

# Azam Iraji zad

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/735380/publications.pdf>

Version: 2024-02-01

189  
papers

5,949  
citations

71061

41  
h-index

102432

66  
g-index

189  
all docs

189  
docs citations

189  
times ranked

7889  
citing authors

#	ARTICLE	IF	CITATIONS
1	Melatonin as a powerful bio-antioxidant for reduction of graphene oxide. <i>Journal of Materials Chemistry</i> , 2011, 21, 10907.	6.7	255
2	Room temperature H <sub>2</sub> S gas sensor based on rather aligned ZnO nanorods with flower-like structures. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 865-871.	4.0	224
3	Size, composition and optical properties of copper nanoparticles prepared by laser ablation in liquids. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 88, 415-419.	1.1	197
4	Stability, size and optical properties of silver nanoparticles prepared by laser ablation in different carrier media. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 84, 215-219.	1.1	186
5	Pd@WO <sub>3</sub> /reduced graphene oxide hierarchical nanostructures as efficient hydrogen gas sensors. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 8169-8179.	3.8	163
6	Pd doped WO <sub>3</sub> films prepared by sol-gel process for hydrogen sensing. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 854-860.	3.8	133
7	The decoration of TiO <sub>2</sub> /reduced graphene oxide by Pd and Pt nanoparticles for hydrogen gas sensing. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 15423-15432.	3.8	130
8	Sensitive and selective room temperature H <sub>2</sub> S gas sensor based on Au sensitized vertical ZnO nanorods with flower-like structures. <i>Journal of Alloys and Compounds</i> , 2015, 628, 222-229.	2.8	128
9	Synthesis and photocatalytic activity of WO <sub>3</sub> nanoparticles prepared by the arc discharge method in deionized water. <i>Nanotechnology</i> , 2008, 19, 195709.	1.3	115
10	Investigating the effects of using different types of SiO <sub>2</sub> nanoparticles on the mechanical properties of binary blended concrete. <i>Composites Part B: Engineering</i> , 2013, 54, 52-58.	5.9	115
11	Glassy carbon electrode modified with 3D graphene-carbon nanotube network for sensitive electrochemical determination of methotrexate. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 617-627.	4.0	111
12	Highly sensitive nonenzymatic glucose sensing platform based on MOF-derived NiCo LDH nanosheets/graphene nanoribbons composite. <i>Journal of Electroanalytical Chemistry</i> , 2018, 808, 114-123.	1.9	107
13	Fluorine Treatment of TiO <sub>2</sub> for Enhancing Quantum Dot Sensitized Solar Cell Performance. <i>Journal of Physical Chemistry C</i> , 2011, 115, 14400-14407.	1.5	105
14	Stochastic Analysis and Regeneration of Rough Surfaces. <i>Physical Review Letters</i> , 2003, 91, 226101.	2.9	100
15	Synthesis and characterization of NiCo <sub>2</sub> O <sub>4</sub> nanorods for preparation of supercapacitor electrodes. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 269-274.	1.2	94
16	Fabrication of Sensitive Glutamate Biosensor Based on Vertically Aligned CNT Nanoelectrode Array and Investigating the Effect of CNTs density on the electrode performance. <i>Analytical Chemistry</i> , 2012, 84, 5932-5938.	3.2	86
17	One step electrodeposition of V <sub>2</sub> O <sub>5</sub> /polypyrrole/graphene oxide ternary nanocomposite for preparation of a high performance supercapacitor. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 21073-21085.	3.8	82
18	Ternary nanostructures of Cr <sub>2</sub> O <sub>3</sub> /graphene oxide/conducting polymers for supercapacitor application. <i>Journal of Electroanalytical Chemistry</i> , 2018, 823, 505-516.	1.9	78

