

Rouhollah Azimirad

List of Publications by Year in descending order

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72
papers

2,649
citations

218592

26
h-index

189801

50
g-index

73
all docs

73
docs citations

73
times ranked

4055
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene quantum dots incorporated UiO-66-NH ₂ as a promising photocatalyst for degradation of long-chain oleic acid. <i>Chemical Physics Letters</i> , 2021, 762, 138129.	1.2	26
2	Luminescence and scintillation properties of Eu ²⁺ doped CaF ₂ glass ceramics for radiation spectroscopy. <i>Journal of Luminescence</i> , 2020, 221, 117040.	1.5	11
3	Experimental study of a large plastic scintillator response with different reflective coverings based on digital pulse processing method. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2019, 321, 481-488.	0.7	4
4	Enhancing photoresponsivity of ultraviolet photodetectors based on ZnO/ZnO:Eu (x = 0, 0.2, 1, 5 and) Tj ETQq0,0 0 rgBJ /Overlock	1.4	7
5	Improving ultraviolet photodetection of ZnO nanorods by Cr doped ZnO encapsulation process. <i>Optics Communications</i> , 2018, 413, 131-135.	1.0	36
6	Assessment of optical photon collection in a large plastic scintillator using Geant4-Gate code. <i>Optik</i> , 2018, 158, 305-311.	1.4	3
7	The effects of measuring atmosphere on ultraviolet photodetection performance of ZnO nanostructures. <i>Journal of Alloys and Compounds</i> , 2018, 735, 1406-1413.	2.8	18
8	Investigating NiO nanostructures in ethanol vapor sensing by changing the morphology. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	0
9	Synthesis of Three-Dimensional Multilayer Graphene Foam/ZnO Nanorod Composites and Their Photocatalyst Application. <i>Journal of Electronic Materials</i> , 2018, 47, 5452-5457.	1.0	17
10	Graphene oxide incorporated ZnO nanostructures as a powerful ultraviolet composite detector. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 6919-6927.	1.1	22
11	Preparation and optimization of CdWO ₄ -polymer nano-composite film as an alpha particle counter. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 852, 85-90.	0.7	18
12	Electronic structure and optical properties of the single crystal and two-dimensional structure of CdWO ₄ from first principles. <i>Physica B: Condensed Matter</i> , 2017, 511, 103-108.	1.3	6
13	Photoelectrochemical activity of graphene quantum dots/hierarchical porous TiO ₂ photoanode. <i>Journal of Alloys and Compounds</i> , 2017, 721, 36-44.	2.8	38
14	Effects of Chromium Dopant on Ultraviolet Photoresponsivity of ZnO Nanorods. <i>Journal of Electronic Materials</i> , 2017, 46, 4250-4255.	1.0	4
15	The effect of Fe-dopant concentration on ethanol gas sensing properties of Fe doped ZnO/shell/core nanorods. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 84, 71-78.	1.3	21
16	The effect of concentration of H ₂ physisorption on the current-voltage characteristic of armchair BN nanotubes in CNT-BNNT-CNT set. <i>Pramana - Journal of Physics</i> , 2016, 87, 1.	0.9	8
17	ZnO/rGO nanocomposite layer as a sensitive layer for simplistic ethanol vapor sensor and UV light detector. <i>EPJ Applied Physics</i> , 2016, 73, 10401.	0.3	5
18	CO gas optoelectronic sensor using semiconductor graphene nanoribbons: A first-principles study. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 559-565.	0.7	3

