Lee R Johnson

List of Publications by Year
in descending order

43 papers	3,606 citations	318942 23 h-index	388640 36 g-index
44 all docs	44 docs citations	44 times ranked	4168 citing authors

#	Article	IF	Citations
1	Stabilization of Polyoxometalate Charge Carriers via Redoxâ€Driven Nanoconfinement in Singleâ€Walled Carbon Nanotubes. Angewandte Chemie - International Edition, 2022, 61, e202115619.	7.2	35
2	Stabilization of Polyoxometalate Charge Carriers via Redoxâ€Driven Nanoconfinement in Singleâ€Walled Carbon Nanotubes. Angewandte Chemie, 2022, 134, .	1.6	1
3	Singlet oxygen and dioxygen bond cleavage in the aprotic lithium-oxygen battery. Joule, 2022, 6, 185-192.	11.7	41
4	Understanding the Behaviour of High-Nickel NMC Cathodes with Respect to the Vinylene Carbonate Additive. ECS Meeting Abstracts, 2022, MA2022-01, 332-332.	0.0	0
5	Molecular redox species for next-generation batteries. Chemical Society Reviews, 2021, 50, 5863-5883.	18.7	53
6	2021 roadmap on lithium sulfur batteries. JPhys Energy, 2021, 3, 031501.	2.3	74
7	Sustainability of Battery Technologies: Today and Tomorrow. ACS Sustainable Chemistry and Engineering, 2021, 9, 6507-6509.	3.2	16
8	Critical Role of the Interphase at Magnesium Electrodes in Chloride-Free, Simple Salt Electrolytes. ACS Applied Materials & Interfaces, 2021, 13, 29708-29713.	4.0	11
9	Electrochemistry of redox-active molecules confined within narrow carbon nanotubes. Chemical Society Reviews, 2021, 50, 10895-10916.	18.7	20
10	The Interface between Li6.5La3Zr1.5Ta0.5O12 and Liquid Electrolyte. Joule, 2020, 4, 101-108.	11.7	81
11	Lithiumâ€“Oxygen Batteries and Related Systems: Potential, Status, and Future. Chemical Reviews, 2020, 120, 6626-6683.	23.0	593
12	Oxygen Reduction Pathways in the Li-O2 Battery: Understanding Solvent-Water Interactions. ECS Meeting Abstracts, 2020, MA2020-02, 492-492.	0.0	0
13	(Invited) The Role of Electrolyte Solution in Next-Generation Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 742-742.	0.0	0
14	Electrolyte-Dependent SEI Formation and Its Consequences on Mg Electrode Cycling. ECS Meeting Abstracts, 2020, MA2020-02, 787-787.	0.0	0
15	The Sodium-Ion Battery: Effect of Electrolyte Additives on the SEI Layer of Hard Carbon Anodes. ECS Meeting Abstracts, 2020, MA2020-02, 767-767.	0.0	1
16	(Invited) Interfaces in Solid-State Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 3779-3779.	0.0	0
17	The Rechargeable Aprotic Lithium-Oxygen Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0
18	Kinetics of lithium peroxide oxidation by redox mediators and consequences for the lithiumâ€“oxygen cell. Nature Communications, 2018, 9, 767.	5.8	93

