Abdellatif Imad

List of Publications by Year
in descending order

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		186265	223800
74	2,376	28	46
papers	citations	h-index	g-index

74	74	74	1905
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of Chemical treatment on Flexure Properties of Natural Fiber-reinforced Polyester Composite. Procedia Engineering, 2011, 10, 2092-2097.	1.2	255
2	A study of the mechanical behaviour of a glass fibre reinforced polyamide 6,6: Experimental investigation. Polymer Testing, 2006, 25, 544-552.	4.8	152
3	A ductile fracture analysis using a local damage model. International Journal of Pressure Vessels and Piping, 2008, 85, 219-227.	2.6	111
4	Mechanical, microstructural and fracture properties of dissimilar welds produced by friction stir welding of AZ31B and Al6061. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 651, 720-733.	5.6	107
5	Tensile mechanical properties and surface chemical sensitivity of technical fibres from date palm fruit branches (Phoenix dactylifera L.). Composites Part A: Applied Science and Manufacturing, 2015, 71, 95-106.	7.6	89
6	Title is missing!. International Journal of Fracture, 2002, 117, 1-23.	2.2	85
7	Computational thermal conductivity in porous materials using homogenization techniques: Numerical and statistical approaches. Computational Materials Science, 2015, 97, 148-158.	3.0	70
8	Effect of reinforcement shape on physical properties and representative volume element of particles-reinforced composites: Statistical and numerical approaches. Mechanics of Materials, 2015, 83, 1-16.	3.2	68
9	Numerical analysis of a ballistic impact on textile fabric. International Journal of Mechanical Sciences, 2013, 69, 32-39.	6.7	60
10	Numerical multi-scale modeling for textile woven fabric against ballistic impact. Computational Materials Science, 2011, 50, 2172-2184.	3.0	58
11	Effect of Frictions on the Ballistic Performance of a 3D Warp Interlock Fabric: Numerical Analysis. Applied Composite Materials, 2012, 19, 333-347.	2.5	56
12	On the prediction of the residual fatigue life of cracked structures repaired by the stop-hole method. International Journal of Fatigue, 2010, 32, 670-677.	5.7	52
13	Influence of the cyclic plastic zone size on the propagation of the fatigue crack in case of 12NC6 steel. Computational Materials Science, 2008, 43, 1010-1017.	3.0	51
14	Fatigue life estimation after crack repair in 6005 A-T6 aluminium alloy using the cold expansion hole technique. Fatigue and Fracture of Engineering Materials and Structures, 2000, 23, 911-916.	3.4	50
15	On the effect of inclusion shape on effective thermal conductivity of heterogeneous materials. Mechanics of Materials, 2016, 92, 28-41.	3.2	48
16	Investigation of the Date Palm Fiber for Green Composites Reinforcement: Thermo-physical and Mechanical Properties of the Fiber. Journal of Natural Fibers, 2021, 18, 717-734.	3.1	48
17	Modeling of the effect of particles size, particles distribution and particles number on mechanical properties of polymer-clay nano-composites: Numerical homogenization versus experimental results. Composites Part B: Engineering, 2016, 86, 135-142.	12.0	47
18	Experimental and numerical investigation of a 3D woven fabric subjected to a ballistic impact. International Journal of Impact Engineering, 2016, 88, 91-101.	5.0	45

