Akrajas Ali Umar

List of Publications by Year
in descending order

260	4,220	126708	189595
papers	citations	33 h-index	50 g-index

262	262	262	4687
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanocomposite design of graphene modified TiO2 for electrochemical sensing in phenol detection. Korean Journal of Chemical Engineering, 2022, 39, 209-215.	1.2	16
2	Palladium selenide as cathode for dye-sensitized solar cell: Effect of palladium content. Solid-State Electronics, 2022, 190, 108255.	0.8	5
3	Synthesis of standing ZnO nanosheets and impact of Ag nanoparticles loading on its optical property. Bulletin of Materials Science, 2022, 45, 1.	0.8	1
4	Effect of potassium precursor concentration on the performance of perovskite-sensitized solar cells. Bulletin of Materials Science, 2022, 45, .	0.8	3
5	Photoelectrocatalysis Response with Synthetic Mnâ€“Nâ€“TiO2/Ti Electrode for Removal of Rhodamine B Dye. Surface Engineering and Applied Electrochemistry, 2022, 58, 125-134.	0.3	5
6	Propylene Glycol Directed Synthesis of Silver Nanowires for Transparent Conducting Electrode Application. Journal of Electronic Materials, 2022, 51, 5150-5158.	1.0	1
7	Perovskite-sensitized solar cell utilizing TiO2 nanograss: Effect of dipping time of CH3NH3PbI3 perovskite. Journal of the Indian Chemical Society, 2022, 99, 100562.	1.3	0
8	Crystal growth and catalytic properties of AgPt and AuPt bimetallic nanostructures under surfactant effect. Inorganic Chemistry Communication, 2022, 143, 109737.	1.8	2
9	Tuning the photocatalytic activity of nanocomposite ZnO nanorods by shape-controlling the bimetallic AuAg nanoparticles. Applied Surface Science, 2021, 536, 147847.	3.1	22
10	On the performance of polymer-inorganic perovskite oxide composite light-emitting diodes: The effect of perovskite SrTiO3 additives. Nanomaterials and Nanotechnology, 2021, 11, 184798042098777.	1.2	2
11	NickelPalladium alloyâ€“reduced graphene oxide as counter electrode for dye-sensitized solar cells. Journal of Molecular Liquids, 2021, 326, 115289.	2.3	18
12	Effect of hexamethylenetetramine surfactant in morphology and optical properties of TiO2 nanoparticle for dye-sensitized solar cells. Journal of Physics: Conference Series, 2021, 1899, 012045.	0.3	2
13	Synthesis of Large-Scale Cadmium Oxide Nanowires from an Aqueous Solution. Journal of Electronic Materials, 2021, 50, 5553-5556.	1.0	1
14	Charge transfer uplift in dye-sensitized solar cells using fibrous nanocrystals of platinum-based bimetallic counter electrodes. Surfaces and Interfaces, 2021, 26, 101311.	1.5	6
15	Two-dimensional crystal growth in ZnO nanostructures directed by poly vinylpyrrolidone. Materials Letters, 2021, 304, 130649.	1.3	3
16	Photoelectrical Dynamics Uplift in Perovskite Solar Cells by Atoms Thick 2D TiS₂ Layer Passivation of TiO₂ Nanograss Electron Transport Layer. ACS Applied Materials & Interfaces, 2021, 13, 3051-3061.	4.0	21
17	Comparative study of dye-sensitized solar cell utilizing selenium and palladium cathode. Journal of the Indian Chemical Society, 2021, 99, 100289.	1.3	2
18	Dye-sensitized solar cell utilizing silver doped reduced graphene oxide films counter electrode: Influence of annealing temperature on its performance. Arabian Journal of Chemistry, 2020, 13, 3383-3390.	2.3	11

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19	TiO2 Coated-Asphalt Buton Photocatalyst for High-Performance Motor Vehicles Gas Emission Mitigation. Emission Control Science and Technology, 2020, 6, 28-36.	0.8	7
20	Enhanced Charge Transfer in Atomâ€Thick 2Hâ€“WS₂ Nanosheetsâ€™ Electron Transport Layers of Perovskite Solar Cells. Solar Rrl, 2020, 4, 2000260.	3.1	26
21	Photoelectrical properties of anatase TiO2 with different morphologies under Au plasmonic effect. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	1
22	A two-dimensional crystal growth in anatase titania nanostructures driven by trigonal hydronium ions. RSC Advances, 2020, 10, 16886-16891.	1.7	3
