

# Maziar Ashuri

## List of Publications by Year in descending order

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34  
papers

1,317  
citations

516215

16  
h-index

525886

27  
g-index

34  
all docs

34  
docs citations

34  
times ranked

2024  
citing authors

#	ARTICLE	IF	CITATIONS
1	Silicon as a potential anode material for Li-ion batteries: where size, geometry and structure matter. <i>Nanoscale</i> , 2016, 8, 74-103.	2.8	559
2	Improvement in physical and mechanical properties of aluminum/zircon composites fabricated by powder metallurgy method. <i>Materials &amp; Design</i> , 2011, 32, 4417-4423.	5.1	98
3	Li <sub>2</sub> S encapsulated by nitrogen-doped carbon for lithium sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18026-18032.	5.2	90
4	Development of a composite based on hydroxyapatite and magnesium and zinc-containing sol-gel-derived bioactive glass for bone substitute applications. <i>Materials Science and Engineering C</i> , 2012, 32, 2330-2339.	3.8	74
5	Hollow Silicon Nanospheres Encapsulated with a Thin Carbon Shell: An Electrochemical Study. <i>Electrochimica Acta</i> , 2016, 215, 126-141.	2.6	62
6	H <sub>3</sub> PO <sub>4</sub> treatment to enhance the electrochemical properties of Li(Ni <sub>1/3</sub> Mn <sub>1/3</sub> Co <sub>1/3</sub> )O <sub>2</sub> and Li(Ni <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> )O <sub>2</sub> cathodes. <i>Electrochimica Acta</i> , 2019, 301, 8-22.	2.6	50
7	Synthesis and performance of nanostructured silicon/graphite composites with a thin carbon shell and engineered voids. <i>Electrochimica Acta</i> , 2017, 258, 274-283.	2.6	33
8	Synthesis of a Very High Specific Surface Area Active Carbon and Its Electrical Double-Layer Capacitor Properties in Organic Electrolytes. <i>ChemEngineering</i> , 2020, 4, 43.	1.0	33
9	Chitosan/heparin surface modified polyacrylic acid grafted polyurethane film by two step plasma treatment. <i>Surface Engineering</i> , 2012, 28, 710-714.	1.1	32
10	Tunable LiAlO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> Coating through a Wet-Chemical Method To Improve Cycle Stability of Nano-LiCoO <sub>2</sub> . <i>ACS Applied Energy Materials</i> , 2019, 2, 3098-3113.	2.5	25
11	Synthesis of hollow silicon nanospheres encapsulated with a carbon shell through sol-gel coating of polystyrene nanoparticles. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 82, 201-213.	1.1	23
12	Micro-Emulsion Synthesis, Surface Modification, and Photophysical Properties of $\{m \text{ Zn}_{1-x} \sim \{m \text{ Mn}_{x} \{m \text{ S}\}$ Nanocrystals for Biomolecular Recognition. <i>IEEE Transactions on Nanobioscience</i> , 2012, 11, 317-323.	2.2	21
13	Wet-Chemical Synthesis and Electrochemical Properties of Ce-Doped FeVO <sub>4</sub> for Use as New Anode Material in Li-ion Batteries. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2013, 23, 1226-1232.	1.9	20
14	MnO <sub>2</sub> -Coated Sulfur-Filled Hollow Carbon Nanosphere-Based Cathode Materials for Enhancing Electrochemical Performance of Li-S Cells. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1355-A1362.	1.3	18
15	Improving cycle stability of Si anode through partially carbonized polydopamine coating. <i>Journal of Electroanalytical Chemistry</i> , 2020, 876, 114738.	1.9	18
16	Production of globular microstructure of A356 aluminium alloy by cooling channel and strain induced melt activation processes: morphological and hardness studies. <i>International Journal of Cast Metals Research</i> , 2013, 26, 100-104.	0.5	16
17	Rational design of titanium oxide-coated dual Core-Shell sulfur nanocomposite cathode for highly stable lithium-sulfur batteries. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 149, 109791.	1.9	16
18	Investigation towards scalable processing of silicon/graphite nanocomposite anodes with good cycle stability and specific capacity. <i>Nano Materials Science</i> , 2020, 2, 297-308.	3.9	15

#	ARTICLE	IF	CITATIONS
19	A new graphitic carbon nitride-coated dual Coreâ€œShell sulfur cathode for highly stable lithiumâ€œsulfur cells. <i>Materials Chemistry and Physics</i> , 2020, 246, 122842.	2.0	14
20	Coating - A potent method to enhance electrochemical performance of Li(NixMnyCoz)O2 cathodes for Li-ion batteries. <i>Advanced Materials Letters</i> , 2019, 10, 369-380.	0.3	14
21	Surface Modification of Castor Oilâ€œBased Polyurethane by Polyacrylic Acid Graft using a Twoâ€œStep Plasma Treatment for Biomedical Applications. <i>Advances in Polymer Technology</i> , 2014, 33, .	0.8	13
22	Silicon Microreactor as a Fast Charge, Long Cycle Life Anode with High Initial Coulombic Efficiency Synthesized via a Scalable Method. <i>ACS Applied Energy Materials</i> , 2021, 4, 4744-4757.	2.5	13
23	Ion Release Behavior and Apatite-Forming Ability of Sol-Gel Derived 70S30C Bioactive Glass with Magnesium/Zinc Substitution. <i>Key Engineering Materials</i> , 0, 493-494, 55-60.	0.4	9
24	Enhancement in Electrochemical Performance of Lithiumâ€œSulfur Cells through Sulfur Encapsulation in Hollow Carbon Nanospheres Coated with Ultraâ€œThin Aluminum Fluoride Layer. <i>ChemistrySelect</i> , 2019, 4, 12622-12629.	0.7	9
25	Li<sub>3</sub>BN<sub>2</sub> as a Transition Metal Free, High Capacity Cathode for Liâ€œIon Batteries. <i>ChemElectroChem</i> , 2019, 6, 320-325.	1.7	9
26	Advanced Gel Polymer Electrolyte for Lithium-Ion Polymer Batteries. , 2013, , .		8
27	Long-Term Cycle Behavior of Nano-LiCoO<sub>2</sub> and Its Postmortem Analysis. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3299-3308.	1.5	8
28	MnO2-Coated Dual Coreâ€œShell Spindle-Like Nanorods for Improved Capacity Retention of Lithiumâ€œSulfur Batteries. <i>ChemEngineering</i> , 2020, 4, 42.	1.0	7
29	On the synthesis of lithium boron nitride (Li3BN2). <i>Ceramics International</i> , 2018, 44, 7734-7740.	2.3	6
30	Controlled Synthesis, Characterization and Magnetic Properties of Magnetite (Fe<sub>3</sub>O<sub>4</sub>) Nanoparticles without Surfactant under N<sub>2</sub> Gas at Room Temperature. <i>Key Engineering Materials</i> , 0, 493-494, 746-751.	0.4	4
31	Synthesis and Electrochemical Performance of Carbon Coated Prelithiated Silicon Nanoparticles As the Anode for Lithium-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0
32	Selectively-Etched Silicon/Graphite Nanocomposites As Anode Materials for Li-Ion Batteries: Towards the Reduced-Cost Battery. <i>ECS Meeting Abstracts</i> , 2016, , .	0.0	0
33	Facile, Green, Low-Cost Fabrication of Silicon/Carbon Nanocomposites for Lithium-Ion Battery Anode Applications. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
34	A Simple Surface Modification Technique to Improve the Electrochemical Properties of NMC Family Cathode Materials. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0