Fakhreddine Dammak

List of Publications by Year
in descending order

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43 papers	704 citations	430874 18 h-index	580821 25 g-index
44 all docs	44 docs citations	44 times ranked	404 citing authors

#	Article	IF	Citations
1	Post-buckling behavior of functionally graded and carbon-nanotubes based structures with different mechanical loadings. Mechanics Based Design of Structures and Machines, 2022, 50, 2997-3039.	4.7	33
2	Static bending analysis of beams made of functionally graded porous materials. Mechanics Based Design of Structures and Machines, 2022, 50, 1012-1029.	4.7	49
3	Finite Element Analysis of Nonlinear Behavior of FG Cantilever. Lecture Notes in Mechanical Engineering, 2022, , 76-83.	0.4	0
4	Experimental and Numerical Investigation of Hole-Flanging Process with Rubber Punch. Lecture Notes in Mechanical Engineering, 2022, , 262-268.	0.4	0
5	Determination of Hyper-viscoelastic Parameters of Elastomeric Materials. Lecture Notes in Mechanical Engineering, 2022, , 84-89.	0.4	1
6	Influence of Diameter of FGM Implant on Stress Distribution. Lecture Notes in Mechanical Engineering, 2022, , 49-55.	0.4	0
7	Identification of fully coupled non-associated-Ductile damage constitutive equations for thin sheet metal applications: Numerical feasibility and experimental validation. Thin-Walled Structures, 2022, 176, 109365.	5.3	20
8	Design optimization of implant geometrical characteristics enhancing primary stability using FEA of stress distribution around dental prosthesis. Computer Methods in Biomechanics and Biomedical Engineering, 2021, 24, 1035-1051.	1.6	22
9	Experimental and numerical methodology to characterize 5083-aluminium behavior considering non-associated plasticity model coupled with isotropic ductile damage. International Journal of Solids and Structures, 2021, 229, 111139.	2.7	23
10	Influence of Material Gradient Index on Stress Distribution of Functionally Graded Dental Implants. Lecture Notes in Mechanical Engineering, 2021, , 11-17.	0.4	0
11	Dynamic analysis of functionally graded carbon nanotubeâ€“reinforced shell structures with piezoelectric layers under dynamic loads. JVC/Journal of Vibration and Control, 2020, 26, 1157-1172.	2.6	30
12	A viscoelasticâ€“viscoplastic model with hygromechanical coupling for flax fibre reinforced polymer composites. Composites Science and Technology, 2020, 189, 108018.	7.8	9
13	Thermo-elastic buckling and post-buckling analysis of functionally graded thin plate and shell structures. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	37
14	Hygro-mechanical coupling and multiscale swelling coefficients assessment of flax yarns and flax / epoxy composites. Composites Part A: Applied Science and Manufacturing, 2020, 136, 105914.	7.6	17
15	Low Velocity Impact-and-Damage Study of DD13 Sheet Metal. Lecture Notes in Mechanical Engineering, 2020, , 468-476.	0.4	0
16	Flow Velocity Effect on the Hygrothermal Behavior of the Polyester/Glass Fiber Composite. Lecture Notes in Mechanical Engineering, 2020, , 102-109.	0.4	0
17	Numerical Investigation of Reverse Redrawing Process Using a Non Associated Flow Rule. Lecture Notes in Mechanical Engineering, 2020, , 460-467.	0.4	0
18	Homogenization of elasto-plastic functionally graded material based on representative volume element: Application to incremental forming process. International Journal of Mechanical Sciences, 2019, 160, 412-420.	6.7	34

