

Farid Abed-Meraim

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94
papers

887
citations

16
h-index

27
g-index

102
ext. papers

1,008
ext. citations

3.1
avg, IF

4.69
L-index

#	Paper	IF	Citations
94	An Anisotropic Model with Linear Perturbation Technique to Predict HCP Sheet Metal Ductility Limit. <i>Lecture Notes in Mechanical Engineering</i> , 2022 , 164-176	0.4	0
93	Strain Localization Modes within Single Crystals Using Finite Deformation Strain Gradient Crystal Plasticity. <i>Crystals</i> , 2021 , 11, 1235	2.3	0
92	Formability prediction of substrate-supported metal layers using a non-associated plastic flow rule. <i>Journal of Materials Processing Technology</i> , 2021 , 287, 116694	5.3	0
91	Formability prediction using bifurcation criteria and GTN damage model. <i>International Journal of Mechanical Sciences</i> , 2021 , 191, 106083	5.5	4
90	An advanced elastoplastic framework accounting for induced plastic anisotropy fully coupled with ductile damage. <i>International Journal of Mechanical Sciences</i> , 2021 , 207, 106620	5.5	0
89	Buckling and wrinkling of thin membranes by using a numerical solver based on multivariate Taylor series. <i>International Journal of Solids and Structures</i> , 2021 , 230-231, 111165	3.1	0
88	Investigation of the competition between void coalescence and macroscopic strain localization using the periodic homogenization multiscale scheme. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 143, 104042	5	4
87	An elasto-plastic self-consistent model for damaged polycrystalline materials: Theoretical formulation and numerical implementation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 368, 113138	5.7	6
86	Finite Element Simulation of Sheet Metal Forming Processes using Non-Quadratic Anisotropic Plasticity Models and SolidShell Finite Elements. <i>Procedia Manufacturing</i> , 2020 , 47, 1416-1423	1.5	3
85	Prediction of the Ductility Limit of Magnesium AZ31B Alloy. <i>Lecture Notes in Mechanical Engineering</i> , 2020 , 182-193	0.4	1
84	Strain gradient crystal plasticity model based on generalized non-quadratic defect energy and uncoupled dissipation. <i>International Journal of Plasticity</i> , 2020 , 126, 102617	7.6	8
83	Prediction of necking in HCP sheet metals using a two-surface plasticity model. <i>International Journal of Plasticity</i> , 2020 , 128, 102641	7.6	4
82	Prediction of forming limits for porous materials using void-size dependent model and bifurcation approach. <i>Meccanica</i> , 2020 , 55, 1829-1845	2.1	0
81	Comparative study of three techniques for the computation of the macroscopic tangent moduli by periodic homogenization scheme. <i>Engineering With Computers</i> , 2020 , 1	4.5	1
80	Numerical investigation of necking in perforated sheets using the periodic homogenization approach. <i>International Journal of Mechanical Sciences</i> , 2020 , 166, 105209	5.5	7
79	Simulation of Structural Applications and Sheet Metal Forming Processes Based on Quadratic SolidShell Elements with Explicit Dynamic Formulation. <i>International Journal of Applied Mechanics</i> , 2019 , 11, 1950082	2.4	1
78	Numerical investigation of the combined effects of curvature and normal stress on sheet metal formability. <i>International Journal of Material Forming</i> , 2019 , 12, 211-221	2	0