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19	High capacity surface route discharge at the potassium-O2 electrode. Journal of Electroanalytical Chemistry, 2018, 819, 542-546.	1.9	21
20	The Role of the Electrode Surface in Naâ€“Air Batteries: Insights in Electrochemical Product Formation and Chemical Growth of NaO₂. Advanced Energy Materials, 2018, 8, 1701581.	10.2	28
21	The Rechargeable Aprotic Lithium-oxygen Battery. ECS Meeting Abstracts, 2018, , .	0.0	0
22	Phenolâ€Catalyzed Discharge in the Aprotic Lithiumâ€Oxygen Battery. Angewandte Chemie - International Edition, 2017, 56, 6539-6543.	7.2	55
23	LiO₂: Cryosynthesis and Chemical/Electrochemical Reactivities. Journal of Physical Chemistry Letters, 2017, 8, 2334-2338.	2.1	70
24	Phenolâ€Catalyzed Discharge in the Aprotic Lithiumâ€Oxygen Battery. Angewandte Chemie, 2017, 129, 6639-6643.	1.6	24
25	Understanding of the Electrogenerated Bulk Electrolyte Species in Sodium-Containing Ionic Liquid Electrolytes During the Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2017, 121, 23307-23316.	1.5	17
26	A rechargeable lithiumâ€“oxygen battery with dual mediators stabilizing the carbon cathode. Nature Energy, 2017, 2, .	19.8	238
27	Role of Electrolyte Anions in the Naâ€“O₂ Battery: Implications for NaO₂ Solvation and the Stability of the Sodium Solid Electrolyte Interphase in Glyme Ethers. Chemistry of Materials, 2017, 29, 6066-6075.	3.2	141
28	Promoting solution phase discharge in Liâ€“O2 batteries containing weakly solvating electrolyteÂsolutions. Nature Materials, 2016, 15, 882-888.	13.3	446
29	High Capacity Naâ€“O₂ Batteries: Key Parameters for Solution-Mediated Discharge. Journal of Physical Chemistry C, 2016, 120, 20068-20076.	1.5	96
30	A Comprehensive Model for Non-Aqueous Lithium Air Batteries Involving Different Reaction Mechanisms. Journal of the Electrochemical Society, 2015, 162, A614-A621.	1.3	72
31	The role of LiO2 solubility in O2 reduction in aprotic solvents and its consequences for Liâ€“O2 batteries. Nature Chemistry, 2014, 6, 1091-1099.	6.6	942
32	Aprotic Liâ€“O₂ Battery: Influence of Complexing Agents on Oxygen Reduction in an Aprotic Solvent. Journal of Physical Chemistry C, 2014, 118, 3393-3401.	1.5	36
33	Sulfone-Based Electrolytes for Nonaqueous Liâ€“O₂ Batteries. Journal of Physical Chemistry C, 2014, 118, 18892-18898.	1.5	50
34	Electrocatalytic oxidation of methanol and carbon monoxide at platinum in protic ionic liquids. Electrochemistry Communications, 2012, 23, 122-124.	2.3	26
35	Tip generationâ€“substrate collectionâ€“tip collection mode scanning electrochemical microscopy of oxygen reduction electrocatalysts. Journal of Electroanalytical Chemistry, 2012, 682, 45-52.	1.9	24
36	Hydrogen Oxidation and Oxygen Reduction at Platinum in Protic Ionic Liquids. Journal of Physical Chemistry C, 2012, 116, 18048-18056.	1.5	49

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37	Deposition of silver nanobowl arrays using polystyrene nanospheres both as reagents and as the templating material. Journal of Materials Chemistry, 2011, 21, 7555.	6.7	13
38	Synthesis of carbon-supported Pt nanoparticle electrocatalysts using nanocrystalline cellulose as reducing agent. Green Chemistry, 2011, 13, 1686.	4.6	87
39	Scanning electrochemical microscopy at thermal sprayed anti-corrosion coatings: Effect of thermal spraying on heterogeneous electron transfer kinetics. Journal of Electroanalytical Chemistry, 2011, 657, 46-53.	1.9	11
40	Nanocomposite oxygen reduction electrocatalysts formed using bioderived reducing agents. Journal of Materials Chemistry, 2010, 20, 1737.	6.7	33
41	Synthesis of platinum nanoparticles using cellulosic reducing agents. Green Chemistry, 2010, 12, 220-222.	4.6	89
42	Mechanism of the Reactions of Synthetic Feâ^'S-Based Clusters with PhCOCl:â€‰ Parallel Pathways Involving Free and Coordinated Thiolate as Nucleophiles. Inorganic Chemistry, 2006, 45, 9423-9433.	1.9	5
43	Competitive Oxygen Reduction Pathways to Superoxide and Peroxide during Sodiumâ€Oxygen Battery Discharge. Batteries and Supercaps, 0, , .	2.4	2