#	ARTICLE	IF	CITATIONS
19	ZnO nanoparticles prepared by electrical arc discharge method in water. <i>Materials Chemistry and Physics</i> , 2009, 118, 6-8.	2.0	72
20	Mechanical properties of graphene cantilever from atomic force microscopy and density functional theory. <i>Nanotechnology</i> , 2010, 21, 185503.	1.3	63
21	Effect of nanostructured electrode architecture and semiconductor deposition strategy on the photovoltaic performance of quantum dot sensitized solar cells. <i>Electrochimica Acta</i> , 2012, 75, 139-147.	2.6	62
22	Synthesis and characterization of TiO <sub>2</sub> @graphene nanocomposites modified with noble metals as a photocatalyst for degradation of pollutants. <i>Applied Catalysis A: General</i> , 2013, 462-463, 82-90.	2.2	59
23	Defect study of TiO <sub>2</sub> nanorods grown by a hydrothermal method through photoluminescence spectroscopy. <i>Journal of Luminescence</i> , 2015, 157, 235-242.	1.5	58
24	Graphene/cobalt nanocarrier for hyperthermia therapy and MRI diagnosis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 146, 271-279.	2.5	57
25	A new approach to flexible humidity sensors using graphene quantum dots. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8966-8973.	2.7	56
26	A photochemical method for controlling the size of CdS nanoparticles. <i>Nanotechnology</i> , 2005, 16, 334-338.	1.3	55
27	Pulsed laser deposition of W@VO composite films: Preparation, characterization and gasochromic studies. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 878-883.	3.0	55
28	GMR in multilayered nanowires electrodeposited in track-etched polyester and polycarbonate membranes. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 308, 35-39.	1.0	53
29	On the growth sequence of highly ordered nanoporous anodic aluminium oxide. <i>Materials &amp; Design</i> , 2006, 27, 983-988.	5.1	52
30	Palladium nanoparticle deposition onto the WO <sub>3</sub> surface through hydrogen reduction of PdCl <sub>2</sub> : Characterization and gasochromic properties. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 2335-2340.	3.0	52
31	Graphene/PbS as a Novel Counter Electrode for Quantum Dot Sensitized Solar Cells. <i>ACS Photonics</i> , 2014, 1, 323-330.	3.2	52
32	The effect of liquid environment on size and aggregation of gold nanoparticles prepared by pulsed laser ablation. <i>Journal of Nanoparticle Research</i> , 2007, 9, 853-860.	0.8	49
33	An efficient two-step approach for improvement of graphene aerogel characteristics in preparation of supercapacitor electrodes. <i>Journal of Energy Storage</i> , 2018, 17, 465-473.	3.9	49
34	Characterization of Pd nanoparticle dispersed over porous silicon as a hydrogen sensor. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 7201-7209.	1.3	45
35	Comparison of Trap State Distribution and Carrier Transport in Nanotubular and Nanoparticulate TiO <sub>2</sub> Electrodes for Dye-Sensitized Solar Cells. <i>ChemPhysChem</i> , 2010, 11, 2140-2145.	1.0	45
36	DNA-decorated graphene nanomesh for detection of chemical vapors. <i>Applied Physics Letters</i> , 2013, 103, 183110.	1.5	45

#	ARTICLE	IF	CITATIONS
37	In-situ electro-polymerization of graphene nanoribbon/polyaniline composite film: Application to sensitive electrochemical detection of dobutamine. <i>Sensors and Actuators B: Chemical</i> , 2014, 196, 582-588.	4.0	45
38	Electroless plating of palladium on WO <sub>3</sub> films for gasochromic applications. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 201-206.	3.0	44
39	Fabrication of Pd Doped WO <sub>3</sub> Nanofiber as Hydrogen Sensor. <i>Polymers</i> , 2013, 5, 45-55.	2.0	44
40	An IPMC-made deformable-ring-like robot. <i>Smart Materials and Structures</i> , 2012, 21, 065011.	1.8	43
41	Easily manufactured TiO <sub>2</sub> hollow fibers for quantum dot sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 522-528.	1.3	42
42	Photocatalytic activity of ZnO nanoparticles prepared via submerged arc discharge method. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 100, 1097-1102.	1.1	41
43	UV photodetection of laterally connected ZnO rods grown on porous silicon substrate. <i>Sensors and Actuators A: Physical</i> , 2012, 180, 11-14.	2.0	41
44	Preparation of ZnO nanoparticles/Ag nanowires nanocomposites as plasmonic photocatalysts and investigation of the effect of concentration and diameter size of Ag nanowires on their photocatalytic performance. <i>Journal of Alloys and Compounds</i> , 2016, 664, 707-714.	2.8	40
45	Characterization of porous poly-silicon impregnated with Pd as a hydrogen sensor. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 36-40.	1.3	39
46	Voltammetric studies of Azathioprine on the surface of graphite electrode modified with graphene nanosheets decorated with Ag nanoparticles. <i>Materials Science and Engineering C</i> , 2016, 58, 1098-1104.	3.8	39
47	Characterization of porous poly-silicon as a gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2004, 100, 341-346.	4.0	38
48	On the Formation of TiO <sub>2</sub> Nanoparticles Via Submerged Arc Discharge Technique: Synthesis, Characterization and Photocatalytic Properties. <i>Journal of Cluster Science</i> , 2010, 21, 753-766.	1.7	37
49	On the performance of vertical MoS <sub>2</sub> nanoflakes as a gas sensor. <i>Vacuum</i> , 2019, 167, 90-97.	1.6	37
50	&p&gt;Doxorubicin/Cisplatin-Loaded Superparamagnetic Nanoparticles As A Stimuli-Responsive Co-Delivery System For Chemo-Photothermal Therapy&lt;/p&gt;. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 8769-8786.	3.3	36
51	Fabrication of gas ionization sensor using carbon nanotube arrays grown on porous silicon substrate. <i>Sensors and Actuators A: Physical</i> , 2010, 162, 24-28.	2.0	35
52	Optimization of CuIn <sub>1-x</sub> Ga <sub>x</sub> S <sub>2</sub> Nanoparticles and Their Application in the Hole-Transporting Layer of Highly Efficient and Stable Mixed-Halide Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 30838-30845.	4.0	35
53	Effective factors on Pd growth on porous silicon by electroless-plating: Response to hydrogen. <i>Sensors and Actuators B: Chemical</i> , 2006, 115, 164-169.	4.0	34
54	Strain effect on quantum conductance of graphene nanoribbons from maximally localized Wannier functions. <i>Physical Review B</i> , 2010, 81, .	1.1	34

