

# Zainal Arifin Ahmad

## List of Publications by Year in descending order

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406  
papers

6,408  
citations

57758

44  
h-index

128289

60  
g-index

411  
all docs

411  
docs citations

411  
times ranked

5163  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | A Short Review on Copper Calcium Titanate (CCTO) Electroceramic: Synthesis, Dielectric Properties, Film Deposition, and Sensing Application. <i>Nano-Micro Letters</i> , 2016, 8, 291-311.  | 27.0 | 152       |
| 2  | Use of waste gypsum to replace natural gypsum as set retarders in portland cement. <i>Waste Management</i> , 2009, 29, 1675-1679.   | 7.4  | 131       |
| 3  | Evolution of alkaline activated ground blast furnace slag-ultrafine palm oil fuel ash based concrete. <i>Materials &amp; Design</i> , 2014, 55, 387-393.  | 5.1  | 115       |
| 4  | The sensing mechanism and detection of low concentration acetone using chitosan-based sensors. <i>Sensors and Actuators B: Chemical</i> , 2013, 177, 522-528.   | 7.8  | 111       |
| 5  | The effect of unburned carbon in palm oil fuel ash on fluidity of cement pastes containing superplasticizer. <i>Construction and Building Materials</i> , 2010, 24, 1590-1593.  | 7.2  | 108       |
| 6  | The effects of MgO addition on microstructure, mechanical properties and wear performance of zirconia-toughened alumina cutting inserts. <i>Journal of Alloys and Compounds</i> , 2010, 497, 316-320.   | 5.5  | 104       |
| 7  | Strength and microstructure of alkali-activated binary blended binder containing palm oil fuel ash and ground blast-furnace slag. <i>Construction and Building Materials</i> , 2014, 52, 504-510.   | 7.2  | 103       |
| 8  | Synthesis of geopolymer from large amounts of treated palm oil fuel ash: Application of the Taguchi method in investigating the main parameters affecting compressive strength. <i>Construction and Building Materials</i> , 2014, 52, 473-481. | 7.2  | 101       |
| 9  | Effects of Filler Size on the Mechanical Properties of Polymer-filled Dental Composites: A Review of Recent Developments. <i>Journal of Physical Science</i> , 2018, 29, 141-165.   | 0.9  | 99        |
| 10 | Preparation and characterization of ceramic foam produced via polymeric foam replication method. <i>Journal of Materials Processing Technology</i> , 2008, 207, 235-239.  | 6.3  | 90        |
| 11 | Effect of Bi addition on the activation energy for the growth of Cu <sub>5</sub> Zn <sub>8</sub> intermetallic in the Sn-Zn lead-free solder. <i>Intermetallics</i> , 2010, 18, 730-735.  | 3.9  | 88        |
| 12 | Some ceramic properties of clays from central Cambodia. <i>Applied Clay Science</i> , 2011, 53, 33-41.  | 5.2  | 80        |
| 13 | Dielectric properties of Nb-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> electroceramics measured at high frequencies. <i>Journal of Alloys and Compounds</i> , 2010, 493, 486-492.  | 5.5  | 76        |
| 14 | Mechanical properties of Sn <sub>0.7</sub> Cu/Si <sub>3</sub> N <sub>4</sub> lead-free composite solder. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 556, 633-637.    | 5.6  | 76        |
| 15 | Effects of TiO <sub>2</sub> addition on the phase, mechanical properties, and microstructure of zirconia-toughened alumina ceramic composite. <i>Ceramics International</i> , 2015, 41, 3961-3967.  | 4.8  | 76        |
| 16 | Effect of the change of firing temperature on microstructure and physical properties of clay bricks from Beruas (Malaysia). <i>Science of Sintering</i> , 2010, 42, 245-254.  | 1.4  | 76        |
| 17 | Effect of applied voltage and fluoride ion content on the formation of zirconia nanotube arrays by anodic oxidation of zirconium. <i>Corrosion Science</i> , 2011, 53, 1156-1164.   | 6.6  | 70        |
| 18 | Microstructure and dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramic. <i>Materials Letters</i> , 2007, 61, 1835-1838.  | 2.6  | 69        |

