

# Al Emran Ismail

## List of Publications by Year in descending order

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131  
papers

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1464605

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docs citations

136  
times ranked

318  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on femoropopliteal arterial deformation during daily lives and nickel-titanium stent properties. Journal of Medical Engineering and Technology, 2022, 46, 300-317.	0.8	4
2	Hybridization Effect on Crashworthiness Parameters of Natural Composite. Frontiers in Materials, 2021, 8, .	1.2	0
3	Preparation and Physicochemical Characterization of a Diclofenac Sodium-Dual Layer Polyvinyl Alcohol Patch. Polymers, 2021, 13, 2459.	2.0	24
4	Preliminary of finite element analysis (FEA) investigation on the stent expansion. IOP Conference Series: Materials Science and Engineering, 2020, 824, 012005.	0.3	0
5	Static and Dynamic Analysis of Selective Leverage System Gear Train. Journal of Computational and Theoretical Nanoscience, 2020, 17, 1189-1195.	0.4	1
6	Artificial Neural Network Application for Damages Classification in Fibreglass Pre-impregnated Laminated Composites (FGLC) from Ultrasonic Signal. Lecture Notes in Electrical Engineering, 2019, , 567-573.	0.3	1
7	Computationally efficient modeling of woven composites under uniaxial stress. , 2019, , 103-114.		0
8	Progressive damage modeling of synthetic fiber polymer composites under ballistic impact. , 2019, , 115-132.		4
9	Roles of layers and fiber orientations on the mechanical durability of hybrid composites. , 2019, , 41-56.		0
10	Calculating of stress intensity factors of soldered joints with multiple cracks. Indonesian Journal of Electrical Engineering and Computer Science, 2019, 14, 284.	0.7	1
11	Evaluation System on Haemodynamic Parameters for Stented Carotid Artery: Stent Pictorial Selection Method. International Journal of Integrated Engineering, 2019, 11, .	0.2	0
12	Composition and Type of a Binder Effects on the Stainless Steel Foam Microstructure Prepared by Sponge Replication Method. International Journal of Integrated Engineering, 2019, 11, .	0.2	0
13	Investigation on Dynamics Characteristic of Multilayer Steel Plate Impacted by Projectile. International Journal of Integrated Engineering, 2019, 11, .	0.2	0
14	Catalytic aided electrical discharge machining of polycrystalline diamond - parameter analysis of finishing condition. IOP Conference Series: Materials Science and Engineering, 2018, 295, 012042.	0.3	2
15	The axial crushes behaviour on foam-filled round Jute/Polyester composite tubes. IOP Conference Series: Materials Science and Engineering, 2018, 342, 012058.	0.3	0
16	Quasi-static axial crushes on woven jute/polyester AA6063T52 composite tubes. IOP Conference Series: Materials Science and Engineering, 2018, 342, 012064.	0.3	0
17	Hardness and wear rate of Al LM6 hollow cylinder fabricated using horizontal centrifugal casting. Journal of Physics: Conference Series, 2018, 1049, 012042.	0.3	1
18	Finite element modelling of AA6063T52 thin-walled tubes under quasi-static axial loading. IOP Conference Series: Materials Science and Engineering, 2018, 342, 012065.	0.3	1

