

Hossain Milani Moghaddam

List of Publications by Year in descending order

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38
papers

714
citations

623188

14
h-index

552369

26
g-index

38
all docs

38
docs citations

38
times ranked

1015
citing authors

#	ARTICLE	IF	CITATIONS
1	Intrinsic half-metallic properties of MnHm (M: Fe, V, Co, and Cr) in various space groups: A first-principles study. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 547, 168758.	1.0	6
2	Characterization and gas sensing properties of graphene/polyaniline nanocomposite with long-term stability under high humidity. <i>Journal of Materials Science</i> , 2021, 56, 4239-4253.	1.7	19
3	SnO ₂ nanoparticles/reduced graphene oxide nanocomposite for fast ethanol vapor sensing at a low operating temperature with an excellent long-term stability. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 6550-6569.	1.1	13
4	Investigation of the photocatalytic activity of magnesium-doped Viburnum Opulus-like nickel oxide microstructure under visible light irradiation. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 22286-22299.	1.1	0
5	PANI/Sm ₂ O ₃ nanocomposite sensor for fast hydrogen detection at room temperature. <i>Synthetic Metals</i> , 2020, 268, 116493.	2.1	33
6	Enhanced room temperature ammonia sensing properties of polypyrrole/zinc tin oxide nanocomposite. <i>Modern Physics Letters B</i> , 2020, 34, 2050188.	1.0	2
7	Conduction mechanisms in epitaxial NiO/Graphene gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2020, 325, 128797.	4.0	14
8	Characterization and gas sensing properties of PPy/Zn ₂ SnO ₄ nanocomposite with excellent long-term stability. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 12364-12374.	1.1	1
9	Synthesis and characterization of Sm ₂ O ₃ nanorods for application as a novel CO gas sensor. <i>Applied Surface Science</i> , 2019, 487, 793-800.	3.1	28
10	Effect of surface modification on photocatalytic activity of self-assembled LaFeO ₃ microspheres. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 9334-9343.	1.1	2
11	P-p heterojunction of polymer/hierarchical mesoporous LaFeO ₃ microsphere as CO ₂ gas sensing under high humidity. <i>Applied Surface Science</i> , 2019, 479, 1029-1038.	3.1	34
12	Half-metallic behavior in ruthenium-cyclopentadienyl organometallic sandwich molecules. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 22475-22481.	1.3	5
13	The dependence of TMR on the barrier thickness, bias voltage and asymmetry in Fe/ZnO/Fe MTJs: A DFT study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 107, 80-90.	1.3	3
14	Optimized rotation of an optically trapped particle for micro mixing. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	10
15	Tuning the spin transport properties of ferrocene-based single molecule junctions by different linkers. <i>Chemical Physics Letters</i> , 2018, 704, 37-44.	1.2	9
16	A novel conductometric sensor based on hierarchical self-assembly nanoparticles Sm ₂ O ₃ for VOCs monitoring. <i>Ceramics International</i> , 2018, 44, 16953-16959.	2.3	16
17	Facile fabrication of porous hierarchical SnO ₂ via a self-degraded template and their remarkable photocatalytic performance. <i>Applied Surface Science</i> , 2018, 457, 179-186.	3.1	11
18	Greatly enhanced spin filtering of single ferrocene devices: An ab initio study. <i>Organic Electronics</i> , 2018, 62, 227-233.	1.4	1

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19	Binder-free MWCNT/TiO ₂ multilayer nanocomposite as an efficient thin interfacial layer for photoanode of dye sensitized solar cell. <i>Materials Science in Semiconductor Processing</i> , 2017, 71, 20-28.	1.9	21
20	Efficient removal of cadmium using magnetic multiwalled carbon nanotube nanoadsorbents: equilibrium, kinetic, and thermodynamic study. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	43
21	Ammonia gas-sensing based on polythiophene film prepared through electrophoretic deposition method. <i>Journal of Polymer Research</i> , 2016, 23, 1.	1.2	33
22	Self-assembly synthesis and ammonia gas-sensing properties of ZnO/Polythiophene nanofibers. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 8807-8815.	1.1	19
23	Point of zero charge of maghemite decorated multiwalled carbon nanotubes fabricated by chemical precipitation method. <i>Journal of Molecular Liquids</i> , 2016, 216, 117-125.	2.3	118
24	Polyaniline assisted by TiO ₂ :SnO ₂ nanoparticles as a hydrogen gas sensor at environmental conditions. <i>Applied Surface Science</i> , 2015, 328, 395-404.	3.1	48
25	Effect of different conditions on the size and quality of titanium dioxide nanoparticles synthesized by a reflux process. <i>Research on Chemical Intermediates</i> , 2015, 41, 1777-1788.	1.3	9
26	Extended Cauchy Model for Tunable Refractive Index of Titania Nanoparticles at Visible Region. <i>Journal of Dispersion Science and Technology</i> , 2014, 35, 1174-1180.	1.3	1
27	Numerical study on electronic properties of a molecular wire based on BC ₃ zigzag nanotube. <i>Indian Journal of Physics</i> , 2014, 88, 677-682.	0.9	1
28	Effect of different titania phases on the hydrogen gas sensing features of polyaniline/TiO ₂ nanocomposite. <i>Polymer</i> , 2014, 55, 1866-1874.	1.8	45
29	Hydrogen gas sensing based on polyaniline/anatase titania nanocomposite. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 630-642.	3.8	65
30	Hydrogen gas sensing feature of polyaniline/titania (rutile) nanocomposite at environmental conditions. <i>Applied Surface Science</i> , 2014, 317, 117-124.	3.1	33
31	Ab initio investigation on electronic properties of the adenine molecule contacted with gold electrodes: effects of an external electric field. <i>Indian Journal of Physics</i> , 2013, 87, 99-105.	0.9	4
32	Type of lattice strain alteration, the reducing agent of activation energy of titania loading on the silica matrix than that of pure titania. <i>Composite Interfaces</i> , 2013, 20, 119-130.	1.3	3
33	Dependence of activation energy and lattice strain on TiO ₂ nanoparticles?. <i>Nanoscience Methods</i> , 2012, 1, 201-212.	1.0	36
34	The Dominance of Morphology over Size in the Decrease of the Activation Energy of Biphasic TiO ₂ Nanocrystallites. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 562, 219-228.	0.4	6
35	The effect of C atom concentration on the electronic properties of boron carbonitride alloy nanotube in zig-zag form. <i>Pramana - Journal of Physics</i> , 2011, 76, 965-972.	0.9	1
36	Ultrasonic wave effects on the diameter of TiO ₂ nanoparticles. <i>South African Journal of Science</i> , 2011, 107, .	0.3	8

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37	On the excited state wave functions of Dirac fermions in the random gauge potential. Pramana - Journal of Physics, 2010, 74, 633-641.	0.9	0
38	The CNT/BCN/CNT structure (zigzag type) as a molecular switch. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 42, 167-171.	1.3	13