#	ARTICLE	IF	CITATIONS
55	Rapid and efficient synthesis of colloidal gold nanoparticles by Arc discharge method. Applied Physics A: Materials Science and Processing, 2009, 96, 423-428.	1.1	32
56	Micro helical polymeric structures produced by variable voltage direct electrospinning. Soft Matter, 2011, 7, 10548.	1.2	32
57	Tunable bandgap and spin-orbit coupling by composition control of MoS <sub>2</sub> and MoO <sub>x</sub> (x = 2 and 3) thin film compounds. Materials and Design, 2017, 122, 220-225.	3.3	32
58	Transition metal ions-doped polyaniline/graphene oxide nanostructure as high performance electrode for supercapacitor applications. Journal of Solid State Electrochemistry, 2018, 22, 983-996.	1.2	32
59	Growth control of cobalt oxide nanoparticles on reduced graphene oxide for enhancement of electrochemical capacitance. International Journal of Hydrogen Energy, 2014, 39, 21068-21075.	3.8	31
60	Cadmium telluride quantum dots induce apoptosis in human breast cancer cell lines. Toxicology and Industrial Health, 2018, 34, 339-352.	0.6	31
61	Sensing behavior of flower-shaped MoS <sub>2</sub> nanoflakes: case study with methanol and xylene. Beilstein Journal of Nanotechnology, 2018, 9, 608-615.	1.5	30
62	The effect of grain size on the fluctuation-induced conductivity of Cu <sub>1-x</sub> Tl <sub>x</sub> Ba <sub>2</sub> Ca <sub>3</sub> Cu <sub>4</sub> O <sub>12</sub> superconductor thin films. Superconductor Science and Technology, 2007, 20, 742-747.	1.8	29
63	Investigation on the dynamics of electron transport and recombination in TiO <sub>2</sub> nanotube/nanoparticle composite electrodes for dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2011, 13, 21487.	1.3	29
64	Mediator-less highly sensitive voltammetric detection of glutamate using glutamate dehydrogenase/vertically aligned CNTs grown on silicon substrate. Biosensors and Bioelectronics, 2012, 31, 110-115.	5.3	29
65	A novel field ionization gas sensor based on self-organized CuO nanowire arrays. Sensors and Actuators A: Physical, 2014, 216, 202-206.	2.0	29
66	Structural and Optical Study of Ga <sup>3+</sup> Substitution in CuInS <sub>2</sub> Nanoparticles Synthesized by a One-Pot Facile Method. Journal of Physical Chemistry C, 2014, 118, 24670-24679.	1.5	29
67	Ethanol sensing properties of PVP electrospun membranes studied by quartz crystal microbalance. Measurement: Journal of the International Measurement Confederation, 2016, 78, 283-288.	2.5	29
68	ZIF-8/PEDOT @ flexible carbon cloth electrode as highly efficient electrocatalyst for oxygen reduction reaction. International Journal of Hydrogen Energy, 2020, 45, 1890-1900.	3.8	29
69	Hydrogen sensing properties of multi-walled carbon nanotube films sputtered by Pd. International Journal of Hydrogen Energy, 2010, 35, 4445-4449.	3.8	28
70	Hybrid multiwalled carbon nanotubes and trioxide tungsten nanoparticles for hydrogen gas sensing. Journal Physics D: Applied Physics, 2009, 42, 165105.	1.3	27
71	Investigation of hydrogen sensing properties and aging effects of Schottky like Pd/porous Si. Sensors and Actuators B: Chemical, 2010, 146, 53-60.	4.0	27
72	Stability, size and optical properties of colloidal silver nanoparticles prepared by electrical arc discharge in water. EPJ Applied Physics, 2009, 48, 10601.	0.3	26

