

Masoud Nazarian-Samani

List of Publications by Year in descending order

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Strong, persistent superficial oxidation-assisted chemical bonding of black phosphorus with multiwall carbon nanotubes for high-capacity ultradurable storage of lithium and sodium. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10121-10134.	10.3	71
2	A robust design of Ru quantum dot/N-doped holey graphene for efficient Li ⁺ O ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 619-631.	10.3	55
3	Rational hybrid modulation of P, N dual-doped holey graphene for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2017, 372, 286-296.	7.8	51
4	Improving wear and corrosion properties of alumina coating on AA7075 aluminum by plasma electrolytic oxidation: Effects of graphite absorption. <i>Applied Surface Science</i> , 2019, 481, 108-119.	6.1	37
5	Magn ⁺ li Phase Titanium Oxide as a Novel Anode Material for Potassium-Ion Batteries. <i>ACS Omega</i> , 2019, 4, 5304-5309.	3.5	35
6	Effects of mechanical alloying on the characteristics of a nanocrystalline Ti ⁺ 50at.%Al during hot pressing consolidation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 168, 136-141.	3.5	33
7	Three-dimensional graphene-based spheres and crumpled balls: micro- and nano-structures, synthesis strategies, properties and applications. <i>RSC Advances</i> , 2016, 6, 50941-50967.	3.6	33
8	Perforated two-dimensional nanoarchitectures for next-generation batteries: Recent advances and extensible perspectives. <i>Progress in Materials Science</i> , 2021, 116, 100716.	32.8	30
9	Phase transformations of Ni-15 wt.% B powders during mechanical alloying and annealing. <i>Materials Letters</i> , 2010, 64, 309-312.	2.6	28
10	Exceptionally Reversible Li-/Na-Ion Storage and Ultrastable Solid-Electrolyte Interphase in Layered GeP ₅ Anode. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32815-32825.	8.0	28
11	Failure analysis of a superheater tube ruptured in a power plant boiler: Main causes and preventive strategies. <i>Engineering Failure Analysis</i> , 2019, 98, 131-140.	4.0	25
12	Microstructure evolution and mechanical behavior of a new microalloyed high Mn austenitic steel during compressive deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 615, 424-435.	5.6	23
13	Electrolyte modulation of BiPS ₄ concurrently suppressing the Bi coarsening and polysulfide shuttle effect in K-ion batteries. <i>Energy Storage Materials</i> , 2021, 39, 96-107.	18.0	21
14	Ultra-fast shock-wave combustion synthesis of nanostructured silicon from sand with excellent Li storage performance. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1396-1405.	4.9	20
15	Realization of Sn ₂ P ₂ S ₆ -carbon nanotube anode with high K ⁺ /Na ⁺ storage performance via rational interface manipulation ⁺ induced shuttle-effect inhibition and self-healing. <i>Chemical Engineering Journal</i> , 2022, 435, 134965.	12.7	19
16	High-performance silicon diphosphide/nanocarbon composite anode for Li-ion batteries: Role of chemical bonding and interfaces in the establishment of cycling stability. <i>Journal of Power Sources</i> , 2019, 434, 226759.	7.8	17
17	Si,P vacancy-enriched CoSi ₃ P ₃ anode with exceptional Li storage performance. <i>Energy Storage Materials</i> , 2021, 36, 229-241.	18.0	16
18	Effects of Ni addition on the microstructure and properties of nanostructured copper ⁺ germanium alloys. <i>Intermetallics</i> , 2013, 38, 80-87.	3.9	15

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19	Production of a nanocrystalline Ni ₃ Al-based alloy using mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2010, 500, 30-33.	5.5	14
20	Structural Evolution of Nanocrystalline Nickel-Tungsten Alloys Upon Mechanical Alloying with Subsequent Annealing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 510-521.	2.2	14
21	Study on solid state reactions of nanocrystalline Cu-Ge alloys upon mechanical alloying and annealing. <i>Powder Metallurgy</i> , 2014, 57, 119-126.	1.7	14
22	High-performance sodium hybrid capacitor enabled by presodiated Li ₄ Ti ₅ O ₁₂ . <i>Journal of Power Sources</i> , 2019, 409, 48-57.	7.8	14
23	Efficient stress alleviation and interface regulation in Cu ₄ SiP ₈ -CNT hybrid for ultra-durable Li and Na storage. <i>Nano Energy</i> , 2021, 86, 106134.	16.0	14
24	Defect-rich Ni ₃ Sn ₄ quantum dots anchored on graphene sheets exhibiting unexpected reversible conversion reactions with exceptional lithium and sodium storage performance. <i>Applied Surface Science</i> , 2020, 526, 146756.	6.1	12
25	Prediction of physical properties of Al ₂ TiO ₅ -based ceramics containing micro and nano size oxide additives by using artificial neural network. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2009, 40, 169-177.	0.9	8
26	Amorphization of germanium selenide driven by chemical interaction with carbon and realization of reversible conversion-alloying reaction for superior K-ion storage. <i>Chemical Engineering Journal</i> , 2022, 430, 132995.	12.7	6
27	Characteristics of thermal transitions during annealing of a nanocrystalline Ni ₃ Al-based alloy. <i>Journal of Alloys and Compounds</i> , 2009, 486, 315-318.	5.5	5
28	Investigation of the characteristics of the nanocrystalline Ni ₃ Al-based alloy fabricated by hot pressing and sintering. <i>Journal of Alloys and Compounds</i> , 2010, 492, 196-200.	5.5	4
29	Evolution and Stability of a Nanocrystalline Cu ₃ Ge Intermetallic Compound Fabricated by Means of High Energy Ball Milling and Annealing Processes. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 516-524.	2.2	4
30	Predelithiation-driven ultrastable Na-ion battery performance using Si,P-rich ternary M-Si-P anodes. <i>Energy Storage Materials</i> , 2022, 49, 421-432.	18.0	4
31	Thermokinetic study on the phase evolution of mechanically alloyed Ni-B powders. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 107, 265-269.	3.6	3
32	Bulk metal-derived metal oxide nanoparticles on oxidized carbon surface. <i>Journal of Alloys and Compounds</i> , 2018, 752, 198-205.	5.5	1