

Faizal Mustapha

List of Publications by Year in descending order

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1895
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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Material screening and choosing methods – A review. <i>Materials & Design</i> , 2010, 31, 696-705. | 5.1 | 272 |
| 2 | A comprehensive VIKOR method for material selection. <i>Materials & Design</i> , 2011, 32, 1215-1221. | 5.1 | 249 |
| 3 | A framework for weighting of criteria in ranking stage of material selection process. <i>International Journal of Advanced Manufacturing Technology</i> , 2012, 58, 411-420. | 1.5 | 189 |
| 4 | A review on the vibration analysis for a damage occurrence of a cantilever beam. <i>Engineering Failure Analysis</i> , 2013, 31, 442-461. | 1.8 | 103 |
| 5 | Material selection based on ordinal data. <i>Materials & Design</i> , 2010, 31, 3180-3187. | 5.1 | 87 |
| 6 | On the correlation between microstructural evolution and ultrasonic properties: a review. <i>Journal of Materials Science</i> , 2015, 50, 2643-2665. | 1.7 | 67 |
| 7 | A review on thermophysical evaluation of alkali-activated geopolymers. <i>Ceramics International</i> , 2015, 41, 4273-4281. | 2.3 | 67 |
| 8 | Detection, Localisation and Assessment of Defects in Pipes Using Guided Wave Techniques: A Review. <i>Sensors</i> , 2018, 18, 4470. | 2.1 | 66 |
| 9 | Ballistic impact performance of Kevlar-29 and Al ₂ O ₃ powder/epoxy targets under high velocity impact. <i>Materials & Design</i> , 2012, 35, 12-19. | 5.1 | 60 |
| 10 | Free vibration analysis of solar functionally graded plates with temperature-dependent material properties using second order shear deformation theory. <i>Journal of Mechanical Science and Technology</i> , 2011, 25, 2195-2209. | 0.7 | 48 |
| 11 | A prototype knowledge-based system for material selection of ceramic matrix composites of automotive engine components. <i>Materials & Design</i> , 2002, 23, 701-708. | 5.1 | 44 |
| 12 | Finite element analysis of thermoelastic contact problem in functionally graded axisymmetric brake disks. <i>Composite Structures</i> , 2010, 92, 1591-1602. | 3.1 | 44 |
| 13 | Three-Dimensional Finite Element Modeling of Thermomechanical Problems in Functionally Graded Hydroxyapatite/Titanium Plate. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-20. | 0.6 | 44 |
| 14 | Application of Taguchi Method to Optimize the Parameter of Fused Deposition Modeling (FDM) Using Oil Palm Fiber Reinforced Thermoplastic Composites. <i>Polymers</i> , 2022, 14, 2140. | 2.0 | 42 |
| 15 | Preliminary Review of Biocomposites Materials for Aircraft Radome Application. <i>Key Engineering Materials</i> , 0, 471-472, 563-567. | 0.4 | 40 |
| 16 | Structural Health Monitoring of an Annular Component using a Statistical Approach. <i>Strain</i> , 2005, 41, 117-127. | 1.4 | 35 |
| 17 | Investigations on the Mechanical Properties of Glass Fiber/Sisal Fiber/Chitosan Reinforced Hybrid Polymer Sandwich Composite Scaffolds for Bone Fracture Fixation Applications. <i>Polymers</i> , 2020, 12, 1501. | 2.0 | 35 |
| 18 | Second-Order Shear Deformation Theory to Analyze Stress Distribution for Solar Functionally Graded Plates. <i>Mechanics Based Design of Structures and Machines</i> , 2010, 38, 348-361. | 3.4 | 33 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Transient and thermal contact analysis for the elastic behavior of functionally graded brake disks due to mechanical and thermal loads. <i>Materials & Design</i> , 2010, 31, 4655-4665. | 5.1 | 32 |