23	Influence of annealing temperature of ZnS-coated TiO2 films on the performance of dye-sensitized solar cells. Optik, 2020, 211, 164644.	1.4	5
24	Dependence of optical properties of Mg-doped ZnO nanorods on Al dopant. Surfaces and Interfaces, 2020, 19, 100518.	1.5	15
25	The influence of MoSe2 coated onto Pt film to DSSC performance with the structure TiO2/Dye/LxMoSe2Pt (0Ââ‰ÂxÂâ‰Â5). Materials Letters, 2020, 275, 128076.	1.3	7
26	Ultra-thin MoS2 nanosheet for electron transport layer of perovskite solar cells. Optical Materials, 2020, 104, 109933.	1.7	24
27	Effect of annealing treatment on multilayer TiO2 films on the performance of dye-sensitized solar cells. Optik, 2020, 218, 164976.	1.4	13
28	Enhancing the interfacial carrier dynamic in perovskite solar cells with an ultra-thin single-crystalline nanograss-like TiO₂ electron transport layer. Journal of Materials Chemistry A, 2020, 8, 13820-13831.	5.2	12
29	Optical, structural and morphological studies of TiO2 thin film synthesized by liquid phase deposition method. AIP Conference Proceedings, 2020, , .	0.3	0
30	Fabrication of Pt-Pd@ITO grown heterogeneous nanocatalyst as efficient remediator for toxic methyl parathion in aqueous media. Environmental Science and Pollution Research, 2020, 27, 9970-9978.	2.7	11
31	Enhanced visible light-driven photocatalytic degradation supported by Au-TiO2 coral-needle nanoparticles. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 398, 112589.	2.0	23
32	Micro-strain effect on electronic properties in graphene induced by silver nanowires. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 123, 114203.	1.3	2
33	Seed-Mediated Synthesis and Photoelectric Properties of Selenium Doped Zinc Oxide Nanorods. Sains Malaysiana, 2020, 49, 3055-3063.	0.3	5
34	Liquid Phase Deposition of TiO2 Films for Electron Transport Layer of Perovskite Solar Cells. Journal of Nano- and Electronic Physics, 2020, 12, 03019-1-03019-5.	0.2	0
35	Chalcogenide material as high photoelectrochemical performance Se doped TiO₂/Ti electrode: Its application for Rhodamine B degradation. Journal of Physics: Conference Series, 2019, 1242, 012016.	0.3	15
36	Fibrous bimetallic silver palladium and ruthenium palladium nanocrystals exhibitÂan exceptionally high active catalytic process in acetone hydrogenation. Materials Today Chemistry, 2019, 14, 100178.	1.7	3

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37	Highly efficient planar perovskite solar cells via acid-assisted surface passivation. Journal of Materials Chemistry A, 2019, 7, 22323-22331.	5.2	34
38	Improvement of dye-sensitized solar cell performance by utilizing graphene-coated TiO2 films photoanode. Superlattices and Microstructures, 2019, 128, 92-98.	1.4	20
39	TiO2â€“SrTiO3 composite photoanode: effect of strontium precursor concentration on the performance of dye-sensitized solar cells. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	19
40	Highly sensitive fipronil pesticide detection on ilmenite (FeO.TiO2)-carbon paste composite electrode. Surfaces and Interfaces, 2019, 16, 108-113.	1.5	43
41	Facile charge transfer in fibrous PdPt bimetallic nanocube counter electrodes. New Journal of Chemistry, 2019, 43, 11148-11156.	1.4	5
42	Effect of Silver Concentration towards Formationof AgPt Nanofernfilms as SERS Substrates. Materials Science Forum, 2019, 948, 231-236.	0.3	2
43	Zinc sulphide-coated titanium dioxide films as photoanode for dye-sensitized solar cells: Effect of immersion time on its performance. Superlattices and Microstructures, 2019, 130, 153-159.	1.4	13
44	Enhanced charge transfer activity in Au nanoparticles decorated ZnO nanorods photoanode. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 111, 44-50.	1.3	19
45	Synthesis and electrochemical performance of graphene-TiO2-carbon paste nanocomposites electrode in phenol detection. Journal of Physics and Chemistry of Solids, 2019, 131, 104-110.	1.9	38
