

Niya Sa

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9410619/publications.pdf>

Version: 2024-02-01

28
papers

1,727
citations

304743

22
h-index

526287

27
g-index

28
all docs

28
docs citations

28
times ranked

2153
citing authors

#	ARTICLE	IF	CITATIONS
1	The Coupling between Stability and Ion Pair Formation in Magnesium Electrolytes from First-Principles Quantum Mechanics and Classical Molecular Dynamics. <i>Journal of the American Chemical Society</i> , 2015, 137, 3411-3420.	13.7	259
2	The unexpected discovery of the Mg(HMDS) ₂ /MgCl ₂ complex as a magnesium electrolyte for rechargeable magnesium batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6082-6087.	10.3	137
3	Rectification of Ion Current in Nanopipettes by External Substrates. <i>ACS Nano</i> , 2013, 7, 11272-11282.	14.6	111
4	Is alpha-V ₂ O ₅ a cathode material for Mg insertion batteries?. <i>Journal of Power Sources</i> , 2016, 323, 44-50.	7.8	108
5	Role of Chloride for a Simple, Non-Grignard Mg Electrolyte in Ether-Based Solvents. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16002-16008.	8.0	108
6	Structural Evolution of Reversible Mg Insertion into a Bilayer Structure of V ₂ O ₅ ·nH ₂ O Xerogel Material. <i>Chemistry of Materials</i> , 2016, 28, 2962-2969.	6.7	97
7	Nickel hexacyanoferrate, a versatile intercalation host for divalent ions from nonaqueous electrolytes. <i>Journal of Power Sources</i> , 2016, 325, 646-652.	7.8	90
8	Rectification of Nanopores at Surfaces. <i>Journal of the American Chemical Society</i> , 2011, 133, 10398-10401.	13.7	80
9	Electrospray Ionization from Nanopipette Emitters with Tip Diameters of Less than 100 nm. <i>Analytical Chemistry</i> , 2013, 85, 8498-8502.	6.5	75
10	Concentration dependent electrochemical properties and structural analysis of a simple magnesium electrolyte: magnesium bis(trifluoromethane sulfonyl)imide in diglyme. <i>RSC Advances</i> , 2016, 6, 113663-113670.	3.6	65
11	Direct Investigation of Mg Intercalation into the Orthorhombic V ₂ O ₅ Cathode Using Atomic-Resolution Transmission Electron Microscopy. <i>Chemistry of Materials</i> , 2017, 29, 2218-2226.	6.7	62
12	Reversible Cobalt Ion Binding to Imidazole-Modified Nanopipettes. <i>Analytical Chemistry</i> , 2010, 82, 9963-9966.	6.5	61
13	Phase-Controlled Electrochemical Activity of Epitaxial Mg-Spinel Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 28438-28443.	8.0	56
14	MgCl ₂ : The Key Ingredient to Improve Chloride Containing Electrolytes for Rechargeable Magnesium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2016, 163, A1672-A1677.	2.9	53
15	Advanced hybrid battery with a magnesium metal anode and a spinel LiMn ₂ O ₄ cathode. <i>Chemical Communications</i> , 2016, 52, 9961-9964.	4.1	50
16	Synthesis and Characterization of MgCr ₂ S ₄ Thiospinel as a Potential Magnesium Cathode. <i>Inorganic Chemistry</i> , 2018, 57, 8634-8638.	4.0	50
17	In Situ NMR Observation of the Temporal Speciation of Lithium Sulfur Batteries during Electrochemical Cycling. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6011-6017.	3.1	43
18	Experiment and Simulation of Ion Transport through Nanopipettes of Well-Defined Conical Geometry. <i>Journal of the Electrochemical Society</i> , 2013, 160, H376-H381.	2.9	35

#	ARTICLE	IF	CITATIONS
19	Nanopipette delivery: influence of surface charge. <i>Analyst, The</i> , 2015, 140, 4835-4842.	3.5	33
20	A Simple Halogen-Free Magnesium Electrolyte for Reversible Magnesium Deposition through Cosolvent Assistance. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 10252-10260.	8.0	31
21	Bonding analysis and stability on alternant B16N16 cage and its dimers. <i>Journal of Molecular Modeling</i> , 2008, 14, 789-795.	1.8	28
22	Theoretical study on non-covalent functionalization of armchair carbon nanotube by tetrathiafulvalene molecule. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 2396-2399.	2.7	28
23	A Simple Cl ⁻ -Free Electrolyte Based on Magnesium Nitrate for Magnesium-Sulfur Battery Applications. <i>ACS Applied Energy Materials</i> , 2022, 5, 2260-2269.	5.1	24
24	<i>In Situ</i> Probing of Mass Exchange at the Solid Electrolyte Interphase in Aqueous and Nonaqueous Zn Electrolytes with EQCM-D. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 10131-10140.	8.0	16
25	Direct observation of MgO formation at cathode electrolyte interface of a spinel MgCo ₂ O ₄ cathode upon electrochemical Mg removal and insertion. <i>Journal of Power Sources</i> , 2019, 424, 68-75.	7.8	12
26	Investigating Ternary Li-Mg-Si Int'l Phase Formation and Evolution for Si Anodes in Li-Ion Batteries with Mg(TFSI) ₂ Electrolyte Additive. <i>Chemistry of Materials</i> , 2021, 33, 4960-4970.	6.7	10
27	A Systematic Electrochemical Investigation of a Dimethylamine Cosolvent-Assisted Nonaqueous Zinc(II) Bis(trifluoromethylsulfonyl)imide Electrolyte. <i>Journal of the Electrochemical Society</i> , 2021, 168, 030516.	2.9	5
28	Aberration corrected STEM and High Resolution EELS study Investigating Magnesium Intercalation in Vanadium Pentoxide Cathode. <i>Microscopy and Microanalysis</i> , 2016, 22, 1318-1319.	0.4	0