## Ahmed Alsadig

List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	High sensitivity and fast response and recovery times in a ZnO nanorod array/ <i>p</i> -Si self-powered ultraviolet detector. Applied Physics Letters, 2012, 101, .	3.3	90
2	High Sensitivity pH Sensor Based on Porous Silicon (PSi) Extended Gate Field-Effect Transistor. Sensors, 2016, 16, 839.	3.8	68
3	Fabrication of low cost UV photo detector using ZnO nanorods grown onto nylon substrate. Journal of Materials Science: Materials in Electronics, 2015, 26, 1322-1331.	2.2	57
4	High performance CuS p-type thin film as a hydrogen gas sensor. Sensors and Actuators A: Physical, 2016, 249, 68-76.	4.1	50
5	Growth of vertically aligned ZnO nanorods on Teflon as a novel substrate for low-power flexible light sensors. Applied Physics A: Materials Science and Processing, 2015, 119, 1197-1201.	2.3	45
6	Fabrication of a highly flexible low-cost H2 gas sensor using ZnO nanorods grown on an ultra-thin nylon substrate. Journal of Materials Science: Materials in Electronics, 2016, 27, 9461-9469.	2.2	38
7	Influence of CuS membrane annealing time on the sensitivity of EGFET pH sensor. Materials Science in Semiconductor Processing, 2017, 71, 217-225.	4.0	30
8	Numerical Modeling of High Conversion Efficiency FTO/ZnO/CdS/CZTS/MO Thin Film-Based Solar Cells: Using SCAPS-1D Software. Crystals, 2021, 11, 1468.	2.2	29
9	Influences of substrate type on the pH sensitivity of CuS thin films EGFET prepared by spray pyrolysis deposition. Materials Science in Semiconductor Processing, 2017, 63, 269-278.	4.0	28
10	Areca catechu extracted natural new sensitizer for dye-sensitized solar cell: performance evaluation. Journal of Materials Science: Materials in Electronics, 2020, 31, 3564-3575.	2.2	28
11	A Study on the UV Photoresponse of Hydrothermally Grown Zinc Oxide Nanorods With Different Aspect Ratios. IEEE Sensors Journal, 2015, 15, 6811-6818.	4.7	26
12	High-performance p–n heterojunction photodetectors based on V2O5 nanorods by spray pyrolysis. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	26
13	Effect of Annealing Time of YAC:Ce3+ Phosphor on White Light Chromaticity Values. Journal of Electronic Materials, 2018, 47, 1638-1646.	2.2	24
14	Control of Phase, Structural and Optical Properties of Tin Sulfide Nanostructured Thin Films Grown via Chemical Bath Deposition. Journal of Electronic Materials, 2017, 46, 4227-4235.	2.2	23
15	Numerical Modelling Analysis for Carrier Concentration Level Optimization of CdTe Heterojunction Thin Film–Based Solar Cell with Different Non–Toxic Metal Chalcogenide Buffer Layers Replacements: Using SCAPS–1D Software. Crystals, 2021, 11, 1454.	2.2	23
16	Impact of ablation time on Cu oxide nanoparticle green synthesis via pulsed laser ablation in liquid media. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	21
17	A novel porous silicon multi-ions selective electrode based extended gate field effect transistor for sodium, potassium, calcium, and magnesium sensor. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	21
18	Erythrocyte sedimentation rate of human blood exposed to low-level laser. Lasers in Medical Science, 2016, 31, 1195-1201.	2.1	19

