

# Mohd Zainizan Sahdan

## List of Publications by Year in descending order

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58  
papers

703  
citations

1040056

9  
h-index

677142

22  
g-index

58  
all docs

58  
docs citations

58  
times ranked

1318  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Defect chemistry and defect engineering of TiO <sub>2</sub> -based semiconductors for solar energy conversion. Chemical Society Reviews, 2015, 44, 8424-8442.  | 38.1 | 276       |
| 2  | Zinc oxide films prepared by sol-gel spin coating technique. Applied Physics A: Materials Science and Processing, 2011, 104, 263-268.  | 2.3  | 121       |
| 3  | Influence of various sol concentrations on stress/strain and properties of ZnO thin films synthesised by sol-gel technique. Thin Solid Films, 2013, 527, 102-109.  | 1.8  | 64        |
| 4  | Al and Ga doped ZnO films prepared by a sol-gel spin coating technique. Ceramics International, 2015, 41, S254-S258.   | 4.8  | 43        |
| 5  | Towards high performance perovskite solar cells: A review of morphological control and HTM development. Applied Materials Today, 2018, 13, 69-82.  | 4.3  | 43        |
| 6  | Gold Nanoplates for a Localized Surface Plasmon Resonance-Based Boric Acid Sensor. Sensors, 2017, 17, 947.   | 3.8  | 30        |
| 7  | Difference in structural and chemical properties of sol-gel spin coated Al doped TiO <sub>2</sub> , Y doped TiO <sub>2</sub> and Gd doped TiO <sub>2</sub> based on trivalent dopants. RSC Advances, 2018, 8, 29686-29697. | 3.6  | 28        |
| 8  | ZnO Microstructures and Nanostructures Prepared by Sol-Gel Hydrothermal Technique. Journal of Nanoscience and Nanotechnology, 2010, 10, 5618-5622.   | 0.9  | 12        |
| 9  | Zinc oxide microrods prepared by sol-gel immerse technique. Microelectronics International, 2010, 27, 166-169.   | 0.6  | 11        |
| 10 | Zinc Oxide Nanorods Characteristics Prepared by Sol-Gel Immersion Method Immersed at Different Times. Advanced Materials Research, 2013, 667, 375-379.   | 0.3  | 10        |
| 11 | The Effect of Stabiliser's Molarity to the Growth of ZnO Nanorods. Defect and Diffusion Forum, 0, 312-315, 99-103.   | 0.4  | 6         |
| 12 | Influence of outlet channel width to the flow velocity and pressure of a flow focusing microfluidic device. IOP Conference Series: Materials Science and Engineering, 2016, 160, 012086.                                   | 0.6  | 5         |
| 13 | Surface Tension Analysis of Cost-Effective Paraffin Wax and Water Flow Simulation for Microfluidic Device. Advanced Materials Research, 0, 832, 773-777.   | 0.3  | 4         |
| 14 | Transmission of Microwave Signal through Metal-Oxide Thin Film of Energy Saving Glass Using Different Shape of Frequency Selective Structure. Advanced Materials Research, 0, 925, 630-634.                                | 0.3  | 4         |
| 15 | Influence of Post-Annealing Temperature on the Material Properties of Zinc Oxide Nanorods. Journal of Nanoscience and Nanotechnology, 2010, 10, 6419-6423.   | 0.9  | 3         |
| 16 | Effect of precursor concentration on the structural and optical properties of ZnO nanostructures. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 1596-1599.                                      | 1.8  | 3         |
| 17 | Aligned Growth of Zinc Oxide Nanorods on Catalyst-Seeded Si Substrate by Aqueous-Solution Immersion Method. Defect and Diffusion Forum, 2011, 312-315, 104-109.  | 0.4  | 3         |
| 18 | Factors Affecting the Properties of Zinc Oxide Thin Films Prepared by Dip-Coating Method: A Review. Advanced Materials Research, 0, 667, 193-199.  | 0.3  | 3         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Green and Economic Transparent Conductive Graphene Electrode for Organic Solar Cell: A Short Review. Advanced Materials Research, 0, 832, 316-321.  | 0.3 | 3         |
| 20 | Investigation on the Structural Changes of Cupric Oxide (CuO) Nanostructures by Thermal Oxidation Process. Advanced Materials Research, 2013, 832, 471-477.                                   | 0.3 | 3         |
| 21 | Surface study of stainless steel electrode deposition from soil electrokinetic (EK) treatment using X-ray photoelectron spectroscopy (XPS). AIP Conference Proceedings, 2015, , .             | 0.4 | 3         |
| 22 | Morphology, topography and thickness of copper oxide thin films deposited using magnetron sputtering technique. , 2013, , .   |     | 2         |
| 23 | Surface Morphology and Optical Properties of ZnO Films Synthesis Using Different Solvent. Advanced Materials Research, 0, 832, 478-482.   | 0.3 | 2         |
| 24 | Development of atmospheric pressure plasma needle jet for sterilization applications. AIP Conference Proceedings, 2017, , .   | 0.4 | 2         |
| 25 | Groundwater Exploration in Granitic Rock Formation Using Electrical Resistivity and Induced Polarization Techniques. Journal of Physics: Conference Series, 2018, 1049, 012076.               | 0.4 | 2         |
| 26 | Plasma diagnostic by optical emission spectroscopy on reactive magnetron sputtering plasma –A Brief Introduction. Journal of Physics: Conference Series, 2018, 1027, 012005.                  | 0.4 | 2         |