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|----|--|------|-----------|
| 19 | Mechanical evaluation and thermal modelling of friction welding of mild steel and aluminium. <i>Journal of Materials Processing Technology</i> , 2010, 210, 1209-1216.   | 6.3  | 69        |
| 20 | Effects of Cr <sub>2</sub> O <sub>3</sub> addition on the mechanical properties, microstructure and wear performance of zirconia-toughened-alumina (ZTA) cutting inserts. <i>Journal of Alloys and Compounds</i> , 2012, 513, 91-96.                 | 5.5  | 68        |
| 21 | The effects of CeO <sub>2</sub> addition on the physical, microstructural and mechanical properties of yttria stabilized zirconia toughened alumina (ZTA). <i>International Journal of Refractory Metals and Hard Materials</i> , 2013, 36, 162-166. | 3.8  | 67        |
| 22 | Dynamic properties of pultruded natural fibre reinforced composites using Split Hopkinson Pressure Bar technique. <i>Materials &amp; Design</i> , 2010, 31, 4209-4218.   | 5.1  | 63        |
| 23 | Assessment of crystallite size and strain of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> prepared via conventional solid-state reaction. <i>Micro and Nano Letters</i> , 2016, 11, 147-150.  | 1.3  | 61        |
| 24 | Durability performance of Palm Oil Fuel Ash-based Engineered Alkaline-activated Cementitious Composite (POFA-EACC) mortar in sulfate environment. <i>Construction and Building Materials</i> , 2017, 131, 229-244.                                   | 7.2  | 61        |
| 25 | Measurement and prediction of compressive properties of polymers at high strain rate loading. <i>Materials &amp; Design</i> , 2011, 32, 4207-4215.   | 5.1  | 60        |
| 26 | Photodegradation of rhodamine B-dye pollutant using CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> -multiwall carbon nanotube nanocomposites. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105185.                             | 6.7  | 59        |
| 27 | Effects of H <sub>2</sub> O/Na <sub>2</sub> O molar ratio on the strength of alkaline activated ground blast furnace slag-ultrafine palm oil fuel ash based concrete. <i>Materials &amp; Design</i> , 2014, 56, 158-164.                             | 5.1  | 58        |
| 28 | Compressive strength of treated palm oil fuel ash based geopolymer mortar containing calcium hydroxide, aluminum hydroxide and silica fume as mineral additives. <i>Cement and Concrete Composites</i> , 2015, 60, 65-81.                            | 10.7 | 56        |
| 29 | Impact strength, fracture toughness and hardness improvement of PMMA denture base through addition of nitrile rubber/ceramic fillers. <i>Saudi Journal for Dental Research</i> , 2017, 8, 26-34.   | 1.2  | 56        |
| 30 | Heat of hydration of blended cement containing treated ground palm oil fuel ash. <i>Construction and Building Materials</i> , 2012, 27, 78-81.   | 7.2  | 55        |
| 31 | Crystal structure of single phase and low sintering temperature of $\alpha$ -cordierite synthesized from talc and kaolin. <i>Journal of Alloys and Compounds</i> , 2009, 482, 429-436.   | 5.5  | 53        |
| 32 | The influence of in-situ formation of hibonite on the properties of zirconia toughened alumina (ZTA) composites. <i>Ceramics International</i> , 2014, 40, 6211-6217.  | 4.8  | 53        |
| 33 | A Review on Microdialysis Calibration Methods: the Theory and Current Related Efforts. <i>Molecular Neurobiology</i> , 2017, 54, 3506-3527.  | 4.0  | 53        |
| 34 | Detection of chipping in ceramic cutting inserts from workpiece profile during turning using fast Fourier transform (FFT) and continuous wavelet transform (CWT). <i>Precision Engineering</i> , 2017, 47, 406-423.                                  | 3.4  | 53        |
| 35 | Improvement in dielectric properties of Zn-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> electroceramics prepared by modified mechanical alloying technique. <i>Journal of Alloys and Compounds</i> , 2009, 476, 477-481.                  | 5.5  | 52        |
| 36 | Effect of Al <sub>2</sub> O <sub>3</sub> /YSZ microstructures on wear and mechanical properties of cutting inserts. <i>Journal of Alloys and Compounds</i> , 2009, 478, 608-614.   | 5.5  | 51        |