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19	Experimental and numerical investigation of flexible bulging process of aluminum AA1050-H14 sheet metal with soft tools. International Journal of Advanced Manufacturing Technology, 2019, 103, 4837-4846.	3.0	10
20	Humidity diffusion through composite material under hydrostatic pressure. International Journal of Advanced Manufacturing Technology, 2019, 105, 1757-1764.	3.0	6
21	Numerical simulation of humidity diffusion through the polyester/glass fiber composite. International Journal of Advanced Manufacturing Technology, 2019, 105, 4237-4243.	3.0	2
22	Finite Element Simulation of Single Point Incremental Forming Process of Aluminum Sheet Based on Non-associated Flow Rule. Lecture Notes in Mechanical Engineering, 2019, , 62-68.	0.4	0
23	Piezoelastic Behavior of Adaptive Composite Plate with Integrated Sensors and Actuators. Lecture Notes in Mechanical Engineering, 2019, , 77-84.	0.4	0
24	Geometrically nonlinear analysis of elastoplastic behavior of functionally graded shells. Engineering With Computers, 2019, 35, 833-847.	6.1	44
25	Effect of hygroscopy on non-impregnated quasi-unidirectional flax reinforcement behaviour. Industrial Crops and Products, 2019, 128, 315-322.	5.2	9
26	Geometrically nonlinear finite element simulation of smart laminated shells using a modified first-order shear deformation theory. Journal of Intelligent Material Systems and Structures, 2019, 30, 517-535.	2.5	24
27	Effect of hygrothermal aging on mechanical and tribological behaviors of short glass-fiber-reinforced PA66. Journal of Thermoplastic Composite Materials, 2019, 32, 1585-1600.	4.2	15
28	A non-associated anisotropic plasticity model with mixed isotropicâ€“kinematic hardening for finite element simulation of incremental sheet metal forming process. International Journal of Advanced Manufacturing Technology, 2019, 100, 929-940.	3.0	38
29	Elasto-Plastic Modeling of Low-Velocity Impact on Functionally Graded Circular Plates. International Journal of Applied Mechanics, 2018, 10, 1850038.	2.2	21
30	Prediction of hygrothermal behavior of polyester/glass fiber composite in dissymmetric absorption. Journal of Composite Materials, 2018, 52, 4001-4007.	2.4	10
31	Finite element formulation for active functionally graded thin-walled structures. Comptes Rendus - Mecanique, 2018, 346, 1159-1178.	2.1	29
32	Numerical study of anisotropic behavior of Aluminum alloy subjected to dynamic perforation. International Journal of Impact Engineering, 2017, 101, 105-114.	5.0	41
33	Numerical investigation of the forming capability of bulge process by using rubber as a forming medium. International Journal of Advanced Manufacturing Technology, 2017, 92, 1839-1848.	3.0	36
34	Fatigue Behavior of Short Glass Fiber Reinforced Polyamide 66: Experimental Study and Fatigue Damage Modelling. Periodica Polytechnica, Mechanical Engineering, 2016, 60, 247-255.	1.4	14
35	Experimental investigation of the tribological behaviour of carbon and low-alloy steels sliding against HSS. Mechanics and Industry, 2015, 16, 109.	1.3	6
36	Low Velocity Impact Behavior of Glass Fibre-Reinforced Polyamide. Applied Condition Monitoring, 2015, , 469-479.	0.4	1

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37	Dynamic optimization design of a cylindrical helical spring. Applied Acoustics, 2014, 77, 178-183.	3.3	24
38	Friction and Wear Behavior of Steels under Different Reciprocating Sliding Conditions. Tribology Transactions, 2012, 55, 590-598.	2.0	19
39	Ã‰tude du comportement mÃ©canique dâ€™un polyamide 66 chargÃ© de fibres de verre courtes. Mecanique Et Industries, 2011, 12, 333-342.	0.2	9
40	A finite element for dynamic analysis of a cylindrical isotropic helical spring. Journal of Mechanics of Materials and Structures, 2008, 3, 641-658.	0.6	28
41	ModÃ©lisation et analyse expÃ©rimentale du procÃ©dÃ© de soudage par friction. Mecanique Et Industries, 2006, 7, 21-28.	0.2	1
42	A mixed-hybrid finite element for three-dimensional isotropic helical beam analysis. International Journal of Mechanical Sciences, 2005, 47, 209-229.	6.7	24
43	A formulation of the non linear discrete Kirchhoff quadrilateral shell element with finite rotations and enhanced strains. Revue Europeenne Des Elements, 2005, 14, 7-31.	0.1	18