

Akrajas Ali Umar

List of Publications by Year in descending order

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260
papers

4,220
citations

126708

33
h-index

189595

50
g-index

262
all docs

262
docs citations

262
times ranked

4687
citing authors

#	ARTICLE	IF	CITATIONS
1	Lead-free Cs ₂ BiAgBr ₆ Double Perovskite-Based Humidity Sensor with Superfast Recovery Time. <i>Advanced Functional Materials</i> , 2019, 29, 1902234.	7.8	143
2	Mn-doping-induced photocatalytic activity enhancement of ZnO nanorods prepared on glass substrates. <i>Applied Surface Science</i> , 2018, 439, 285-297.	3.1	131
3	Second order optical effects in Au nanoparticle-deposited ZnO nanocrystallite films. <i>Nanotechnology</i> , 2008, 19, 185709.	1.3	95
4	Formation of Gold Nanoplates on Indium Tin Oxide Surface: Two-Dimensional Crystal Growth from Gold Nanoseed Particles in the Presence of Poly(vinylpyrrolidone). <i>Crystal Growth and Design</i> , 2006, 6, 818-821.	1.4	93
5	Physical, electrochemical and supercapacitive properties of activated carbon pellets from pre-carbonized rubber wood sawdust by CO ₂ activation. <i>Current Applied Physics</i> , 2010, 10, 1071-1075.	1.1	83
6	Microwave-assisted hydrolysis preparation of highly crystalline ZnO nanorod array for room temperature photoluminescence-based CO gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2016, 227, 304-312.	4.0	75
7	Green synthesis of few-layered graphene from aqueous processed graphite exfoliation for graphene thin film preparation. <i>Materials Chemistry and Physics</i> , 2017, 193, 212-219.	2.0	75
8	Nonlinear optical properties of Au nanoparticles on indium-tin oxide substrate. <i>Nanotechnology</i> , 2005, 16, 1687-1692.	1.3	74
9	Direct growth of oriented ZnO nanotubes by self-selective etching at lower temperature for photo-electrochemical (PEC) solar cell application. <i>Journal of Alloys and Compounds</i> , 2015, 618, 153-158.	2.8	74
10	Synthesis of two-dimensional nanowall of Cu-Doped TiO ₂ and its application as photoanode in DSSCs. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 91, 185-189.	1.3	61
11	High figure of merit transparent conducting Sb-doped SnO ₂ thin films prepared via ultrasonic spray pyrolysis. <i>Journal of Alloys and Compounds</i> , 2017, 720, 79-85.	2.8	59
12	Two-Dimensional, Hierarchical Ag-Doped TiO ₂ Nanocatalysts: Effect of the Metal Oxidation State on the Photocatalytic Properties. <i>ACS Omega</i> , 2018, 3, 2579-2587.	1.6	59
13	Enriching the selectivity of metalloporphyrins chemical sensors by means of optical technique. <i>Sensors and Actuators B: Chemical</i> , 2002, 85, 191-196.	4.0	58
14	Growth of platinum nanoparticles on stainless steel 316L current collectors to improve carbon-based supercapacitor performance. <i>Electrochimica Acta</i> , 2011, 56, 10217-10222.	2.6	58
15	Influence of optical band gap and particle size on the catalytic properties of Sm/SnO ₂ -TiO ₂ nanoparticles. <i>Superlattices and Microstructures</i> , 2015, 82, 234-247.	1.4	58
16	A Seed-Mediated Growth Method for Vertical Array of Single-Crystalline CuO Nanowires on Surfaces. <i>Crystal Growth and Design</i> , 2007, 7, 2404-2409.	1.4	57
17	Urea and creatinine detection on nano-laminated gold thin film using Kretschmann-based surface plasmon resonance biosensor. <i>PLoS ONE</i> , 2018, 13, e0201228.	1.1	57
18	Growth of High-Density Gold Nanoparticles on an Indium Tin Oxide Surface Prepared Using a Seed-Mediated Growth Technique. <i>Crystal Growth and Design</i> , 2005, 5, 599-607.	1.4	56