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|----|--|-----|-----------|
| 37 | Influence of curing methods and concentration of NaOH on strength of the synthesized alkaline activated ground slag-ultrafine palm oil fuel ash mortar/concrete. <i>Construction and Building Materials</i> , 2014, 66, 541-548.   | 7.2 | 50        |
| 38 | Effects of the preheat layer thickness on surface/submerged flame during porous media combustion of micro burner. <i>Energy</i> , 2017, 122, 103-110.  | 8.8 | 50        |
| 39 | Effects of annealing temperature on the structural, morphology, optical properties and resistivity of sputtered CCTO thin film. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 12458-12466.   | 2.2 | 50        |
| 40 | Antenna in LTCC Technologies: A Review and the Current State of the Art. <i>IEEE Antennas and Propagation Magazine</i> , 2015, 57, 241-260.  | 1.4 | 49        |
| 41 | Impact of added water and superplasticizer on early compressive strength of selected mixtures of palm oil fuel ash-based engineered geopolymer composites. <i>Construction and Building Materials</i> , 2016, 109, 198-206.  | 7.2 | 48        |
| 42 | Microwave sintering of zirconia-toughened alumina (ZTA)-TiO <sub>2</sub> -Cr <sub>2</sub> O <sub>3</sub> ceramic composite: The effects on microstructure and properties. <i>Journal of Alloys and Compounds</i> , 2017, 722, 458-466.   | 5.5 | 47        |
| 43 | Structural, surface morphology and optical properties of sputter-coated CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thin film: Influence of RF magnetron sputtering power. <i>Materials Science in Semiconductor Processing</i> , 2017, 66, 157-161.   | 4.0 | 46        |
| 44 | Application of porous medium burner with micro cogeneration system. <i>Energy</i> , 2013, 50, 131-142.   | 8.8 | 45        |
| 45 | Evaluation of properties and FEM Model of the Friction welded mild Steel-Al6061-Alumina. <i>Materials Research</i> , 2013, 16, 453-467.  | 1.3 | 44        |
| 46 | Effects of MgO addition on the phase, mechanical properties, and microstructure of zirconia-toughened alumina added with CeO <sub>2</sub> (ZTA+CeO <sub>2</sub> ) ceramic composite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 595, 18-24. | 5.6 | 43        |
| 47 | A review of wideband circularly polarized dielectric resonator antennas. <i>China Communications</i> , 2017, 14, 65-79.  | 3.2 | 43        |
| 48 | Effects of deposition temperatures and substrates on microstructure and optical properties of sputtered CCTO thin film. <i>Materials Letters</i> , 2018, 210, 4-7.   | 2.6 | 43        |
| 49 | The relationship between microstructure and fracture toughness of zirconia toughened alumina (ZTA) added with MgO and CeO <sub>2</sub> . <i>International Journal of Refractory Metals and Hard Materials</i> , 2013, 41, 522-530.   | 3.8 | 41        |
| 50 | Shrinkage and strength of alkaline activated ground steel slag/ultrafine palm oil fuel ash pastes and mortars. <i>Materials &amp; Design</i> , 2014, 63, 710-718.  | 5.1 | 40        |
| 51 | Effect of thickness on surface morphology, optical and humidity sensing properties of RF magnetron sputtered CCTO thin films. <i>Applied Surface Science</i> , 2016, 385, 182-190.   | 6.1 | 40        |
| 52 | Effect of MgO particle size on the microstructure, mechanical properties and wear performance of ZTA+MgO ceramic cutting inserts. <i>International Journal of Refractory Metals and Hard Materials</i> , 2011, 29, 456-461.  | 3.8 | 39        |
| 53 | Effect of MnO <sub>2</sub> additive on the dielectric and electromagnetic interference shielding properties of sintered cement-based ceramics. <i>Ceramics International</i> , 2012, 38, 671-678.  | 4.8 | 39        |
| 54 | The development of low cost adsorbents from clay and waste materials: a review. <i>Journal of Material Cycles and Waste Management</i> , 2017, 19, 1-14.   | 3.0 | 38        |

