Joshua W Gallaway

List of Publications by Year
in descending order

31	918	623734	839539
papers	citations	14 h-index	18 g-index

33	33	33	1111
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tech Highlights - Spring 2022. Electrochemical Society Interface, 2022, 31, 36-37.	0.4	0
2	Tech Highlights - Summer 2022. Electrochemical Society Interface, 2022, 31, 37-38.	0.4	0
3	(Invited) Operando Measurement of Heterogeneities in All-Solid-State Li Battery Electrodes. ECS Meeting Abstracts, 2022, MA2022-01, 1663-1663.	0.0	0
4	(Invited, Digital Presentation) The Discovery and Development of Rechargeable Zn/CuO Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 459-459.	0.0	0
5	Using High Energy X-Ray White Beam Tomography to Quantify the Location and Morphology of ZnO Discharge Products in Alkaline Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 579-579.	0.0	0
6	Exploring the Effectiveness of Carbon Cloth Electrodes for All-Vanadium Redox Flow Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 462-462.	0.0	0
7	Operando EDXRD Study of Allâ€Solidâ€State Lithium Batteries Coupling Thioantimonate Superionic Conductors with Metal Sulfide. Advanced Energy Materials, 2021, 11, 2002861.	19.5	25
8	Enhanced Electrochemical Stability of Sulfideâ€Based LiNi_{0.8}Mn_{0.1}Co_{0.1}O₂ Allâ€Solidâ€State Batteries by Ti Surface Doping. Batteries and Supercaps, 2021, 4, 529-535.	4.7	11
9	Aqueous Mn-Zn and Ni-Zn Batteries for Sustainable Energy Storage. , 2021, , 1-26.		1
10	Exploring the Structure-Function-Performance Relationship of Carbon Electrodes Toward Rational Design of High-Performance Redox Flow Cells. ECS Meeting Abstracts, 2021, MA2021-01, 215-215.	0.0	0
11	(Invited) Operando Characterization of Transient Material Changes in Battery Cathode Materials By X-Ray Diffraction and Spectroscopy. ECS Meeting Abstracts, 2021, MA2021-01, 1977-1977.	0.0	0
12	Rechargeable Alkaline Zinc/Copper Oxide Batteries. ACS Applied Energy Materials, 2021, 4, 7073-7082.	5.1	13
13	Energy dispersive X-ray diffraction (EDXRD) for operando materials characterization within batteries. Physical Chemistry Chemical Physics, 2020, 22, 20972-20989.	2.8	24
14	Bismuth Enables the Formation of Disordered Birnessite in Rechargeable Alkaline Batteries. Journal of the Electrochemical Society, 2020, 167, 110514.	2.9	15
15	Breakdown and Reformation of Birnessite in Rechargeable, Bismuth Modified MnO2 Alkaline Batteries. ECS Meeting Abstracts, 2020, MA2020-01, 513-513.	0.0	0
16	(Invited) Bismuth Enables Formation of Disordered Birnessite in Rechargeable Alkaline Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 1036-1036.	0.0	0
17	The Electrochemistry of Low-Temperature Molten Quinones for All-Organic Redox Flow Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
18	Discharge Reactions of Î³-MnO2 and Mo6S8 Tracked in the Electrode Bulk of Sealed Devices By Energy Dispersive X-Ray Diffraction (EDXRD). ECS Meeting Abstracts, 2019, , .	0.0	0

#	Article	IF	Citations
19	Failure Analysis of the Rechargeable Porous Zinc Electrode in Alkaline Electrolyte. ECS Meeting Abstracts, 2019, , .	0.0	0
20	An Operando Study of the Initial Discharge of Bi and Bi/Cu Modified MnO₂. Journal of the Electrochemical Society, 2018, 165, A2935-A2947.	2.9	20
21	Regenerable Cu-intercalated MnO2 layered cathode for highly cyclable energy dense batteries. Nature Communications, 2017, 8, 14424.	12.8	216
22	Rechargeable Zinc Alkaline Anodes for Long-Cycle Energy Storage. Chemistry of Materials, 2017, 29, 4819-4832.	6.7	120
23	Rapid electrochemical synthesis of Î´-MnO2 from Î³-MnO2 and unleashing its performance as an energy dense electrode. Materials Today Energy, 2017, 6, 198-210.	4.7	30
24	A calcium hydroxide interlayer as a selective separator for rechargeable alkaline Zn/MnO2 batteries. Electrochemistry Communications, 2017, 81, 136-140.	4.7	49
25	A conversion-based highly energy dense Cu²⁺ intercalated Bi-birnessite/Zn alkaline battery. Journal of Materials Chemistry A, 2017, 5, 15845-15854.	10.3	63
26	Operando identification of the point of [Mn2]O4 spinel formation during Î³-MnO2 discharge within batteries. Journal of Power Sources, 2016, 321, 135-142.	7.8	46
27	The relationship between coefficient of restitution and state of charge of zinc alkaline primary LR6 batteries. Journal of Materials Chemistry A, 2015, 3, 9395-9400.	10.3	13
28	Hetaerolite Profiles in Alkaline Batteries Measured by High Energy EDXRD. Journal of the Electrochemical Society, 2015, 162, A162-A168.	2.9	63
29	Rechargeability and economic aspects of alkaline zincâ€“manganese dioxide cells for electrical storage and load leveling. Journal of Power Sources, 2015, 276, 7-18.	7.8	104
30	An In Situ Synchrotron Study of Zinc Anode Planarization by a Bismuth Additive. Journal of the Electrochemical Society, 2014, 161, A275-A284.	2.9	48
31	Real-time materials evolution visualized within intact cycling alkaline batteries. Journal of Materials Chemistry A, 2014, 2, 2757-2764.	10.3	53