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19	Formation of High-Yield Gold Nanoplates on the Surface: Effective Two-Dimensional Crystal Growth of Nanoseed in the Presence of Poly(vinylpyrrolidone) and Cetyltrimethylammonium Bromide. <i>Crystal Growth and Design</i> , 2009, 9, 2835-2840.	1.4	55
20	Efficient Heterogeneous Catalytic Hydrogenation of Acetone to Isopropanol on Semihollow and Porous Palladium Nanocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9843-9849.	4.0	55
21	High performance cypermethrin pesticide detection using anatase TiO ₂ -carbon paste nanocomposites electrode. <i>Microchemical Journal</i> , 2019, 145, 756-761.	2.3	55
22	ZnO nanocubes with (1 0 1) basal plane photocatalyst prepared via a low-frequency ultrasonic assisted hydrolysis process. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 754-760.	3.8	46
23	Efficient quantum capacitance enhancement in DSSC by gold nanoparticles plasmonic effect. <i>Electrochimica Acta</i> , 2016, 195, 134-142.	2.6	46
24	High-Yield Synthesis of Tetrahedral-Like Gold Nanotripods Using an Aqueous Binary Mixture of Cetyltrimethylammonium Bromide and Hexamethylenetetramine. <i>Crystal Growth and Design</i> , 2009, 9, 1146-1152.	1.4	45
25	Comparison of spherical nanogold particles and nanogold plates for the oxidation of dopamine and ascorbic acid. <i>Journal of Electroanalytical Chemistry</i> , 2009, 631, 58-61.	1.9	43
26	SiO ₂ capped Fe ₃ O ₄ nanostructures as an active heterogeneous catalyst for 4-nitrophenol reduction. <i>Microsystem Technologies</i> , 2017, 23, 5745-5758.	1.2	43
27	Highly sensitive fipronil pesticide detection on ilmenite (FeO.TiO ₂)-carbon paste composite electrode. <i>Surfaces and Interfaces</i> , 2019, 16, 108-113.	1.5	43
28	Highly-reactive AgPt nanofern composed of {001}-faceted nanopyramidal spikes for enhanced heterogeneous photocatalysis application. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17655-17665.	5.2	42
29	Porous Zn-doped TiO ₂ nanowall photoanode: Effect of Zn ²⁺ concentration on the dye-sensitized solar cell performance. <i>Applied Surface Science</i> , 2015, 353, 835-842.	3.1	42
30	Poriferous microtablet of anatase TiO ₂ growth on an ITO surface for high-efficiency dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2014, 122, 174-182.	3.0	40
31	Synthesis and electrochemical performance of graphene-TiO ₂ -carbon paste nanocomposites electrode in phenol detection. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 131, 104-110.	1.9	38
32	Synthesis of Palladium Nanobricks with Atomic-Step Defects. <i>Crystal Growth and Design</i> , 2008, 8, 1808-1811.	1.4	34
33	Formation of Highly Thin, Electron-Transparent Gold Nanoplates from Nanoseeds in Ternary Mixtures of Cetyltrimethylammonium Bromide, Poly(vinyl pyrrolidone), and Poly(ethylene glycol). <i>Crystal Growth and Design</i> , 2010, 10, 3694-3698.	1.4	34
34	Preparation of grass-like TiO ₂ nanostructure thin films: Effect of growth temperature. <i>Applied Surface Science</i> , 2013, 270, 109-114.	3.1	34
35	Ag@ZnO Nanoreactor Grown on FTO Substrate Exhibiting High Heterogeneous Photocatalytic Efficiency. <i>ACS Combinatorial Science</i> , 2014, 16, 314-320.	3.8	34
36	Highly efficient planar perovskite solar cells via acid-assisted surface passivation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22323-22331.	5.2	34

