

# Mondher Wali

## List of Publications by Year in descending order

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69  
papers

1,423  
citations

201674

27  
h-index

361022

35  
g-index

77  
all docs

77  
docs citations

77  
times ranked

600  
citing authors

#	ARTICLE	IF	CITATIONS
1	Free vibration analysis of FG-CNTRC shell structures using the meshfree radial point interpolation method. <i>Computers and Mathematics With Applications</i> , 2020, 79, 3160-3178.	2.7	61
2	Numerical prediction of springback and ductile damage in rubber-pad forming process of aluminum sheet metal. <i>International Journal of Mechanical Sciences</i> , 2016, 117, 218-226.	6.7	56
3	A new higher order C mixed beam element for FGM beams analysis. <i>Composites Part B: Engineering</i> , 2016, 106, 181-189.	12.0	50
4	Discrete double directors shell element for the functionally graded material shell structures analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014, 278, 388-403.	6.6	47
5	Numerical and experimental investigations of low velocity impact on glass fiber-reinforced polyamide. <i>Composites Part B: Engineering</i> , 2018, 146, 116-123.	12.0	45
6	Finite element implementation of an orthotropic plasticity model for sheet metal in low velocity impact simulations. <i>Thin-Walled Structures</i> , 2015, 89, 93-100.	5.3	44
7	Geometrically nonlinear analysis of elastoplastic behavior of functionally graded shells. <i>Engineering With Computers</i> , 2019, 35, 833-847.	6.1	44
8	Geometrically non-linear analysis of FG-CNTRC shell structures with surface-bonded piezoelectric layers. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 347, 679-699.	6.6	44
9	Free vibration analysis of FGM shell structures with a discrete double directors shell element. <i>Composite Structures</i> , 2015, 125, 295-303.	5.8	43
10	Dynamic response of functionally graded material shells with a discrete double directors shell element. <i>Composite Structures</i> , 2016, 154, 385-395.	5.8	43
11	Nonlinear dynamic analysis of piezoelectric-bonded FG-CNTR composite structures using an improved FSDT theory. <i>Engineering With Computers</i> , 2021, 37, 1389-1407.	6.1	43
12	Numerical prediction of the ductile damage in single point incremental forming process. <i>International Journal of Mechanical Sciences</i> , 2017, 131-132, 546-558.	6.7	42
13	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
14	Piezoelastic response of smart functionally graded structure with integrated piezoelectric layers using discrete double directors shell element. <i>Composite Structures</i> , 2019, 210, 354-366.	5.8	41
15	Nonlinear Dynamics Analysis of FGM Shell Structures with a Higher Order Shear Strain Enhanced Solid-Shell Element. <i>Latin American Journal of Solids and Structures</i> , 2017, 14, 72-91.	1.0	40
16	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
17	One-equation integration algorithm of a generalized quadratic yield function with Chaboche non-linear isotropic/kinematic hardening. <i>International Journal of Mechanical Sciences</i> , 2015, 92, 223-232.	6.7	37
18	Effects of the tool path strategies on incremental sheet metal forming process. <i>Mechanics and Industry</i> , 2016, 17, 411.	1.3	36

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19	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
20	A simple integration algorithm for a non-associated anisotropic plasticity model for sheet metal forming. <i>International Journal for Numerical Methods in Engineering</i> , 2016, 107, 183-204.	2.8	35
21	Numerical Analysis of Geometrically Non-Linear Behavior of Functionally Graded Shells. <i>Latin American Journal of Solids and Structures</i> , 2017, 14, 1952-1978.	1.0	34
22	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
23	Meshfree implementation of the double director shell model for FGM shell structures analysis. <i>Engineering Analysis With Boundary Elements</i> , 2019, 99, 111-121.	3.7	33
24	An anisotropic hyperelastic constitutive model for short glass fiber-reinforced polyamide. <i>International Journal of Engineering Science</i> , 2016, 106, 262-272.	5.0	31
25	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
26	Finite element formulation for active functionally graded thin-walled structures. <i>Comptes Rendus - Mecanique</i> , 2018, 346, 1159-1178.	2.1	29
27	Meshless implementation of arbitrary 3D-shell structures based on a modified first order shear deformation theory. <i>Computers and Mathematics With Applications</i> , 2019, 77, 34-49.	2.7	29
28	Coupled anisotropic plasticity-ductile damage: Modeling, experimental verification, and application to sheet metal forming simulation. <i>International Journal of Mechanical Sciences</i> , 2019, 150, 548-560.	6.7	28
29	Anisotropic effects in the compression beading of aluminum thin-walled tubes with rubber. <i>Thin-Walled Structures</i> , 2017, 119, 902-910.	5.3	24
30	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
31	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
32	Non associated-anisotropic plasticity model fully coupled with isotropic ductile damage for sheet metal forming applications. <i>International Journal of Solids and Structures</i> , 2019, 166, 96-111.	2.7	22
33	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
34	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
35	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
36	Geometrically nonlinear analysis of FGM shells using solid-shell element with parabolic shear strain distribution. <i>International Journal of Mechanics and Materials in Design</i> , 2020, 16, 351-366.	3.0	18