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19	Numerical Simulation in Transient Flow of Non-Newtonian Fluid in Nozzles. International Journal of Integrated Engineering, 2018, 10, .	0.2	1
20	Thermal Gradient Pattern of Shallow Pitting Via Active Thermography-Water and Steam. International Journal of Integrated Engineering, 2018, 10, .	0.2	3
21	Effect of Perforation Size on Sound Absorption Characteristics of Membrane Absorber. International Journal of Integrated Engineering, 2018, 10, .	0.2	6
22	Mechanical Performances of Twill Kenaf Woven Fiber Reinforced Polyester Composites. International Journal of Integrated Engineering, 2018, 10, .	0.2	4
23	An Overview of Fracture Mechanics with ANSYS. International Journal of Integrated Engineering, 2018, 10, .	0.2	5
24	Crushing Performances of Axially Compressed Woven Kenaf Fiber Reinforced Cylindrical Composites. International Journal of Integrated Engineering, 2018, 10, .	0.2	2
25	Lumped Parameter Modelling in Femoral Popliteal Artery for Normal and Severe Conditions. International Journal of Integrated Engineering, 2018, 10, .	0.2	1
26	Classification of Damage Severity in Natural Fibre Composites Using Principal Component Analysis. International Journal of Integrated Engineering, 2018, 10, .	0.2	1
27	Axial quasi-static crushing behaviour of cylindrical woven kenaf fiber reinforced composites. IOP Conference Series: Materials Science and Engineering, 2017, 165, 012004.	0.3	0
28	Fracture Energy of Woven Fabric Kenaf Composite Plates with Different Fiber Orientations. Materials Science Forum, 2017, 882, 56-60.	0.3	0
29	Numerical simulation of hybrid composite tubes under oblique compression. World Journal of Engineering, 2017, 14, 173-177.	1.0	3
30	Impact Strength of Different Weaving Patterns of Woven Kenaf Reinforced Polyester Composites. IOP Conference Series: Materials Science and Engineering, 2017, 165, 012011.	0.3	1
31	Residual stresses in shape memory alloy fiber reinforced aluminium matrix composite. IOP Conference Series: Materials Science and Engineering, 2017, 165, 012002.	0.3	0
32	Morphology studies of hydrophobic silica on filter surface prepared via spray technique. IOP Conference Series: Materials Science and Engineering, 2017, 226, 012167.	0.3	0
33	Influence of hydrophobic surface treatment toward performance of air filter. IOP Conference Series: Materials Science and Engineering, 2017, 226, 012170.	0.3	1
34	Effect of solvent concentration on performance of polysulfone membrane for filtration and separation. IOP Conference Series: Materials Science and Engineering, 2017, 226, 012171.	0.3	1
35	Dissolution Behaviour of Metal Elements from Several Types of E-waste Using Leaching Test. IOP Conference Series: Materials Science and Engineering, 2017, 226, 012166.	0.3	0
36	Oblique crushing performances of hybrid woven Kenaf fibre reinforced aluminium hollow cylinder. MATEC Web of Conferences, 2017, 108, 01006.	0.1	1

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37	Effect of Rotating Mold Speed on Microstructure of Al LM6 Hollow Cylinder Fabricated Using Centrifugal Method. Journal of Physics: Conference Series, 2017, 914, 012039.	0.3	1
38	An Evaluation of Mechanical Properties on Kenaf Natural Fiber/Polyester Composite Structures as Table Tennis Blade. Journal of Physics: Conference Series, 2017, 914, 012015.	0.3	7
39	Review of CO <sub>2</sub> Reduction Technologies using Mineral Carbonation of Iron and Steel Making Slag in Malaysia. Journal of Physics: Conference Series, 2017, 914, 012012.	0.3	5
40	Eco-design of low energy mechanical milling through implementation of quality function deployment and design for sustainability. , 2017, , .		1
41	The Effect of Cutting Speed and Feed Rate on Surface Roughness and Tool Wear when Machining Machining D2 Steel. Materials Science Forum, 2017, 909, 80-85.	0.3	5
42	Periodic Boundary Condition Technique on Carbon Fibre Composites. Journal of Physics: Conference Series, 2017, 914, 012045.	0.3	2
43	Technology Model of Aquaculture Production System. Journal of Physics: Conference Series, 2017, 914, 012040.	0.3	0
44	A review of stent™s failure on patent ductus arteriosus. IOP Conference Series: Materials Science and Engineering, 2017, 165, 012007.	0.3	1
45	Application of design for six sigma methodology on portable water filter that uses membrane filtration system: A preliminary study. IOP Conference Series: Materials Science and Engineering, 2017, 243, 012048.	0.3	3
46	Influence of Alkali Resistant (Ar) Fibreglass in Porcelain Clay for Manufacturing Vitrified Clay Pipes. Journal of Physics: Conference Series, 2017, 914, 012020.	0.3	0
47	Flow Characteristics Near to Stent Strut Configurations on Femoropopliteal Artery. IOP Conference Series: Materials Science and Engineering, 2017, 226, 012147.	0.3	3
48	Optimization of Sound Absorbers Number and Placement in an Enclosed Room by Finite Element Simulation. Journal of Physics: Conference Series, 2017, 914, 012037.	0.3	1
49	A review on fracture prevention of stent in femoropopliteal artery. IOP Conference Series: Materials Science and Engineering, 2017, 165, 012006.	0.3	1
50	Numerical modelling of steel tubes under oblique crushing forces. IOP Conference Series: Materials Science and Engineering, 2017, 226, 012012.	0.3	0
51	Investigation on Suitability of Natural Fibre as Replacement Material for Table Tennis Blade. IOP Conference Series: Materials Science and Engineering, 2017, 226, 012037.	0.3	3
52	Computational Analysis on Stent Geometries in Carotid Artery: A Review. IOP Conference Series: Materials Science and Engineering, 2017, 165, 012003.	0.3	3
53	Mode I stress intensity factors of slanted cracks in plates. IOP Conference Series: Materials Science and Engineering, 2017, 165, 012008.	0.3	2
54	A Review on the Perforated Impact Energy Absorption of Kenaf Fibres Reinforced Composites. Journal of Physics: Conference Series, 2017, 914, 012044.	0.3	3