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37	Optical sensing of capsicum aroma using four porphyrins derivatives thin films. <i>Thin Solid Films</i> , 2002, 417, 162-165.	0.8	33
38	Effect of organic dye, the concentration and dipping time of the organic dye N719 on the photovoltaic performance of dye-sensitized ZnO solar cell prepared by ammonia-assisted hydrolysis technique. <i>Electrochimica Acta</i> , 2013, 88, 639-643.	2.6	33
39	(001)-Faceted hexagonal ZnO nanoplate thin film synthesis and the heterogeneous catalytic reduction of 4-nitrophenol characterization. <i>Journal of Alloys and Compounds</i> , 2015, 650, 299-304.	2.8	33
40	Synthesis of white fluorescent pyrrolic nitrogen-doped graphene quantum dots. <i>Optical Materials</i> , 2018, 83, 306-314.	1.7	33
41	A cast seed-mediated growth method for preparing gold nanoparticle-attached indium tin oxide surfaces. <i>Applied Surface Science</i> , 2006, 253, 2196-2202.	3.1	32
42	Attachment of gold nanoparticles onto indium tin oxide surfaces controlled by adding citrate ions in a seed-mediated growth method. <i>Applied Surface Science</i> , 2006, 253, 2933-2940.	3.1	32
43	Detection of Formaldehyde in Water: A Shape-Effect on the Plasmonic Sensing Properties of the Gold Nanoparticles. <i>Sensors</i> , 2012, 12, 10309-10325.	2.1	32
44	Self-Assembly of High Density of Triangular Silver Nanoplate Films Promoted by 3-Aminopropyltrimethoxysilane. <i>Applied Sciences (Switzerland)</i> , 2015, 5, 209-221.	1.3	32
45	Scalable Mesoporous Platinum Diselenide Nanosheet Synthesis in Water. <i>ACS Omega</i> , 2017, 2, 3325-3332.	1.6	32
46	Gold Nanoplates for a Localized Surface Plasmon Resonance-Based Boric Acid Sensor. <i>Sensors</i> , 2017, 17, 947.	2.1	30
47	Advances in porous and high-energy (001)-faceted anatase TiO ₂ nanostructures. <i>Optical Materials</i> , 2018, 75, 390-430.	1.7	30
48	Circularly polarized light-induced electrogyration in the Au nanoparticles on the ITO. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005, 27, 420-426.	1.3	29
49	Control of the plasmon absorption of gold nanoparticles with a two-color excitation. <i>Journal of Applied Physics</i> , 2005, 98, 084304.	1.1	27
50	An original planar multireflection system for sensing using the local surface plasmon resonance of gold nanospheres. <i>Journal of Optics</i> , 2006, 8, 268-271.	1.5	27
51	Modified microwave method for the synthesis of visible light-responsive TiO ₂ /MWCNTs nanocatalysts. <i>Nanoscale Research Letters</i> , 2013, 8, 346.	3.1	27
52	Porous (001)-faceted Zn-doped anatase TiO ₂ nanowalls and their heterogeneous photocatalytic characterization. <i>RSC Advances</i> , 2014, 4, 57054-57063.	1.7	27
53	Fibrous, ultra-small nanorod-constructed platinum nanocubes directly grown on the ITO substrate and their heterogeneous catalysis application. <i>RSC Advances</i> , 2013, 3, 19789.	1.7	26
54	Microwave Assisted Hydrothermal Method for Porous Zinc Oxide Nanostructured-Films. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 2667-2674.	0.9	26