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19	Investigating on photocatalytic performance of CuO micro and nanostructures prepared by different precursors. <i>Desalination and Water Treatment</i> , 2016, 57, 6723-6731.	1.0	19
20	Effect of annealing process in tuning of defects in ZnO nanorods and their application in UV photodetectors. <i>Optik</i> , 2016, 127, 4675-4681.	1.4	57
21	Hydrothermal synthesis of NiO nanostructures for photodegradation of 4-nitrophenol. <i>Desalination and Water Treatment</i> , 2016, 57, 21982-21989.	1.0	18
22	Electrospun polystyrene fibres on TiO ₂ nanostructured film to enhance the hydrophobicity and corrosion resistance of stainless steel substrates. <i>Pramana - Journal of Physics</i> , 2016, 86, 653-660.	0.9	8
23	Ultra-violet photodetection enhancement based on ZnO-graphene composites fabricated by sonochemical method. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 74, 499-506.	1.1	26
24	Preparation of three dimensional graphene foam-WO ₃ nanocomposite with enhanced visible light photocatalytic activity. <i>Materials Chemistry and Physics</i> , 2015, 162, 686-691.	2.0	25
25	Hydrothermally Synthesized CuO Powders for Photocatalytic Inactivation of Bacteria. <i>Acta Physica Polonica A</i> , 2015, 127, 1727-1731.	0.2	17
26	Hydrogen-rich water for green reduction of graphene oxide suspensions. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 5553-5560.	3.8	37
27	Visible light photoinactivation of bacteria by tungsten oxide nanostructures formed on a tungsten foil. <i>Applied Surface Science</i> , 2015, 338, 55-60.	3.1	35
28	Investigation of ethanol vapor sensing properties of ZnO flower-like nanostructures. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015, 73, 588-595.	2.5	17
29	How CdS nanoparticles can influence TiO ₂ nanotube arrays in solar energy applications?. <i>Applied Catalysis B: Environmental</i> , 2015, 162, 210-216.	10.8	60
30	Enhanced gas-sensing properties of ZnO nanorods encapsulated in an Fe-doped ZnO shell. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 075003.	1.3	42
31	Electrical investigation and ultraviolet detection of ZnO nanorods encapsulated with ZnO and Fe-doped ZnO layer. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 71, 540-548.	1.1	9
32	Investigation of reduced graphene oxide effects on ultra-violet detection of ZnO thin film. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 57, 155-160.	1.3	41
33	Photocatalytic and Antifungal Activity of Flower-Like Copper Oxide Nanostructures. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2014, 44, 798-803.	0.6	14
34	Enhancing photoresponsivity of ultra violet photodetectors based on Fe doped ZnO/ZnO shell/core nanorods. <i>Journal of Alloys and Compounds</i> , 2014, 615, 227-233.	2.8	39
35	Microstructure and Hydrogen Storage Properties of LaNi ₅ -Multi Wall Carbon Nanotubes (MWCNTs) Composite. <i>Arabian Journal for Science and Engineering</i> , 2013, 38, 187-194.	1.1	8
36	Synthesis of potassium tungsten oxide nano/microwires by heat treatment of tungsten foils. <i>Thin Solid Films</i> , 2013, 529, 475-478.	0.8	3

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37	The Effects of Reduced Graphene Oxide (rGO) on ZnO Film UV-Detector. <i>Advanced Materials Research</i> , 2013, 829, 577-582.	0.3	10
38	Influence of hydrogen reduction on growth of tungsten oxide nanowires. <i>Journal of Experimental Nanoscience</i> , 2012, 7, 597-607.	1.3	6
39	Enhanced photoelectrochemical activity of Ce doped ZnO nanocomposite thin films under visible light. <i>Journal of Electroanalytical Chemistry</i> , 2011, 661, 106-112.	1.9	118
40	CuO/Cu(OH) ₂ hierarchical nanostructures as bactericidal photocatalysts. <i>Journal of Materials Chemistry</i> , 2011, 21, 9634.	6.7	260
41	Effect of annealing temperature on growth of Ce-ZnO nanocomposite thin films: X-ray photoelectron spectroscopy study. <i>Thin Solid Films</i> , 2011, 520, 721-725.	0.8	38
42	Functionalized carbon nanotubes in ZnO thin films for photoinactivation of bacteria. <i>Materials Chemistry and Physics</i> , 2011, 130, 598-602.	2.0	115
43	Field-emission enhancement of molybdenum oxide nanowires with nanoprotusions. <i>Journal of Nanoparticle Research</i> , 2011, 13, 115-125.	0.8	18
44	Synthesis of W ₁₇ O ₄₇ nanothick plates with preferred orientation and their photocatalytic activity. <i>Surface and Interface Analysis</i> , 2011, 43, 1397-1402.	0.8	9
45	UV detecting properties of hydrothermal synthesized ZnO nanorods. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 43, 1141-1145.	1.3	71
46	The effect of heat treatment on physical properties of nanograined (WO ₃) _{1-x} (Fe ₂ O ₃) _x thin films. <i>Vacuum</i> , 2011, 85, 810-819.	1.6	21
47	Superhydrophilic stability enhancement of RF co-sputtered Ti _x Si _{1-x} O ₂ thin films in dark. <i>Applied Surface Science</i> , 2010, 256, 2500-2506.	3.1	20
48	Improved electrochromical properties of sol-gel WO ₃ thin films by doping gold nanocrystals. <i>Thin Solid Films</i> , 2010, 518, 2250-2257.	0.8	81
49	Visible light photo-induced antibacterial activity of CNT-doped TiO ₂ thin films with various CNT contents. <i>Journal of Materials Chemistry</i> , 2010, 20, 7386.	6.7	213
50	Photocatalytic property of Fe ₂ O ₃ nanograin chains coated by TiO ₂ nanolayer in visible light irradiation. <i>Applied Catalysis A: General</i> , 2009, 369, 77-82.	2.2	143
51	AFM stochastic analysis of surface twisted nanograin chains of iron oxide: a kinetic study. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 065404.	1.3	5
52	Hydrothermal synthesis of ZnO nanorod arrays for photocatalytic inactivation of bacteria. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 225305.	1.3	174
53	Simple Method to Synthesize NaWO ₃ Nanorods and Nanobelts. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13098-13102.	1.5	26
54	Growth and Field Emission Study of Molybdenum Oxide Nanostars. <i>Journal of Physical Chemistry C</i> , 2009, 113, 19298-19304.	1.5	99