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19	Effective transverse elastic properties of unidirectional fiber reinforced composites. Mechanics of Materials, 2016, 102, 47-53.	3.2	44
20	Microstructural observations and tensile fracture behavior of FSW twin roll cast AZ31 Mg sheets. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 649, 190-200.	5.6	44
21	Analysis on failure mechanisms of an interlock woven fabric under ballistic impact. Engineering Failure Analysis, 2011, 18, 2179-2187.	4.0	39
22	Short fiber reinforced composites: Unbiased full-field evaluation of various homogenization methods in elasticity. Composites Science and Technology, 2020, 187, 107942.	7.8	38
23	Estimation of the plastic zone by finite element method under mixed mode (I and II) loading. Computational Materials Science, 2007, 38, 595-601.	3.0	34
24	On analytical modelling to predict of the ballistic impact behaviour of textile multi-layer woven fabric. Composite Structures, 2013, 99, 462-476.	5.8	34
25	A multiscale approach and microstructure design of the elastic composite behavior reinforced with natural particles. Composites Part B: Engineering, 2014, 66, 247-254.	12.0	32
26	Experimental and numerical assessment of non-penetrating impacts on a composite protection and ballistic gelatine. International Journal of Impact Engineering, 2020, 136, 103417.	5.0	32
27	An experimental analysis of fracture mechanisms of short glass fibre reinforced polyamide 6,6 (SGFR-PA66). Composites Science and Technology, 2009, 69, 2521-2526.	7.8	31
28	Prediction of fatigue crack initiation lives at elongated notch roots using short crack concepts. International Journal of Fatigue, 2012, 42, 172-182.	5.7	31
29	Effective thermal and mechanical properties of randomly oriented short and long fiber composites. Mechanics of Materials, 2017, 107, 56-70.	3.2	31
30	On failure mode analysis in a bolted single lap joint under tension-shearing. Engineering Failure Analysis, 2012, 24, 9-25.	4.0	30
31	Observations of the mechanical response and evolution of damage of AA 6061-T6 under different strain rates and temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 624, 239-249.	5.6	30
32	Analysis of local and global localizations on the failure phenomenon of 3D interlock woven fabrics under ballistic impact. Composite Structures, 2017, 159, 267-277.	5.8	29
33	Rupture and damage mechanism analysis of a bolted assembly using coupling techniques between A.E. and D.I.C.. Engineering Structures, 2010, 32, 2793-2803.	5.3	28
34	Numerical study on the effects of yarn mechanical transverse properties on the ballistic impact behaviour of textile fabric. Journal of Strain Analysis for Engineering Design, 2012, 47, 524-534.	1.8	26
35	Effect of overlapping inclusions on effective elastic properties of composites. Mechanics Research Communications, 2013, 53, 24-30.	1.8	26
36	Temperature effects on wire-drawing process: experimental investigation. International Journal of Material Forming, 2009, 2, 229-232.	2.0	23

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37	On experimental investigation of failure process of woven-fabric composites. Composites Science and Technology, 2011, 71, 1375-1384.	7.8	23
38	On analysis of deformation and damage mechanisms of DYNEEMA composite under ballistic impact. Composite Structures, 2020, 253, 112791.	5.8	22
39	Investigation of the date palm fiber for green composites reinforcement: Quasi-static and fatigue characterization of the fiber. Industrial Crops and Products, 2020, 146, 112135.	5.2	22
40	Modeling of the effect of the void shape on effective ultimate tensile strength of porous materials: Numerical homogenization versus experimental results. International Journal of Mechanical Sciences, 2017, 130, 497-507.	6.7	21
41	Numerical modelling for prediction of ductile fracture of bolted structure under tension shear loading. Finite Elements in Analysis and Design, 2013, 67, 56-65.	3.2	17
42	Effect of Temperature on Microstructure and Fracture Mechanisms in Friction Stir Welded Al6061 Joints. Journal of Materials Engineering and Performance, 2017, 26, 2542-2554.	2.5	17
43	Effective yield surface of porous media with random overlapping identical spherical voids. Journal of Materials Research and Technology, 2018, 7, 103-117.	5.8	16
44	Void-growth computational analysis in elastic-plastic porous materials. International Journal of Mechanical Sciences, 2022, 217, 107021.	6.7	16
45	Experiments and numerical approaches to ductile tearing in an 2024-T351 aluminium alloy. International Journal of Mechanical Sciences, 2003, 45, 1849-1861.	6.7	15
46	Properties and characterization of novel 3D jute reinforced natural fibre aluminium laminates. Journal of Composite Materials, 2021, 55, 1879-1891.	2.4	15
47	The influence of the drawing parameters and temperature rise on the prediction of chevron crack formation in wire drawing. International Journal of Fracture, 2012, 176, 171-180.	2.2	14
48	Analysis of the transverse compressive behavior of Kevlar fibers using microscopic scale approach. International Journal of Mechanical Sciences, 2019, 164, 105149.	6.7	13
49	Design and numerical modeling of the thermoforming process of a WPC based formwork structure. Materials Today Communications, 2020, 22, 100805.	1.9	13
50	Experimental and numerical characterisation of rheological properties of a drop test response of a ballistic plastilina. Forensic Science International, 2020, 310, 110238.	2.2	11
51	Computation of effective behavior of isotropic transverse composite in nonlinear problems. Mechanics Research Communications, 2014, 59, 6-13.	1.8	9
52	Analysis of ductile tearing using a local approach to fracture. Fatigue and Fracture of Engineering Materials and Structures, 2009, 32, 525-530.	3.4	8
53	Fracture toughness prediction of a valve body: Numerical analysis. Engineering Failure Analysis, 2010, 17, 135-142.	4.0	8
54	A numerical modelling for resin transfer molding (RTM) process and effective thermal conductivity prediction of a particleâ€“filled composite carbonâ€“epoxy. Journal of Composite Materials, 2021, 55, 3-15.	2.4	8