#	ARTICLE	IF	CITATIONS
73	The effect of operating temperature on gasochromic properties of amorphous and polycrystalline pulsed laser deposited WO <sub>3</sub> films. <i>Sensors and Actuators B: Chemical</i> , 2012, 169, 284-290.	4.0	26
74	Pt and Pd as catalyst deposited by hydrogen reduction of metal salts on WO <sub>3</sub> films for gasochromic application. <i>Applied Surface Science</i> , 2013, 273, 261-267.	3.1	26
75	Detecting hydrogen using graphene quantum dots/WO <sub>3</sub> thin films. <i>Materials Research Express</i> , 2016, 3, 116407.	0.8	26
76	Characterization of etched glass surfaces by wave scattering. <i>Surface and Interface Analysis</i> , 2005, 37, 641-645.	0.8	25
77	Gasochromic tungsten oxide thin films for optical hydrogen sensors. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 055405.	1.3	25
78	Synthesis of sodium tungsten oxide nano-thick plates. <i>Materials Letters</i> , 2012, 82, 214-216.	1.3	25
79	Characterization of three-dimensional reduced graphene oxide/copper oxide heterostructures for hydrogen sulfide gas sensing application. <i>Journal of Alloys and Compounds</i> , 2018, 740, 1024-1031.	2.8	25
80	The effect of the Cr and Mo on the physical properties of electrodeposited Ni-Fe alloy films. <i>Journal of Alloys and Compounds</i> , 2005, 386, 43-46.	2.8	24
81	Fine tuning of the size of CdS nanoparticles synthesized by a photochemical method. <i>Nanotechnology</i> , 2006, 17, 1230-1235.	1.3	24
82	High-Photoresponsive Backward Diode by Two-Dimensional SnS <sub>2</sub> /Silicon Heterostructure. <i>ACS Photonics</i> , 2019, 6, 728-734.	3.2	24
83	Iron-vanadium oxysulfide nanostructures as novel electrode materials for supercapacitor applications. <i>Journal of Electroanalytical Chemistry</i> , 2018, 818, 157-167.	1.9	23
84	Flexible and Mechanically Durable Asymmetric Supercapacitor Based on NiCo-Layered Double Hydroxide and Nitrogen-Doped Graphene Using a Simple Fabrication Method. <i>Energy Technology</i> , 2019, 7, 1801002.	1.8	23
85	Room temperature and high response ethanol sensor based on two dimensional hybrid nanostructures of WS <sub>2</sub> /GONRs. <i>Scientific Reports</i> , 2020, 10, 14799.	1.6	23
86	Photo-induced CdS nanoparticles growth. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005, 30, 114-119.	1.3	22
87	Etched glass surfaces, atomic force microscopy and stochastic analysis. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 375, 239-246.	1.2	22
88	Improved photovoltaic performance of nanostructured solar cells by neodymium-doped TiO <sub>2</sub> photoelectrode. <i>Materials Letters</i> , 2015, 159, 273-275.	1.3	22
89	Adsorption of TiO <sub>2</sub> Nanoparticles on Glass Fibers. <i>Journal of Physical Chemistry C</i> , 2007, 111, 9794-9798.	1.5	21
90	Thermochemical growth of Mn-doped CdS nanoparticles and study of luminescence evolution. <i>Nanotechnology</i> , 2008, 19, 225705.	1.3	21