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55	Binder effect on seashell structure. AIP Conference Proceedings, 2017, , .	0.3	0
56	Electrical Discharge Machining of Polycrystalline Diamond Using Copper Electrode - Finishing Condition. IOP Conference Series: Materials Science and Engineering, 2017, 203, 012019.	0.3	4
57	Modelling Dynamic Behaviour and Spall Failure of Aluminium Alloy AA7010. Journal of Physics: Conference Series, 2017, 914, 012033.	0.3	0
58	Effect of triggering angles on the crushing mechanisms of hybrid woven kenaf/aluminum hollow cylinders. Journal of Physics: Conference Series, 2017, 914, 012034.	0.3	0
59	Stress intensity factors and interaction of two parallel surface cracks on cylinder under tension. IOP Conference Series: Materials Science and Engineering, 2017, 165, 012009.	0.3	2
60	Design and Development of a Portable Metal Chip Baler using A System Design Approach. MATEC Web of Conferences, 2017, 135, 00018.	0.1	1
61	Inter-Rater Reliability of the New Observational Method for Assessing an Exposure to Risk Factors Related to Work-Related Musculoskeletal Disorders (WMSDS). MATEC Web of Conferences, 2017, 135, 00024.	0.1	2
62	The Influence of Injection Molding Parameter on Properties of Thermally Conductive Plastic. IOP Conference Series: Materials Science and Engineering, 2017, 203, 012018.	0.3	0
63	Deflection of elastic beam with SMA wires eccentrically inserted. IOP Conference Series: Materials Science and Engineering, 2017, 226, 012016.	0.3	1
64	Solutions of Stress Intensity Factors of Multiple Internal Axial Cracks in Hollow Cylinders. IOP Conference Series: Materials Science and Engineering, 2017, 165, 012001.	0.3	1
65	Interactions of double slanted cracks under mode I loading. MATEC Web of Conferences, 2017, 108, 12003.	0.1	0
66	Preliminary Study on Kano Model in the Conceptual Design Activities for Product Lifecycle Improvement. IOP Conference Series: Materials Science and Engineering, 2017, 226, 012022.	0.3	2
67	Stress Intensity Factors of Slanted Cracks in Bi-Material Plates. Journal of Physics: Conference Series, 2017, 914, 012043.	0.3	2
68	Optimization on Impact Strength of Woven Kenaf Reinforced Polyester Composites using Taguchi Method. IOP Conference Series: Materials Science and Engineering, 2017, 165, 012010.	0.3	0
69	Combined mode I stress intensity factors of slanted cracks. IOP Conference Series: Materials Science and Engineering, 2017, 226, 012011.	0.3	3
70	A model for predicting J-integral of surface cracks in round bars under combined mode I loading. IOP Conference Series: Materials Science and Engineering, 2017, 226, 012015.	0.3	0
71	Effect of Hybridized Fiber Wrapped Around the Aluminum Tubes on the Crushing Performances. IOP Conference Series: Materials Science and Engineering, 2016, 160, 012019.	0.3	0
72	CRUSHING MECHANISMS OF CYLINDRICAL WINDING KENAF FIBER REINFORCED COMPOSITES. Jurnal Teknologi (Sciences and Engineering), 2016, 78, .	0.3	3