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55	Enhanced Charge Transfer in Atomically Thick 2H-WSe ₂ Nanosheets™ Electron Transport Layers of Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 2000260.	3.1	26
56	Improvement of white organic light emitting diode performances by an annealing process. <i>Thin Solid Films</i> , 2009, 517, 4679-4683.	0.8	25
57	Selective Heterogeneous Catalytic Hydrogenation of Ketone (C=O) to Alcohol (OH) by Magnetite Nanoparticles Following Langmuir-Hinshelwood Kinetic Approach. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6480-6489.	4.0	25
58	Effect of boric acid composition on the properties of ZnO thin film nanotubes and the performance of dye-sensitized solar cell (DSSC). <i>Journal of Alloys and Compounds</i> , 2015, 648, 86-91.	2.8	24
59	Comparative trial of saccharin-added electrolyte for improving the structure of an electrodeposited magnetic FeCoNi thin film. <i>Thin Solid Films</i> , 2017, 642, 51-57.	0.8	24
60	Ultra-thin MoS ₂ nanosheet for electron transport layer of perovskite solar cells. <i>Optical Materials</i> , 2020, 104, 109933.	1.7	24
61	Self-assembled monolayer of copper(II) meso-tetra(4-sulfonatophenyl) porphyrin as an optical gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2004, 101, 231-235.	4.0	23
62	Effective electrodeposition of Co-Ni-Cu alloys nanoparticles in the presence of alkyl polyglucoside surfactant. <i>Applied Surface Science</i> , 2010, 257, 1027-1033.	3.1	23
63	Solvent controlled synthesis of CaO-MgO nanocomposites and their application in the photodegradation of organic pollutants of industrial waste. <i>Russian Journal of Physical Chemistry A</i> , 2014, 88, 836-844.	0.1	23
64	Synthesis of Amorphous Platinum Nanofibers Directly on an ITO Substrate and Its Heterogeneous Catalytic Hydrogenation Characterization. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7776-7785.	4.0	23
65	Enhanced visible light-driven photocatalytic degradation supported by Au-TiO ₂ coral-needle nanoparticles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 398, 112589.	2.0	23
66	Fluorescent and nonlinear optical features of CdTe quantum dots. <i>Journal of Materials Science: Materials in Electronics</i> , 2012, 23, 546-550.	1.1	22
67	Effect of Spin-Coating Cycle on the Properties of TiO ₂ Thin Film and Performance of DSSC. <i>International Journal of Electrochemical Science</i> , 2017, 12, 5529-5538.	0.5	22
68	Tuning the photocatalytic activity of nanocomposite ZnO nanorods by shape-controlling the bimetallic AuAg nanoparticles. <i>Applied Surface Science</i> , 2021, 536, 147847.	3.1	22
69	Photoelectrical Dynamics Uplift in Perovskite Solar Cells by Atoms Thick 2D TiS ₂ Layer Passivation of TiO ₂ Nanograss Electron Transport Layer. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 3051-3061.	4.0	21
70	Effect of surfactant on the physical properties of ZnO nanorods and the performance of ZnO photoelectrochemical cell. <i>Journal of Experimental Nanoscience</i> , 2015, 10, 599-609.	1.3	20
71	Improvement of dye-sensitized solar cell performance by utilizing graphene-coated TiO ₂ films photoanode. <i>Superlattices and Microstructures</i> , 2019, 128, 92-98.	1.4	20
72	Photoinduced absorption of Ag nanoparticles deposited on ITO substrate. <i>Journal of Alloys and Compounds</i> , 2011, 509, S424-S426.	2.8	19