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|----|---|-----|-----------|
| 55 | Influence of annealing temperature on morphological and photocatalytic activity of sputter-coated CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thin film under ultraviolet light irradiation. <i>Ceramics International</i> , 2019, 45, 20697-20703. | 4.8 | 38        |
| 56 | Photocatalytic Degradation of Organic Dye by Sol-Gel-Synthesized CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> Powder. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 2006-2014.   | 2.5 | 38        |
| 57 | Studies on the formation of yttrium iron garnet (YIG) through stoichiometry modification prepared by conventional solid-state method. <i>Journal of the European Ceramic Society</i> , 2013, 33, 1317-1324.   | 5.7 | 37        |
| 58 | Particle size Dependent on the static and dynamic compression properties of polypropylene/silica composites. <i>Materials &amp; Design</i> , 2013, 45, 539-547.   | 5.1 | 37        |
| 59 | Static and dynamic compressive properties of mica/polypropylene composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 1567-1576.   | 5.6 | 36        |
| 60 | The effect of crosshead speed on the joint strength between Sn-Zn-Bi lead-free solders and Cu substrate. <i>Journal of Alloys and Compounds</i> , 2007, 436, 112-117.   | 5.5 | 35        |
| 61 | Effect of delay time and Na <sub>2</sub> SiO <sub>3</sub> concentrations on compressive strength development of geopolymer mortar synthesized from TPOFA. <i>Construction and Building Materials</i> , 2015, 86, 64-74.                                   | 7.2 | 35        |
| 62 | Effect of molecular structures on dynamic compression properties of polyethylene. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 538, 125-134.                                     | 5.6 | 34        |
| 63 | Effect of MgO Addition on the Mechanical and Dynamic Properties of Zirconia Toughened Alumina (ZTA) Ceramics. <i>Materials</i> , 2019, 12, 2440.  | 2.9 | 34        |
| 64 | Effect of Various Coupling Agents on Properties of Alumina-filled PP Composites. <i>Journal of Reinforced Plastics and Composites</i> , 2006, 25, 745-759.  | 3.1 | 33        |
| 65 | 2.5 GHz BaTiO <sub>3</sub> DIELECTRIC RESONATOR ANTENNA. <i>Progress in Electromagnetics Research</i> , 2007, 76, 201-210.  | 4.4 | 33        |
| 66 | The effect of different dopant site (Cu and Ca) by magnesium on CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> dielectric properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 3947-3956.                             | 2.2 | 33        |
| 67 | Electronic Properties of ZnO Nanoparticles Synthesized by Sol-gel Method: A LDA+U Calculation and Experimental Study. <i>Procedia Chemistry</i> , 2016, 19, 125-132.  | 0.7 | 33        |
| 68 | Fabrication of tougher ZTA ceramics with sustainable high hardness through (RSM) optimisation. <i>International Journal of Refractory Metals and Hard Materials</i> , 2018, 74, 78-86.  | 3.8 | 33        |
| 69 | Microwave assisted sintering of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> . <i>Ceramics International</i> , 2008, 34, 939-942.  | 4.8 | 32        |
| 70 | Densification and Crystallization of Nonstoichiometric Cordierite Glass with Excess MgO Synthesized from Kaolin and Talc. <i>Journal of the American Ceramic Society</i> , 2011, 94, 687-694.   | 3.8 | 32        |
| 71 | Effects of addition of Al(OH) <sub>3</sub> on the strength of alkaline activated ground blast furnace slag-ultrafine palm oil fuel ash (AAGU) based binder. <i>Construction and Building Materials</i> , 2014, 50, 361-367.                               | 7.2 | 32        |
| 72 | Impacts of silica modulus on the early strength of alkaline activated ground slag/ultrafine palm oil fuel ash based concrete. <i>Materials and Structures/Materiaux Et Constructions</i> , 2015, 48, 733-741.   | 3.1 | 32        |