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73	The Effect of Customized Woven and Stacked Layer Orientation on Tensile and Flexural Properties of Woven Kenaf Fibre Reinforced Epoxy Composites. International Journal of Polymer Science, 2016, 2016, 1-11.	1.2	19
74	Fracture toughness of woven kenaf fibre reinforced composites. IOP Conference Series: Materials Science and Engineering, 2016, 160, 012020.	0.3	2
75	Stress intensity factors of double edge cracks in large groove plates under mode I tension. IOP Conference Series: Materials Science and Engineering, 2016, 152, 012049.	0.3	1
76	Implementation of Finite Strain-Based Constitutive Formulation in LLLNL-DYNA3D to Predict Shockwave Propagation in Commercial Aluminum Alloys AA7010. IOP Conference Series: Materials Science and Engineering, 2016, 160, 012023.	0.3	0
77	Development in Geared Turbofan Aeroengine. IOP Conference Series: Materials Science and Engineering, 2016, 131, 012019.	0.3	2
78	Mode I stress intensity factors of sickle-shaped surface cracks in round solid bars under bending moment. International Journal of Automotive and Mechanical Engineering, 2016, 13, 3329-3344.	0.5	4
79	Axial Energy Absorption of Kenaf Yarn Winding Cylindrical Composites. Applied Mechanics and Materials, 2015, 773-774, 123-128.	0.2	1
80	Stress intensity factors of slanted cracks in round bars subjected to mode I tension loading. AIP Conference Proceedings, 2015, , .	0.3	6
81	Stress intensity factors of eccentric cracks in bi-materials plate under mode I loading. AIP Conference Proceedings, 2015, , .	0.3	2
82	Effect of Mechanical Mismatch on the Stress Intensity Factors of Inclined Cracks under Mode I Tension Loading. Applied Mechanics and Materials, 2015, 773-774, 129-133.	0.2	0
83	Oblique Perforated Impact Strength of Woven Kenaf Fiber Reinforced Composites. Applied Mechanics and Materials, 2015, 773-774, 48-52.	0.2	0
84	Fatigue strength of woven kenaf fiber reinforced composites. IOP Conference Series: Materials Science and Engineering, 2015, 100, 012037.	0.3	10
85	Perforated Impact Strength of Woven Kenaf Fiber Reinforced Composites. Applied Mechanics and Materials, 2015, 773-774, 43-47.	0.2	2
86	Crushing Behaviour of Empty Steel Tubes under Eccentric Loading. Advanced Materials Research, 2015, 1087, 16-19.	0.3	1
87	A Review on Effect of Orientation Fabric on Mechanical Energy Absorption Natural Fibres Reinforced Composites. Applied Mechanics and Materials, 2015, 773-774, 134-138.	0.2	6
88	Tensile strength of woven yarn kenaf fiber reinforced polyester composites. Journal of Mechanical Engineering and Sciences, 2015, 9, 1695-1704.	0.3	33
89	J-Integral Evaluation of Surface Cracks in Round Bar under Mode III Loadings. Research Journal of Applied Sciences, Engineering and Technology, 2014, 7, 1985-1993.	0.1	3
90	Stress Intensity Factors of Eccentric Cracks in Bi-Material Plates. Applied Mechanics and Materials, 2014, 663, 98-102.	0.2	3

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91	Multiple Crack Interactions in Bi-Material Plates under Mode I Tension Loading. Applied Mechanics and Materials, 2014, 629, 57-61.	0.2	6
92	A Platform for Digital Reproduction Sound of Traditional Musical Instrument Kompang. Applied Mechanics and Materials, 2014, 660, 823-827.	0.2	5
93	Ungkapan Kamiran-J Retak Permukaan pada Bar Silinder Padu Kenaan Beban Ragam I. Jurnal Teknologi (Sciences and Engineering), 2014, 68, .	0.3	3
94	Development of J-Integral Prediction Model for Surface Cracks in Round Bars under Combined Loadings. Applied Mechanics and Materials, 2013, 315, 665-669.	0.2	9
95	Stress intensity factors of three parallel edge cracks under bending moments. IOP Conference Series: Materials Science and Engineering, 2013, 50, 012020.	0.3	5
96	Probabilistic analysis of surface crack in round bars under bending moments. , 2012, , .		0
97	Sensitivity of Modeling in Sheet Metal Three-Point Cyclic Bending. Applied Mechanics and Materials, 2012, 165, 187-191.	0.2	0
98	Stress intensity factors under combined bending and torsion moments. Journal of Zhejiang University: Science A, 2012, 13, 1-8.	1.3	15
99	Stress intensity factors for surface cracks in round bar under single and combined loadings. Meccanica, 2012, 47, 1141-1156.	1.2	39
100	Probabilistic Assessments of the Plate Using Monte Carlo Simulation. IOP Conference Series: Materials Science and Engineering, 2011, 17, 012029.	0.3	1
101	Probabilistic High Cycle Multiaxial Fatigue Analysis Using Finite Element Method. HKIE Transactions, 2011, 18, 13-18.	1.9	4
102	Off-set crack propagation analysis under mixed mode loadings. International Journal of Automotive Technology, 2011, 12, 225-232.	0.7	13
103	J-Integral Evaluation in Two Dimensional Interacting Cracks. Advanced Materials Research, 2011, 214, 55-59.	0.3	1
104	Stress and Probabilistic Study of the Lumbar Vertebra under Compression Loading. Applied Mechanics and Materials, 2011, 52-54, 1394-1399.	0.2	1
105	J-Integral Analysis of Surface Cracks in Round Bars under Bending Moments. Applied Mechanics and Materials, 2011, 52-54, 43-48.	0.2	1
106	Computation of Mixed Mode Stress Intensity Factor for Parallel Edge Cracks. Applied Mechanics and Materials, 2011, 52-54, 1326-1331.	0.2	2
107	Tensile Strength of Natural Fiber Reinforced Polyester Composite. , 2011, , .		3
108	Fatigue Failure Analysis Using the Theory of Critical Distance. Key Engineering Materials, 2011, 462-463, 663-667.	0.4	4