#	ARTICLE	IF	CITATIONS
91	Facile synthesis of gradient alloyed ZnxCd1-xS nanocrystals using a microwave-assisted method. <i>Journal of Alloys and Compounds</i> , 2014, 586, 380-384.	2.8	21
92	Hydrogen sensing properties of nanocomposite graphene oxide/Co-based metal organic frameworks (Co-MOFs@GO). <i>Nanotechnology</i> , 2018, 29, 015501.	1.3	20
93	An Artificial Neural Networks Model for Predicting Permeability Properties of Nano Silica-Rice Husk Ash Ternary Blended Concrete. <i>International Journal of Concrete Structures and Materials</i> , 2013, 7, 225-238.	1.4	19
94	Silver Fiber Fabric as the Current Collector for Preparation of Graphene- Based Supercapacitors. <i>Electrochimica Acta</i> , 2017, 227, 246-254.	2.6	19
95	Low temperature conductivity of ultra thin deposits of Ag on Ge(100). <i>Solid State Communications</i> , 1992, 83, 467-471.	0.9	18
96	Diffusion and segregation of substrate copper in electrodeposited Ni-Fe thin films. <i>Journal of Alloys and Compounds</i> , 2007, 443, 81-86.	2.8	18
97	Enhanced photoelectrochemical processes by interface engineering, using Cu <sub>2</sub> O nanorods. <i>Materials Letters</i> , 2016, 163, 81-84.	1.3	18
98	Shedding Light on Pseudocapacitive Active Edges of Single-Layer Graphene Nanoribbons as High-Capacitance Supercapacitors. <i>ACS Applied Energy Materials</i> , 2019, 2, 3665-3675.	2.5	18
99	Height fluctuations and intermittency of V <sub>2</sub> O <sub>5</sub> films by atomic force microscopy. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 1889-1898.	0.7	17
100	The effect of Pd addition to Fe as catalysts on growth of carbon nanotubes by TCVD method. <i>Applied Surface Science</i> , 2008, 254, 6416-6421.	3.1	17
101	New gasochromic system: nanoparticles in liquid. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	17
102	Enhanced electronic contacts in SnO <sub>2</sub> -dye-P3HT based solid state dye sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2075.	1.3	17
103	Fabrication of gas ionization sensor based on titanium oxide nanotube arrays. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 115, 1387-1393.	1.1	17
104	Electrochemical functionalization of graphene nanosheets with catechol derivatives as an effective method for preparation of highly performance supercapacitors. <i>Electrochimica Acta</i> , 2014, 147, 136-142.	2.6	17
105	Fourier transform infrared spectroscopy and scanning tunneling spectroscopy of porous silicon in the presence of methanol. <i>Sensors and Actuators B: Chemical</i> , 2008, 132, 40-44.	4.0	16
106	Self-assembled one-pot synthesis of red luminescent CdS:Mn/Mn(OH) <sub>2</sub> nanoparticles. <i>Journal of Luminescence</i> , 2008, 128, 1980-1984.	1.5	16
107	Comparative study of ZnO nanostructures grown on silicon (100) and oxidized porous silicon substrates with and without Au catalyst by chemical vapor transport and condensation. <i>Journal of Alloys and Compounds</i> , 2011, 509, 4295-4299.	2.8	16
108	Density functional theory prediction for oxidation and exfoliation of graphite to graphene. <i>Applied Surface Science</i> , 2010, 256, 7596-7599.	3.1	15

#	ARTICLE	IF	CITATIONS
109	Electrochemically Assisted Photocatalytic Oxidation of Methanol on TiO <sub>2</sub> Nanotube Arrays. Journal of Materials Science and Technology, 2010, 26, 535-541.	5.6	15
110	Structural and optical properties of Fe and Zn substituted CuInS <sub>2</sub> nanoparticles synthesized by a one-pot facile method. Journal of Materials Chemistry C, 2015, 3, 889-898.	2.7	15
111	X-ray photoemission studies of Zn doped Cu <sub>1-x</sub> Tl <sub>x</sub> Ba <sub>2</sub> Ca <sub>2</sub> Cu <sub>3-y</sub> ZnyO <sub>10-z</sub> (y=0, 2.65) superconductors. Physica C: Superconductivity and Its Applications, 2007, 453, 46-51.	0.6	14
112	Comparison of various anodization and annealing conditions of titanium dioxide nanotubular film on MB degradation. EPJ Applied Physics, 2009, 47, 10601.	0.3	14
113	Simply synthesized TiO <sub>2</sub> nanorods as an effective scattering layer for quantum dot sensitized solar cells. Chinese Physics B, 2014, 23, 047302.	0.7	14
114	A graphene/TiS <sub>3</sub> heterojunction for resistive sensing of polar vapors at room temperature. Mikrochimica Acta, 2020, 187, 117.	2.5	14
115	X-ray photo-emission studies of Cu <sub>1-x</sub> Tl <sub>x</sub> Ba <sub>2</sub> Ca <sub>3</sub> Cu <sub>4</sub> O <sub>12-y</sub> superconductor thin films. Physica C: Superconductivity and Its Applications, 2006, 449, 47-52.	0.6	13
116	Field emission of Co nanowires in polycarbonate template. Thin Solid Films, 2009, 517, 1736-1739.	0.8	13
117	TiO <sub>2</sub> nanotubular fibers sensitized with CdS nanoparticles. EPJ Applied Physics, 2010, 50, 20601.	0.3	13
118	Colouration process of colloidal tungsten oxide nanoparticles in the presence of hydrogen gas. Applied Surface Science, 2012, 258, 10089-10094.	3.1	13
119	Simple One-Step Fabrication of Semiconductive Lateral Heterostructures Using Bipolar Electrodeposition. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800418.	1.2	13
120	Three-dimensional hybrid of iron-titanium mixed oxide/nitrogen-doped graphene on Ni foam as a superior electrocatalyst for oxygen evolution reaction. Journal of Colloid and Interface Science, 2020, 563, 241-251.	5.0	13
121	The effect of target annealing temperature on optical and structural properties and composition of CdS thin films prepared by pulsed laser. Optical Materials, 2005, 27, 1583-1586.	1.7	12
122	Hydrogen Sensing Properties of Pure and Pd Activated WO <sub>3</sub> Nanostructured Films. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2007, 37, 453-456.	0.6	12
123	Improved charge collection efficiency of hollow sphere/nanoparticle composite TiO <sub>2</sub> electrodes for solid state dye sensitized solar cells. Current Applied Physics, 2013, 13, 371-376.	1.1	12
124	Application of combinative TiO <sub>2</sub> nanorods and nanoparticles layer as the electron transport film in highly efficient mixed halides perovskite solar cells. Electrochimica Acta, 2019, 297, 1071-1078.	2.6	12
125	Two-scale Kirchhoff theory: comparison of experimental observations with theoretical prediction. Journal of Statistical Mechanics: Theory and Experiment, 2005, 2005, P04013.	0.9	11
126	The effect of the Cr and Mo on the surface accumulation of copper in the electrodeposited Ni-Fe/Cu alloy films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2006, 127, 17-21.	1.7	11