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19	Plasmonic Biosensors for the Detection of Lung Cancer Biomarkers: A Review. Chemosensors, 2021, 9, 326.	3.6	19
20	Sensitivity of CuS and CuS/ITO EGFETs implemented as pH sensors. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	18
21	Responsivity Dependent Anodization Current Density of Nanoporous Silicon Based MSM Photodetector. Journal of Nanomaterials, 2016, 2016, 1-8.	2.7	16
22	Multilayer ZnO/Pd/ZnO Structure as Sensing Membrane for Extended-Gate Field-Effect Transistor (EGFET) with High pH Sensitivity. Journal of Electronic Materials, 2017, 46, 5901-5908.	2.2	16
23	Electrochemical Hydrogen Peroxide Sensor Based on Macroporous Silicon. Sensors, 2018, 18, 716.	3.8	16
24	Fabrication, characterization of ZnO nanorods on the flexible substrate (Kapton tape) via chemical bath deposition for UV photodetector applications. AIP Conference Proceedings, 2017, , .	0.4	15
25	A high-sensitivity hydrogen gas sensor based on carbon nanotubes fabricated on SiO <sub>2</sub> substrate. Nanocomposites, 2021, 7, 172-183.	4.2	15
26	Sensitivity of CuS Membrane pH Sensor With and Without MOSFET. Jom, 2017, 69, 1134-1142.	1.9	13
27	Catalytic growth of one-dimensional single-crystalline ZnO nanostructures on glass substrate by vapor transport. Ceramics International, 2017, 43, 610-616.	4.8	12
28	Effect of Addition of Polyaniline on Polyethylene Oxide and Polyvinyl Alcohol for the Fabrication of Nanorods. ACS Omega, 2020, 5, 22389-22394.	3.5	11
29	UV sensing of twinned ZnO–PANI composite. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	10
30	Effects of low-level laser irradiation on human blood lymphocytes in vitro. Lasers in Medical Science, 2017, 32, 405-411.	2.1	9
31	Tin Sulfide Flower-Like Structure as High-Performance Near-Infrared Photodetector. Journal of Electronic Materials, 2020, 49, 5824-5830.	2.2	9
32	Laser-induced changes of in vitro erythrocyte sedimentation rate. Lasers in Medical Science, 2017, 32, 2089-2095.	2.1	8
33	Hydrothermal and solvothermal synthesis of nanorods and 3D (micro/nano) V2O5 on macro PSi substrate for pH-EGFET sensors. Journal of Materials Science: Materials in Electronics, 2019, 30, 11193-11207.	2.2	8
34	Effect of nano-silica slurry on engineering, X-ray, and γ-ray attenuation characteristics of steel slag high-strength heavyweight concrete. Nanotechnology Reviews, 2020, 9, 1245-1264.	5.8	8
35	A comparative study of InN growth on quartz, silicon, C-sapphire and bulk GaN substrates by RF magnetron sputtering. Journal of Materials Science: Materials in Electronics, 2017, 28, 9228-9236. 	2.2	7
36	Effects of Concentration and Substrate Type on Structure and Conductivity of p-Type CuS Thin Films Grown by Spray Pyrolysis Deposition. Journal of Electronic Materials, 2017, 46, 218-225.	2.2	7

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37	Catalytic Growth of 1D ZnO Nanoneedles on Glass Substrates Through Vapor Transport. Journal of Electronic Materials, 2019, 48, 1660-1668.	2.2	7
38	Acetone Vapor-Sensing Properties of Chitosan-Polyethylene Glycol Using Surface Plasmon Resonance Technique. Polymers, 2020, 12, 2586.	4.5	7
39	Controllable fabrication of highly ordered thin AAO template on Si substrate for electrodeposition of nanostructures. Applied Physics A: Materials Science and Processing, 2014, 116, 1389-1393.	2.3	6
40	One-Step Synthesis of Stable Colloidal Gold Nanoparticles Through Bioconjugation with Bovine Serum Albumin in Harsh Environments. Journal of Cluster Science, 2017, 28, 3193-3207.	3.3	6
41	Low power consumption UV sensor based on n-ZnO/p-Si junctions. Journal of Materials Science: Materials in Electronics, 2019, 30, 19639-19646.	2.2	6
42	Mesoporous TiO2 Implanted ZnO QDs for the Photodegradation of Tetracycline: Material Design, Structural Characterization and Photodegradation Mechanism. Catalysts, 2021, 11, 1205.	3.5	6
43	Amperometric room temperature hydrogen gas sensor based on the conjugated polymers of polypyrrole–polyethylene oxide nanofibers synthesised via electrospinning. Journal of Materials Science: Materials in Electronics, 2022, 33, 7068-7078.	2.2	6
44	pH sensor based on AuNPs/ ITO membrane as extended gate field-effect transistor. Applied Physics B: Lasers and Optics, 2022, 128, 1.	2.2	6
45	Influence of the spray distance to substrate on optical properties of chemically sprayed ZnS thin films. Journal of Materials Science: Materials in Electronics, 2017, 28, 371-375.	2.2	5
46	Application of Bpw34 photodiode and cold white LED as diagnostic X-ray detectors: A comparative analysis. Applied Radiation and Isotopes, 2021, 170, 109622.	1.5	5
47	The effect of deposition angle on morphology and diameter of electrospun TiO <sub>2</sub> /PVP nanofibers. Nanocomposites, 2021, 7, 70-78.	4.2	5
48	Porous silicon based violet-UV detector. , 2012, , .		4
49	The Effect of the Annealing on the Properties of ZnO/Cu/ZnO Multilayer Structures. Procedia Chemistry, 2016, 19, 38-44.	0.7	4
50	Catalyst-free growth of ZnO nanowires on ITO seed/glass by thermal evaporation method: Effects of ITO seed layer thickness. AIP Conference Proceedings, 2016, , .	0.4	4
51	Effects of low power violet laser irradiation on red blood cells volume and erythrocyte sedimentation rate in human blood. AIP Conference Proceedings, 2017, , .	0.4	4
52	Structural, Electrical and Optical Properties of Sputtered-Grown InN Films on ZnO Buffered Silicon, Bulk GaN, Quartz and Sapphire Substrates. Journal of Electronic Materials, 2018, 47, 4875-4881.	2.2	4
53	Photovoltaic Performance of Spherical TiO2 Nanoparticles Derived from Titanium Hydroxide Ti(OH)4: Role of Annealing Varying Temperature. Energies, 2022, 15, 1648.	3.1	4
54	lonization Radiation Shielding Effectiveness of Lead Acetate, Lead Nitrate, and Bismuth Nitrate-Doped Zinc Oxide Nanorods Thin Films: A Comparative Evaluation. Materials, 2022, 15, 3.	2.9	4

