27	Aquaporin-like water transport in nanoporous crystalline layered carbon nitride. <i>Science Advances</i> , 2020 , 6,	14.3	7
26	Operando Electrochemical Atomic Force Microscopy of Solid-Electrolyte Interphase Formation on Graphite Anodes: The Evolution of SEI Morphology and Mechanical Properties. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35132-35141	9.5	30
25	SERS-Active Cu Nanoparticles on Carbon Nitride Support Fabricated Using Pulsed Laser Ablation. <i>Nanomaterials</i> , 2019 , 9,	5.4	4
24	Formation of an ion-free crystalline carbon nitride and its reversible intercalation with ionic species and molecular water. <i>Chemical Science</i> , 2019 , 10, 2519-2528	9.4	18

23	Production of phosphorene nanoribbons. <i>Nature</i> , 2019 , 568, 216-220	50.4	131
22	Carbon Nitride Materials as Efficient Catalyst Supports for Proton Exchange Membrane Water Electrolyzers. <i>Nanomaterials</i> , 2018 , 8,	5.4	10
21	Fast Exfoliation and Functionalisation of Two-Dimensional Crystalline Carbon Nitride by Framework Charging. <i>Angewandte Chemie</i> , 2018 , 130, 12838-12842	3.6	9
20	Fast Exfoliation and Functionalisation of Two-Dimensional Crystalline Carbon Nitride by Framework Charging. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 12656-12660	16.4	25
19	Synthesis, Structure and Electronic Properties of Graphitic Carbon Nitride Films. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 25183-25194	3.8	38
18	Carbon nitrides: synthesis and characterization of a new class of functional materials. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 15613-15638	3.6	231
17	Pharaoh's Serpents: New Insights into a Classic Carbon Nitride Material. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017 , 643, 1572-1580	1.3	10
16	Single Crystal, Luminescent Carbon Nitride Nanosheets Formed by Spontaneous Dissolution. <i>Nano Letters</i> , 2017 , 17, 5891-5896	11.5	58
15	Ionic solutions of two-dimensional materials. <i>Nature Chemistry</i> , 2017 , 9, 244-249	17.6	58
14	Graphitic Carbon Nitride as a Catalyst Support in Fuel Cells and Electrolyzers. <i>Electrochimica Acta</i> , 2016 , 222, 44-57	6.7	83
13	Versatile Polymer-Free Graphene Transfer Method and Applications. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8008-16	9.5	74
12	Graphitic Carbon Nitride-Graphene Hybrid Nanostructure as a Catalyst Support for Polymer Electrolyte Membrane Fuel Cells. <i>ECS Transactions</i> , 2016 , 75, 885-897	1	7
11	Nucleation and Aggregative Growth of Palladium Nanoparticles on Carbon Electrodes: Experiment and Kinetic Model. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 17389-17397	3.8	35
10	Controlled functionalisation of single-walled carbon nanotube network electrodes for the enhanced voltammetric detection of dopamine. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 26394-402 ^{3.6}	3.6	15
9	The Use of Graphitic Carbon Nitride Based Composite Anodes for Lithium-Ion Battery Applications. <i>Electroanalysis</i> , 2015 , 27, 2614-2619	3	22
8	Pt nanoparticle modified single walled carbon nanotube network electrodes for electrocatalysis: Control of the specific surface area over three orders of magnitude. <i>Catalysis Today</i> , 2015 , 244, 136-145 ^{5.3}	5.3	20
7	Electrochemical activation of pristine single walled carbon nanotubes: impact on oxygen reduction and other surface sensitive redox processes. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 9966-73	3.6	8
6	Dual-electrode measurements in a meniscus microcapillary electrochemical cell using a high aspect ratio carbon fibre ultramicroelectrode. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 729, 80-86	4.1	6

5	Comparison and reappraisal of carbon electrodes for the voltammetric detection of dopamine. <i>Analytical Chemistry</i> , 2013 , 85, 11755-64	7.8	124
4	Boron doped diamond ultramicroelectrodes: a generic platform for sensing single nanoparticle electrocatalytic collisions. <i>Chemical Communications</i> , 2013 , 49, 5657-9	5.8	44
3	Landing and catalytic characterization of individual nanoparticles on electrode surfaces. <i>Journal of the American Chemical Society</i> , 2012 , 134, 18558-61	16.4	149
2	Electrochemistry at carbon nanotube forests: sidewalls and closed ends allow fast electron transfer. <i>Chemical Communications</i> , 2012 , 48, 7435-7	5.8	34
1	Iron, Nitrogen Co-Doped Carbon Spheres as Low Cost, Scalable Electrocatalysts for the Oxygen Reduction Reaction. <i>Advanced Functional Materials</i> , 2102974	15.6	12