| 27 | A hardware based approach in designing infrared traffic light system. , 2008, , .   |     | 1         |
| 28 | Effect of Immerse Duration on the Structural and Optical Properties of Zinc Oxide Nanorod. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2010, 40, 333-336. | 0.6 | 1         |
| 29 | Microfabrication of ZnO structures using sol-gel immerse technique. , 2010, , .   |     | 1         |
| 30 | Influence of immerse time on the properties of zinc oxide nanostructures. , 2010, , .   |     | 1         |
| 31 | Sol-Gel Fabrications of ZnO Thin Films and Microstructures. , 2011, , .   |     | 1         |
| 32 | Nanostructured Zinc Oxide Thin Film Based Humidity Sensor Prepared by Sol-Gel Immersion Technique. Advanced Materials Research, 2013, 667, 553-557.   | 0.3 | 1         |
| 33 | Optimization of Transmission Lost for Energy Saving Glass with Different Sheet Resistance Values. Advanced Materials Research, 0, 832, 233-236.   | 0.3 | 1         |
| 34 | Influences of Preheating Temperature on the Structural and Optical Properties of ZnO Thin Films by So-Gel Spin Coating Technique. Advanced Materials Research, 0, 925, 401-405.               | 0.3 | 1         |
| 35 | Synthesis and Characterization of Zinc Oxide Nanostructures by Different Sonication Period. Advanced Materials Research, 0, 925, 110-114.   | 0.3 | 1         |
| 36 | Effect of Substrate Bias in Copper Sputtering Plasma Measured by Langmuir Probe. Advanced Materials Research, 0, 925, 238-242.  | 0.3 | 1         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Effects of Ageing Time of ZnO Sol on Properties of ZnO Films by Sol Gel Spin Coating. Advanced Materials Research, 0, 925, 329-333.   | 0.3 | 1         |
| 38 | Numerical Simulation of Water Flow Velocity for Microfluidic Application Using COMSOL Multiphysics. Advanced Materials Research, 0, 925, 651-655.   | 0.3 | 1         |
| 39 | Electrical and optical characteristics of atmospheric pressure plasma needle jet driven by neon transformer. AIP Conference Proceedings, 2017, , .  | 0.4 | 1         |
| 40 | Effect of working power and pressure on plasma properties during the deposition of TiN films in reactive magnetron sputtering plasma measured using Langmuir probe measurement. Journal of Physics: Conference Series, 2018, 995, 012068. | 0.4 | 1         |
| 41 | INFLUENCES OF DEPOSITION TIME ON TIO <sub>2</sub> THIN FILMS PROPERTIES PREPARED BY CVD TECHNIQUE. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .   | 0.4 | 1         |
| 42 | Low-cost Circuit for Implementing Smooth Power Supply Transition. , 2007, , .   |     | 0         |
| 43 | Development and application of in-house high voltage power supply for atmospheric pressure plasma treatment system. , 2012, , .   |     | 0         |
| 44 | Electron and Ion Densities Measurement in Reactive Magnetron Zinc Sputtering Plasma. Advanced Materials Research, 0, 832, 344-349.  | 0.3 | 0         |
| 45 | Structural, Optical and Electrical Characteristics of Polycrystalline ZnO Thin Film Prepared by Sol-Gel Spin-Coating Method. Advanced Materials Research, 2013, 667, 24-29.   | 0.3 | 0         |
| 46 | Physical properties of tin oxide thin films deposited using magnetron sputtering technique. , 2013, , .   |     | 0         |
| 47 | Structural characterization of zinc oxide thin films deposited at various $O_2/Ar$ flow ratio in magnetron sputtering plasma. , 2013, , .   |     | 0         |
| 48 | Formation of ZnO Nanoparticulate Thin Film: Sol-Gel Synthesis and Characterisation. Advanced Materials Research, 2013, 832, 362-367.  | 0.3 | 0         |
| 49 | Growth of Zinc Oxide Rods in Different Heating Medium. Advanced Materials Research, 0, 667, 490-494.  | 0.3 | 0         |
| 50 | Growth and Characterisation of Nanocrystalline ZnO Thin Films by Dip Coating Technique. Advanced Materials Research, 2013, 832, 368-373.  | 0.3 | 0         |
| 51 | Influence of Dissipation Power in Copper Sputtering Plasma Measured by Optical Emission Spectroscopy. Advanced Materials Research, 2013, 832, 243-247.  | 0.3 | 0         |
| 52 | Structural and Conductivity Changes of Aluminum-Doped Zinc Oxide Films by Spin Coating Technique. Advanced Materials Research, 2013, 832, 838-842.  | 0.3 | 0         |
| 53 | Diode Characteristics of Zinc Oxide Thin Film at Different Deposition Time for FET Applications. Advanced Materials Research, 0, 667, 393-396.  | 0.3 | 0         |
| 54 | Surface Morphology and Electrical Properties of Al:ZnO Films Deposited by Spin Coating Process. Advanced Materials Research, 0, 925, 416-419.   | 0.3 | 0         |

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|----|---|-----|-----------|
| 55 | Numerical estimation of self-sputtering effect in ionized physical vapor deposition system. , 2014, , .   |     | 0         |
| 56 | Correlation between the microstructure of copper oxide thin film and its gas sensing response. , 2014, , .  |     | 0         |
| 57 | Comparative study between chemical and atmospheric pressure plasma jet cleaning on glass substrate. AIP Conference Proceedings, 2017, , .             | 0.4 | 0         |
| 58 | Nitrogen emission in reactive magnetron sputtering plasmas during the deposition of titanium nitride thin film. AIP Conference Proceedings, 2017, , . | 0.4 | 0         |