46	Humidity effect on photoelectrical properties of photosensitive field effect transistors. Organic Electronics, 2019, 69, 42-47.	1.4	1
47	Leadâ€Free Cs₂BiAgBr₆ Double Perovskiteâ€Based Humidity Sensor with Superfast Recovery Time. Advanced Functional Materials, 2019, 29, 1902234.	7.8	143
48	Dye-sensitized solar cell utilizing TiO2â€“sulphur composite photoanode: influence of sulphur precursor content. SN Applied Sciences, 2019, 1, 1.	1.5	4
49	Thermal impact on (001) faceted anatase TiO2 microtablets and nanowalls's lattices and its effect on the photon to current conversion efficiency. Journal of Physics and Chemistry of Solids, 2019, 127, 213-223.	1.9	4
50	Bimetallic AuAg sharp-branch mesoflowers as catalyst for hydrogenation of acetone. Materials Chemistry and Physics, 2019, 225, 443-450.	2.0	19
51	High performance cypermethrin pesticide detection using anatase TiO2-carbon paste nanocomposites electrode. Microchemical Journal, 2019, 145, 756-761.	2.3	55
52	Reka Bentuk Sensor Pendar Cahaya Bintik Kuantum ZnCdSe untuk Mengesan Racun Perosak. Sains Malaysiana, 2019, 48, 1513-1518.	0.3	2
53	Two-Dimensional, Hierarchical Ag-Doped TiO₂ Nanocatalysts: Effect of the Metal Oxidation State on the Photocatalytic Properties. ACS Omega, 2018, 3, 2579-2587.	1.6	59
54	Perovskite-sensitized solar cells-based Gaâ€“TiO2 nanodiatom-like photoanode: the improvement of performance by perovskite crystallinity refinement. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	13

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55	Effect of hexamethylenetetramine (HMT) concentration on the properties of boron doped ZnO nanotubes array films and the performance of dye-sensitized solar cell (DSSC). AIP Conference Proceedings, 2018, , .	0.3	2
56	Hydrothermally grown of well-aligned ZnONRs: dependence of alignment ordering upon precursor concentration. Journal of Materials Science: Materials in Electronics, 2018, 29, 6892-6897.	1.1	11
57	Mn-doping-induced photocatalytic activity enhancement of ZnO nanorods prepared on glass substrates. Applied Surface Science, 2018, 439, 285-297.	3.1	131
58	Dye-sensitized solar cell utilizing silver-reduced graphene oxide film counter electrode: effect of silver content on its performance. Ionics, 2018, 24, 3665-3671.	1.2	14
59	Dye-Sensitized Solar Cell Utilizing TiO2 Nanostructure Films: Effect of Synthesis Temperature. Russian Journal of Electrochemistry, 2018, 54, 56-61.	0.3	6
60	Advances in porous and high-energy (001)-faceted anatase TiO2 nanostructures. Optical Materials, 2018, 75, 390-430.	1.7	30
61	Geant4 Step towards the Durability and Smooth Response of Silicon Based Neutron Dosimeter, and Protection from Thermal Neutrons. , 2018, , .		0
62	Effect of N719 Dye Dipping Temperature on the Performance of Dye-Sensitized Solar Cell. Russian Journal of Electrochemistry, 2018, 54, 755-759.	0.3	8
63	Effect of Annealing Temperature of Gold Doped Reduced Graphene Oxide Counter Electrode on the Performance of Dye-sensitized Solar Cell. International Journal of Electrochemical Science, 2018, 13, 5620-5629.	0.5	3
64	Optimum growth time in AgPt nanofern preparation for enhancement of surface-enhanced Raman scattering intensity. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2018, 9, 045012.	0.7	1
65	Hierarchical Bimetallic AgPt Nanoferns as High-Performance Catalysts for Selective Acetone Hydrogenation to Isopropanol. ACS Omega, 2018, 3, 11526-11536.	1.6	15
66	Structural and properties transformation in ZnO hexagonal nanorod by ruthenium doping and its effect on DSSCs power conversion efficiency. Superlattices and Microstructures, 2018, 123, 119-128.	1.4	19
67	TiO2-coated ZnS films as photoanode for dye-sensitized solar cell: effect of zinc nitrate hexahydrate concentration on the performance. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	10
