

Maureen H Tang

List of Publications by Year in descending order

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42
papers

1,914
citations

346980

22
h-index

299063

42
g-index

42
all docs

42
docs citations

42
times ranked

3596
citing authors

#	ARTICLE	IF	CITATIONS
1	Stabilization of gamma sulfur at room temperature to enable the use of carbonate electrolyte in Li-S batteries. <i>Communications Chemistry</i> , 2022, 5, .	2.0	18
2	Deeper learning in electrocatalysis: realizing opportunities and addressing challenges. <i>Current Opinion in Chemical Engineering</i> , 2022, 36, 100824.	3.8	6
3	A reaction engineering approach to non-aqueous battery lifetime. <i>Joule</i> , 2021, 5, 551-563.	11.7	13
4	Asymmetric Interdigitated Electrodes for Amperometric Detection of Soluble Products. <i>Journal of the Electrochemical Society</i> , 2021, 168, 057519.	1.3	4
5	On the relationship between potential of zero charge and solvent dynamics in the reversible hydrogen electrode. <i>Journal of Catalysis</i> , 2021, 398, 161-170.	3.1	7
6	Performance and pathways of electrochemical cyclohexane oxidation. <i>Current Opinion in Electrochemistry</i> , 2021, 30, 100791.	2.5	5
7	$\text{GdNi}_2\text{SnO}_7$ electrocatalysts for active and selective ozone production. <i>AIChE Journal</i> , 2021, 67, e17486.	1.8	8
8	Characterization of a Sulfonated Poly(Ionic Liquid) Block Copolymer as an Ionomer for Proton Exchange Membrane Fuel Cells using Rotating Disk Electrode. <i>Journal of the Electrochemical Society</i> , 2021, 168, 124511.	1.3	6
9	How Transition Metals Enable Electron Transfer through the SEI: Part I. Experiments and Butler-Volmer Modeling. <i>Journal of the Electrochemical Society</i> , 2020, 167, 013502.	1.3	17
10	How Transition Metals Enable Electron Transfer through the SEI: Part II. Redox-Cycling Mechanism Model and Experiment. <i>Journal of the Electrochemical Society</i> , 2020, 167, 013503.	1.3	11
11	Correlating Processing Conditions to Short- and Long-Range Order in Coating and Drying Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 11681-11689.	2.5	23
12	Beyond Adsorption Descriptors in Hydrogen Electrocatalysis. <i>ACS Catalysis</i> , 2020, 10, 14747-14762.	5.5	95
13	Chemical Compatibility of Battery Electrolytes with Rapid Prototyping Materials and Adhesives. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 15948-15954.	1.8	1
14	Caffeinated Interfaces Enhance Alkaline Hydrogen Electrocatalysis. <i>ACS Catalysis</i> , 2020, 10, 6798-6802.	5.5	20
15	Quantifying Environmental Effects on the Solution and Solid-State Stability of a Phenothiazine Radical Cation. <i>Chemistry of Materials</i> , 2020, 32, 3007-3017.	3.2	26
16	Kinetic Isotope Effects Quantify pH-Sensitive Water Dynamics at the Pt Electrode Interface. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2308-2313.	2.1	43
17	Modifying the Electrocatalyst-Ionomer Interface via Sulfonated Poly(ionic liquid) Block Copolymers to Enable High-Performance Polymer Electrolyte Fuel Cells. <i>ACS Energy Letters</i> , 2020, 5, 1726-1731.	8.8	50
18	Review: mechanisms and consequences of chemical cross-talk in advanced Li-ion batteries. <i>JPhys Energy</i> , 2020, 2, 032002.	2.3	54

