Daniel Sharon

List of Publications by Year
in descending order

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	Increasing Ionic Conductivity of Poly(ethylene oxide) by Reaction with Metallic Li. Advanced Energy and Sustainability Research, 2022, 3, 2100142.	5.8	15
2	Development of Electroactive and Stable Current Collectors for Aqueous Batteries. Journal of the Electrochemical Society, 2022, 169, 050516.	2.9	0
3	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
4	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
5	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
6	Role of Molecular Architecture on Ion Transport in Ethylene oxide-Based Polymer Electrolytes. Macromolecules, 2021, 54, 2266-2276.	4.8	33
7	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
8	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
9	AZ31 Magnesium Alloy Foils as Thin Anodes for Rechargeable Magnesium Batteries. ChemSusChem, 2021, 14, 4690-4696.	6.8	24
10	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
11	Stabilizing Dendritic Electrodeposition by Limiting Spatial Dimensions in Nanostructured Electrolytes. ACS Energy Letters, 2020, 5, 2889-2896.	17.4	13
12	Intrinsic Ion Transport Properties of Block Copolymer Electrolytes. ACS Nano, 2020, 14, 8902-8914.	14.6	36
13	Lithiumâ€“Oxygen Batteries and Related Systems: Potential, Status, and Future. Chemical Reviews, 2020, 120, 6626-6683.	47.7	593
14	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
15	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
16	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
17	Interrogation of Electrochemical Properties of Polymer Electrolyte Thin Films with Interdigitated Electrodes. Journal of the Electrochemical Society, 2018, 165, H1028-H1039.	2.9	35
18	The importance of solvent selection in Liâ€“O₂ cells. Chemical Communications, 2017, 53, 3269-3272.	4.1	26

#	Article	IF	Citations
19	Aprotic metal-oxygen batteries: recent findings and insights. Journal of Solid State Electrochemistry, 2017, 21, 1861-1878.	2.5	23
20	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
21	Feasibility of Full (Li-Ion)â€“O₂ Cells Comprised of Hard Carbon Anodes. ACS Applied Materials & Interfaces, 2017, 9, 4352-4361.	8.0	31
22	Liâ€“O₂ cells with LiBr as an electrolyte and a redox mediator. Energy and Environmental Science, 2016, 9, 2334-2345.	30.8	229
23	Mechanistic Role of Li⁺ Dissociation Level in Aprotic Liâ€“O₂ Battery. ACS Applied Materials & Interfaces, 2016, 8, 5300-5307.	8.0	120
24	Lithiumï£¿Oxygen Electrochemistry in Nonâ€Aqueous Solutions. Israel Journal of Chemistry, 2015, 55, 508-520.	2.3	44
25	Understanding the behavior of Liâ€“oxygen cells containing LiI. Journal of Materials Chemistry A, 2015, 3, 8855-8864.	10.3	187
26	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
27	Catalytic Behavior of Lithium Nitrate in Li-O₂ Cells. ACS Applied Materials & Interfaces, 2015, 7, 16590-16600.	8.0	127
28	Reactivity of Amide Based Solutions in Lithiumâ€“Oxygen Cells. Journal of Physical Chemistry C, 2014, 118, 15207-15213.	3.1	50
29	Oxidation of Dimethyl Sulfoxide Solutions by Electrochemical Reduction of Oxygen. Journal of Physical Chemistry Letters, 2013, 4, 3115-3119.	4.6	229
30	Hierarchical activated carbon microfiber (ACM) electrodes for rechargeable Liâ€“O2 batteries. Journal of Materials Chemistry A, 2013, 1, 5021.	10.3	54
31	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