Faizal Mustapha

List of Publications by Year
in descending order

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Version: 2024-02-01

92	2,071	304368	253896
papers	citations	22	43
		h-index	g-index

93	93	93	1895
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Effect of Residual Solvent in Carbonâ^'Based Filler Reinforced Polymer Coating on the Curing Properties, Mechanical and Corrosive Behaviour. Materials, 2022, 15, 3445.	1.3	1
2	Effect of Different Pre-Treatment on the Microstructure and Intumescent Properties of Rice Husk Ash-Based Geopolymer Hybrid Coating. Polymers, 2022, 14, 2252.	2.0	10
3	Application of Taguchi Method to Optimize the Parameter of Fused Deposition Modeling (FDM) Using Oil Palm Fiber Reinforced Thermoplastic Composites. Polymers, 2022, 14, 2140.	2.0	42
4	Study and Use of Rice Husk Ash as a Source of Aluminosilicate in Refractory Coating. Materials, 2021, 14, 3440.	1.3	8
5	Consideration of Lamination Structural Analysis in a Multi-Layered Composite and Failure Analysis on Wing Design Application. Materials, 2021, 14, 3705.	1.3	7
6	Rice-Husk-Ash-Based Geopolymer Coating: Fire-Retardant, Optimize Composition, Microstructural, Thermal and Element Characteristics Analysis. Polymers, 2021, 13, 3747.	2.0	5
7	Rheological and Morphological Properties of Oil Palm Fiber-Reinforced Thermoplastic Composites for Fused Deposition Modeling (FDM). Polymers, 2021, 13, 3739.	2.0	18
8	Testing of Silicon Rubber/Montmorillonite Nanocomposite for Mechanical and Tribological Performance. Nanomaterials, 2021, 11, 3050.	1.9	5
9	Rice Husk Ash-Based Geopolymer Binder: Compressive Strength, Optimize Composition, FTIR Spectroscopy, Microstructural, and Potential as Fire-Retardant Material. Polymers, 2021, 13, 4373.	2.0	23
10	Studying parameters affecting the thinning rate during heat-assisted incremental sheet forming of the lightweight material. Advances in Materials and Processing Technologies, 2020, , 1-14.	0.8	0
11	Optimization of Adhesion Strength and Microstructure Properties by Using Response Surface Methodology in Enhancing the Rice Husk Ash-Based Geopolymer Composite Coating. Polymers, 2020, 12, 2709.	2.0	12
12	Effects of Processing Parameters for Vacuum-Bagging-Only Method on Shape Conformation of Laminated Composites. Processes, 2020, 8, 1147.	1.3	10
13	Influence of fabric orientation and compression factor on the mechanical properties of 3D E-glass reinforced epoxy composites. Journal of Materials Research and Technology, 2020, 9, 8517-8527.	2.6	17
14	Investigations on the Mechanical Properties of Glass Fiber/Sisal Fiber/Chitosan Reinforced Hybrid Polymer Sandwich Composite Scaffolds for Bone Fracture Fixation Applications. Polymers, 2020, 12, 1501.	2.0	35
15	Optimization of Rice Husk Ash-Based Geopolymers Coating Composite for Enhancement in Flexural Properties and Microstructure Using Response Surface Methodology. Coatings, 2020, 10, 165.	1.2	12
16	Hybridization of TRIZ and CAD-analysis at the conceptual design stage.. International Journal of Computer Integrated Manufacturing, 2019, 32, 890-899.	2.9	6
17	Structural health monitoring of biocomposites, fibre-reinforced composites, and hybrid composite. , 2019, , 227-242.		7
18	Lightning strike evaluation on composite and biocomposite vertical-axis wind turbine blade using structural health monitoring approach. Journal of Intelligent Material Systems and Structures, 2018, 29, 3444-3455.	1.4	11

