

Forrest S Gittleson

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,449
citations

411340

20
h-index

563245

28
g-index

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31
docs citations

31
times ranked

2940
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards controlling the reversibility of anionic redox in transition metal oxides for high-energy Li-ion positive electrodes. <i>Energy and Environmental Science</i> , 2021, 14, 2322-2334.	15.6	41
2	Enhanced Cycling of Ni-Rich Positive Electrodes by Fluorine Modification. <i>Journal of the Electrochemical Society</i> , 2021, 168, 060538.	1.3	10
3	Probing Depth-Dependent Transition-Metal Redox of Lithium Nickel, Manganese, and Cobalt Oxides in Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55865-55875.	4.0	14
4	Lithium-enriched graphite anode surfaces investigated using nuclear reaction analysis. <i>Chemical Communications</i> , 2020, 56, 14665-14668.	2.2	0
5	Nickel and Cobalt Oxidation State Evolution at Ni-Rich NMC Cathode Surfaces during Treatment. <i>Journal of Physical Chemistry C</i> , 2020, 124, 16508-16514.	1.5	17
6	Correlating structure and transport behavior in Li ⁺ and O ₂ containing pyrrolidinium ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 17176-17189.	1.3	8
7	Oxygen solubility and transport in Li-air battery electrolytes: establishing criteria and strategies for electrolyte design. <i>Energy and Environmental Science</i> , 2017, 10, 1167-1179.	15.6	103
8	Exploring a wider range of Mg-Ca-Zn metallic glass as biocompatible alloys using combinatorial sputtering. <i>Chemical Communications</i> , 2017, 53, 8288-8291.	2.2	27
9	Non-Faradaic Li ⁺ Migration and Chemical Coordination across Solid-State Battery Interfaces. <i>Nano Letters</i> , 2017, 17, 6974-6982.	4.5	58
10	A New Design Strategy for Observing Lithium Oxide Growth-Evolution Interactions Using Geometric Catalyst Positioning. <i>Nano Letters</i> , 2016, 16, 4799-4806.	4.5	25
11	Pt and Pd catalyzed oxidation of Li ₂ O ₂ and DMSO during Li-O ₂ battery charging. <i>Chemical Communications</i> , 2016, 52, 6605-6608.	2.2	45
12	Heme biomolecule as redox mediator and oxygen shuttle for efficient charging of lithium-oxygen batteries. <i>Nature Communications</i> , 2016, 7, 12925.	5.8	122
13	Guided Evolution of Bulk Metallic Glass Nanostructures: A Platform for Designing 3D Electrocatalytic Surfaces. <i>Advanced Materials</i> , 2016, 28, 1940-1949.	11.1	71
14	Electrocatalysts: Guided Evolution of Bulk Metallic Glass Nanostructures: A Platform for Designing 3D Electrocatalytic Surfaces (<i>Adv. Mater.</i> 10/2016). <i>Advanced Materials</i> , 2016, 28, 1902-1902.	11.1	0
15	Raman Spectroscopy in Lithium-Oxygen Battery Systems. <i>ChemElectroChem</i> , 2015, 2, 1446-1457.	1.7	123
16	A Mesoporous Catalytic Membrane Architecture for Lithium-Oxygen Battery Systems. <i>Nano Letters</i> , 2015, 15, 434-441.	4.5	78
17	Enhanced photoelectrochemical and sensing performance of novel TiO ₂ arrays to H ₂ O ₂ detection. <i>Sensors and Actuators B: Chemical</i> , 2015, 211, 111-115.	4.0	29
18	Ultrathin Nanotube/Nanowire Electrodes by Spin-Spray Layer-by-Layer Assembly: A Concept for Transparent Energy Storage. <i>ACS Nano</i> , 2015, 9, 10005-10017.	7.3	55

#	ARTICLE	IF	CITATIONS
19	A high power density miniaturized microbial fuel cell having carbon nanotube anodes. Journal of Power Sources, 2015, 273, 823-830.	4.0	112
20	Catalyst and electrolyte synergy in Li ⁺ O ₂ batteries. Physical Chemistry Chemical Physics, 2014, 16, 3230.	1.3	67
21	Operando Observation of the Gold ⁺ Electrolyte Interface in Li ⁺ O ₂ Batteries. ACS Applied Materials & Interfaces, 2014, 6, 19017-19025.	4.0	70
22	Bulk Metallic Glass Micro Fuel Cell. Small, 2013, 9, 2081-2085.	5.2	85
23	Pd ⁺ Ni ⁺ Cu ⁺ P metallic glass nanowires for methanol and ethanol oxidation in alkaline media. International Journal of Hydrogen Energy, 2013, 38, 11248-11255.	3.8	75
24	Fuel Cells: Bulk Metallic Glass Micro Fuel Cell (Small 12/2013). Small, 2013, 9, 2026-2026.	5.2	1
25	Stratified rod network model of electrical conductance in ultrathin polymer ⁺ carbon nanotube multilayers. Physical Review B, 2013, 87, .	1.1	7
26	Polymer coating of vanadium oxide nanowires to improve cathodic capacity in lithium batteries. Journal of Materials Chemistry A, 2013, 1, 7979.	5.2	21
27	Carbon nanotube based anodes in a miniaturized microbial fuel cell (MFC) towards high power density and efficiency. , 2012, , .		0
28	Scalable Fabrication of Multifunctional Freestanding Carbon Nanotube/Polymer Composite Thin Films for Energy Conversion. ACS Nano, 2012, 6, 1347-1356.	7.3	84
29	Improving the Assembly Speed, Quality, and Tunability of Thin Conductive Multilayers. ACS Nano, 2012, 6, 3703-3711.	7.3	53
30	Hydrogen Production from Methanol over Gold Supported on ZnO and CeO ₂ Nanoshapes. Journal of Physical Chemistry C, 2011, 115, 1261-1268.	1.5	47