#	ARTICLE	IF	CITATIONS
127	Comparative study of the grown ZnO nanostructures on quartz and alumina substrates by vapor phase transport method without catalyst: Synthesis and acetone sensing properties. <i>Sensors and Actuators A: Physical</i> , 2014, 212, 80-86.	2.0	11
128	A new strategy on utilizing nitrogen doped TiO <sub>2</sub> in nanostructured solar cells: Embedded multifunctional N-TiO <sub>2</sub> scattering particles in mesoporous photoanode. <i>Materials Research Bulletin</i> , 2015, 72, 64-69.	2.7	11
129	Nitrogen-doped submicron-size TiO <sub>2</sub> particles as bifunctional light scatterers in dye-sensitized solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 119, 1283-1290.	1.1	11
130	Synthesis and characterization of electrochemically grown CdSe nanowires with enhanced photoconductivity. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 1395-1402.	1.1	11
131	Hierarchical core-shell structure of ZnO nanotube/MnO <sub>2</sub> nanosheet arrays on a 3D graphene network as a high performance biosensing platform. <i>RSC Advances</i> , 2016, 6, 61190-61199.	1.7	11
132	Electrical bending instability in electrospinning viscoelastic solutions. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 1036-1042.	2.4	11
133	Time dependence of the surface plasmon resonance of copper nanorods. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 446007.	0.7	10
134	Real-time measurement of oxidation dynamics of sub-stoichiometric tungsten oxide films by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 92, 627-634.	1.1	10
135	Enhanced inter-plane coupling of Mg doped Cu <sub>0.5</sub> Tl <sub>0.5</sub> Ba <sub>2</sub> Ca <sub>2</sub> xMgxCu <sub>3</sub> O <sub>10</sub> superconductors: XPS and FTIR studies. <i>Physica C: Superconductivity and Its Applications</i> , 2008, 468, 405-410.	0.6	10
136	Optoelectronic properties of cauliflower like ZnO/ZnO nanorod/p-Si heterostructure. <i>Solid-State Electronics</i> , 2013, 80, 33-37.	0.8	10
137	Freestanding light scattering hollow silver spheres prepared by a facile sacrificial templating method and their application in dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2013, 225, 46-50.	4.0	10
138	Influence of cathode roughness on the performance of F8BT based organic-inorganic light emitting diodes. <i>Organic Electronics</i> , 2015, 16, 87-94.	1.4	10
139	Photoluminescence and electrochemical investigation of curcumin-reduced graphene oxide sheets. <i>Journal of the Iranian Chemical Society</i> , 2018, 15, 351-357.	1.2	10
140	Growth of ZnO Nanostructures on Porous Silicon and Oxidized Porous Silicon Substrates. <i>Brazilian Journal of Physics</i> , 2011, 41, 113-117.	0.7	9
141	One-pot thermolysis synthesis of CuInS <sub>2</sub> nanoparticles with chalcopyrite-wurtzite polytypism structure. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 8960-8972.	1.1	9
142	Enhanced Photoresponse and Wavelength Selectivity by SILAR-Coated Quantum Dots on Two-Dimensional WSe <sub>2</sub> Crystals. <i>ACS Omega</i> , 2022, 7, 2091-2098.	1.6	9
143	XPS studies of Cu <sub>1-x</sub> TlxBa <sub>2</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>10-y</sub> superconductor thin films. <i>Physica C: Superconductivity and Its Applications</i> , 2005, 433, 21-27.	0.6	8
144	Itinerant electron transport in microscopically inhomogeneous magnetic fields. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 299, 356-361.	1.0	8