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19	Exploiting dynamic water structure and structural sensitivity for nanoscale electrocatalyst design. <i>Nano Energy</i> , 2019, 64, 103963.	8.2	30
20	Reliable Reference Electrodes for Nonaqueous Sodium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3260-A3264.	1.3	22
21	Electroactive decomposition products cause erroneous intercalation signals in sodium-ion batteries. <i>Electrochemistry Communications</i> , 2019, 100, 70-73.	2.3	10
22	Short-range contacts govern the performance of industry-relevant battery cathodes. <i>Journal of Power Sources</i> , 2018, 387, 49-56.	4.0	43
23	Ni- and Sb-Doped SnO ₂ Electrocatalysts with High Current Efficiency for Ozone Production via Electrodeposited Nanostructures. <i>Journal of the Electrochemical Society</i> , 2018, 165, E833-E840.	1.3	13
24	Determining the Viability of Hydroxide-Mediated Bifunctional HER/HOR Mechanisms through Single-Crystal Voltammetry and Microkinetic Modeling. <i>Journal of the Electrochemical Society</i> , 2018, 165, J3209-J3221.	1.3	55
25	Three-Dimensional Visualization of Conductive Domains in Battery Electrodes with Contrast-Enhancing Nanoparticles. <i>ACS Applied Energy Materials</i> , 2018, 1, 4479-4484.	2.5	20
26	Molecular Probes Reveal Chemical Selectivity of the Solid-Electrolyte Interphase. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20632-20641.	1.5	29
27	Pathways to electrochemical solar-hydrogen technologies. <i>Energy and Environmental Science</i> , 2018, 11, 2768-2783.	15.6	238
28	Direct observation of active material interactions in flowable electrodes using X-ray tomography. <i>Faraday Discussions</i> , 2017, 199, 511-524.	1.6	50
29	Top-down fabrication of fluorine-doped tin oxide nanopillar substrates for solar water splitting. <i>RSC Advances</i> , 2017, 7, 28350-28357.	1.7	9
30	Adsorbed Hydroxide Does Not Participate in the Volmer Step of Alkaline Hydrogen Electrocatalysis. <i>ACS Catalysis</i> , 2017, 7, 8314-8319.	5.5	92
31	The Impotence of Non-Brownian Particles on the Gel Transition of Colloidal Suspensions. <i>Polymers</i> , 2017, 9, 461.	2.0	7
32	Polymerized ionic liquid diblock copolymer as solid-state electrolyte and separator in lithium-ion battery. <i>Polymer</i> , 2016, 101, 311-318.	1.8	43
33	Nickel-silver alloy electrocatalysts for hydrogen evolution and oxidation in an alkaline electrolyte. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 19250.	1.3	101
34	A carbon-free, precious-metal-free, high-performance O ₂ electrode for regenerative fuel cells and metal-air batteries. <i>Energy and Environmental Science</i> , 2014, 7, 2017.	15.6	140
35	Transient Characterization of Solid-Electrolyte-Interphase Using Ferrocene. <i>Journal of the Electrochemical Society</i> , 2012, 159, A281-A289.	1.3	33
36	Effect of Graphite Orientation and Lithium Salt on Electronic Passivation of Highly Oriented Pyrolytic Graphite. <i>Journal of the Electrochemical Society</i> , 2012, 159, A634-A641.	1.3	54

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37	Why is the Solid-Electrolyte-Interphase Selective? Through-Film Ferrocenium Reduction on Highly Oriented Pyrolytic Graphite. Journal of the Electrochemical Society, 2012, 159, A1922-A1927.	1.3	32
38	Experimental and Theoretical Investigation of Solid-Electrolyte-Interphase Formation Mechanisms on Glassy Carbon. Journal of the Electrochemical Society, 2012, 159, A1775-A1785.	1.3	74
39	Effect of molecular weight on conductivity of polymer electrolytes. Solid State Ionics, 2011, 203, 18-21.	1.3	155
40	Electrochemical Characterization of SEI-Type Passivating Films Using Redox Shuttles. Journal of the Electrochemical Society, 2011, 158, A530-A536.	1.3	56
41	Electrochemical Characterization of SEI-Type Passivating Films Using Redox Shuttles. ECS Transactions, 2010, 33, 15-31.	0.3	1
42	Two-Dimensional Modeling of Lithium Deposition during Cell Charging. Journal of the Electrochemical Society, 2009, 156, A390.	1.3	200