

# Mehran Kadkhodayan

## List of Publications by Year in descending order

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58  
papers

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citations

394421

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434195

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58  
docs citations

58  
times ranked

701  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental, numerical, and multi-objective optimization investigations on the energy absorption features of single- and bi-layer deep-drawn cups. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2021, 235, 550-571.	1.1	3
2	Fatigue Assessment of 2024-T351 Aluminum Alloy Under Uniaxial Cyclic Loading. Journal of Materials Engineering and Performance, 2021, 30, 2864-2875.	2.5	6
3	Modified Burzynski criterion along with AFR and non-AFR for asymmetric anisotropic materials. Archives of Civil and Mechanical Engineering, 2021, 21, 1.	3.8	2
4	Dynamic analysis of stiffened bi-directional functionally graded plates with porosities under a moving load by dynamic relaxation method with kinetic damping. Aerospace Science and Technology, 2019, 93, 105333.	4.8	61
5	Nonlinear material and geometric analysis of thick functionally graded plates with nonlinear strain hardening using nonlinear finite element method. Aerospace Science and Technology, 2019, 92, 930-944.	4.8	11
6	Numerical investigation into dynamic behaviors of axially moving functionally graded porous sandwich nanoplates reinforced with graphene platelets. Materials Research Express, 2019, 6, 1050b7.	1.6	8
7	Collapse of honeycomb cell as a result of buckling or plastic hinges, analytical, numerical and experimental study. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	10
8	Non-linear influence of hydrostatic pressure on the yielding of asymmetric anisotropic sheet metals. Mathematics and Mechanics of Solids, 2018, 23, 159-180.	2.4	2
9	An investigation into the flexural and drawing behaviors of GFRP-based fiber-metal laminate. Mechanics of Advanced Materials and Structures, 2018, 25, 805-812.	2.6	14
10	An experimental investigation of casing effect on mechanical properties of billet in ECAP process. International Journal of Advanced Manufacturing Technology, 2017, 90, 3203-3216.	3.0	11
11	A modified Burzynski criterion for anisotropic pressure-dependent materials. Sadhana - Academy Proceedings in Engineering Sciences, 2017, 42, 95-109.	1.3	1
12	Static mechanical properties and ductility of biomedical ultrafine-grained commercially pure titanium produced by ECAP process. Transactions of Nonferrous Metals Society of China, 2017, 27, 1964-1975.	4.2	28
13	Three-dimensional thermo-elastic analysis of multi-directional functionally graded rectangular plates on elastic foundation. Acta Mechanica, 2017, 228, 881-899.	2.1	37
14	Three-dimensional thermo-elastic analysis and dynamic response of a multi-directional functionally graded skew plate on elastic foundation. Composites Part B: Engineering, 2017, 125, 227-240.	12.0	69
15	Thinning behavior of laminated sheets metal in warm deep-drawing process under various grain sizes. MATEC Web of Conferences, 2016, 80, 15001.	0.2	6
16	An advanced criterion based on non-AFR for anisotropic sheet metals. Structural Engineering and Mechanics, 2016, 57, 1015-1038.	1.0	3
17	Combination of modified Yld2000-2d and Yld2000-2d in anisotropic pressure dependent sheet metals. Latin American Journal of Solids and Structures, 2015, 12, 92-114.	1.0	5
18	Analytical, experimental and numerical study of a graded honeycomb structure under in-plane impact load with low velocity. International Journal of Crashworthiness, 2015, 20, 387-400.	1.9	32

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19	Nonlinear analysis of functionally graded nanocomposite rotating thick disks with variable thickness reinforced with carbon nanotubes. <i>Aerospace Science and Technology</i> , 2015, 41, 47-54.	4.8	17
20	An experimental investigation into the warm deep-drawing process on laminated sheets under various grain sizes. <i>Materials and Design</i> , 2015, 87, 25-35.	7.0	38
21	Nonlinear elastic/plastic buckling analysis of thick/thin skew plates under uniaxial and biaxial loading. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2015, 229, 2854-2867.	2.1	5
22	Low velocity impact and quasi-static in-plane loading on a graded honeycomb structure; experimental, analytical and numerical study. <i>Aerospace Science and Technology</i> , 2015, 47, 425-433.	4.8	43
23	Three dimensional elasticity solution for static and dynamic analysis of multi-directional functionally graded thick sector plates with general boundary conditions. <i>Composites Part B: Engineering</i> , 2015, 69, 592-602.	12.0	36
24	Deep-drawing of thermoplastic metal-composite structures: Experimental investigations, statistical analyses and finite element modeling. <i>Journal of Materials Processing Technology</i> , 2015, 215, 159-170.	6.3	56
25	Non-linear bending analysis of shear deformable functionally graded rotating disk. <i>International Journal of Non-Linear Mechanics</i> , 2014, 58, 41-56.	2.6	15
26	A hybrid NN-FE approach to adjust blank holder gap over punch stroke in deep drawing process. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 71, 337-355.	3.0	10
27	Elastic/plastic buckling of isotropic thin plates subjected to uniform and linearly varying in-plane loading using incremental and deformation theories. <i>Aerospace Science and Technology</i> , 2014, 32, 66-83.	4.8	29
28	Investigation of Nonlinear Bending Analysis of Moderately Thick Functionally Graded Material Sector Plates Subjected to Thermomechanical Loads by the GDQ Method. <i>Journal of Engineering Mechanics - ASCE</i> , 2014, 140, 04014012.	2.9	11
29	Three-dimensional static analysis of thick functionally graded plates using graded finite element method. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2014, 228, 1275-1285.	2.1	13
30	An Investigation into the Thermoelastic Analysis of Circular and Annular Functionally Graded Material Plates. <i>Mechanics of Advanced Materials and Structures</i> , 2014, 21, 1-13.	2.6	11
31	Large deflection analysis of moderately thick radially functionally graded annular sector plates fully and partially rested on two-parameter elastic foundations by GDQ method. <i>Aerospace Science and Technology</i> , 2014, 39, 260-271.	4.8	14
32	Elastic/plastic Buckling Analysis of Skew Thin Plates based on Incremental and Deformation Theories of Plasticity using Generalized Differential Quadrature Method. <i>International Journal of Engineering, Transactions B: Applications</i> , 2014, 27, .	0.7	0
33	Optimization of load paths in X- and Y-shaped hydroforming. <i>International Journal of Material Forming</i> , 2013, 6, 75-91.	2.0	17
34	Large deflection thermoelastic analysis of functionally graded stiffened annular sector plates. <i>International Journal of Mechanical Sciences</i> , 2013, 69, 94-106.	6.7	19
35	Elastoplastic Buckling Analysis of Plates Involving Free Edges by Deformation Theory of Plasticity. <i>International Journal of Engineering, Transactions B: Applications</i> , 2013, 26, .	0.7	1
36	A Modified Storen-Rice Bifurcation Analysis of Sheet Metal Forming Limit Diagrams. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2012, 79, .	2.2	4