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|----|--|-----|-----------|
| 73 | Improved super-hydrophobicity of eco-friendly coating from palm oil fuel ash (POFA) waste. <i>Surface and Coatings Technology</i> , 2018, 337, 126-135.  | 4.8 | 32        |
| 74 | Effect of Ar:N <sub>2</sub> flow rate on morphology, optical and electrical properties of CCTO thin films deposited by RF magnetron sputtering. <i>Ceramics International</i> , 2019, 45, 15077-15081.   | 4.8 | 31        |
| 75 | High sensitivity and selectivity of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> -ZnO composites towards acetone gas at room temperature. <i>Ceramics International</i> , 2018, 44, 6904-6911.  | 4.8 | 30        |
| 76 | Thermal expansion coefficient and dielectric properties of non-stoichiometric cordierite compositions with excess MgO mole ratio synthesized from mainly kaolin and talc by the glass crystallization method. <i>Journal of Alloys and Compounds</i> , 2010, 494, 256-260.   | 5.5 | 29        |
| 77 | Effects of deposition time on properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thin film deposited on ITO substrate by RF magnetron sputtering at ambient temperature. <i>Ceramics International</i> , 2018, 44, 18817-18820.   | 4.8 | 29        |
| 78 | Effect of Excess MgO Mole Ratio in a Stoichiometric Cordierite (2MgO·2Al <sub>2</sub> O <sub>3</sub> ·5SiO <sub>2</sub> ) Composition on the Phase Transformation and Crystallization Behavior of Magnesium Aluminum Silicate Phases. <i>International Journal of Applied Ceramic Technology</i> , 2011, 8, 637-645. | 2.1 | 28        |
| 79 | Bacto agar-based gel polymer electrolyte. <i>Ionics</i> , 2012, 18, 359-364.   | 2.4 | 28        |
| 80 | Effects of Cr <sub>2</sub> O <sub>3</sub> addition on the phase, mechanical properties, and microstructure of zirconia-toughened alumina added with TiO <sub>2</sub> (ZTA-TiO <sub>2</sub> ) ceramic composite. <i>International Journal of Refractory Metals and Hard Materials</i> , 2016, 61, 40-45.              | 3.8 | 27        |
| 81 | The production of nickel-alumina composite coating via electroplating. <i>Ionics</i> , 2009, 15, 603-607.  | 2.4 | 26        |
| 82 | Design of a novel dielectric resonator antenna using MgTiO <sub>3</sub> -CoTiO <sub>3</sub> for wideband applications. <i>Materials and Design</i> , 2015, 85, 396-403.  | 7.0 | 26        |
| 83 | Phase structure, microstructure and broadband dielectric response of Cu nonstoichiometry CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramic. <i>Journal of Alloys and Compounds</i> , 2016, 683, 579-589.   | 5.5 | 26        |
| 84 | Efficient diagnostics of the electronic and optical properties of defective ZnO nanoparticles synthesized using the sol-gel method: experimental and theoretical studies. <i>Materials Research Express</i> , 2017, 4, 085908.   | 1.6 | 26        |
| 85 | Hardness and toughness enhancement of CeO <sub>2</sub> addition to ZTA ceramics through HIPping technique. <i>International Journal of Refractory Metals and Hard Materials</i> , 2017, 69, 60-65.   | 3.8 | 26        |
| 86 | Analysis of Mineralogical Component of Palm Oil Fuel Ash with or without Unburned Carbon. <i>Advanced Materials Research</i> , 0, 173, 7-11.   | 0.3 | 25        |
| 87 | High frequency response to the impedance complex properties of Nb-doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> electroceramics. <i>Journal of Alloys and Compounds</i> , 2011, 509, 5701-5707.  | 5.5 | 25        |
| 88 | Effects of additives additions and sintering techniques on the microstructure and mechanical properties of Zirconia Toughened Alumina (ZTA): A review. <i>International Journal of Refractory Metals and Hard Materials</i> , 2022, 106, 105870.   | 3.8 | 25        |
| 89 | Sago starch as binder and pore-forming agent for the fabrication of porcelain foam. <i>Ceramics International</i> , 2014, 40, 4777-4784.   | 4.8 | 24        |
| 90 | Effects of yttria stabilized zirconia (3Y-TZP) percentages on the ZTA dynamic mechanical properties. <i>International Journal of Refractory Metals and Hard Materials</i> , 2015, 50, 157-162.   | 3.8 | 24        |