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19	The macro-fibre compositeâ€“bonded effect analysis on the micro-energy harvester performance and structural healthâ€“monitoring system of woven kenaf turbine blade for vertical axis wind turbine application. Advances in Mechanical Engineering, 2018, 10, 168781401880204.	0.8	0
20	Detection, Localisation and Assessment of Defects in Pipes Using Guided Wave Techniques: A Review. Sensors, 2018, 18, 4470.	2.1	66
21	Composite patch repair using natural fiber for aerospace applications, sustainable composites for aerospace applications. , 2018, , 171-209.		5
22	Analyzing the Effect of Machining Parameters Setting to the Surface Roughness during End Milling of CFRP-Aluminium Composite Laminates. International Journal of Manufacturing Engineering, 2016, 2016, 1-9.	0.8	32
23	Structural health monitoring and damage identification for composite panels using smart sensor. Journal of Intelligent Material Systems and Structures, 2016, 27, 2313-2323.	1.4	6
24	Effect of Artificial Aging on the Microstructure and Mechanical Properties of Aluminum Alloy AA6061-T6. Metal Science and Heat Treatment, 2016, 58, 283-286.	0.2	2
25	The Effect of Thermooxidative Aging on the Durability of Glass Fiber-Reinforced Epoxy. Advances in Materials Science and Engineering, 2015, 2015, 1-13.	1.0	21
26	On the correlation between microstructural evolution and ultrasonic properties: a review. Journal of Materials Science, 2015, 50, 2643-2665.	1.7	67
27	Characterization of Aging Behavior of AA6061 Aluminum Alloy Through Destructive and Ultrasonic Non-destructive Testing Techniques. Transactions of the Indian Institute of Metals, 2015, 68, 561-569.	0.7	4
28	A review on thermophysical evaluation of alkali-activated geopolymers. Ceramics International, 2015, 41, 4273-4281.	2.3	67
29	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
30	Three-Dimensional Finite Element Modeling of Thermomechanical Problems in Functionally Graded Hydroxyapatite/Titanium Plate. Mathematical Problems in Engineering, 2014, 2014, 1-20.	0.6	44
31	Condition Structural Index using Principal Component Analysis for undamaged, damage and repair conditions of carbon fiberâ€“reinforced plastic laminate. Journal of Intelligent Material Systems and Structures, 2014, 25, 575-584.	1.4	7
32	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. Renewable and Sustainable Energy Reviews, 2014, 35, 23-30.	8.2	25
33	Carbothermal nitridation process of mechanically milled silica sand using Taguchi's method. Ceramics International, 2013, 39, 6119-6130.	2.3	3
34	Elastic Contact Analysis of Functionally Graded Brake Disks Subjected to Thermal and Mechanical Loads. International Journal for Computational Methods in Engineering Science and Mechanics, 2013, 14, 10-23.	1.4	7
35	A review on the vibration analysis for a damage occurrence of a cantilever beam. Engineering Failure Analysis, 2013, 31, 442-461.	1.8	103
36	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

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37	Computational Study on the Aerodynamic Performance of Wind Turbine Airfoil Fitted with CoandÄƒ Jet. Journal of Renewable Energy, 2013, 2013, 1-17.	2.1	13
38	Finite Element Calculation of Residual Thermal Stresses for Functionally Graded Hydroxyapatite-Titanium Plate Design. Academic Platform Journal of Engineering and Science, 2013, 1, 1-10.	0.5	2
39	Damage Identification and Classification in CFRP Laminates â€“ A SEM Based Study. Applied Mechanics and Materials, 2012, 225, 138-143.	0.2	0
40	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
41	Finite element validation on adhesive joint for composite fuselage model. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2012, 34, 69-74.	0.8	10
42	Ballistic impact performance of Kevlar-29 and Al2O3 powder/epoxy targets under high velocity impact. Materials & Design, 2012, 35, 12-19.	5.1	60
43	A framework for weighting of criteria in ranking stage of material selection process. International Journal of Advanced Manufacturing Technology, 2012, 58, 411-420.	1.5	189
44	Free vibration analysis of solar functionally graded plates with temperature-dependent material properties using second order shear deformation theory. Journal of Mechanical Science and Technology, 2011, 25, 2195-2209.	0.7	48
45	A comprehensive VIKOR method for material selection. Materials & Design, 2011, 32, 1215-1221.	5.1	249
46	Deflection Analysis of the Thin-Web Workpiece Structure Using Similarity Concept. Advanced Materials Research, 2011, 337, 479-488.	0.3	2
47	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
48	Natural Frequency of F.G. Rectangular Plate by Shear Deformation Theory. IOP Conference Series: Materials Science and Engineering, 2011, 17, 012008.	0.3	10
49	Preliminary study on the fabrication of aluminium foam through pressure assisted sintering dissolution process. Journal of Materials Processing Technology, 2010, 210, 1598-1612.	3.1	11
50	Material screening and choosing methods â€“ A review. Materials & Design, 2010, 31, 696-705.	5.1	272
51	Material selection based on ordinal data. Materials & Design, 2010, 31, 3180-3187.	5.1	87
52	Transient and thermal contact analysis for the elastic behavior of functionally graded brake disks due to mechanical and thermal loads. Materials & Design, 2010, 31, 4655-4665.	5.1	32
53	Finite element analysis of thermoelastic contact problem in functionally graded axisymmetric brake disks. Composite Structures, 2010, 92, 1591-1602.	3.1	44
54	Second-Order Shear Deformation Theory to Analyze Stress Distribution for Solar Functionally Graded Plates[#]. Mechanics Based Design of Structures and Machines, 2010, 38, 348-361.	3.4	33

