

Asghar Zajkani

List of Publications by Year in descending order

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34
papers

311
citations

933264

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all docs

34
docs citations

34
times ranked

234
citing authors

#	ARTICLE	IF	CITATIONS
1	Processing and tooling considerations in joining by forming technologies; part Aâ€”mechanical joining. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 101, 261-315.	1.5	37
2	A new model for the cantilever MEMS actuator in magnetorheological elastomer cored sandwich form considering the fringing field and Casimir effects. <i>Mechanical Systems and Signal Processing</i> , 2019, 121, 551-561.	4.4	34
3	Improvement in joint strength and material joinability in clinched joints by electromagnetically assisted clinching. <i>Journal of Manufacturing Processes</i> , 2019, 41, 252-266.	2.8	27
4	Investigation of the variable elastic unloading modulus coupled with nonlinear kinematic hardening in springback measuring of advanced high-strength steel in U-shaped process. <i>Journal of Manufacturing Processes</i> , 2017, 25, 391-401.	2.8	24
5	Dynamic plastic impact behavior of CNTs/fiber/polymer multiscale laminated composite doubly curved shells. <i>International Journal of Mechanical Sciences</i> , 2021, 195, 106223.	3.6	17
6	A novel analytical model to predict springback of DP780 steel based on modified Yoshida-Uemori two-surface hardening model. <i>International Journal of Material Forming</i> , 2019, 12, 441-455.	0.9	16
7	An analytical modeling for springback prediction during U-bending process of advanced high-strength steels based on anisotropic nonlinear kinematic hardening model. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 90, 349-359.	1.5	14
8	An efficient model for diffuse to localized necking transition in rate-dependent bifurcation analysis of metallic sheets. <i>International Journal of Mechanical Sciences</i> , 2017, 133, 794-803.	3.6	13
9	Nonlinear plastic buckling analysis of Microâ€”Scale thin plates established on higher order mechanism-based strain gradient plasticity framework. <i>European Journal of Mechanics, A/Solids</i> , 2019, 77, 103777.	2.1	11
10	Thermal effect on dynamics of thin and thick composite laminated microbeams by modified couple stress theory for different boundary conditions. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	10
11	A micromechanically motivated lower order strain gradient model for plastic behavior of functionally graded crystalline micro beam structures. <i>Mechanics of Materials</i> , 2019, 137, 103135.	1.7	10
12	A computational investigation for propagation of elasto-viscoplastic zones in the shock loaded circular plates. <i>Engineering Computations</i> , 2014, 31, 1401-1443.	0.7	9
13	A new model for permanent flexural deflection of cantilever MEMS actuator by conventional mechanism-based strain gradient plasticity framework. <i>Microsystem Technologies</i> , 2019, 25, 4277-4289.	1.2	8
14	On the Dependency of Ductile Damage Evolution to Stress State with Shock Loading Pre-Mechanical Working in 7075-T6 Aluminum Alloy. <i>International Journal of Applied Mechanics</i> , 2016, 08, 1650050.	1.3	7
15	A novel finite element simulation of hot stamping process of DP780 steel based on the Chaboche thermomechanically hardening model. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 111, 2705-2718.	1.5	7
16	Incremental integrated modeling of dynamic viscoplastic responses of the annular sector plates exposed to shock wave loading. <i>Journal of Strain Analysis for Engineering Design</i> , 2014, 49, 86-111.	1.0	6
17	Nanoindentation on the bio-inspired high-performance nature composite by molecular dynamics method. <i>Advanced Composites Letters</i> , 2019, 28, 096369351986016.	1.3	6
18	Strain gradient micromechanical modeling of substrate â€” supported crystalline microplates subjected to permanent in-plane and out-of-plane tractions. <i>Mechanics Based Design of Structures and Machines</i> , 2019, , 1-17.	3.4	6

#	ARTICLE	IF	CITATIONS
19	Low-velocity impact analysis of viscoelastic composite laminated nanoplate based on nonlocal strain gradient theory for different boundary conditions. <i>Journal of Sandwich Structures and Materials</i> , 0, , 109963622092507.	2.0	6
20	Analytical modelling of high-rate elasto-viscoplastic deformation of circular plates subjected to impulsive loads using pseudo-spectral collocation method. <i>Journal of Strain Analysis for Engineering Design</i> , 2013, 48, 126-149.	1.0	5
21	On the stress state-based coupled plasticity “Ductile damage model for aluminum alloys considering the influence of high-rate impulsive preload. <i>International Journal of Impact Engineering</i> , 2020, 146, 103715.	2.4	5
22	Parametric Study on the Electromagnetic Force-Fit Joining of Carbon Fiber Reinforced Plastic and Aluminum Tubes. <i>Procedia Engineering</i> , 2017, 207, 986-991.	1.2	4
23	A ductile damage-based vertex model for predictor”controller of forming limit at different strain rates with experimental validations. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 104, 867-879.	1.5	4
24	Comparative Modeling of Power Hardening Micro-scale Metallic Plates Based on Lower and Higher-Order Strain Gradient Plasticity Theories. <i>Metals and Materials International</i> , 2021, 27, 1392-1402.	1.8	4
25	On the Hybrid Modeling of Phenomenological Damage Evolution in Low Carbon Steels During Equal Channel Angular Extrusion Process. <i>Metals and Materials International</i> , 2022, 28, 1075-1093.	1.8	4
26	Nonlinear micromechanically analysis of forced vibration of the rectangular-shaped atomic force microscopes incorporating contact model and thermal influences. <i>Mechanics Based Design of Structures and Machines</i> , 2022, 50, 609-629.	3.4	4
27	Mathematical Modeling of Large-Amplitude Dynamic-Plastic Behavior of Circular Plates Subjected to Impulsive Loads. <i>Journal of Mechanics</i> , 2010, 26, 533-546.	0.7	3
28	An integrated pseudo-spectral simulation of high-speed discharging at an electromagnetic forming conveying a conductive driver sheet. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 95, 4383-4396.	1.5	3
29	Stability and instability analysis of the substrate supported panels in the forming process based on perturbation growth and bifurcation threshold models. <i>Journal of Manufacturing Processes</i> , 2018, 31, 703-711.	2.8	2
30	A path-dependent necking instability analysis of the thin substrate composite plates considering nonlinear reinforced layer effects. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 95, 759-774.	1.5	2
31	Dynamic response of a size-dependent nanobeam to low velocity impact by a nanoparticle with considering atomic interaction forces. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2019, 233, 6640-6655.	1.1	1
32	Stress-based forming limit diagrams (SFLD) considering strain rate effect and ductile damage phenomenon. <i>International Journal of Materials Research</i> , 2020, 111, 136-145.	0.1	1
33	Localized forming limit analysis of substrate-supported metals: Influence of yield-dependent necking bound angle. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2022, 236, 932-945.	1.5	1
34	Experimental Study of Pumping Performance of Rotating Helical Pump as a Gas”Liquid Transporter. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2010, 224, 2418-2422.	1.1	0