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|-----|---|-----|-----------|
| 91  | Relationship between the thermal behaviour of the clays and their mineralogical and chemical composition: Example of Ipoh, Kuala Rompin and Mersing (Malaysia). <i>Applied Clay Science</i> , 2017, 143, 327-335.                               | 5.2 | 24        |
| 92  | Effects of Cu and Ti excess on the dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> prepared using a wet chemical method. <i>Journal of Alloys and Compounds</i> , 2007, 443, 155-160.                                | 5.5 | 23        |
| 93  | Wettability, Electrical and Mechanical Properties of 99.3Sn-0.7Cu/Si <sub>3</sub> N <sub>4</sub> ; Novel Lead-Free Nanocomposite Solder. <i>Advanced Materials Research</i> , 0, 277, 106-111.  | 0.3 | 23        |
| 94  | The effect of sago as binder in the fabrication of alumina foam through the polymeric sponge replication technique. <i>Journal of the European Ceramic Society</i> , 2015, 35, 1905-1914.   | 5.7 | 23        |
| 95  | Fabrication of resistance type humidity sensor based on CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thick film. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 94, 902-908.                           | 5.0 | 23        |
| 96  | The use of carbon black-TiO <sub>2</sub> composite prepared using solid state method as counter electrode and E. conferta as sensitizer for dye-sensitized solar cell (DSSC) applications. <i>Optical Materials</i> , 2018, 79, 366-371.        | 3.6 | 23        |
| 97  | Effect of nano- and micro-alumina fillers on some properties of poly(methyl methacrylate) denture base composites. <i>Journal of the Serbian Chemical Society</i> , 2018, 83, 75-91.  | 0.8 | 23        |
| 98  | Structural characteristics and dielectric properties of neodymium doped barium titanate. <i>Journal of Materials Science: Materials in Electronics</i> , 2011, 22, 167-173.   | 2.2 | 22        |
| 99  | Grain growth, phase evolution and properties of NbC carbide-doped WC-10AlSi304 hardmetals produced by pseudo hot isostatic pressing. <i>Journal of Alloys and Compounds</i> , 2013, 552, 20-25.   | 5.5 | 22        |
| 100 | Synthesis of high purity titanium silicon carbide from elemental powders using arc melting method. <i>International Journal of Refractory Metals and Hard Materials</i> , 2014, 47, 86-92.  | 3.8 | 22        |
| 101 | Room temperature LPG resistive sensor based on the use of a few-layer graphene/SnO <sub>2</sub> nanocomposite. <i>Mikrochimica Acta</i> , 2018, 185, 69.  | 5.0 | 22        |
| 102 | Mechanical properties of nanosilica/polypropylene composites under dynamic compression loading. <i>Polymer Composites</i> , 2011, 32, 565-575.  | 4.6 | 21        |
| 103 | Effect of ceramic coating in combustion and cogeneration performance of Al <sub>2</sub> O <sub>3</sub> porous medium. <i>Journal of the Energy Institute</i> , 2016, 89, 81-93.   | 5.3 | 21        |
| 104 | The effects of CeO <sub>2</sub> addition on the physical and microstructural properties of ZTA-TiO <sub>2</sub> ceramics composite. <i>Journal of Alloys and Compounds</i> , 2019, 773, 27-33.  | 5.5 | 21        |
| 105 | Structural and electrical characteristic of crystalline barium titanate synthesized by low temperature aqueous method. <i>Journal of Materials Processing Technology</i> , 2008, 195, 171-177.  | 6.3 | 20        |
| 106 | Alumina mild steel friction welded at lower rotational speed. <i>Journal of Materials Processing Technology</i> , 2008, 204, 279-283.   | 6.3 | 20        |
| 107 | Effects of La <sub>2</sub> O <sub>3</sub> addition on microstructure development and physical properties of harder ZTA-CeO <sub>2</sub> composites with sustainable high fracture toughness. <i>Journal of Rare Earths</i> , 2021, 39, 844-849. | 4.8 | 20        |
| 108 | The evaluation of nickel deposit obtained via Watts electrolyte at ambient temperature. <i>Journal of Coatings Technology Research</i> , 2010, 7, 815-820.  | 2.5 | 19        |

