Jalal Azadmanjiri

List of Publications by Year
in descending order

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46	1,852	236612	264894
papers	citations	25 h-index	42 g-index

48	48	48	2597
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Two- and three-dimensional graphene-based hybrid composites for advanced energy storage and conversion devices. Journal of Materials Chemistry A, 2018, 6, 702-734.	5.2	126
2	Molten salts promoting the â€œcontrolled carbonizationâ€•of waste polyesters into hierarchically porous carbon for high-performance solar steam evaporation. Journal of Materials Chemistry A, 2019, 7, 22912-22923.	5.2	113
3	Effect of Process Parameters on Dynamic Mechanical Performance of FDM PC/ABS Printed Parts Through Design of Experiment. Journal of Materials Engineering and Performance, 2016, 25, 2922-2935.	1.2	107
4	Graphene-supported 2D transition metal oxide heterostructures. Journal of Materials Chemistry A, 2018, 6, 13509-13537.	5.2	103
5	Preparation of Mnâ€“Zn ferrite nanoparticles from chemical solâ€“gel combustion method and the magnetic properties after sintering. Journal of Non-Crystalline Solids, 2007, 353, 4170-4173.	1.5	96
6	A review on hybrid nanolaminate materials synthesized by deposition techniques for energy storage applications. Journal of Materials Chemistry A, 2014, 2, 3695-3708.	5.2	96
7	Development of Surface Nano-Crystallization in Alloys by Surface Mechanical Attrition Treatment (SMAT). Critical Reviews in Solid State and Materials Sciences, 2015, 40, 164-181.	6.8	85
8	Structural and electromagnetic properties of Niâ€“Zn ferrites prepared by solâ€“gel combustion method. Materials Chemistry and Physics, 2008, 109, 109-112.	2.0	84
9	Magnetic properties of nanosize NiFe2O4 particles synthesized by solâ€“gel auto combustion method. Ceramics International, 2007, 33, 1623-1625.	2.3	71
10	Preparation and electromagnetic properties of Ni1â^'xCuxFe2O4 nanoparticle ferrites by solâ€“gel auto-combustion method. Materials Letters, 2007, 61, 84-87.	1.3	67
11	Synthesis and electromagnetic interference shielding properties of iron oxide/polypyrrole nanocomposites. Polymer Engineering and Science, 2011, 51, 247-253.	1.5	67
12	Surface Functionalization of 2D Transition Metal Oxides and Dichalcogenides via Covalent and Non-covalent Bonding for Sustainable Energy and Biomedical Applications. ACS Applied Nano Materials, 2020, 3, 3116-3143.	2.4	67
13	Graphene-Supported 2D transition metal dichalcogenide van der waals heterostructures. Applied Materials Today, 2020, 19, 100600.	2.3	64
14	Evaluation of NiFe2O4 ferrite nanocrystalline powder synthesized by a solâ€“gel auto-combustion method. Journal of Non-Crystalline Solids, 2007, 353, 802-804.	1.5	63
15	Cellulose Nanocrystals: Production, Functionalization and Advanced Applications. Reviews on Advanced Materials Science, 2019, 58, 1-16.	1.4	59
16	2D layered organicâ€“inorganic heterostructures for clean energy applications. Journal of Materials Chemistry A, 2018, 6, 3824-3849.	5.2	51
17	Nanolaminated composite materials: structure, interface role and applications. RSC Advances, 2016, 6, 109361-109385.	1.7	50
18	A general approach towards carbonization of plastic waste into a well-designed 3D porous carbon framework for super lithium-ion batteries. Chemical Communications, 2020, 56, 9142-9145.	2.2	49