68	Effect of surface density silver nanoplate films toward surface-enhanced Raman scattering enhancement for bisphenol A detection. Journal of Physics: Conference Series, 2018, 985, 012026.	0.3	0
69	Synthesis of white fluorescent pyrrolic nitrogen-doped graphene quantum dots. Optical Materials, 2018, 83, 306-314.	1.7	33
70	Dyeâ€sensitised solar cell utilising gold doped reduced graphene oxide counter electrode: influence of annealing time. Micro and Nano Letters, 2018, 13, 1224-1226.	0.6	2
71	Urea and creatinine detection on nano-laminated gold thin film using Kretschmann-based surface plasmon resonance biosensor. PLoS ONE, 2018, 13, e0201228.	1.1	57
72	Dye-sensitized Solar Cell utilizing Gold Doped Reduced Graphene Oxide Films Counter Electrode. Journal of New Materials for Electrochemical Systems, 2018, 21, 113-117.	0.3	7

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73	Comparative study of the properties of TiO2 nanoflower and TiO2-ZnO composite nanoflower and their application in dye-sensitized solar cells. Ionics, 2017, 23, 1897-1902.	1.2	14
74	Green synthesis of few-layered graphene from aqueous processed graphite exfoliation for graphene thin film preparation. Materials Chemistry and Physics, 2017, 193, 212-219.	2.0	75
75	SiO2 caped Fe3O4 nanostructures as an active heterogeneous catalyst for 4-nitrophenol reduction. Microsystem Technologies, 2017, 23, 5745-5758.	1.2	43
76	Synthesis of two-dimensional nanowall of Cu-Doped TiO 2 and its application as photoanode in DSSCs. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 91, 185-189.	1.3	61
77	Design and measurement technique of surface-enhanced Raman scattering for detection of bisphenol A. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2017, 8, 025008.	0.7	9
78	High figure of merit transparent conducting Sb-doped SnO 2 thin films prepared via ultrasonic spray pyrolysis. Journal of Alloys and Compounds, 2017, 720, 79-85.	2.8	59
79	Comparative trial of saccharin-added electrolyte for improving the structure of an electrodeposited magnetic FeCoNi thin film. Thin Solid Films, 2017, 642, 51-57.	0.8	24
80	Detection of creatinine on triangular silver nanoplates surface using surface-enhanced Raman scattering sensor. International Journal of Biomedical Nanoscience and Nanotechnology, 2017, 3, 335.	0.1	3
81	Scalable Mesoporous Platinum Diselenide Nanosheet Synthesis in Water. ACS Omega, 2017, 2, 3325-3332.	1.6	32
82	Influence of ZnO growth temperature on the performance of dye-sensitized solar cell utilizing TiO2-ZnO composite film photoanode. Ionics, 2017, 23, 3533-3544.	1.2	10
83	Dye-sensitized solar cell (DSSC) utilizing reduced graphene oxide (RGO) films counter electrode: effect of graphene oxide (GO) content. Journal of Materials Science: Materials in Electronics, 2017, 28, 1674-1678.	1.1	18
84	Direct deposition of silver nanoplates on quartz surface by sequence pre-treatment hydroxylation and silanisation. MethodsX, 2017, 4, 486-491.	0.7	5
85	Influence of Ag ion adsorption on the photoactivity of ZnO nanorods for dye-sensitized solar cell application. Materials Express, 2017, 7, 312-318.	0.2	14
86	Gold Nanoplates for a Localized Surface Plasmon Resonance-Based Boric Acid Sensor. Sensors, 2017, 17, 947.	2.1	30
87	Effect of Spin-Coating Cycle on the Properties of TiO2 Thin Film and Performance of DSSC. International Journal of Electrochemical Science, 2017, 12, 5529-5538.	0.5	22
88	Synthesis of silverâ€“platinum nanoferns substrates used in surface-enhanced Raman spectroscopy sensors to detect creatinine. Advances in Natural Sciences: Nanoscience and Nanotechnology, 2017, 8, 025015.	0.7	4
89	TiO2-BaTiO3 Composite Films as Photoanode for Dye Sensitized Solar Cell: Effect of BaTiO3 Content. Journal of New Materials for Electrochemical Systems, 2017, 20, 109-113.	0.3	3
90	Graphene Growth at Low Temperatures using RF-Plasma Enhanced Chemical Vapour Deposition. Sains Malaysiana, 2017, 46, 1111-1117.	0.3	12