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55	EBT3 Films in Low Solar Ultraviolet and X-Ray Dose Measurement: A Comparative Analysis. Dose-Response, 2019, 17, 155932581985553.	1.6	3
56	Optimization of Precursor Concentration for the Fabrication of V2O5 Nanorods and their MSM Photodetector on Silicon Substrate. Journal of Electronic Materials, 2019, 48, 5640-5649.	2.2	3
57	AAO-Assisted Synthesis of Aligned CuO Nanorod Arrays by Electrochemical Deposition for Self-powered NIR Photodetection. Journal of Electronic Materials, 2019, 48, 7465-7473.	2.2	3
58	IMPROVEMENT IN STRUCTURAL, OPTICAL AND ELECTRICAL PROPERTIES OF ITO FILM THROUGH AIN AND HfO <sub>2</sub> BUFFER LAYERS. Surface Review and Letters, 2021, 28, .	1.1	3
59	Online electrophoretic nanoanalysis using miniaturized gel electrophoresis and thermal lens microscopy detection. Journal of Chromatography A, 2021, 1657, 462596.	3.7	3
60	Effect of thermal annealing on GaN pn-junction diode with Pt/Ag as ohmic contact. Composite Interfaces, 2014, 21, 371-380.	2.3	2
61	Simulation of optimum parameters for GaN MSM UV photodetector. AIP Conference Proceedings, 2016,	0.4	2
62	Enhancement of Temperature Fluorescence Brightness of Zn@Si Core-Shell Quantum Dots Produced via a Unified Strategy. Nanomaterials, 2021, 11, 3158.	4.1	2
63	Improvement of Porous GaN-Based UV Photodetector with Graphene Cladding. Applied Sciences (Switzerland), 2021, 11, 10833.	2.5	2
64	Label-Free, Rapid and Facile Gold-Nanoparticles-Based Assay as a Potential Spectroscopic Tool for Trastuzumab Quantification. Nanomaterials, 2021, 11, 3181.	4.1	2
65	Formation of titanium dioxide/poly(vinylpyrrolidone) nanostructure composite by changing the flow rate of polymer solution during electrospinning. Bulletin of Materials Science, 2022, 45, .	1.7	2
66	High sensitive UV photodetector based on ZnS/PS thin film prepared via spray pyrolysis method. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 5303-5313.	2.3	2
67	Hydrothermal growth and characterization of vertically well-aligned and dense ZnO nanorods on glass and silicon using a simple optimizer system. AIP Conference Proceedings, 2016, , .	0.4	1
68	Experimental investigation of unique color-changing property of multicolored sparkling of microbubbles formed due to femtosecond laser–water interaction. Modern Physics Letters B, 2019, 33, 1950208.	1.9	1
69	Enhanced white light luminescence of Ce3+ - activated Y3Al5O12 phosphors powder synthesized via continuous wave (CW) CO2 laser-assisted combustion. , 2019, , .		1
70	Comparative Studies between Porous Silicon and Porous P-Type Gallium Nitride Prepared Using Alternating Current Photo-Assisted Electrochemical Etching Technique. Journal of Physics: Conference Series, 2020, 1535, 012044.	0.4	1
71	Innovative Approaches to Synthesize Novel Graphene Materials. Current Nanoscience, 2021, 17, .	1.2	1
72	Effect of sulphuric acid (H2SO4) on the growth process of two-dimensional zinc oxide (ZnO) structures prepared by chemical bath deposition. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	1

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73	Extended Gate Field Effect Transistor-Based N-Type Gallium Nitride as a pH Sensor. Journal of Electronic Materials, 2021, 50, 7071-7077.	2.2	1
74	Investigation of X-ray Radiation Detectability Using Fabricated ZnO-PB Based Extended Gate Field-Effect Transistor as X-ray Dosimeters. Applied Sciences (Switzerland), 2021, 11, 11258.	2.5	1
75	Synthesis of Architectural-Cubic Porous Silicon by Electroless Stain Etching in V2O5 and HF Solution. Silicon, 2020, 12, 1761-1768.	3.3	0
76	Growth evolution and customized attributes of catalyst-free ZnO nanowires: role of varied Ar/O2 flow rate. Journal of Materials Science: Materials in Electronics, 2020, 31, 17422-17431.	2.2	0
77	Structural and optical properties of ZnO nanoflakes/Al/glass via laser-assisted chemical bath deposition (LACBD) technique. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	0