#	ARTICLE	IF	CITATIONS
145	Palladium Plating on Macroporous/Microporous Silicon: Application as a Hydrogen Sensor. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2007, 37, 377-380.	0.6	8
146	Effect of growth conditions on zinc oxide nanowire array synthesized on Si (100) without catalyst. <i>Materials Science in Semiconductor Processing</i> , 2013, 16, 171-178.	1.9	8
147	Flexible strain sensors based on electrostatically actuated graphene flakes. <i>Journal of Micromechanics and Microengineering</i> , 2015, 25, 075016.	1.5	8
148	A High Performance and Low Cost Ethanol Vapor Sensor Based on a TiS <sub>2</sub> /PVP Composite. <i>ChemistrySelect</i> , 2019, 4, 6662-6666.	0.7	8
149	A new co-solvent assisted CuSCN deposition approach for better coverage and improvement of the energy conversion efficiency of corresponding mixed halides perovskite solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 11576-11587.	1.1	8
150	Cauliflower-Like Ni/MXene-Bridged Fiber-Shaped Electrode for Flexible Microsupercapacitor. <i>Energy &amp; Fuels</i> , 2022, 36, 2140-2148.	2.5	8
151	Facile one-pot synthesis of polytypic (wurtzite chalcopyrite) CuGaS <sub>2</sub> . <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	7
152	Room temperature diffusion of Cu in vanadium pentoxide thin films. <i>Journal Physics D: Applied Physics</i> , 2002, 35, 1176-1182.	1.3	6
153	An optical study of cobalt nanowires dispersed in liquid phase. <i>Optics Communications</i> , 2007, 274, 471-476.	1.0	6
154	Pd <sup>2+</sup> reduction and gasochromic properties of colloidal tungsten oxide nanoparticles synthesized by pulsed laser ablation. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 108, 401-407.	1.1	6
155	Room temperature selective sensing of aligned Ni nanowires using impedance spectroscopy. <i>Materials Research Express</i> , 2020, 7, 025044.	0.8	6
156	Thermal desorption of ultrathin silicon oxide layers on Si(111). <i>Semiconductor Science and Technology</i> , 2000, 15, 160-163.	1.0	5
157	Synthesis of Titania Nanofibers for Photocatalytic Applications. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2007, 37, 457-460.	0.6	5
158	Cu surface segregation in Ni/Cu system. <i>Vacuum</i> , 2009, 84, 469-473.	1.6	5
159	Synthesis and characterization of alumina flakes/polymer composites. <i>Journal of Applied Polymer Science</i> , 2010, 115, 3716-3720.	1.3	5
160	Electromechanical resonator based on electrostatically actuated graphene-doped PVP nanofibers. <i>Nanotechnology</i> , 2013, 24, 135201.	1.3	5
161	Improving the status of Iranian women in physics. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	5
162	Mixed ammonium silver phosphomolybdate salt nanostructures; solid state synthesis, characterization of driving agent role and photocatalytic property. <i>Materials Letters</i> , 2015, 161, 464-467.	1.3	5

