Abdel El Kharbachi

List of Publications by Year
in descending order

26 papers	763 citations	643344 15 h-index	889612 19 g-index
26 all docs	26 docs citations	26 times ranked	1006 citing authors

#	Article	IF	Citations
1	Structural and Electrochemical Insights from the Fluorination of Disordered Mn-Based Rock Salt Cathode Materials. Chemistry of Materials, 2022, 34, 2268-2281.	3.2	13
2	Design of a milling reactor coupled to a high-temperature mass spectrometer for thermodynamic/kinetic data of hydrogen-based materials. International Journal of Hydrogen Energy, 2021, 46, 3464-3474.	3.8	0
3	Towards Better Stability and Reversibility of Mn2+/Mn4+ Double Redox Activity in Disordered Rocksalt Oxyfluoride Cathode Materials. ECS Meeting Abstracts, 2021, MA2021-01, 251-251.	0.0	0
4	Toward Better Stability and Reversibility of the Mn⁴⁺/Mn²⁺ Double Redox Activity in Disordered Rocksalt Oxyfluoride Cathode Materials. Chemistry of Materials, 2021, 33, 8235-8247.	3.2	18
5	First-principles study of closo-dodecaborates M₂B₁₂H₁₂ (M = Li, Na, K) as solid-state electrolyte materials. Physical Chemistry Chemical Physics, 2021, 23, 27014-27023.	1.3	5
6	Exploits, advances and challenges benefiting beyond Li-ion battery technologies. Journal of Alloys and Compounds, 2020, 817, 153261.	2.8	144
7	Metal (boro-) hydrides for high energy density storage and relevant emerging technologies. International Journal of Hydrogen Energy, 2020, 45, 33687-33730.	3.8	53
8	Pseudo-ternary LiBH₄Â·LiClÂ·P₂S₅ system as structurally disordered bulk electrolyte for all-solid-state lithium batteries. Physical Chemistry Chemical Physics, 2020, 22, 13872-13879.	1.3	23
9	Metal Hydrides and Related Materials. Energy Carriers for Novel Hydrogen and Electrochemical Storage. Journal of Physical Chemistry C, 2020, 124, 7599-7607.	1.5	52
10	Full-cell hydride-based solid-state Li batteries for energy storage. International Journal of Hydrogen Energy, 2019, 44, 7875-7887.	3.8	46
11	Borohydride-based Solid-state Electrolytes for Lithium Batteries. , 2019, , .		1
12	Reversibility of metal-hydride anodes in all-solid-state lithium secondary battery operating at room temperature. Solid State Ionics, 2018, 317, 263-267.	1.3	21
13	Understanding Capacity Fading of MgH₂ Conversion-Type Anodes via Structural Morphology Changes and Electrochemical Impedance. Journal of Physical Chemistry C, 2018, 122, 8750-8759.	1.5	12
14	MgH₂â€“CoO: a conversion-type composite electrode for LiBH₄-based all-solid-state lithium ion batteries. RSC Advances, 2018, 8, 23468-23474.	1.7	24
15	Lithium ionic conduction in composites of Li(BH4)0.75I0.25 and amorphous 0.75Li2SÂ·0.25P2S5 for battery applications. Electrochimica Acta, 2018, 278, 332-339.	2.6	35
16	Morphology effects in MgH2 anode for lithium ion batteries. International Journal of Hydrogen Energy, 2017, 42, 22551-22556.	3.8	18
17	Mechanistic Properties of MgH2â€“Based Anode As Derived from Structural Morphology Changes Versus Electrochemical Impedance in a Li-Ion Cell. ECS Meeting Abstracts, 2017, , .	0.0	0
18	Tracking Electrochemical Double Layer Effects Modulated By the Solvent Composition in Lithium Ion Batteries: A Combined Theoretical and Experimental Investigation. ECS Meeting Abstracts, 2017, , .	0.0	0

#	Article	IF	Citations
19	Metal Hydrideâ€“Oxide Paired Anode for All-Solid Li-Ion Batteries. ECS Meeting Abstracts, 2017, , .	0.0	0
20	Electrochemical Probe of the Acidity in Room Temperature Ionic Liquids Using Quinone/Hydroquinone System. ECS Meeting Abstracts, 2017, , .	0.0	0
21	Recent progress in magnesium borohydride Mg(BH4)2: Fundamentals and applications for energy storage. International Journal of Hydrogen Energy, 2016, 41, 14387-14403.	3.8	122
22	Tritium absorption and desorption in ITER relevant materials: comparative study of tungsten dust and massive samples. Journal of Nuclear Materials, 2015, 463, 885-888.	1.3	32
23	Tritium labeling of detonation nanodiamonds. Chemical Communications, 2014, 50, 2916-2918.	2.2	29
24	Tritium absorption/desorption in ITER-like tungsten particles. International Journal of Hydrogen Energy, 2014, 39, 10525-10536.	3.8	52
25	A thermodynamic assessment of LiBH4. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2012, 39, 80-90.	0.7	48
26	Above room temperature heat capacity and phase transition of lithium tetrahydroborate. Thermochimica Acta, 2011, 520, 75-79.	1.2	15