| 20 | Analyzing the Effect of Machining Parameters Setting to the Surface Roughness during End Milling of CFRP-Aluminium Composite Laminates. <i>International Journal of Manufacturing Engineering</i> , 2016, 2016, 1-9. | 0.8 | 32 |
| 21 | Finite element analysis of composites materials for aerospace applications. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010, 11, 012010. | 0.3 | 28 |
| 22 | A review on the micro energy harvester in Structural Health Monitoring (SHM) of biocomposite material for Vertical Axis Wind Turbine (VAWT) system: A Malaysia perspective. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 35, 23-30. | 8.2 | 25 |
| 23 | Damage location in an isotropic plate using a vector of novelty indices. <i>Mechanical Systems and Signal Processing</i> , 2007, 21, 1885-1906. | 4.4 | 24 |
| 24 | Rice Husk Ash-Based Geopolymer Binder: Compressive Strength, Optimize Composition, FTIR Spectroscopy, Microstructural, and Potential as Fire-Retardant Material. <i>Polymers</i> , 2021, 13, 4373. | 2.0 | 23 |
| 25 | The Effect of Thermooxidative Aging on the Durability of Glass Fiber-Reinforced Epoxy. <i>Advances in Materials Science and Engineering</i> , 2015, 2015, 1-13. | 1.0 | 21 |
| 26 | Damage Localisation in a Stiffened Composite Panel. <i>Strain</i> , 2008, 44, 298-307. | 1.4 | 20 |
| 27 | A double-cell foam-filled composite block for efficient energy absorption under axial compression. <i>Composite Structures</i> , 2009, 89, 399-407. | 3.1 | 20 |
| 28 | A computer-aided intelligent system for fault diagnosis of an aircraft engine. <i>Engineering Computations</i> , 2004, 21, 78-90. | 0.7 | 18 |
| 29 | Rheological and Morphological Properties of Oil Palm Fiber-Reinforced Thermoplastic Composites for Fused Deposition Modeling (FDM). <i>Polymers</i> , 2021, 13, 3739. | 2.0 | 18 |
| 30 | Influence of fabric orientation and compression factor on the mechanical properties of 3D E-glass reinforced epoxy composites. <i>Journal of Materials Research and Technology</i> , 2020, 9, 8517-8527. | 2.6 | 17 |
| 31 | Computational Study on the Aerodynamic Performance of Wind Turbine Airfoil Fitted with Coandă Jet. <i>Journal of Renewable Energy</i> , 2013, 2013, 1-17. | 2.1 | 13 |
| 32 | Damage Detection Using Stress Waves and Multivariate Statistics: an Experimental Case Study of an Aircraft Component. <i>Strain</i> , 2007, 43, 47-53. | 1.4 | 12 |
| 33 | Optimization of Adhesion Strength and Microstructure Properties by Using Response Surface Methodology in Enhancing the Rice Husk Ash-Based Geopolymer Composite Coating. <i>Polymers</i> , 2020, 12, 2709. | 2.0 | 12 |
| 34 | Optimization of Rice Husk Ash-Based Geopolymers Coating Composite for Enhancement in Flexural Properties and Microstructure Using Response Surface Methodology. <i>Coatings</i> , 2020, 10, 165. | 1.2 | 12 |
| 35 | Preliminary study on the fabrication of aluminium foam through pressure assisted sintering dissolution process. <i>Journal of Materials Processing Technology</i> , 2010, 210, 1598-1612. | 3.1 | 11 |
| 36 | Thermal Buckling and Post-Buckling Improvements of Laminated Composite Plates Using Finite Element Method. <i>Key Engineering Materials</i> , 0, 471-472, 536-541. | 0.4 | 11 |

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|----|---|-----|-----------|
