

# Forrest S Gittleson

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7353352/publications.pdf>

Version: 2024-02-01

30  
papers

1,449  
citations

361413

20  
h-index

501196

28  
g-index

31  
all docs

31  
docs citations

31  
times ranked

2528  
citing authors

#	ARTICLE	IF	CITATIONS
1	Raman Spectroscopy in Lithium-Oxygen Battery Systems. <i>ChemElectroChem</i> , 2015, 2, 1446-1457.	3.4	123
2	Heme biomolecule as redox mediator and oxygen shuttle for efficient charging of lithium-oxygen batteries. <i>Nature Communications</i> , 2016, 7, 12925.	12.8	122
3	A high power density miniaturized microbial fuel cell having carbon nanotube anodes. <i>Journal of Power Sources</i> , 2015, 273, 823-830.	7.8	112
4	Oxygen solubility and transport in air battery electrolytes: establishing criteria and strategies for electrolyte design. <i>Energy and Environmental Science</i> , 2017, 10, 1167-1179.	30.8	103
5	Bulk Metallic Glass Micro Fuel Cell. <i>Small</i> , 2013, 9, 2081-2085.	10.0	85
6	Scalable Fabrication of Multifunctional Freestanding Carbon Nanotube/Polymer Composite Thin Films for Energy Conversion. <i>ACS Nano</i> , 2012, 6, 1347-1356.	14.6	84
7	A Mesoporous Catalytic Membrane Architecture for Lithium-Oxygen Battery Systems. <i>Nano Letters</i> , 2015, 15, 434-441.	9.1	78
8	Pd-Ni-Cu-P metallic glass nanowires for methanol and ethanol oxidation in alkaline media. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 11248-11255.	7.1	75
9	Guided Evolution of Bulk Metallic Glass Nanostructures: A Platform for Designing 3D Electrocatalytic Surfaces. <i>Advanced Materials</i> , 2016, 28, 1940-1949.	21.0	71
10	Operando Observation of the Gold-Electrolyte Interface in $\text{LiO}_2$ Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 19017-19025.	8.0	70
11	Catalyst and electrolyte synergy in $\text{LiO}_2$ batteries. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3230.	2.8	67
12	Non-Faradaic $\text{Li}^+$ Migration and Chemical Coordination across Solid-State Battery Interfaces. <i>Nano Letters</i> , 2017, 17, 6974-6982.	9.1	58
13	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.	14.6	55
14	Improving the Assembly Speed, Quality, and Tunability of Thin Conductive Multilayers. <i>ACS Nano</i> , 2012, 6, 3703-3711.	14.6	53
15	Hydrogen Production from Methanol over Gold Supported on $\text{ZnO}$ and $\text{CeO}_2$ Nanoshapes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1261-1268.	3.1	47
16	Pt and Pd catalyzed oxidation of $\text{Li}_2\text{O}_2$ and DMSO during $\text{LiO}_2$ battery charging. <i>Chemical Communications</i> , 2016, 52, 6605-6608.	4.1	45
17	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.	30.8	41
18	Enhanced photoelectrochemical and sensing performance of novel $\text{TiO}_2$ arrays to $\text{H}_2\text{O}_2$ detection. <i>Sensors and Actuators B: Chemical</i> , 2015, 211, 111-115.	7.8	29

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19	Exploring a wider range of Mg–Ca–Zn metallic glass as biocompatible alloys using combinatorial sputtering. <i>Chemical Communications</i> , 2017, 53, 8288-8291.	4.1	27
20	A New Design Strategy for Observing Lithium Oxide Growth-Evolution Interactions Using Geometric Catalyst Positioning. <i>Nano Letters</i> , 2016, 16, 4799-4806.	9.1	25
21	Polymer coating of vanadium oxide nanowires to improve cathodic capacity in lithium batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7979.	10.3	21
22	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.	3.1	17
23	Probing Depth-Dependent Transition-Metal Redox of Lithium Nickel, Manganese, and Cobalt Oxides in Li-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 55865-55875.	8.0	14
24	Enhanced Cycling of Ni-Rich Positive Electrodes by Fluorine Modification. <i>Journal of the Electrochemical Society</i> , 2021, 168, 060538.	2.9	10
25	Correlating structure and transport behavior in Li <sup>+</sup> and O <sub>2</sub> containing pyrrolidinium ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 17176-17189.	2.8	8
26	Stratified rod network model of electrical conductance in ultrathin polymer–carbon nanotube multilayers. <i>Physical Review B</i> , 2013, 87, .	3.2	7
27	Fuel Cells: Bulk Metallic Glass Micro Fuel Cell (Small 12/2013). <i>Small</i> , 2013, 9, 2026-2026.	10.0	1
28	Carbon nanotube based anodes in a miniaturized microbial fuel cell (MFC) towards high power density and efficiency. , 2012, , .		0
29	Electrocatalysts: Guided Evolution of Bulk Metallic Glass Nanostructures: A Platform for Designing 3D Electrocatalytic Surfaces (Adv. Mater. 10/2016). <i>Advanced Materials</i> , 2016, 28, 1902-1902.	21.0	0
30	Lithium-enriched graphite anode surfaces investigated using nuclear reaction analysis. <i>Chemical Communications</i> , 2020, 56, 14665-14668.	4.1	0