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73	Rapid synthesis of TiO ₂ /MWCNTs nanocatalyst with enhanced photocatalytic activity using modified microwave technique. <i>Materials Science in Semiconductor Processing</i> , 2014, 25, 207-210.	1.9	19
74	Structural and properties transformation in ZnO hexagonal nanorod by ruthenium doping and its effect on DSSCs power conversion efficiency. <i>Superlattices and Microstructures</i> , 2018, 123, 119-128.	1.4	19
75	TiO ₂ –SrTiO ₃ composite photoanode: effect of strontium precursor concentration on the performance of dye-sensitized solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	19
76	Enhanced charge transfer activity in Au nanoparticles decorated ZnO nanorods photoanode. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 111, 44-50.	1.3	19
77	Bimetallic AuAg sharp-branch mesoflowers as catalyst for hydrogenation of acetone. <i>Materials Chemistry and Physics</i> , 2019, 225, 443-450.	2.0	19
78	A simple route to vertical array of quasi-1D ZnO nanofilms on FTO surfaces: 1D-crystal growth of nanoseeds under ammonia-assisted hydrolysis process. <i>Nanoscale Research Letters</i> , 2011, 6, 564.	3.1	18
79	Dye-sensitized solar cell (DSSC) utilizing reduced graphene oxide (RGO) films counter electrode: effect of graphene oxide (GO) content. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 1674-1678.	1.1	18
80	NickelPalladium alloy–reduced graphene oxide as counter electrode for dye-sensitized solar cells. <i>Journal of Molecular Liquids</i> , 2021, 326, 115289.	2.3	18
81	Polymer electrolyte for photoelectrochemical cell and dye-sensitized solar cell: a brief review. <i>Ionics</i> , 2014, 20, 1201-1205.	1.2	16
82	Fibrous AuPt bimetallic nanocatalyst with enhanced catalytic performance. <i>RSC Advances</i> , 2016, 6, 27696-27705.	1.7	16
83	(001) faceted-Ga-TiO ₂ microtablet synthesis and its organic perovskite sensitized solar cells characterization. <i>Journal of Alloys and Compounds</i> , 2016, 674, 470-476.	2.8	16
84	Nanocomposite design of graphene modified TiO ₂ for electrochemical sensing in phenol detection. <i>Korean Journal of Chemical Engineering</i> , 2022, 39, 209-215.	1.2	16
85	The detection of pesticides in water using ZnCdSe quantum dot films. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2011, 2, 025011.	0.7	15
86	Formation of gold-coated multilayer graphene via thermal reduction. <i>Materials Letters</i> , 2013, 106, 200-203.	1.3	15
87	Effect of bismuth telluride concentration on the thermoelectric properties of PEDOT:PSS–glycerol organic films. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 66, 293-298.	1.3	15
88	Porous (001)-faceted anatase TiO ₂ nanorice thin film for efficient dye-sensitized solar cell. <i>EPJ Photovoltaics</i> , 2016, 7, 70501.	0.8	15
89	Hierarchical Bimetallic AgPt Nanoferns as High-Performance Catalysts for Selective Acetone Hydrogenation to Isopropanol. <i>ACS Omega</i> , 2018, 3, 11526-11536.	1.6	15
90	Chalcogenide material as high photoelectrochemical performance Se doped TiO ₂ /Ti electrode: Its application for Rhodamine B degradation. <i>Journal of Physics: Conference Series</i> , 2019, 1242, 012016.	0.3	15