| 37 | Lightning strike evaluation on composite and biocomposite vertical-axis wind turbine blade using structural health monitoring approach. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 3444-3455. | 1.4 | 11 |
| 38 | Natural Frequency of F.G. Rectangular Plate by Shear Deformation Theory. <i>IOP Conference Series: Materials Science and Engineering</i> , 2011, 17, 012008. | 0.3 | 10 |
| 39 | Finite element validation on adhesive joint for composite fuselage model. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2012, 34, 69-74. | 0.8 | 10 |
| 40 | Effects of Processing Parameters for Vacuum-Bagging-Only Method on Shape Conformation of Laminated Composites. <i>Processes</i> , 2020, 8, 1147. | 1.3 | 10 |
| 41 | Effect of Different Pre-Treatment on the Microstructure and Intumescent Properties of Rice Husk Ash-Based Geopolymer Hybrid Coating. <i>Polymers</i> , 2022, 14, 2252. | 2.0 | 10 |
| 42 | Fire Retardant Performance of Rice Husk Ash-Based Geopolymer Coated Mild Steel - A Factorial Design and Microstructure Analysis. <i>Materials Science Forum</i> , 0, 841, 48-54. | 0.3 | 9 |
| 43 | Computational Investigation of Crack Behavior in Friction Stir Welding. <i>Simulation</i> , 2009, 85, 45-59. | 1.1 | 8 |
| 44 | Study and Use of Rice Husk Ash as a Source of Aluminosilicate in Refractory Coating. <i>Materials</i> , 2021, 14, 3440. | 1.3 | 8 |
| 45 | Elastic Contact Analysis of Functionally Graded Brake Disks Subjected to Thermal and Mechanical Loads. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2013, 14, 10-23. | 1.4 | 7 |
| 46 | Condition Structural Index using Principal Component Analysis for undamaged, damage and repair conditions of carbon fiber reinforced plastic laminate. <i>Journal of Intelligent Material Systems and Structures</i> , 2014, 25, 575-584. | 1.4 | 7 |
| 47 | Structural health monitoring of biocomposites, fibre-reinforced composites, and hybrid composite. , 2019, , 227-242. | | 7 |
| 48 | Consideration of Lamination Structural Analysis in a Multi-Layered Composite and Failure Analysis on Wing Design Application. <i>Materials</i> , 2021, 14, 3705. | 1.3 | 7 |
| 49 | Structural health monitoring and damage identification for composite panels using smart sensor. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 2313-2323. | 1.4 | 6 |
| 50 | Hybridization of TRIZ and CAD-analysis at the conceptual design stage.. <i>International Journal of Computer Integrated Manufacturing</i> , 2019, 32, 890-899. | 2.9 | 6 |
| 51 | Effect of Sintering Temperature on Functionally Graded Nickel/Alumina Plate. <i>Applied Mechanics and Materials</i> , 0, 629, 437-443. | 0.2 | 5 |
| 52 | Composite patch repair using natural fiber for aerospace applications, sustainable composites for aerospace applications. , 2018, , 171-209. | | 5 |
| 53 | Rice-Husk-Ash-Based Geopolymer Coating: Fire-Retardant, Optimize Composition, Microstructural, Thermal and Element Characteristics Analysis. <i>Polymers</i> , 2021, 13, 3747. | 2.0 | 5 |
| 54 | Testing of Silicon Rubber/Montmorillonite Nanocomposite for Mechanical and Tribological Performance. <i>Nanomaterials</i> , 2021, 11, 3050. | 1.9 | 5 |

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|----|---|-----|-----------|
| 55 | High Velocity Impact Damage Analysis for Glass Epoxy-Laminated Plates. <i>Advanced Materials Research</i> , 0, 399-401, 2318-2328. | 0.3 | 4 |
| 56 | Thermal Free Vibration Analysis of Temperature-Dependent Functionally Graded Plates Using Second Order Shear Deformation. <i>Key Engineering Materials</i> , 0, 471-472, 133-139. | 0.4 | 4 |
