

Fakhreddine Dammak

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Static bending analysis of beams made of functionally graded porous materials. <i>Mechanics Based Design of Structures and Machines</i> , 2022, 50, 1012-1029.	4.7	49
2	Geometrically nonlinear analysis of elastoplastic behavior of functionally graded shells. <i>Engineering With Computers</i> , 2019, 35, 833-847.	6.1	44
3	Numerical study of anisotropic behavior of Aluminum alloy subjected to dynamic perforation. <i>International Journal of Impact Engineering</i> , 2017, 101, 105-114.	5.0	41
4	A non-associated anisotropic plasticity model with mixed isotropic kinematic hardening for finite element simulation of incremental sheet metal forming process. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 100, 929-940.	3.0	38
5	Thermo-elastic buckling and post-buckling analysis of functionally graded thin plate and shell structures. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020, 42, 1.	1.6	37
6	Numerical investigation of the forming capability of bulge process by using rubber as a forming medium. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 92, 1839-1848.	3.0	36
7	Homogenization of elasto-plastic functionally graded material based on representative volume element: Application to incremental forming process. <i>International Journal of Mechanical Sciences</i> , 2019, 160, 412-420.	6.7	34
8	Post-buckling behavior of functionally graded and carbon-nanotubes based structures with different mechanical loadings. <i>Mechanics Based Design of Structures and Machines</i> , 2022, 50, 2997-3039.	4.7	33
9	Dynamic analysis of functionally graded carbon nanotube reinforced shell structures with piezoelectric layers under dynamic loads. <i>JVC/Journal of Vibration and Control</i> , 2020, 26, 1157-1172.	2.6	30
10	Finite element formulation for active functionally graded thin-walled structures. <i>Comptes Rendus - Mecanique</i> , 2018, 346, 1159-1178.	2.1	29
11	A finite element for dynamic analysis of a cylindrical isotropic helical spring. <i>Journal of Mechanics of Materials and Structures</i> , 2008, 3, 641-658.	0.6	28
12	A mixed-hybrid finite element for three-dimensional isotropic helical beam analysis. <i>International Journal of Mechanical Sciences</i> , 2005, 47, 209-229.	6.7	24
13	Dynamic optimization design of a cylindrical helical spring. <i>Applied Acoustics</i> , 2014, 77, 178-183.	3.3	24
14	Geometrically nonlinear finite element simulation of smart laminated shells using a modified first-order shear deformation theory. <i>Journal of Intelligent Material Systems and Structures</i> , 2019, 30, 517-535.	2.5	24
15	Experimental and numerical methodology to characterize 5083-aluminium behavior considering non-associated plasticity model coupled with isotropic ductile damage. <i>International Journal of Solids and Structures</i> , 2021, 229, 111139.	2.7	23
16	Design optimization of implant geometrical characteristics enhancing primary stability using FEA of stress distribution around dental prosthesis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021, 24, 1035-1051.	1.6	22
17	Elasto-Plastic Modeling of Low-Velocity Impact on Functionally Graded Circular Plates. <i>International Journal of Applied Mechanics</i> , 2018, 10, 1850038.	2.2	21
18	Identification of fully coupled non-associated-Ductile damage constitutive equations for thin sheet metal applications: Numerical feasibility and experimental validation. <i>Thin-Walled Structures</i> , 2022, 176, 109365.	5.3	20

#	ARTICLE	IF	CITATIONS
19	Friction and Wear Behavior of Steels under Different Reciprocating Sliding Conditions. Tribology Transactions, 2012, 55, 590-598.	2.0	19
20	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
21	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
22	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
23	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
24	Prediction of hygrothermal behavior of polyester/glass fiber composite in dissymmetric absorption. Journal of Composite Materials, 2018, 52, 4001-4007.	2.4	10
25	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
26	Étude du comportement mécanique d'un polyamide 66 chargé de fibres de verre courtes. Mecanique Et Industries, 2011, 12, 333-342.	0.2	9
27	Effect of hygroscopy on non-impregnated quasi-unidirectional flax reinforcement behaviour. Industrial Crops and Products, 2019, 128, 315-322.	5.2	9
28	A viscoelastic-viscoplastic model with hygromechanical coupling for flax fibre reinforced polymer composites. Composites Science and Technology, 2020, 189, 108018.	7.8	9
29	Experimental investigation of the tribological behaviour of carbon and low-alloy steels sliding against HSS. Mechanics and Industry, 2015, 16, 109.	1.3	6
30	Humidity diffusion through composite material under hydrostatic pressure. International Journal of Advanced Manufacturing Technology, 2019, 105, 1757-1764.	3.0	6
31	Numerical simulation of humidity diffusion through the polyester/glass fiber composite. International Journal of Advanced Manufacturing Technology, 2019, 105, 4237-4243.	3.0	2
32	Modélisation et analyse expérimentale du procédé de soudage par friction. Mecanique Et Industries, 2006, 7, 21-28.	0.2	1
33	Low Velocity Impact Behavior of Glass Fibre-Reinforced Polyamide. Applied Condition Monitoring, 2015, , 469-479.	0.4	1
34	Determination of Hyper-viscoelastic Parameters of Elastomeric Materials. Lecture Notes in Mechanical Engineering, 2022, , 84-89.	0.4	1
35	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
36	Piezoelastic Behavior of Adaptive Composite Plate with Integrated Sensors and Actuators. Lecture Notes in Mechanical Engineering, 2019, , 77-84.	0.4	0

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37	Influence of Material Gradient Index on Stress Distribution of Functionally Graded Dental Implants. Lecture Notes in Mechanical Engineering, 2021, , 11-17.	0.4	0
38	Low Velocity Impact-and-Damage Study of DD13 Sheet Metal. Lecture Notes in Mechanical Engineering, 2020, , 468-476.	0.4	0
39	Flow Velocity Effect on the Hygrothermal Behavior of the Polyester/Glass Fiber Composite. Lecture Notes in Mechanical Engineering, 2020, , 102-109.	0.4	0
40	Numerical Investigation of Reverse Redrawing Process Using a Non Associated Flow Rule. Lecture Notes in Mechanical Engineering, 2020, , 460-467.	0.4	0
41	Finite Element Analysis of Nonlinear Behavior of FG Cantilever. Lecture Notes in Mechanical Engineering, 2022, , 76-83.	0.4	0
42	Experimental and Numerical Investigation of Hole-Flanging Process with Rubber Punch. Lecture Notes in Mechanical Engineering, 2022, , 262-268.	0.4	0
43	Influence of Diameter of FGM Implant on Stress Distribution. Lecture Notes in Mechanical Engineering, 2022, , 49-55.	0.4	0