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37	Timestep Selection for Dynamic Relaxation Method. <i>Mechanics Based Design of Structures and Machines</i> , 2012, 40, 42-72.	4.7	28
38	A DXDR large deflection analysis of uniformly loaded square, circular and elliptical orthotropic plates using non-uniform rectangular finite-differences. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 3231-3242.	1.5	8
39	An investigation of the optimal load paths for the hydroforming of T-shaped tubes. <i>International Journal of Advanced Manufacturing Technology</i> , 2012, 61, 73-85.	3.0	21
40	Modeling and Analysis of Reverse Drawing Process of Steel Sheet and Comparison with Simple Drawing Process. , 2011, , .		0
41	Large deflection analysis of circular and annular FGM plates under thermo-mechanical loadings with temperature-dependent properties. <i>Composites Part B: Engineering</i> , 2011, 42, 614-625.	12.0	53
42	Analytical elasticâ€“plastic study on flange wrinkling in deep drawing process. <i>Scientia Iranica</i> , 2011, 18, 250-260.	0.4	17
43	A new method of fictitious viscous damping determination for the dynamic relaxation method. <i>Computers and Structures</i> , 2011, 89, 783-794.	4.4	42
44	Nonlinear bending analysis of annular FGM plates using higher-order shear deformation plate theories. <i>Composite Structures</i> , 2011, 93, 973-982.	5.8	66
45	Elastic-Plastic Flange Wrinkling of Circular Plates in Deep Drawing Process. <i>Key Engineering Materials</i> , 2011, 462-463, 200-206.	0.4	1
46	Necking Prediction in Tube Hydroforming by Stress-Based Forming Limit Diagrams. <i>Key Engineering Materials</i> , 2011, 462-463, 284-288.	0.4	0
47	An Investigation Into the Prediction of Forming Limit Diagrams for Normal Anisotropic Material Based on Bifurcation Analysis. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2011, 78, .	2.2	4
48	An Investigation into the Optimization of Loading Path in T-shape of Tube Hydroforming. , 2010, , .		0
49	Simulation and analysis of hot forging process for industrial locking gear elevators. <i>AIP Conference Proceedings</i> , 2010, , .	0.4	12
50	An Investigation into the Different Hardening Models in Reverse Forming of Thin Sheets. <i>Advances in Mechanical Engineering</i> , 2009, 1, 874202.	1.6	1
51	On the relation of equivalent plastic strain and springback in sheet draw bending. <i>International Journal of Material Forming</i> , 2008, 1, 141-144.	2.0	9
52	A new fictitious time for the dynamic relaxation (DXDR) method. <i>International Journal for Numerical Methods in Engineering</i> , 2008, 74, 996-1018.	2.8	45
53	Numerical Prediction of Springback and Side-Wall Curl in U-Bending of Anisotropic Sheet Metals. <i>Key Engineering Materials</i> , 2004, 274-276, 583-588.	0.4	0
54	An Investigation into the Influence of Deformable Dies on the Springback of Circular Plates. <i>Key Engineering Materials</i> , 2003, 233-236, 299-304.	0.4	0

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55	Springback of Laterally Loaded Circular Plates. Key Engineering Materials, 2000, 177-180, 479-484.	0.4	0
56	Analyses of wrinkling and buckling of elastic plates by DXDR method. Computers and Structures, 1997, 65, 561-574.	4.4	33
57	Development of the maDR method. Computers and Structures, 1994, 52, 1-8.	4.4	56
58	Free vibration analysis of thick disks with variable thickness containing orthotropic-nonhomogeneous material using finite element method. Journal of Theoretical and Applied Mechanics, 0, , 1005.	0.5	1