| 57 | A Preliminary Study on Translational Kinetic Energy Absorption Using Coconut-Fiber (Coir) Sheets as a Potential Impact-Worthy Constituent in Advanced Aerospace Material. <i>Key Engineering Materials</i> , 0, 471-472, 1028-1033. | 0.4 | 4 |
| 58 | Computational Simulation for Static and Dynamic Load of Rectangular Plate in Elastic Region for Analysis of Impact Resilient Structure. <i>Applied Mechanics and Materials</i> , 0, 225, 150-157. | 0.2 | 4 |
| 59 | The Effect of Layers and Bullet Type on Impact Properties of Glass Fibre Reinforced Polymer (GFRP) Using a Single Stage Gas Gun (SSGG). <i>Applied Mechanics and Materials</i> , 0, 564, 428-433. | 0.2 | 4 |
| 60 | Characterization of Aging Behavior of AA6061 Aluminum Alloy Through Destructive and Ultrasonic Non-destructive Testing Techniques. <i>Transactions of the Indian Institute of Metals</i> , 2015, 68, 561-569. | 0.7 | 4 |
| 61 | On the Crush Behavior of an Ultra Light Multi-Cell Foam-Filled Composite Structure under Axial Compression. <i>Journal of Reinforced Plastics and Composites</i> , 2010, 29, 391-408. | 1.6 | 3 |
| 62 | Optimal Sintering Procedure to Fabrication of Functionally Graded Hydroxyapatite-Titanium. <i>Key Engineering Materials</i> , 0, 471-472, 140-144. | 0.4 | 3 |
| 63 | Carbothermal nitridation process of mechanically milled silica sand using Taguchi's method. <i>Ceramics International</i> , 2013, 39, 6119-6130. | 2.3 | 3 |
| 64 | High Velocity Impact Test on Glass Fibre Reinforced Polymer (GFRP) Using a Single Stage Gas Gun (SSGG) - An Experimental Based Approach. <i>Applied Mechanics and Materials</i> , 0, 564, 376-381. | 0.2 | 3 |
| 65 | Impact Damage Analysis for Glass Reinforced Epoxy Laminated Plates Using Single Stage Gas Gun. <i>Applied Mechanics and Materials</i> , 0, 564, 382-387. | 0.2 | 3 |
| 66 | Fabrication Technique for Bio-Composite Patch Repair on Laminated Structures of CFRP Plate. <i>Applied Mechanics and Materials</i> , 0, 564, 366-371. | 0.2 | 3 |
| 67 | A Structural Health Monitoring of a Pitch Catch Active Sensing of PZT Sensor on Normal, Damage and Repair Aircraft Spoiler. <i>Key Engineering Materials</i> , 0, 471-472, 1124-1129. | 0.4 | 2 |
| 68 | Buckling and Post-Buckling Improvements of Laminated Composite Plates Using Finite Element Method. <i>Key Engineering Materials</i> , 0, 471-472, 530-535. | 0.4 | 2 |
| 69 | Deflection Analysis of the Thin-Web Workpiece Structure Using Similarity Concept. <i>Advanced Materials Research</i> , 2011, 337, 479-488. | 0.3 | 2 |
| 70 | A Comparative Study of an Aircraft Radome Closed Mold through Vacuum Infusion Technique. <i>Advanced Materials Research</i> , 0, 576, 690-694. | 0.3 | 2 |
| 71 | Effect of Artificial Aging on the Microstructure and Mechanical Properties of Aluminum Alloy AA6061-T6. <i>Metal Science and Heat Treatment</i> , 2016, 58, 283-286. | 0.2 | 2 |
| 72 | Finite Element Calculation of Residual Thermal Stresses for Functionally Graded Hydroxyapatite-Titanium Plate Design. <i>Academic Platform Journal of Engineering and Science</i> , 2013, 1, 1-10. | 0.5 | 2 |

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|----|--|-----|-----------|
| 73 | Fabrication of aluminium foam through pressure assisted high frequency induction heated sintering dissolution process: an experimental observation. Powder Metallurgy, 2011, 54, 343-353. | 0.9 | 1 |