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91	Dye-sensitized Solar Cell (DSSC) Utilizing TiO2 Films Prepared via Microwave Irradiation Technique: Effect of TiO2 Growth Time. Journal of New Materials for Electrochemical Systems, 2017, 20, 059-064.	0.3	1
92	Multi-cycle Growth of Boron Doped ZnO Films as Photoanode for Dye-Sensitized Solar Cell (DSSC). International Journal of Electrochemical Science, 2016, 11, 10965-10977.	0.5	4
93	Configurable impedance matching to maximise power extraction for enabling self-powered system based-on photovoltaic cells. Electronic Materials Letters, 2016, 12, 545-550.	1.0	2
94	Room temperature photoluminescence properties of ZnO nanorods grown by hydrothermal reaction. AIP Conference Proceedings, 2016, , .	0.3	12
95	Effect of growth solution concentration on the performance of gallium doped ZnO nanostructures dye sensitized solar cells (DSSCs). AIP Conference Proceedings, 2016, , .	0.3	4
96	Porous (001)-faceted anatase TiO₂nanorice thin film for efficient dye-sensitized solar cell. EPJ Photovoltaics, 2016, 7, 70501.	0.8	15
97	Fibrous AuPt bimetallic nanocatalyst with enhanced catalytic performance. RSC Advances, 2016, 6, 27696-27705.	1.7	16
98	Fibrous platinum nanocubes modified indium tin oxide electrodes for effective electrooxidation of alcohols and sensitive detection of hydrazine. Journal of Electroanalytical Chemistry, 2016, 779, 156-160.	1.9	5
99	Boron doped ZnO films for dye-sensitized solar cell (DSSC): effect of annealing temperature. Journal of Materials Science: Materials in Electronics, 2016, 27, 8394-8401.	1.1	5
100	Composition dependence of photoluminescence properties of poly(9,9-di- n -hexylfluorenyl-2,7-diyl) with perovskite-structured SrTiO 3 nanocomposites. Superlattices and Microstructures, 2016, 93, 153-156.	1.4	3
101	Effect of dimethyl borate composition on the performance of boron doped ZnO dye-sensitized solar cell (DSSC). Journal of Materials Science: Materials in Electronics, 2016, 27, 2228-2234.	1.1	6
102	Synthesis of crystalline perovskite-structured SrTiO3 nanoparticles using an alkali hydrothermal process. International Journal of Minerals, Metallurgy and Materials, 2016, 23, 109-115.	2.4	10
103	Characterization and Fabrication of Nanocomposite Thin Films of PANI Embedded with Ag-Mn Alloy for E. coli Sensor. Materials Today: Proceedings, 2016, 3, 538-544.	0.9	5
104	Efficient quantum capacitance enhancement in DSSC by gold nanoparticles plasmonic effect. Electrochimica Acta, 2016, 195, 134-142.	2.6	46
105	Synthesis of defect-rich, (001) faceted-ZnO nanorod on a FTO substrate as efficient photocatalysts for dehydrogenation of isopropanol to acetone. Journal of Physics and Chemistry of Solids, 2016, 93, 73-78.	1.9	13
106	(001) faceted-Ga-TiO2 microtablet synthesis and its organic perovskite sensitized solar cells characterization. Journal of Alloys and Compounds, 2016, 674, 470-476.	2.8	16
107	Enhanced thermoelectric properties of bismuth telluride–organic hybrid films via graphene doping. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	9
108	Microwave-assisted hydrolysis preparation of highly crystalline ZnO nanorod array for room temperature photoluminescence-based CO gas sensor. Sensors and Actuators B: Chemical, 2016, 227, 304-312.	4.0	75

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109	Electroluminescence Enhancement of Polymer Light Emitting Diodes Through Surface Plasmons by Ag Nanoplates. Acta Physica Polonica A, 2016, 129, 711-713.	0.2	2
110	Self-Assembly of High Density of Triangular Silver Nanoplate Films Promoted by 3-Aminopropyltrimethoxysilane. Applied Sciences (Switzerland), 2015, 5, 209-221.	1.3	32
111	Thermal Annealing Effect on Structural, Morphological, and Sensor Performance of PANI-Ag-Fe Based ElectrochemicalE. coliSensor for Environmental Monitoring. Scientific World Journal, The, 2015, 2015, 1-8.	0.8	8