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|-----|---|-----|-----------|
| 109 | Synthesis and characterization of $x\text{MgO} \cdot (1.5-x)\text{Al}_2\text{O}_3 \cdot 5\text{SiO}_2$ ( $x=2.6 \sim 3.0$ ) system using mainly talc and kaolin through the glass route. <i>Materials Chemistry and Physics</i> , 2011, 129, 910-918. | 4.0 | 19        |
| 110 | Using design of mixture experiments to optimize triaxial ceramic tile compositions incorporating Cambodian clays. <i>Applied Clay Science</i> , 2014, 87, 97-107.   | 5.2 | 19        |
| 111 | Effect of $\text{SrCO}_3$ addition on the dynamic compressive strength of ZTA. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2016, 23, 481-489.  | 4.9 | 19        |
| 112 | Impact of $\text{Al}(\text{OH})_3$ addition to POFA on the compressive strength of POFA alkali-activated mortar. <i>Construction and Building Materials</i> , 2018, 190, 65-82.   | 7.2 | 19        |
| 113 | Structural, piezoelectric, and dielectric properties of PZT-based ceramics without excess lead oxide. <i>Journal of the Australian Ceramic Society</i> , 2020, 56, 371-377.   | 1.9 | 19        |
| 114 | Effect of sample perimeter and temperature on $\text{Sn}-\text{Zn}$ based lead-free solders. <i>Materials Letters</i> , 2006, 60, 2383-2389.  | 2.6 | 18        |
| 115 | A Low-Profile Hybrid Multi-Permittivity Dielectric Resonator Antenna With Perforated Structure for Ku and K Band Applications. <i>IEEE Access</i> , 2020, 8, 151219-151228.   | 4.2 | 18        |
| 116 | Effect of impurities content from minerals on phase transformation, densification and crystallization of $\text{Li}-\text{cordierite}$ glass-ceramic. <i>Journal of Alloys and Compounds</i> , 2011, 509, 7645-7651.                                  | 5.5 | 17        |
| 117 | A novel 5.8GHz quasi-lumped element resonator antenna. <i>AEU - International Journal of Electronics and Communications</i> , 2013, 67, 557-563.  | 2.9 | 17        |
| 118 | Performance of Different Grades of Palm Oil Fuel Ash with Ground Slag as Base Materials in the Synthesis of Alkaline Activated Mortar. <i>Journal of Advanced Concrete Technology</i> , 2014, 12, 378-387.  | 1.8 | 17        |
| 119 | Sintering characteristics and properties of WC-10AlSi304 (stainless steel) hardmetals with added graphite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 605, 210-214.        | 5.6 | 17        |
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