| 74 | Critical Speeds for Carbon/Epoxy Composite Rotors in Spacecraft Energy Storage Applications. Key Engineering Materials, 0, 471-472, 37-42. | 0.4 | 1 |
| 75 | Modal Properties of a Cantilevered Laminated Woven Composite Plate as Affected by Stacking Sequence and Fiber Orientation: An Experimental Study. Applied Mechanics and Materials, 0, 225, 132-137. | 0.2 | 1 |
| 76 | Implementation of Extreme Low Power Micro-Controller for a Wireless Structural Health Monitoring (SHM) System. Applied Mechanics and Materials, 2012, 225, 344-349. | 0.2 | 1 |
| 77 | Damage Identification and Localization of Carbon Fiber Reinforced Plastic Composite Plate Using Outlier Analysis and Multilayer Perceptron Neural Network. , 2009, , 79-113. | | 1 |
| 78 | A "NEW NORMAL" CONCEPTUAL APPROACH; AUGMENTED REALITY (AR) TOURISM IN TERENGGANU. , 0, , . | | 1 |
| 79 | The Effect of Residual Solvent in Carbon Based Filler Reinforced Polymer Coating on the Curing Properties, Mechanical and Corrosive Behaviour. Materials, 2022, 15, 3445. | 1.3 | 1 |
| 80 | Damage Detection Using Prior Wavelet Decompositions. Key Engineering Materials, 2007, 347, 145-150. | 0.4 | 0 |
| 81 | A Hybrid GA-SA Algorithm for Multi-Objective Sequencing Problem in High-Product Mix Shop-Floor. Applied Mechanics and Materials, 0, 110-116, 3964-3971. | 0.2 | 0 |
| 82 | Parametric Study on Cohesive Element for Composite Fuselage Model. Key Engineering Materials, 0, 471-472, 1085-1090. | 0.4 | 0 |
| 83 | Damage Identification and Classification in CFRP Laminates " A SEM Based Study. Applied Mechanics and Materials, 2012, 225, 138-143. | 0.2 | 0 |
| 84 | Geometric Non-Linear Analysis of Composite Laminated Plates Using Higher Order Finite Strip Element. Applied Mechanics and Materials, 0, 225, 165-171. | 0.2 | 0 |
| 85 | Damage Classification in CFRP Laminates Using Principal Component Analysis (PCA) Approach. Applied Mechanics and Materials, 0, 225, 189-194. | 0.2 | 0 |
| 86 | Identification of Modal Properties of Composite Thin Plate Using OMA in Wind Tunnel Environment. Applied Mechanics and Materials, 0, 446-447, 606-610. | 0.2 | 0 |
| 87 | Experimental Validation on Time Base Analysis of Various Aircraft CFRP Panel Conditions for Structural Health Monitoring. Key Engineering Materials, 2013, 594-595, 935-939. | 0.4 | 0 |
| 88 | Basic Geometries of the New Closed Circuit Wind Tunnel of the Universiti Putra Malaysia (UPM). Applied Mechanics and Materials, 2014, 629, 376-381. | 0.2 | 0 |
| 89 | A Review on the Self-Energize Structural Health Monitoring (SHM) in Vertical Axis Wind Turbine (VAWT) System. Applied Mechanics and Materials, 0, 564, 157-163. | 0.2 | 0 |
| 90 | The macro-fibre composite bonded effect analysis on the micro-energy harvester performance and structural health monitoring system of woven kenaf turbine blade for vertical axis wind turbine application. Advances in Mechanical Engineering, 2018, 10, 168781401880204. | 0.8 | 0 |

| # | ARTICLE | IF | CITATIONS |
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| 91 | Studying parameters affecting the thinning rate during heat-assisted incremental sheet forming of the lightweight material. <i>Advances in Materials and Processing Technologies</i> , 2020, , 1-14. | 0.8 | 0 |
| 92 | Damage Localization of Carbon Fiberâ€“Reinforced Plastic Composite and Perspex Plates Using Novelty Indices and the Cross-Validation Set of Multilayer Perceptron Neural Network. , 2009, , 115-133. | | 0 |