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55	Growth of Na _{0.3} WO ₃ nanorods for the field emission application. Journal Physics D: Applied Physics, 2009, 42, 205405.	1.3	15
56	Persistent superhydrophilicity of sol-gel derived nanoporous silica thin films. Journal Physics D: Applied Physics, 2009, 42, 025302.	1.3	27
57	Self-encapsulation of single-texture CoSi ₂ nanolayer by TaSi ₂ . Thin Solid Films, 2008, 516, 6008-6012.	0.8	4
58	Growth and characterization of sodium tungsten oxide nanobelts with U-shape cross section. Journal of Crystal Growth, 2008, 310, 824-828.	0.7	14
59	The effect of heating time on growth of Na _x WO ₃ nanowhiskers. Vacuum, 2008, 82, 821-826.	1.6	20
60	Low temperature self-agglomeration of metallic Ag nanoparticles on silica sol-gel thin films. Journal Physics D: Applied Physics, 2008, 41, 195305.	1.3	38
61	The effect of nanocrystalline tungsten oxide concentration on surface properties of dip-coated hydrophilic WO ₃ /SiO ₂ thin films. Journal Physics D: Applied Physics, 2007, 40, 2089-2095.	1.3	34
62	Hydrophilicity variation of WO ₃ thin films with annealing temperature. Journal Physics D: Applied Physics, 2007, 40, 1134-1137.	1.3	89
63	Physical characteristics of heat-treated nano-silvers dispersed in sol-gel silica matrix. Nanotechnology, 2006, 17, 763-771.	1.3	80
64	Influence of Coloring Voltage and Thickness on Electrochromical Properties of e-beam Evaporated WO ₃ Thin Films. Journal of the Electrochemical Society, 2006, 153, E11.	1.3	59
65	The effect of annealing temperature on the statistical properties of WO ₃ surface. Journal of Statistical Mechanics: Theory and Experiment, 2006, 2006, P09017-P09017.	0.9	19
66	An investigation on electrochromic properties of (WO ₃) _{1-x} (Fe ₂ O ₃) _x thin films. Thin Solid Films, 2006, 515, 644-647.	0.8	23
67	The barrier effect of a W _x Ta _(1-x) nanolayer on formation of single-texture CoSi ₂ on Si(100). Semiconductor Science and Technology, 2006, 21, 1181-1192.	1.0	5
68	Optical properties and surface morphology of evaporated (WO ₃) _{1-x} (Fe ₂ O ₃) _x thin films. Thin Solid Films, 2005, 484, 124-131.	0.8	52
69	Single-crystalline growth of CoSi ₂ by refractory-interlayer-mediated epitaxy. Applied Surface Science, 2004, 233, 123-128.	3.1	8
70	Study of cobalt silicides formation in Co/Ta-W/Si(100) multilayer systems. Thin Solid Films, 2003, 433, 298-304.	0.8	6
71	Photocatalytic Activity of One-Pot Synthesized Reduced Graphene Oxide / Zinc Oxide Nanocomposites. Journal of Nano Research, 0, 37, 74-84.	0.8	6
72	Investigating the effects of Fe dopant on structural, optical, and photocatalytic properties of ZnO nanoflowers. , 0, 123, 196-202.		1