112	Effect of growth temperature and time on the ZnO film properties and the performance of dye-sensitized solar cell (DSSC). Journal of Solid State Electrochemistry, 2015, 19, 1217-1221.	1.2	14
113	Effect of boric acid composition on the properties of ZnO thin film nanotubes and the performance of dye-sensitized solar cell (DSSC). Journal of Alloys and Compounds, 2015, 648, 86-91.	2.8	24
114	Porous Zn-doped TiO2 nanowall photoanode: Effect of Zn2+ concentration on the dye-sensitized solar cell performance. Applied Surface Science, 2015, 353, 835-842.	3.1	42
115	Influence of optical band gap and particle size on the catalytic properties of Sm/SnO2â€“TiO2 nanoparticles. Superlattices and Microstructures, 2015, 82, 234-247.	1.4	58
116	Synthesis and characterization of TiO2â€“ZnO coreâ€“shell nanograss hetero-structure and its application in dye-sensitized solar cell (DSSC). Journal of Materials Science: Materials in Electronics, 2015, 26, 4936-4943.	1.1	5
117	Synthesis of Amorphous Platinum Nanofibers Directly on an ITO Substrate and Its Heterogeneous Catalytic Hydrogenation Characterization. ACS Applied Materials & Interfaces, 2015, 7, 7776-7785.	4.0	23
118	Morphological, optical, structural and photoelectrochemical properties of TiO2nanoflower prepared via PVP surfactant assisted liquid phase deposition technique. Journal of Experimental Nanoscience, 2015, 10, 925-936.	1.3	4
119	Effect of surfactant on the physical properties of ZnO nanorods and the performance of ZnO photoelectrochemical cell. Journal of Experimental Nanoscience, 2015, 10, 599-609.	1.3	20
120	Selective Heterogeneous Catalytic Hydrogenation of Ketone (Câ•O) to Alcohol (OH) by Magnetite Nanoparticles Following Langmuirâ€“Hinshelwood Kinetic Approach. ACS Applied Materials & Interfaces, 2015, 7, 6480-6489.	4.0	25
121	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). Journal of Materials Science: Materials in Electronics, 2015, 26, 7955-7966.	1.1	9
122	(001)-Faceted hexagonal ZnO nanoplate thin film synthesis and the heterogeneous catalytic reduction of 4-nitrophenol characterization. Journal of Alloys and Compounds, 2015, 650, 299-304.	2.8	33
123	Effect of ZnO growth time on the performance of dye-sensitized solar cell utilizing TiO2â€“ZnO coreâ€“shell nanograss hetero-structure. Materials Letters, 2015, 160, 388-391.	1.3	9
124	Effect of zinc acetate dihydrate precursor concentration on the properties of TiO 2 â€“ZnO coreâ€“shell nanograss hetero-structure. Journal of Alloys and Compounds, 2015, 623, 460-465.	2.8	10
125	Effect of bismuth telluride concentration on the thermoelectric properties of PEDOT:PSSâ€“glycerol organic films. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 66, 293-298.	1.3	15
126	Direct growth of oriented ZnO nanotubes by self-selective etching at lower temperature for photo-electrochemical (PEC) solar cell application. Journal of Alloys and Compounds, 2015, 618, 153-158.	2.8	74

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127	Effect of Growth Solution Concentration on the Performance of Boron Doped ZnO Dye-sensitized Solar Cell (DSSC). Journal of New Materials for Electrochemical Systems, 2015, 18, 213-218.	0.3	3
128	A high sensitive of an optical Raman sensor system to detect bisphenol A. , 2015, , 155-158.		1
129	Photo-polymerization of methacrylate based polymer electrolyte for dye-sensitized solar cell. Journal of Polymer Engineering, 2014, 34, 695-702.	0.6	5
130	Morphology, structure, optical property and photoelectrochemical property of TiO 2 nanoflower films synthesised via liquid phase deposition technique. Micro and Nano Letters, 2014, 9, 253-256.	0.6	3
131	Gold nanoplates as sensing material for plasmonic sensor of formic acid. , 2014, , .		1
132	Effect of organic dye on the performance of dye-sensitized solar cell utilizing TiO2 nanostructure films synthesized via CTAB-assisted liquid phase deposition technique. Russian Journal of Electrochemistry, 2014, 50, 1072-1076.	0.3	8