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55	On the Crush Behavior of an Ultra Light Multi-Cell Foam-Filled Composite Structure under Axial Compression. Journal of Reinforced Plastics and Composites, 2010, 29, 391-408.	1.6	3
56	Finite element analysis of composites materials for aerospace applications. IOP Conference Series: Materials Science and Engineering, 2010, 11, 012010.	0.3	28
57	Computational Investigation of Crack Behavior in Friction Stir Welding. Simulation, 2009, 85, 45-59.	1.1	8
58	A double-cell foam-filled composite block for efficient energy absorption under axial compression. Composite Structures, 2009, 89, 399-407.	3.1	20
59	Damage Identification and Localization of Carbon Fiberâ€"Reinforced Plastic Composite Plate Using Outlier Analysis and Multilayer Perceptron Neural Network. , 2009, , 79-113.		1
60	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
61	Damage Localisation in a Stiffened Composite Panel. Strain, 2008, 44, 298-307.	1.4	20
62	Damage Detection Using Prior Wavelet Decompositions. Key Engineering Materials, 2007, 347, 145-150.	0.4	0
63	Damage location in an isotropic plate using a vector of novelty indices. Mechanical Systems and Signal Processing, 2007, 21, 1885-1906.	4.4	24
64	Damage Detection Using Stress Waves and Multivariate Statistics: an Experimental Case Study of an Aircraft Component. Strain, 2007, 43, 47-53.	1.4	12
65	Structural Health Monitoring of an Annular Component using a Statistical Approach. Strain, 2005, 41, 117-127.	1.4	35
66	A computerâ€based intelligent system for fault diagnosis of an aircraft engine. Engineering Computations, 2004, 21, 78-90.	0.7	18
67	A prototype knowledge-based system for material selection of ceramic matrix composites of automotive engine components. Materials & Design, 2002, 23, 701-708.	5.1	44
68	Optimal Sintering Procedure to Fabrication of Functionally Graded Hydroxyapatite-Titanium. Key Engineering Materials, 0, 471-472, 140-144.	0.4	3
69	Thermal Buckling and Post-Buckling Improvements of Laminated Composite Plates Using Finite Element Method. Key Engineering Materials, 0, 471-472, 536-541.	0.4	11
70	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
71	High Velocity Impact Damage Analysis for Glass Epoxy-Laminated Plates. Advanced Materials Research, 0, 399-401, 2318-2328.	0.3	4
72	Parametric Study on Cohesive Element for Composite Fuselage Model. Key Engineering Materials, 0, 471-472, 1085-1090.	0.4	0

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73	Preliminary Review of Biocomposites Materials for Aircraft Radome Application. Key Engineering Materials, 0, 471-472, 563-567.	0.4	40
74	A Structural Health Monitoring of a Pitch Catch Active Sensing of PZT Sensor on Normal, Damage and Repair Aircraft Spoiler. Key Engineering Materials, 0, 471-472, 1124-1129.	0.4	2
75	Buckling and Post-Buckling Improvements of Laminated Composite Plates Using Finite Element Method. Key Engineering Materials, 0, 471-472, 530-535.	0.4	2
76	Thermal Free Vibration Analysis of Temperature-Dependent Functionally Graded Plates Using Second Order Shear Deformation. Key Engineering Materials, 0, 471-472, 133-139.	0.4	4
77	A Preliminary Study on Translational Kinetic Energy Absorption Using Coconut-Fiber (Coir) Sheets as a Potential Impact-Worthy Constituent in Advanced Aerospace Material. Key Engineering Materials, 0, 471-472, 1028-1033.	0.4	4
78	Critical Speeds for Carbon/Epoxy Composite Rotors in Spacecraft Energy Storage Applications. Key Engineering Materials, 0, 471-472, 37-42.	0.4	1
79	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
80	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
81	Damage Classification in CFRP Laminates Using Principal Component Analysis (PCA) Approach. Applied Mechanics and Materials, 0, 225, 189-194.	0.2	0
82	Computational Simulation for Static and Dynamic Load of Rectangular Plate in Elastic Region for Analysis of Impact Resilient Structure. Applied Mechanics and Materials, 0, 225, 150-157.	0.2	4
83	A Comparative Study of an Aircraft Radome Closed Mold through Vacuum Infusion Technique. Advanced Materials Research, 0, 576, 690-694.	0.3	2
84	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
85	The Effect of Layers and Bullet Type on Impact Properties of Glass Fibre Reinforced Polymer (GFRP) Using a Single Stage Gas Gun (SSGG). Applied Mechanics and Materials, 0, 564, 428-433.	0.2	4
86	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
87	High Velocity Impact Test on Glass Fibre Reinforced Polymer (GFRP) Using a Single Stage Gas Gun (SSGG) - An Experimental Based Approach. Applied Mechanics and Materials, 0, 564, 376-381.	0.2	3
88	Impact Damage Analysis for Glass Reinforced Epoxy Laminated Plates Using Single Stage Gas Gun. Applied Mechanics and Materials, 0, 564, 382-387.	0.2	3
89	Effect of Sintering Temperature on Functionally Graded Nickel/Alumina Plate. Applied Mechanics and Materials, 0, 629, 437-443.	0.2	5
90	Fabrication Technique for Bio-Composite Patch Repair on Laminated Structures of CFRP Plate. Applied Mechanics and Materials, 0, 564, 366-371.	0.2	3

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91	Fire Retardant Performance of Rice Husk Ash-Based Geopolymer Coated Mild Steel - A Factorial Design and Microstructure Analysis. Materials Science Forum, 0, 841, 48-54.	0.3	9
92	A â€œNEW NORMALâ€•CONCEPTUAL APPROACH; AUGMENTED REALITY (AR) TOURISM IN TERENGGANU. , 0, , .		1