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109	EXPERIMENTAL STUDIES ON THE QUASI-STATIC AXIAL CRUSHING BEHAVIOR OF FOAM-FILLED STEEL EXTRUSION TUBES. IJUM Engineering Journal, 2010, 10, 1-17.	0.5	3
110	Elastic-Plastic Analysis of Surface Crack in Round Bars under Torsion. Key Engineering Materials, 0, 462-463, 651-656.	0.4	2
111	Finite Element Analysis on the Stress Intensity Factor under Combined Bending and Torsion Loading. Key Engineering Materials, 0, 462-463, 1325-1330.	0.4	0
112	Mode III Stress Intensity Factors of Surface Crack in Round Bars. Advanced Materials Research, 0, 214, 192-196.	0.3	12
113	J-Integral Analysis of Surface Cracks in Round Bars under Tension Loadings. Applied Mechanics and Materials, 0, 52-54, 37-42.	0.2	0
114	Fatigue Crack Growth Prediction of Thick Wall Cylinder under Variable Amplitude Loading. Key Engineering Materials, 0, 462-463, 1337-1342.	0.4	0
115	J-Integral Analysis of Surface Cracks in Round Bars under Combined Loadings. Advanced Materials Research, 0, 214, 187-191.	0.3	1
116	Computation of Stress Intensity Factor for Multiple Cracks Using Singular Finite Element. Advanced Materials Research, 0, 214, 75-79.	0.3	1
117	Effects of Foam Density and Wall Thickness Interactions on the Energy Absorption Performances. Applied Mechanics and Materials, 0, 393, 393-396.	0.2	6
118	A Study of Energy Absorption Performances of Pultruded Composites under Quasi-Static Compressive Loadings. Applied Mechanics and Materials, 0, 465-466, 662-666.	0.2	6
119	Effect of Velocity on the Impact Resistance of Woven Jute Fiber Reinforced Composites. Applied Mechanics and Materials, 0, 465-466, 1277-1281.	0.2	14
120	Investigation on the Stress Behaviour of Coating-Substrate Interface under Contact Loading. Applied Mechanics and Materials, 0, 465-466, 1319-1323.	0.2	0
121	Modelling Analysis on Mechanical Damage of Kenaf Reinforced Composite Plates under Oblique Impact Loadings. Applied Mechanics and Materials, 0, 465-466, 1324-1328.	0.2	15
122	Development of Course Management and Monitoring System as a Quality Tools in Engineering Education. Applied Mechanics and Materials, 0, 465-466, 395-400.	0.2	4
123	Probabilistic Analysis of Surface Crack in Round Bars under Tension Loading. Applied Mechanics and Materials, 0, 315, 655-659.	0.2	1
124	Feasibility Study of Waste Motor Recycling through Manual Dismantling and Hydrometallurgical Process. Key Engineering Materials, 0, 594-595, 990-995.	0.4	2
125	J-Integral Prediction for Semi-Elliptical Surface Cracks in Round Bars Subjected to Torsion Moment. Applied Mechanics and Materials, 0, 699, 295-299.	0.2	0
126	Low Velocity Impact on Woven Kenaf Fiber Reinforced Composites. Applied Mechanics and Materials, 0, 629, 503-506.	0.2	12

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127	A Study of Auto Pour in Sand Casting Process. Applied Mechanics and Materials, 0, 660, 74-78.	0.2	3
128	Modelling High Velocity Impact on Aluminium Alloy 7075-T6 under Axial Pretension. Applied Mechanics and Materials, 0, 629, 498-502.	0.2	3
129	Crushing Behaviour of Empty Steel Tubes under Oblique Loading. Advanced Materials Research, 0, 1087, 11-15.	0.3	1
130	Challenges for Kenaf Fiber as a Reinforcement: A Review. Applied Mechanics and Materials, 0, 773-774, 149-153.	0.2	5
131	Effect of Pressure on the CO <sub>2</sub> Absorption into Ladle Furnace Slag. Materials Science Forum, 0, 888, 508-512.	0.3	2