133	Synthesis of ZnO Nanorod Arrays by Chemical Solution and Microwave Method for Sensor Application. Key Engineering Materials, 2014, 605, 585-588.	0.4	3
134	Fabrication of ZnO Nanorod for Room Temperature NO Gas Sensor. Advanced Materials Research, 2014, 1043, 96-100.	0.3	1
135	Laser stimulated electrooptics in the Agâ€“ZnO nanorods. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 61, 23-27.	1.3	12
136	Rapid synthesis of TiO2/MWCNTs nanocatalyst with enhanced photocatalytic activity using modified microwave technique. Materials Science in Semiconductor Processing, 2014, 25, 207-210.	1.9	19
137	ZnO nanocubes with (1 0 1) basal plane photocatalyst prepared via a low-frequency ultrasonic assisted hydrolysis process. Ultrasonics Sonochemistry, 2014, 21, 754-760.	3.8	46
138	Poriferous microtablet of anatase TiO2 growth on an ITO surface for high-efficiency dye-sensitized solar cells. Solar Energy Materials and Solar Cells, 2014, 122, 174-182.	3.0	40
139	Porous (001)-faceted Zn-doped anatase TiO₂ nanowalls and their heterogeneous photocatalytic characterization. RSC Advances, 2014, 4, 57054-57063.	1.7	27
140	Highly-reactive AgPt nanofern composed of {001}-faceted nanopyramidal spikes for enhanced heterogeneous photocatalysis application. Journal of Materials Chemistry A, 2014, 2, 17655-17665.	5.2	42
141	Polymer electrolyte for photoelectrochemical cell and dye-sensitized solar cell: a brief review. Ionics, 2014, 20, 1201-1205.	1.2	16
142	Solvent controlled synthesis of CaO-MgO nanocomposites and their application in the photodegradation of organic pollutants of industrial waste. Russian Journal of Physical Chemistry A, 2014, 88, 836-844.	0.1	23
143	Effect of hexamethylenetetramines (HMT) surfactant concentration on the performance of TiO2 nanostructure photoelectrochemical cells. Russian Journal of Electrochemistry, 2014, 50, 974-980.	0.3	10
144	Enhancement of 1536nm emission of Er doped ZnO nanopowder by Ag doping. Optical Materials, 2014, 36, 1295-1298.	1.7	11

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145	Agâ€“ZnO Nanoreactor Grown on FTO Substrate Exhibiting High Heterogeneous Photocatalytic Efficiency. ACS Combinatorial Science, 2014, 16, 314-320.	3.8	34
146	Effect of Dye on the Performance of Nitrogen Doped TiO2 Solar Cell Prepared via Ammonia Treated Liquid Phase Deposition Technique. Journal of New Materials for Electrochemical Systems, 2014, 17, 033-037.	0.3	7
147	Formation of gold-coated multilayer graphene via thermal reduction. Materials Letters, 2013, 106, 200-203.	1.3	15
148	Modified microwave method for the synthesis of visible light-responsive TiO2/MWCNTs nanocatalysts. Nanoscale Research Letters, 2013, 8, 346.	3.1	27
149	Efficient Heterogeneous Catalytic Hydrogenation of Acetone to Isopropanol on Semihollow and Porous Palladium Nanocatalyst. ACS Applied Materials & Interfaces, 2013, 5, 9843-9849.	4.0	55
150	Preparation and Characterization of TiO₂Nanowire - Cu₂O Nanocube Composite Thin Film. Materials Science Forum, 2013, 756, 37-42.	0.3	1
151	Fibrous, ultra-small nanorod-constructed platinum nanocubes directly grown on the ITO substrate and their heterogeneous catalysis application. RSC Advances, 2013, 3, 19789.	1.7	26
152	Preparation of grass-like TiO2 nanostructure thin films: Effect of growth temperature. Applied Surface Science, 2013, 270, 109-114.	3.1	34
153	A molybdenum dithiolene complex as a potential photosensitiser for photoelectrochemical cells. International Journal of Hydrogen Energy, 2013, 38, 9578-9584.	3.8	9
154	H+, N+, and Ar+ ion irradiation induced structure changes of carbon nanostructures. New Carbon Materials, 2013, 28, 81-86.	2.9	13
155	Ultrafast Formation of ZnO Nanorods via Seed-Mediated Microwave Assisted Hydrolysis Process. Journal of Physics: Conference Series, 2013, 431, 012001.	0.3	6
156	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. Electrochimica Acta, 2013, 88, 639-643.	2.6	33
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