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91	Dependence of optical properties of Mg-doped ZnO nanorods on Al dopant. <i>Surfaces and Interfaces</i> , 2020, 19, 100518.	1.5	15
92	Effect of optical property of surfactant-treated TiO ₂ nanostructure on the performance of TiO ₂ photo-electrochemical cell. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 2005-2010.	1.2	14
93	Effect of growth temperature and time on the ZnO film properties and the performance of dye-sensitized solar cell (DSSC). <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 1217-1221.	1.2	14
94	Comparative study of the properties of TiO ₂ nanoflower and TiO ₂ -ZnO composite nanoflower and their application in dye-sensitized solar cells. <i>Ionics</i> , 2017, 23, 1897-1902.	1.2	14
95	Influence of Ag ion adsorption on the photoactivity of ZnO nanorods for dye-sensitized solar cell application. <i>Materials Express</i> , 2017, 7, 312-318.	0.2	14
96	Dye-sensitized solar cell utilizing silver-reduced graphene oxide film counter electrode: effect of silver content on its performance. <i>Ionics</i> , 2018, 24, 3665-3671.	1.2	14
97	H ⁺ , N ⁺ , and Ar ⁺ ion irradiation induced structure changes of carbon nanostructures. <i>New Carbon Materials</i> , 2013, 28, 81-86.	2.9	13
98	Synthesis of defect-rich, (001) faceted-ZnO nanorod on a FTO substrate as efficient photocatalysts for dehydrogenation of isopropanol to acetone. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 93, 73-78.	1.9	13
99	Perovskite-sensitized solar cells-based Ga ³⁺ -TiO ₂ nanodiatom-like photoanode: the improvement of performance by perovskite crystallinity refinement. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	13
100	Zinc sulphide-coated titanium dioxide films as photoanode for dye-sensitized solar cells: Effect of immersion time on its performance. <i>Superlattices and Microstructures</i> , 2019, 130, 153-159.	1.4	13
101	Effect of annealing treatment on multilayer TiO ₂ films on the performance of dye-sensitized solar cells. <i>Optik</i> , 2020, 218, 164976.	1.4	13
102	Formation of a Multi-Arm Branched Nanorod of ZnO on the Si Surface via a Nanoseed-Induced Polytypic Crystal Growth Using the Hydrothermal Method. <i>Science of Advanced Materials</i> , 2013, 5, 803-809.	0.1	13
103	Determination of methylprednisolone acetate in biological fluids at gold nanoparticles modified ITO electrode. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007, 44, 1147-1153.	1.4	12
104	Visible light photocatalytic activity of TiO ₂ /MWCNTs nanocomposite prepared using modified microwave technique. , 2013, , .		12
105	Laser stimulated electrooptics in the Ag ⁺ -ZnO nanorods. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 61, 23-27.	1.3	12
106	Room temperature photoluminescence properties of ZnO nanorods grown by hydrothermal reaction. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	12
107	Enhancing the interfacial carrier dynamic in perovskite solar cells with an ultra-thin single-crystalline nanograss-like TiO ₂ electron transport layer. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13820-13831.	5.2	12
108	Graphene Growth at Low Temperatures using RF-Plasma Enhanced Chemical Vapour Deposition. <i>Sains Malaysiana</i> , 2017, 46, 1111-1117.	0.3	12

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109	Enhancement of 1536nm emission of Er doped ZnO nanopowder by Ag doping. <i>Optical Materials</i> , 2014, 36, 1295-1298.	1.7	11
110	Hydrothermally grown of well-aligned ZnONRs: dependence of alignment ordering upon precursor concentration. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 6892-6897.	1.1	11
111	Dye-sensitized solar cell utilizing silver doped reduced graphene oxide films counter electrode: Influence of annealing temperature on its performance. <i>Arabian Journal of Chemistry</i> , 2020, 13, 3383-3390.	2.3	11
112	Fabrication of Pt-Pd@ITO grown heterogeneous nanocatalyst as efficient remediator for toxic methyl parathion in aqueous media. <i>Environmental Science and Pollution Research</i> , 2020, 27, 9970-9978.	2.7	11
113	Acoustical circularly polarized gyration in the Au nanoparticles on the ITO. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005, 28, 178-184.	1.3	10
114	Optical gas sensing selectivity property of ruthenium (II)-metalloporphyrins Langmuir-Blodgett films. <i>Current Applied Physics</i> , 2008, 8, 53-56.	1.1	10
115	Fabrication of a nanoparticle TiO ₂ photoelectrochemical cell utilizing a solid polymeric electrolyte of PAN-PC-LiClO ₄ . <i>Ionics</i> , 2010, 16, 639-644.	1.2	10
116	Effect of hexamethylenetetramines (HMT) surfactant concentration on the performance of TiO ₂ nanostructure photoelectrochemical cells. <i>Russian Journal of Electrochemistry</i> , 2014, 50, 974-980.	0.3	10
117	Effect of zinc acetate dihydrate precursor concentration on the properties of TiO ₂ @ZnO core-shell nanograin hetero-structure. <i>Journal of Alloys and Compounds</i> , 2015, 623, 460-465.	2.8	10
118	Synthesis of crystalline perovskite-structured SrTiO ₃ nanoparticles using an alkali hydrothermal process. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2016, 23, 109-115.	2.4	10
119	Influence of ZnO growth temperature on the performance of dye-sensitized solar cell utilizing TiO ₂ -ZnO composite film photoanode. <i>Ionics</i> , 2017, 23, 3533-3544.	1.2	10
120	TiO ₂ -coated ZnS films as photoanode for dye-sensitized solar cell: effect of zinc nitrate hexahydrate concentration on the performance. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	10
121	Circular acoustogyration effect on gold nanoparticles grown on indium tin oxide. <i>Applied Optics</i> , 2005, 44, 6905.	2.1	9
122	Pump-dependent luminescence in the Ag nanoparticles doped by Erbium. <i>Applied Surface Science</i> , 2006, 253, 1626-1630.	3.1	9
123	Fluorescence Gas Sensor Using CdTe Quantum Dots Film to Detect Volatile Organic Compounds. <i>Materials Science Forum</i> , 0, 663-665, 276-279.	0.3	9
124	Characterization of SnO ₂ Nanoparticles Prepared by Two Different Wet Chemistry Methods. <i>Advanced Materials Research</i> , 2011, 364, 322-326.	0.3	9
125	Optical features of the gold nanoparticles deposited on ITO substrates. <i>Optics Communications</i> , 2011, 284, 245-248.	1.0	9
126	A molybdenum dithiolene complex as a potential photosensitizer for photoelectrochemical cells. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 9578-9584.	3.8	9