77	Ductility prediction of substrate-supported metal layers based on rate-independent crystal plasticity theory. <i>International Journal of Material Forming</i> , 2019 , 12, 241-255	2	1
76	Computationally efficient predictions of crystal plasticity based forming limit diagrams using a spectral database. <i>International Journal of Plasticity</i> , 2018 , 103, 168-187	7.6	17
75	A numerical method based on Taylor series for bifurcation analyses within Föppl–von Karman plate theory. <i>Mechanics Research Communications</i> , 2018 , 93, 154-158	2.2	7
74	New linear and quadratic prismatic piezoelectric solid-shell finite elements. <i>Applied Mathematics and Computation</i> , 2018 , 319, 355-368	2.7	6
73	Prediction of necking in thin sheet metals using an elastic-plastic model coupled with ductile damage and bifurcation criteria. <i>International Journal of Damage Mechanics</i> , 2018 , 27, 801-839	3	12
72	Linear and quadratic solid-shell finite elements SHB8PSE and SHB20E for the modeling of piezoelectric sandwich structures. <i>Mechanics of Advanced Materials and Structures</i> , 2018 , 25, 559-578	1.8	13
71	Influence of geometric and material parameters on the damping properties of multilayer structures. <i>Composite Structures</i> , 2018 , 183, 611-619	5.3	1
70	Strain localization analysis for planar polycrystals based on bifurcation theory. <i>Comptes Rendus - Mecanique</i> , 2018 , 346, 647-664	2.1	2
69	Quadratic Solid-Shell Finite Elements for Geometrically Nonlinear Analysis of Functionally Graded Material Plates. <i>Materials</i> , 2018 , 11,	3.5	6
68	Influence of the Non-Schmid Effects on the Ductility Limit of Polycrystalline Sheet Metals. <i>Materials</i> , 2018 , 11,	3.5	1
67	Mathematical and numerical analysis in thermo-gradient-dependent theory of plasticity. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2018 , 98, 1603-1622	1	2
66	Modeling of hybrid vibration control for multilayer structures using solid-shell finite elements. <i>Mechanics of Advanced Materials and Structures</i> , 2018 , 25, 1033-1046	1.8	2
65	Investigation of the effect of temper rolling on the texture evolution and mechanical behavior of IF steels using multiscale simulation. <i>International Journal of Material Forming</i> , 2017 , 10, 29-42	2	3
64	Effect of kinematic hardening on localized necking in substrate-supported metal layers. <i>International Journal of Mechanical Sciences</i> , 2017 , 123, 177-197	5.5	8
63	Localized necking predictions based on rate-independent self-consistent polycrystal plasticity: Bifurcation analysis versus imperfection approach. <i>International Journal of Plasticity</i> , 2017 , 91, 205-237	7.6	17
62	Theoretical and numerical investigation of the impact of out-of-plane compressive stress on sheet metal formability. <i>International Journal of Mechanical Sciences</i> , 2017 , 130, 244-257	5.5	4
61	Explicit dynamic analysis of sheet metal forming processes using linear prismatic and hexahedral solid-shell elements. <i>Engineering Computations</i> , 2017 , 34, 1413-1445	1.4	2
60	Quadratic prismatic and hexahedral solid-shell elements for geometric nonlinear analysis of laminated composite structures. <i>Composite Structures</i> , 2017 , 172, 282-296	5.3	7

59	Localized Necking in Elastomer-Supported Metal Layers: Impact of Kinematic Hardening. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2017 , 139,	3.3	3
58	Prediction of Plastic Instability in Sheet Metals During Forming Processes Using the Loss of Ellipticity Approach. <i>Latin American Journal of Solids and Structures</i> , 2017 , 14, 1816-1836	1.4	1
57	Determination of Forming Limit Diagrams Based on Ductile Damage Models and Necking Criteria. <i>Latin American Journal of Solids and Structures</i> , 2017 , 14, 1872-1892	1.4	7
56	Numerical Predictions of the Occurrence of Necking in Deep Drawing Processes. <i>Metals</i> , 2017 , 7, 455	2.3	4
55	Strain rate effects on localized necking in substrate-supported metal layers. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 92, 3461-3480	3.2	2
54	Quadratic solid-shell elements for nonlinear structural analysis and sheet metal forming simulation. <i>Computational Mechanics</i> , 2017 , 59, 161-186	4	13
53	Linear and Quadratic Solid-Shell Elements for Quasi-Static and Dynamic Simulations of Thin 3D Structures: Application to a Deep Drawing Process. <i>Strojniski Vestnik/Journal of Mechanical Engineering</i> , 2017 , 63, 25-34	1.3	4
52	Combined effect of damage and plastic anisotropy on the ductility limit of thin metal sheets. <i>Procedia Structural Integrity</i> , 2016 , 2, 3577-3584	1	3
51	Prediction of Localized Necking Based on Crystal Plasticity: Comparison of Bifurcation and Imperfection Approaches. <i>Key Engineering Materials</i> , 2016 , 716, 779-789	0.4	0
50	Simulation of nonlinear benchmarks and sheet metal forming processes using linear and quadratic solid-shell elements combined with advanced anisotropic behavior models. <i>MATEC Web of Conferences</i> , 2016 , 80, 07001	0.3	
49	Numerical integration of rate-independent BCC single crystal plasticity models: comparative study of two classes of numerical algorithms. <i>International Journal for Numerical Methods in Engineering</i> , 2016 , 108, 363-422	2.4	22
48	Investigation of ductility limits based on bifurcation theory coupled with continuum damage mechanics. <i>Materials and Design</i> , 2016 , 90, 969-978	8.1	3
47	Influence of the Yield Surface Curvature on the Forming Limit Diagrams Predicted by Crystal Plasticity Theory. <i>Latin American Journal of Solids and Structures</i> , 2016 , 13, 2231-2250	1.4	3
46	Ductility prediction of substrate-supported metal layers based on rate-independent crystal plasticity theory. <i>MATEC Web of Conferences</i> , 2016 , 80, 02007	0.3	
45	Prediction of Forming Limit Diagrams under combined Bending-Stretching loadings. <i>MATEC Web of Conferences</i> , 2016 , 80, 03003	0.3	
44	Hardening effects on strain localization predictions in porous ductile materials using the bifurcation approach. <i>Mechanics of Materials</i> , 2015 , 91, 152-166	3.3	12
43	Modeling of viscoelastic sandwich beams using solid-shell finite elements. <i>Composite Structures</i> , 2015 , 133, 105-116	5.3	11
42	Efficient Solid-Shell Finite Elements for Quasi-Static and Dynamic Analyses and their Application to Sheet Metal Forming Simulation. <i>Key Engineering Materials</i> , 2015 , 651-653, 344-349	0.4	1