#	ARTICLE	IF	CITATIONS
163	Different buckling regimes in direct electrospinning: A comparative approach to rope buckling. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 451-456.	2.4	5
164	Scanning tunneling spectroscopy of porous silicon in presence of methanol. <i>Sensors and Actuators B: Chemical</i> , 2006, 120, 172-176.	4.0	4
165	The Effect of Oxidation of Macroporous Silicon on Carbon Nanotubes Growth by TCVD Method. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2007, 37, 489-492.	0.6	4
166	Surface plasmon resonance of two-segmented Au@Cu nanorods. <i>Nanotechnology</i> , 2008, 19, 415705.	1.3	4
167	H <sub>2</sub> S gasochromic effect of mixed ammonium salts of phosphomolybdate nanoparticles synthesized by microwave assisted technique. <i>Sensors and Actuators B: Chemical</i> , 2016, 237, 715-723.	4.0	4
168	Investigating the different conditions on solution processed MoO <sub>x</sub> thin film in long lifetime fluorescent polymer light emitting diodes. <i>Materials Chemistry and Physics</i> , 2018, 204, 262-268.	2.0	4
169	Design and fabrication of sensitive carbon nanotubes/PMMA film for acetone vapour detection. <i>International Journal of Nanomanufacturing</i> , 2010, 5, 268.	0.3	3
170	STRUCTURAL AND OPTICAL CHARACTERIZATION OF NANOCRYSTALLINE CuAlS <sub>2</sub> CHALCOPYRITE SYNTHESIZED BY POLYOL METHOD IN AUTOCLAVE. <i>International Journal of Modern Physics B</i> , 2012, 26, 1250179.	1.0	3
171	Reproducible electrochemical analysis of nanostructured Cu <sub>2</sub> O using a non-aqueous 3-methoxypropionitrile-based electrolyte. <i>Electrochemistry Communications</i> , 2018, 86, 1-5.	2.3	3
172	Computational investigation of gas detection and selectivity on TiS <sub>3</sub> nanoflakes supported by experimental evidence. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 25458-25466.	1.3	3
173	Catalytic Effect of Copper Oxide on H <sub>2</sub> S Sensing Properties of Nanostructured WO <sub>3</sub> . <i>Sensor Letters</i> , 2013, 11, 2015-2020.	0.4	3
174	Bimetallic Oxide Nanosheets from Nickel@Vanadium Layered Double Hydroxide as an Efficient Cathode for Rechargeable Nickel@Zinc Batteries. <i>Energy &amp; Fuels</i> , 0, , .	2.5	3
175	CdO/PSi/Si photo detector. <i>International Journal of Nanotechnology</i> , 2009, 6, 997.	0.1	2
176	Development of a quartz crystal microbalance biodetector based on cellulose nanofibrils (CNFs) for glycine. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 17451-17460.	1.1	2
177	Structure and composition of the segregated Cu in V <sub>2</sub> O <sub>5</sub> /Cu system. <i>Applied Surface Science</i> , 2006, 253, 2581-2588.	3.1	1
178	Two-Dimensional Clustering of Nanoparticles on the Surface of Cellulose Fibers. <i>Journal of Physical Chemistry C</i> , 2009, 113, 12022-12027.	1.5	1
179	Morphology and hydrogen sensing studies of the electrodeposited nanostructure palladium on porous silicon. <i>International Journal of Nanotechnology</i> , 2009, 6, 892.	0.1	1
180	H <sub>2</sub> S Sensing Properties of Added Copper Oxide in WO <sub>3</sub> . <i>Key Engineering Materials</i> , 2013, 543, 145-149.	0.4	1

#	ARTICLE	IF	CITATIONS
181	Electromechanical resonators based on electrospun ZnO nanofibers. Journal of Micro/Nanolithography, MEMS, and MOEMS, 2014, 13, 043011.	1.0	1
182	High Performance, Low Cost Electromechanical Systems Based on Electrostatically Actuated TiS <sub>2</sub> Belts. ChemistrySelect, 2017, 2, 3739-3743.	0.7	1
183	Communicationâ€”Scanning Kelvin Probe Study of Electrodeposited Nanostructured Cu <sub>2</sub> O/Perovskite Interfaces. ECS Journal of Solid State Science and Technology, 2018, 7, P60-P62.	0.9	1
184	Scanning tunneling spectroscopy of MoS <sub>2</sub> monolayer in presence of ethanol gas. Materials Research Express, 2018, 5, 045022.	0.8	1
185	AC characterization of three-dimensional reduced graphene oxide/molybdenum disulfide nanorose hybrids for ethanol vapor detection. Applied Surface Science, 2020, 520, 146346.	3.1	1
186	Electrical transport properties of thin Ni films subjected to an array of nanomagnets. , 0, , .		0
187	Fabrication of self-organised highly ordered titanium oxide nanotube arrays by anodic oxidation and characterisation. International Journal of Nanomanufacturing, 2010, 5, 297.	0.3	0
188	Iranian female faculties in physics. AIP Conference Proceedings, 2019, , .	0.3	0
189	STUDYING OF POROUS POLY-SILICON IN PRESENCE OF ETHANOL BY SCANNING TUNNELING SPECTROSCOPY. , 2005, , .		0