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37	An improved enhanced solid shell element for static and buckling analysis of shell structures. <i>Mechanics and Industry</i> , 2016, 17, 510.	1.3	16
38	Numerical Implementation of Coupled Anisotropic Plasticity-Ductile Damage in Sheet Metal Forming Process. <i>Journal of Mechanics</i> , 2018, 34, 417-430.	1.4	16
39	Static analysis of carbon nanotube-reinforced FG shells using an efficient solid-shell element with parabolic transverse shear strain. <i>Engineering Computations</i> , 2019, 37, 823-849.	1.4	16
40	Fatigue Behavior of Short Glass Fiber Reinforced Polyamide 66: Experimental Study and Fatigue Damage Modelling. <i>Periodica Polytechnica, Mechanical Engineering</i> , 2016, 60, 247-255.	1.4	14
41	Experimental and numerical investigation of flexible bulging process of aluminum AA1050-H14 sheet metal with soft tools. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 4837-4846.	3.0	10
42	Experimental investigation on the mechanical behavior of recycled rubber reinforced polymer composites filled with aluminum powder. <i>Construction and Building Materials</i> , 2020, 259, 119845.	7.2	10
43	SPIF Manufacture of a Dome Part Made of AA1060-H14 Aluminum Alloy Using CNC Lathe Machine: Numerical and Experimental Investigations. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 12207-12220.	3.0	9
44	Dynamic analysis of an elasto-plastic sandwich subjected to low velocity impact. <i>Multidiscipline Modeling in Materials and Structures</i> , 2011, 7, 184-206.	1.3	8
45	Efficiency of rubber-pad cushion in bending process of a thin aluminum sheet. <i>Journal of Rubber Research (Kuala Lumpur, Malaysia)</i> , 2020, 23, 89-99.	1.1	8
46	Influence of elastic wave on crack nucleation – Experimental and computational investigation of brittle fracture. <i>Applied Acoustics</i> , 2017, 128, 45-54.	3.3	6
47	Optimum shape design of incompressible hyperelastic structures with analytical sensitivity analysis. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 3121-3128.	1.5	3
48	Three-dimensional coupling between orthodontic bone remodeling and superelastic behavior of a TiNiTi wire applied for initial alignment. <i>Journal of Orofacial Orthopedics</i> , 2021, 82, 99-110.	1.3	2
49	Low Velocity Impact Behavior of Glass Fibre-Reinforced Polyamide. <i>Applied Condition Monitoring</i> , 2015, , 469-479.	0.4	1
50	A New Cumulative Fatigue Damage Model for Short Glass Fiber-Reinforced Polyamide 66. <i>Lecture Notes in Mechanical Engineering</i> , 2018, , 227-234.	0.4	1
51	Meshfree Analysis of 3-D Double Directors Shell Theory. <i>Lecture Notes in Mechanical Engineering</i> , 2019, , 120-127.	0.4	1
52	Finite Rotation RPIM Formulation for Geometrically Nonlinear Analysis of FG-CNTRC Shell Structure. <i>Lecture Notes in Mechanical Engineering</i> , 2022, , 201-208.	0.4	1
53	On the Use of NC Milling and Turning Machines in SPIF Process of Asymmetric Parts: Numerical Investigation. <i>Lecture Notes in Mechanical Engineering</i> , 2018, , 269-279.	0.4	1
54	2-Axis Tool Strategy Applied on NC Lathe Machine to Manufacture Revolved Parts by Means of SPIF Process. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 105-111.	0.4	1

#	ARTICLE	IF	CITATIONS
55	Determination of Hyper-viscoelastic Parameters of Elastomeric Materials. Lecture Notes in Mechanical Engineering, 2022, , 84-89.	0.4	1
56	The Extended Finite Element Method for Cracked Incompressible Hyperelastic Structures Analysis. Applied Condition Monitoring, 2015, , 531-540.	0.4	0
57	A Higher Order Shear Strain Enhanced Solid-Shell Element for Laminated Composites Structures Analysis. Applied Condition Monitoring, 2015, , 497-506.	0.4	0
58	Dynamic Analysis of the Perforation of Aluminum Alloy at Low Velocity Impact. Applied Condition Monitoring, 2017, , 281-290.	0.4	0
59	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
60	Piezoelectric Behavior of Adaptive Composite Plate with Integrated Sensors and Actuators. Lecture Notes in Mechanical Engineering, 2019, , 77-84.	0.4	0
61	A Modified FSDT Model for Static Analysis of Smart Functionally Graded Shells. Lecture Notes in Mechanical Engineering, 2020, , 681-689.	0.4	0
62	Influence of Material Gradient Index on Stress Distribution of Functionally Graded Dental Implants. Lecture Notes in Mechanical Engineering, 2021, , 11-17.	0.4	0
63	Parameter Identification of a Viscohyperelastic Constitutive Model for Fiber Reinforced Thermoplastic Composites. Lecture Notes in Mechanical Engineering, 2021, , 18-24.	0.4	0
64	Material and Geometric Nonlinear Analysis of Ceramic/Metal Functionally Graded Cylindrical Shell. Lecture Notes in Mechanical Engineering, 2020, , 426-434.	0.4	0
65	Numerical Investigation of Reverse Redrawing Process Using a Non Associated Flow Rule. Lecture Notes in Mechanical Engineering, 2020, , 460-467.	0.4	0
66	Finite Element Modelling of the Functionally Graded Shells Mechanical Behavior. Lecture Notes in Mechanical Engineering, 2020, , 833-841.	0.4	0
67	Finite Element Analysis of Nonlinear Behavior of FG Cantilever. Lecture Notes in Mechanical Engineering, 2022, , 76-83.	0.4	0
68	Experimental and Numerical Investigation of Hole-Flanging Process with Rubber Punch. Lecture Notes in Mechanical Engineering, 2022, , 262-268.	0.4	0
69	Influence of Diameter of FGM Implant on Stress Distribution. Lecture Notes in Mechanical Engineering, 2022, , 49-55.	0.4	0