

# Abdel El Kharbachi

## List of Publications by Year in descending order

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26  
papers

763  
citations

567281

15  
h-index

794594

19  
g-index

26  
all docs

26  
docs citations

26  
times ranked

887  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploits, advances and challenges benefiting beyond Li-ion battery technologies. <i>Journal of Alloys and Compounds</i> , 2020, 817, 153261.	5.5	144
2	Recent progress in magnesium borohydride Mg(BH <sub>4</sub> ) <sub>2</sub> : Fundamentals and applications for energy storage. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 14387-14403.	7.1	122
3	Metal (boro-) hydrides for high energy density storage and relevant emerging technologies. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 33687-33730.	7.1	53
4	Tritium absorption/desorption in ITER-like tungsten particles. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 10525-10536.	7.1	52
5	Metal Hydrides and Related Materials. Energy Carriers for Novel Hydrogen and Electrochemical Storage. <i>Journal of Physical Chemistry C</i> , 2020, 124, 7599-7607.	3.1	52
6	A thermodynamic assessment of LiBH <sub>4</sub> . <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2012, 39, 80-90.	1.6	48
7	Full-cell hydride-based solid-state Li batteries for energy storage. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 7875-7887.	7.1	46
8	Lithium ionic conduction in composites of Li(BH <sub>4</sub> ) <sub>0.75</sub> O <sub>0.25</sub> and amorphous 0.75Li <sub>2</sub> S $\hat{A}$ 0.25P <sub>2</sub> S <sub>5</sub> for battery applications. <i>Electrochimica Acta</i> , 2018, 278, 332-339.	5.2	35
9	Tritium absorption and desorption in ITER relevant materials: comparative study of tungsten dust and massive samples. <i>Journal of Nuclear Materials</i> , 2015, 463, 885-888.	2.7	32
10	Tritium labeling of detonation nanodiamonds. <i>Chemical Communications</i> , 2014, 50, 2916-2918.	4.1	29
11	MgH <sub>2</sub> â€CoO: a conversion-type composite electrode for LiBH <sub>4</sub> -based all-solid-state lithium ion batteries. <i>RSC Advances</i> , 2018, 8, 23468-23474.	3.6	24
12	Pseudo-ternary LiBH <sub>4</sub> âLiClâP <sub>2</sub> S <sub>5</sub> system as structurally disordered bulk electrolyte for all-solid-state lithium batteries. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 13872-13879.	2.8	23
13	Reversibility of metal-hydride anodes in all-solid-state lithium secondary battery operating at room temperature. <i>Solid State Ionics</i> , 2018, 317, 263-267.	2.7	21
14	Morphology effects in MgH <sub>2</sub> anode for lithium ion batteries. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 22551-22556.	7.1	18
15	Toward Better Stability and Reversibility of the Mn <sup>4+</sup> /Mn <sup>2+</sup> Double Redox Activity in Disordered Rocksalt Oxyfluoride Cathode Materials. <i>Chemistry of Materials</i> , 2021, 33, 8235-8247.	6.7	18
16	Above room temperature heat capacity and phase transition of lithium tetrahydroborate. <i>Thermochimica Acta</i> , 2011, 520, 75-79.	2.7	15
17	Structural and Electrochemical Insights from the Fluorination of Disordered Mn-Based Rock Salt Cathode Materials. <i>Chemistry of Materials</i> , 2022, 34, 2268-2281.	6.7	13
18	Understanding Capacity Fading of MgH <sub>2</sub> Conversion-Type Anodes via Structural Morphology Changes and Electrochemical Impedance. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8750-8759.	3.1	12

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19	First-principles study of closo-dodecaborates $M_2B_{12}H_{12}$ (M = Li, Na, K) as solid-state electrolyte materials. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 27014-27023.	2.8	5
20	Borohydride-based Solid-state Electrolytes for Lithium Batteries. , 2019, , .		1
21	Design of a milling reactor coupled to a high-temperature mass spectrometer for thermodynamic/kinetic data of hydrogen-based materials. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 3464-3474.	7.1	0
22	Towards Better Stability and Reversibility of $Mn^{2+}/Mn^{4+}$ Double Redox Activity in Disordered Rocksalt Oxyfluoride Cathode Materials. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 251-251.	0.0	0
23	Mechanistic Properties of $MgH_2$ -Based Anode As Derived from Structural Morphology Changes Versus Electrochemical Impedance in a Li-Ion Cell. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
24	Tracking Electrochemical Double Layer Effects Modulated By the Solvent Composition in Lithium Ion Batteries: A Combined Theoretical and Experimental Investigation. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
25	Metal Hydride-Oxide Paired Anode for All-Solid Li-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
26	Electrochemical Probe of the Acidity in Room Temperature Ionic Liquids Using Quinone/Hydroquinone System. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0