Daniel Sharon

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4016546/publications.pdf

Version: 2024-02-01

31 papers	2,303 citations	361413 20 h-index	454955 30 g-index
32 all docs	32 docs citations	32 times ranked	2525 citing authors

#	Article	IF	Citations
1	Lithiumâ€“Oxygen Batteries and Related Systems: Potential, Status, and Future. Chemical Reviews, 2020, 120, 6626-6683.	47.7	593
2	Oxidation of Dimethyl Sulfoxide Solutions by Electrochemical Reduction of Oxygen. Journal of Physical Chemistry Letters, 2013, 4, 3115-3119.	4.6	229
3	Liâ€“O₂ cells with LiBr as an electrolyte and a redox mediator. Energy and Environmental Science, 2016, 9, 2334-2345.	30.8	229
4	Understanding the behavior of Liâ€“oxygen cells containing LiI. Journal of Materials Chemistry A, 2015, 3, 8855-8864.	10.3	187
5	On the Challenge of Electrolyte Solutions for Liâ€“Air Batteries: Monitoring Oxygen Reduction and Related Reactions in Polyether Solutions by Spectroscopy and EQCM. Journal of Physical Chemistry Letters, 2013, 4, 127-131.	4.6	139
6	Reviewâ€”Development of Advanced Rechargeable Batteries: A Continuous Challenge in the Choice of Suitable Electrolyte Solutions. Journal of the Electrochemical Society, 2015, 162, A2424-A2438.	2.9	137
7	Catalytic Behavior of Lithium Nitrate in Li-O₂ Cells. ACS Applied Materials & Interfaces, 2015, 7, 16590-16600.	8.0	127
8	Mechanistic Role of Li⁺ Dissociation Level in Aprotic Liâ€“O₂ Battery. ACS Applied Materials & Interfaces, 2016, 8, 5300-5307.	8.0	120
9	Molecular Level Differences in Ionic Solvation and Transport Behavior in Ethylene Oxide-Based Homopolymer and Block Copolymer Electrolytes. Journal of the American Chemical Society, 2021, 143, 3180-3190.	13.7	55
10	Hierarchical activated carbon microfiber (ACM) electrodes for rechargeable Liâ€“O2 batteries. Journal of Materials Chemistry A, 2013, 1, 5021.	10.3	54
11	Reactivity of Amide Based Solutions in Lithiumâ€“Oxygen Cells. Journal of Physical Chemistry C, 2014, 118, 15207-15213.	3.1	50
12	Lithiumï£¿Oxygen Electrochemistry in Nonâ€Aqueous Solutions. Israel Journal of Chemistry, 2015, 55, 508-520.	2.3	44
13	Intrinsic Ion Transport Properties of Block Copolymer Electrolytes. ACS Nano, 2020, 14, 8902-8914.	14.6	36
14	Interrogation of Electrochemical Properties of Polymer Electrolyte Thin Films with Interdigitated Electrodes. Journal of the Electrochemical Society, 2018, 165, H1028-H1039.	2.9	35
15	2,4-Dimethoxy-2,4-dimethylpentan-3-one: An Aprotic Solvent Designed for Stability in Liâ€“O2 Cells. Journal of the American Chemical Society, 2017, 139, 11690-11693.	13.7	34
16	Role of Molecular Architecture on Ion Transport in Ethylene oxide-Based Polymer Electrolytes. Macromolecules, 2021, 54, 2266-2276.	4.8	33
17	Feasibility of Full (Li-Ion)â€“O₂ Cells Comprised of Hard Carbon Anodes. ACS Applied Materials & Interfaces, 2017, 9, 4352-4361.	8.0	31
18	The importance of solvent selection in Liâ€“O₂ cells. Chemical Communications, 2017, 53, 3269-3272.	4.1	26

#	Article	IF	Citations
19	AZ31 Magnesium Alloy Foils as Thin Anodes for Rechargeable Magnesium Batteries. ChemSusChem, 2021, 14, 4690-4696.	6.8	24
20	Aprotic metal-oxygen batteries: recent findings and insights. Journal of Solid State Electrochemistry, 2017, 21, 1861-1878.	2.5	23
21	Role of solvation site segmental dynamics on ion transport in ethylene-oxide based side-chain polymer electrolytes. Journal of Materials Chemistry A, 2021, 9, 9937-9951.	10.3	21
22	Nanothin film conductivity measurements reveal interfacial influence on ion transport in polymer electrolytes. Molecular Systems Design and Engineering, 2019, 4, 597-608.	3.4	16
23	Increasing Ionic Conductivity of Poly(ethylene oxide) by Reaction with Metallic Li. Advanced Energy and Sustainability Research, 2022, 3, 2100142.	5.8	15
24	Stabilizing Dendritic Electrodeposition by Limiting Spatial Dimensions in Nanostructured Electrolytes. ACS Energy Letters, 2020, 5, 2889-2896.	17.4	13
25	Improvement of the Electrochemical Performance of LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ via Atomic Layer Deposition of Lithium-Rich Zirconium Phosphate Coatings. ACS Applied Materials & Interfaces, 2021, 13, 61733-61741.	8.0	11
26	Shedding Light on the Oxygen Reduction Reaction Mechanism in Ether-Based Electrolyte Solutions: A Study Using Operando UVâ€"Vis Spectroscopy. ACS Applied Materials & Interfaces, 2018, 10, 10860-10869.	8.0	6
27	Determination of Average Coulombic Efficiency for Rechargeable Magnesium Metal Anodes in Prospective Electrolyte Solutions. ACS Applied Materials & Interfaces, 2022, 14, 30952-30961.	8.0	6
28	Tailoring Nickel-Rich LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ Layered Oxide Cathode Materials with Metal Sulfides (M₂S:M = Li, Na) for Improved Electrochemical Properties. Journal of the Electrochemical Society, 2021, 168, 080543.	2.9	4
29	Electrolyte Solutions for â€œBeyond Li-Ion Batteriesâ€• Li-S, Li-O₂, and Mg Batteries. Electrochemical Society Interface, 2019, 28, 71-77.	0.4	2
30	Critical Review on the Unique Interactions and Electroanalytical Challenges Related to Cathodes â€• Solutions Interfaces in Nonâ€Aqueous Mg Battery Prototypes. ChemElectroChem, 2021, 8, 3229-3238.	3.4	2
31	Development of Electroactive and Stable Current Collectors for Aqueous Batteries. Journal of the Electrochemical Society, 2022, 169, 050516.	2.9	0