

# Amran B Ayob

## List of Publications by Year in descending order

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35  
papers

396  
citations

840585

11  
h-index

839398

18  
g-index

35  
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35  
docs citations

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times ranked

348  
citing authors

#	ARTICLE	IF	CITATIONS
1	Flatwise compression and flexural behavior of foam core and polymer pin-reinforced foam core composite sandwich panels. <i>International Journal of Mechanical Sciences</i> , 2014, 88, 138-144.	3.6	49
2	Effects of temperature change and beverage on mechanical and tribological properties of dental restorative composites. <i>Materials Science and Engineering C</i> , 2015, 54, 69-75.	3.8	44
3	Paraffinic mineral oil lubrication for cold forward extrusion: Effect of lubricant quantity and friction. <i>Tribology International</i> , 2013, 60, 111-115.	3.0	38
4	Comparison of foam core sandwich panel and through-the-thickness polymer pin-reinforced foam core sandwich panel subject to indentation and flatwise compression loadings. <i>Polymer Composites</i> , 2016, 37, 612-619.	2.3	23
5	Uniaxial and biaxial ratcheting behavior of pressurized AISI 316L pipe under cyclic loading: Experiment and simulation. <i>International Journal of Mechanical Sciences</i> , 2020, 179, 105693.	3.6	22
6	Mechanical properties of potentially-smart carbon/epoxy composites with asymmetrically embedded shape memory wires. <i>Materials &amp; Design</i> , 2014, 59, 486-493.	5.1	21
7	A novel systematic numerical approach on determination of heat source parameters in welding process. <i>Journal of Materials Research and Technology</i> , 2022, 18, 4427-4444.	2.6	20
8	Evaluation of Sensitivity and Calibration of the Chaboche Kinematic Hardening Model Parameters for Numerical Ratcheting Simulation. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2578.	1.3	19
9	Flexural and free vibration control of smart epoxy composite beams using shape memory alloy wires actuator. <i>Journal of Intelligent Material Systems and Structures</i> , 2020, 31, 1557-1566.	1.4	17
10	A novel smart assistive knee brace incorporated with shape memory alloy wire actuator. <i>Journal of Intelligent Material Systems and Structures</i> , 2020, 31, 1543-1556.	1.4	14
11	Multi-objective optimisation of electrical discharge machining of metal matrix composite Al/SiC using non-dominated sorting genetic algorithm. <i>International Journal of Mechatronics and Manufacturing Systems</i> , 2012, 5, 385.	0.1	13
12	Thermal response analysis and parameter prediction of additively manufactured polymers. <i>Applied Thermal Engineering</i> , 2022, 212, 118533.	3.0	11
13	The interaction of pressure, in-plane moment and torque loadings on piping elbows. <i>International Journal of Pressure Vessels and Piping</i> , 2003, 80, 861-869.	1.2	10
14	Mechanical Behavior of GFRP Laminated Composite Pipe Subjected to Uniform Radial Patch Load. <i>Advanced Materials Research</i> , 0, 488-489, 542-546.	0.3	10
15	Tensile Test Machine for Unsymmetrical Materials. <i>Experimental Mechanics</i> , 2014, 54, 689-694.	1.1	9
16	Influence of welding sequences on induced residual stress and distortion in pipes. <i>Construction and Building Materials</i> , 2022, 342, 127995.	3.2	9
17	Effect of Ply Thickness on Displacements and Stresses in Laminated GFRP Cylinder Subjected to Radial Load. <i>Advanced Materials Research</i> , 2012, 488-489, 367-371.	0.3	8
18	The Instability Improvement of the Symmetric Angle-Ply and Cross-Ply Composite Plates with Shape Memory Alloy Using Finite Element Method. <i>Advances in Mechanical Engineering</i> , 2014, 6, 632825.	0.8	7

#	ARTICLE	IF	CITATIONS
19	Thermo-mechanical behaviour of smart composite beam under quasi-static loading. <i>Composite Structures</i> , 2018, 201, 21-28.	3.1	7
20	Failure of Glass Fibre-Reinforced Polypropylene Metal Laminate Subjected to Close-Range Explosion. <i>Polymers</i> , 2020, 12, 2139.	2.0	7
21	Dynamic response of aluminium sheet 2024-T3 subjected to close-range shock wave: experimental and numerical studies. <i>Journal of Materials Research and Technology</i> , 2021, 10, 349-362.	2.6	6
22	Optimization of Machining Parameters during Drilling of 7075 Aluminium Alloy. <i>Applied Mechanics and Materials</i> , 0, 248, 20-25.	0.2	5
23	Modeling and optimization of cylindrical wire electro discharge machining of AISI D3 tool steel using non-dominated sorting genetic algorithm. <i>Proceedings of SPIE</i> , 2011, , .	0.8	4
24	The Instability Improvement of the Shape Memory Alloy Composite Plates Subjected to In-Plane Parabolic Temperature Distribution. <i>Applied Mechanics and Materials</i> , 2014, 554, 32-36.	0.2	4
25	Flexural behavior of functionally graded slender beams with complex cross-section. <i>Journal of Mechanics of Materials and Structures</i> , 2015, 10, 1-16.	0.4	4
26	Comparison of Intelligent Optimization Algorithms for Wire Electrical Discharge Machining Parameters. , 2011, , .		3
27	Static Analysis of Stitched Sandwich Beams with Functionally Graded Foam Core. <i>Applied Mechanics and Materials</i> , 2013, 393, 381-386.	0.2	3
28	Mechanical Behavior of Composite Multilayered Basalt/E-Glass/Epoxy Pipe under Internal Pressure. <i>Advanced Materials Research</i> , 0, 1125, 227-234.	0.3	3
29	The Effect of D/T on the Load Interaction Behavior of a Plain Pipe. <i>Journal of Pressure Vessel Technology</i> , <i>Transactions of the ASME</i> , 2004, 126, 518-522.	0.4	2
30	Dynamic Response of Laminated Composite Cylindrical Shell Subjected to Pure Impact. <i>Applied Mechanics and Materials</i> , 0, 229-231, 2577-2581.	0.2	1
31	Mechanical Behavior of Composite Plate under Combined Impact and Internal Pressure. <i>Applied Mechanics and Materials</i> , 0, 229-231, 732-736.	0.2	1
32	Flexural and tensile behaviour of kenaf fibre composite materials. <i>Materials Research Innovations</i> , 2014, 18, S6-184-S6-186.	1.0	1
33	Optimization of Graded Metallic Foam Subjected to Impulsive Loading through DOE Approach. , 2018, , .		1
34	Mechanical Response of Laminated Composite Cylindrical Shell Subjected to Radial Patch Loading. <i>Applied Mechanics and Materials</i> , 0, 229-231, 292-296.	0.2	0
35	Numerical Investigation of Hybrid of Eglass and Basalt Fiber Reinforced Epoxy Tube Pressurized Internally. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 638, 012012.	0.3	0