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127	Solvent Controlled Synthesis of Tin Oxide Nanocatalysts and their Applications in Photodegradation of Environmental Hazardous Materials. <i>Materials Science Forum</i> , 0, 756, 197-204.	0.3	9
128	Effect of molar ratio of zinc nitrate: hexamethylenetetramine on the properties of ZnO thin film nanotubes and nanorods and the performance of dye-sensitized solar cell (DSSC). <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 7955-7966.	1.1	9
129	Effect of ZnO growth time on the performance of dye-sensitized solar cell utilizing TiO ₂ @ZnO core-shell nanograin hetero-structure. <i>Materials Letters</i> , 2015, 160, 388-391.	1.3	9
130	Enhanced thermoelectric properties of bismuth telluride-organic hybrid films via graphene doping. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	9
131	Design and measurement technique of surface-enhanced Raman scattering for detection of bisphenol A. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2017, 8, 025008.	0.7	9
132	Influence of surface microstructure on optical response of ruthenium-porphyrins thin films gas sensor. <i>EPJ Applied Physics</i> , 2005, 29, 215-221.	0.3	8
133	Seed-Mediated Liquid Phase Deposition Method for TiO ₂ Nanostructure Growth on ITO Substrate: Effect of Surfactant. <i>Advanced Materials Research</i> , 2011, 364, 393-397.	0.3	8
134	Gold nanonetwork film on the ITO surface exhibiting one-dimensional optical properties. <i>Nanoscale Research Letters</i> , 2012, 7, 252.	3.1	8
135	Effect of organic dye on the performance of dye-sensitized solar cell utilizing TiO ₂ nanostructure films synthesized via CTAB-assisted liquid phase deposition technique. <i>Russian Journal of Electrochemistry</i> , 2014, 50, 1072-1076.	0.3	8
136	Thermal Annealing Effect on Structural, Morphological, and Sensor Performance of PANI-Ag-Fe Based Electrochemical E. coli Sensor for Environmental Monitoring. <i>Scientific World Journal</i> , The, 2015, 2015, 1-8.	0.8	8
137	Effect of N719 Dye Dipping Temperature on the Performance of Dye-Sensitized Solar Cell. <i>Russian Journal of Electrochemistry</i> , 2018, 54, 755-759.	0.3	8
138	Dressing of Mwcnts with TiO ₂ Nanoparticles Using Modified Microwave Method. <i>Advanced Materials Research</i> , 2011, 364, 228-231.	0.3	7
139	Ethanol sensor based on ZnO nanostructures prepared via microwave oven. , 2013, , .		7
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