Hossain Milani Moghaddam

List of Publications by Year
in descending order

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	Point of zero charge of maghemite decorated multiwalled carbon nanotubes fabricated by chemical precipitation method. Journal of Molecular Liquids, 2016, 216, 117-125.	2.3	118
2	Hydrogen gas sensing based on polyaniline/anatase titania nanocomposite. International Journal of Hydrogen Energy, 2014, 39, 630-642.	3.8	65
3	Polyaniline assisted by TiO2:SnO2 nanoparticles as a hydrogen gas sensor at environmental conditions. Applied Surface Science, 2015, 328, 395-404.	3.1	48
4	Effect of different titania phases on the hydrogen gas sensing features of polyaniline/TiO2 nanocomposite. Polymer, 2014, 55, 1866-1874.	1.8	45
5	Efficient removal of cadmium using magnetic multiwalled carbon nanotube nanoadsorbents: equilibrium, kinetic, and thermodynamic study. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	43
6	Dependence of activation energy and lattice strain on TiO₂nanoparticles?. Nanoscience Methods, 2012, 1, 201-212.	1.0	36
7	P-p heterojunction of polymer/hierarchical mesoporous LaFeO3 microsphere as CO2 gas sensing under high humidity. Applied Surface Science, 2019, 479, 1029-1038.	3.1	34
8	Hydrogen gas sensing feature of polyaniline/titania (rutile) nanocomposite at environmental conditions. Applied Surface Science, 2014, 317, 117-124.	3.1	33
9	Ammonia gas-sensing based on polythiophene film prepared through electrophoretic deposition method. Journal of Polymer Research, 2016, 23, 1.	1.2	33
10	PANI/Sm2O3 nanocomposite sensor for fast hydrogen detection at room temperature. Synthetic Metals, 2020, 268, 116493.	2.1	33
11	Synthesis and characterization of Sm2O3 nanorods for application as a novel CO gas sensor. Applied Surface Science, 2019, 487, 793-800.	3.1	28
12	Binder-free MWCNT/TiO 2 multilayer nanocomposite as an efficient thin interfacial layer for photoanode of dye sensitized solar cell. Materials Science in Semiconductor Processing, 2017, 71, 20-28.	1.9	21
13	Self-assembly synthesis and ammonia gas-sensing properties of ZnO/Polythiophene nanofibers. Journal of Materials Science: Materials in Electronics, 2016, 27, 8807-8815.	1.1	19
14	Characterization and gas sensing properties of graphene/polyaniline nanocomposite with long-term stability under high humidity. Journal of Materials Science, 2021, 56, 4239-4253.	1.7	19
15	A novel conductometric sensor based on hierarchical self-assembly nanoparticles Sm2O3 for VOCs monitoring. Ceramics International, 2018, 44, 16953-16959.	2.3	16
16	Conduction mechanisms in epitaxial NiO/Graphene gas sensors. Sensors and Actuators B: Chemical, 2020, 325, 128797.	4.0	14
17	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
18	SnO2 nanoparticles/reduced graphene oxide nanocomposite for fast ethanol vapor sensing at a low operating temperature with an excellent long-term stability. Journal of Materials Science: Materials in Electronics, 2021, 32, 6550-6569.	1.1	13

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19	Facile fabrication of porous hierarchical SnO2 via a self-degraded template and their remarkable photocatalytic performance. Applied Surface Science, 2018, 457, 179-186.	3.1	11
20	Optimized rotation of an optically trapped particle for micro mixing. Applied Physics Letters, 2018, 113, .	1.5	10
21	Effect of different conditions on the size and quality of titanium dioxide nanoparticles synthesized by a reflux process. Research on Chemical Intermediates, 2015, 41, 1777-1788.	1.3	9
22	Tuning the spin transport properties of ferrocene-based single molecule junctions by different linkers. Chemical Physics Letters, 2018, 704, 37-44.	1.2	9
23	Ultrasonic wave effects on the diameter of TiO₂ nanoparticles. South African Journal of Science, 2011, 107, .	0.3	8
24	The Dominance of Morphology over Size in the Decrease of the Activation Energy of Biphase TiO2 Nanocrystallites. Molecular Crystals and Liquid Crystals, 2012, 562, 219-228.	0.4	6
25	Intrinsic half-metallic properties of MnHm (M: Fe, V, Co, and Cr) in various space groups: A first-principles study. Journal of Magnetism and Magnetic Materials, 2022, 547, 168758.	1.0	6
26	Half-metallic behavior in ruthenium-cyclopentadienyl organometallic sandwich molecules. Physical Chemistry Chemical Physics, 2019, 21, 22475-22481.	1.3	5
27	Ab initio investigation on electronic properties of the adenine molecule contacted with gold electrodes: effects of an external electric field. Indian Journal of Physics, 2013, 87, 99-105.	0.9	4
28	Type of lattice strain alteration, the reducing agent of activation energy of titania loading on the silica matrix than that of pure titania. Composite Interfaces, 2013, 20, 119-130.	1.3	3
29	The dependence of TMR on the barrier thickness, bias voltage and asymmetry in Fe/ZnO/Fe MTJs: A DFT study. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 107, 80-90.	1.3	3
30	Effect of surface modification on photocatalytic activity of self-assembled LaFeO3 microspheres. Journal of Materials Science: Materials in Electronics, 2019, 30, 9334-9343.	1.1	2
31	Enhanced room temperature ammonia sensing properties of polypyrroleâ€“zinc tin oxide nanocomposite. Modern Physics Letters B, 2020, 34, 2050188.	1.0	2
32	The effect of C atom concentration on the electronic properties of boron carbonitride alloy nanotube in zig-zag form. Pramana - Journal of Physics, 2011, 76, 965-972.	0.9	1
33	Extended Cauchy Model for Tunable Refractive Index of Titania Nanoparticles at Visible Region. Journal of Dispersion Science and Technology, 2014, 35, 1174-1180.	1.3	1
34	Numerical study on electronic properties of a molecular wire based on BC3 zigzag nanotube. Indian Journal of Physics, 2014, 88, 677-682.	0.9	1
35	Greatly enhanced spin filtering of single ferrocene devices: An ab initio study. Organic Electronics, 2018, 62, 227-233.	1.4	1
36	Characterization and gas sensing properties of PPyâ€“Zn2SnO4 nanocomposite with excellent long-term stability. Journal of Materials Science: Materials in Electronics, 2019, 30, 12364-12374.	1.1	1

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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	Investigation of the photocatalytic activity of magnesium-doped Viburnum Opulus-like nickel oxide microstructure under visible light irradiation. Journal of Materials Science: Materials in Electronics, 2021, 32, 22286-22299.	1.1	0