#	Article	IF	Citations
19	Porous carbon nanosheet with high surface area derived from waste poly(ethylene terephthalate) for supercapacitor applications. Journal of Applied Polymer Science, 2020, 137, 48338.	1.3	45
20	Prospective advances in MXene inks: screen printable sediments for flexible micro-supercapacitor applications. Journal of Materials Chemistry A, 2022, 10, 4533-4557.	5.2	38
21	Influence of stoichiometry and calcination condition on the microstructure and phase constitution of NiFe2O4 powders prepared by sol-gel autocombustion method. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 3414-3417.	0.8	37
22	Phase reduction of coated maghemite (Î³-Fe₂O₃) nanoparticles under microwave-induced plasma heating for rapid heat treatment. Journal of Materials Chemistry, 2012, 22, 617-625.	6.7	36
23	Atomically Thin Nanosheets Confined in 2D Heterostructures: Metalâ€Ion Batteries Prospective. Advanced Energy Materials, 2021, 11, 2100451.	10.2	35
24	A simple microwave-based method for preparation of Fe3O4/carbon composite nanoparticles. Materials Letters, 2010, 64, 1684-1687.	1.3	32
25	Liquid Metalsâ€Assisted Synthesis of Scalable 2D Nanomaterials: Prospective Sediment Inks for Screenâ€Printed Energy Storage Applications. Advanced Functional Materials, 2021, 31, 2010320.	7.8	26
26	Advancements in Therapeutics via 3D Printed Multifunctional Architectures from Dispersed 2D Nanomaterial Inks. Small, 2020, 16, e2004900.	5.2	17
27	Sustainable polylysine conversion to nitrogenâ€containing porous carbon flakes: Potential application in supercapacitors. Journal of Applied Polymer Science, 2019, 136, 48214.	1.3	14
28	Enhanced attachment of human mesenchymal stem cells on nanograined titania surfaces. RSC Advances, 2016, 6, 55825-55833.	1.7	13
29	Tantalum- and Silver-Doped Titanium Dioxide Nanosheets Film: Influence on Interfacial Bonding Structure and Hardness of the Surface System. Industrial & Engineering Chemistry Research, 2017, 56, 434-439.	1.8	13
30	Branched Poly(<scp>l</scp>-lysine)-Derived Nitrogen-Containing Porous Carbon Flake as the Metal-Free Electrocatalyst toward Efficient Oxygen Reduction Reaction. ACS Applied Energy Materials, 2021, 4, 3317-3326.	2.5	13
31	Functionalized germanane/SWCNT hybrid films as flexible anodes for lithium-ion batteries. Nanoscale Advances, 2021, 3, 4440-4446.	2.2	13
32	2D Heterostructures for Highly Efficient Photodetectors: From Advanced Synthesis to Characterizations, Mechanisms, and Device Applications. Advanced Photonics Research, 2022, 3, .	1.7	13
33	Flexible, ultralight, and high-energy density electrochemical capacitors using sustainable materials. Electrochimica Acta, 2022, 415, 140239.	2.6	12
34	Diverse-shaped tin dioxide nanoparticles within a plastic waste-derived three-dimensional porous carbon framework for super stable lithium-ion storage. Science of the Total Environment, 2022, 815, 152900.	3.9	11
35	Influence of charged defects on the interfacial bonding strength of tantalum- and silver-doped nanograined TiO₂. Physical Chemistry Chemical Physics, 2017, 19, 11881-11891.	1.3	10
36	The effects of pH and citric acid concentration on the characteristics of nanocrystalline NiFe2O4 powder synthesized by a sol-gel autocombustion method. Physics of Metals and Metallography, 2006, 102, S21-S23.	0.3	9

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37	Multifunctional Photoelectroactive Platform for CO2 Reduction toward C2+ Productsâ”€Programmable Selectivity with a Bioinspired Polymer Coating. ACS Catalysis, 0, , 1558-1571.	5.5	9
38	InSe:Ge-doped InSe van der Waals heterostructure to enhance photogenerated carrier separation for self-powered photoelectrochemical-type photodetectors. Nanoscale, 2022, 14, 5412-5424.	2.8	9
39	The use of plasma treatment for simultaneous carbonization and reduction of iron oxide/polypyrrole core/shell nanoparticles. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	8
40	A study on the formation of MnFe2O4 nano-powder by coprecipitation method. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 253-255.	0.8	7
41	Stimuli-responsive of magnetic metal-organic frameworks (MMOF): Synthesis, dispersion control, and its tunability into polymer matrix under the augmented-magnetic field for H2 separation and CO2 capturing applications. International Journal of Hydrogen Energy, 2022, 47, 20166-20175.	3.8	4
42	Structural and mechanical properties of magnetron-sputtered Alâ€“Au thin films. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	3
43	Production of Cellulose Nanocrystals from Australian Wood Sources. Journal of Nanoscience and Nanotechnology, 2020, 20, 5642-5647.	0.9	2
44	A Study on the Preparation of Nano-Crystalline Barium Titanate Powder by a Sol-Gel Method. Solid State Phenomena, 2007, 121-123, 53-56.	0.3	1
45	Nanocoutured Metallic Biomaterials and Surface Functionalization of Titanium-Based Alloys for Medical Applications. , 2018, , 17-50.		0
46	Surface Functionalization and Antibacterial Characteristics of the Titanium-Based Metallic Biomaterials at Nanoscale. , 2018, , 167-194.		0