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55	Real-time Measurement of Projectile Velocity in a Ballistic Fabric with a High-frequency Doppler Radar. Experimental Mechanics, 2021, 61, 533-547.	2.0	7
56	Damage mechanisms under tension shear loading in friction stir spot welding. Science and Technology of Welding and Joining, 2010, 15, 688-693.	3.1	6
57	An iterative analytical model for heterogeneous materials homogenization. Composites Part B: Engineering, 2018, 142, 56-67.	12.0	6
58	Ballistic impact response of a fluid/structure coupling-based modification of human thorax modelling. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 119, 104493.	3.1	6
59	A Viscoelastic-Plastic Behaviour Analysis of Expanded Polystyrene under Compressive Loading: Experiments and Modelling. Frontiers in Forests and Global Change, 2001, 20, 189-210.	1.1	5
60	Title is missing!. Strength of Materials, 2001, 33, 140-149.	0.5	5
61	Numerical Evaluation of the Thermal Properties of UD-Fibers Reinforced Composites for Different Morphologies. International Journal of Applied Mechanics, 2020, 12, 2050032.	2.2	5
62	On microscopic and homogenized macroscopic analysis of one KevlarÂ® KM2 yarn under transverse compressive loading. Mechanics Research Communications, 2020, 104, 103496.	1.8	5
63	Loading rate effect on mechanical properties of the jute yarns. Materials Today: Proceedings, 2021, 37, 3827-3833.	1.8	5
64	Influence of the ferrite rate on the tenacity of a welded joint in austenitic stainless steel: Experimental study and numerical modelling. Computational Materials Science, 2009, 45, 336-341.	3.0	4
65	CaractÃ©risation viscoÃ©lastique du comportement d'une membrane thermoplastique et modÃ©lisation numÃ©rique de thermoformage. Canadian Journal of Chemical Engineering, 2010, 88, 116-125.	1.7	4
66	Mode I stress intensity factor and T-stress by exponential matrix method. Theoretical and Applied Fracture Mechanics, 2019, 103, 102287.	4.7	3
67	Analysis of crack parameters under mixed mode loading by modified exponential matrix method. Theoretical and Applied Fracture Mechanics, 2019, 102, 30-45.	4.7	3
68	Numerical simulation of the crack shape for the thermo-mechanical loaded valve. Engineering Failure Analysis, 2011, 18, 1487-1495.	4.0	2
69	MULTI-SCALE MODEL TO PREDICT THE BALLISTIC IMPACT BEHAVIOR OF MULTI-LAYER PLAIN-WOVEN FABRICS. International Journal of Computational Methods, 2014, 11, 1343011.	1.3	2
70	Ballistic impact response of an alumina-based granular material: Experimental and numerical analyses. Powder Technology, 2021, 385, 273-286.	4.2	2
71	Experimental and numerical investigation of the dynamic behaviour of a ballistic plastilina using an adapted Taylor impact test. European Journal of Mechanics, A/Solids, 2022, 93, 104542.	3.7	2
72	Effect of Filler Metal Mechanical Properties on Fatigue Behaviour Welded Joints. Transactions of the Indian Institute of Metals, 2018, 71, 977-984.	1.5	1

#	Article	IF	Citations
73	Analysis of crack parameters under pure Mode II loading by modified exponential matrix method. Theoretical and Applied Fracture Mechanics, 2021, 111, 102820.	4.7	1
74	Title is missing!. Strength of Materials, 2001, 33, 42-51.	0.5	0