41	Investigation of localized necking in substrate-supported metal layers: Comparison of bifurcation and imperfection analyses. <i>International Journal of Plasticity</i> , 2015 , 65, 168-190	7.6	29
40	A Comparative Study of Forming Limit Diagrams Predicted by Two Different Plasticity Theories Involving Vertex Effects. <i>Key Engineering Materials</i> , 2015 , 651-653, 21-26	0.4	
39	Investigation and comparative analysis of plastic instability criteria: application to forming limit diagrams. <i>International Journal of Advanced Manufacturing Technology</i> , 2014 , 71, 1247-1262	3.2	37
38	Ductility limit prediction using a GTN damage model coupled with localization bifurcation analysis. <i>Mechanics of Materials</i> , 2014 , 76, 64-92	3.3	33
37	BIFURCATION ANALYSIS VERSUS MAXIMUM FORCE CRITERIA IN FORMABILITY LIMIT ASSESSMENT OF STRETCHED METAL SHEETS. <i>International Journal of Applied Mechanics</i> , 2014 , 06, 1450064	2.4	2
36	Effect of Microstructural and Morphological Parameters on the Formability of BCC Metal Sheets. <i>Steel Research International</i> , 2014 , 85, 980-987	1.6	4
35	Multiscale Finite Element Simulation of Forming Processes Based on Crystal Plasticity. <i>Key Engineering Materials</i> , 2014 , 611-612, 545-552	0.4	
34	Elasto-visco-plastic modeling of mild steels for sheet forming applications over a large range of strain rates. <i>International Journal of Solids and Structures</i> , 2013 , 50, 2691-2700	3.1	9
33	Strain localization analysis for single crystals and polycrystals: Towards microstructure-ductility linkage. <i>International Journal of Plasticity</i> , 2013 , 48, 1-33	7.6	41
32	New quadratic solid-shell elements and their evaluation on linear benchmark problems. <i>Computing (Vienna/New York)</i> , 2013 , 95, 373-394	2.2	15
31	Numerical investigation and experimental validation of a plasticity model for sheet steel forming. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2013 , 21, 015008	2	8
30	Dislocation-based model for the prediction of the behavior of b.c.c. materials [Grain size and strain path effects. <i>International Journal of Plasticity</i> , 2013 , 47, 29-48	7.6	44
29	Impact of Intragranular Substructure Parameters on the Forming Limit Diagrams of Single-Phase B.C.C. Steels. <i>Materials</i> , 2013 , 6, 5217-5233	3.5	
28	Physically-Motivated Elasto-Visco-Plastic Model for the Large Strain-Rate Behavior of Steels. <i>Key Engineering Materials</i> , 2013 , 554-557, 1164-1173	0.4	
27	Application of the continuum shell finite element SHB8PS to sheet forming simulation using an extended large strain anisotropic elastic-plastic formulation. <i>Archive of Applied Mechanics</i> , 2012 , 82, 1269-1290	2.2	19
26	Plastic Instability Based on Bifurcation Analysis: Effect of Hardening and Gurson Damage Parameters on Strain Localization. <i>Key Engineering Materials</i> , 2012 , 504-506, 35-40	0.4	1
25	Assumed-strain solid-shell formulation for the six-node finite element SHB6: evaluation on non-linear benchmark problems. <i>European Journal of Computational Mechanics</i> , 2012 , 21, 52-71	0.5	3
24	Impact of intragranular microstructure development on ductility limits of multiphase steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 3777-3785	5.3	4

23	Limit-point buckling analyses using solid, shell and solid-shell elements. <i>Journal of Mechanical Science and Technology</i> , 2011 , 25, 1105-1117	1.6	5
22	A new assumed strain solid-shell formulation [1] for the six-node prismatic finite element. <i>Journal of Mechanical Science and Technology</i> , 2011 , 25, 2345-2364	1.6	25
21	Prediction of Springback After Draw-Bending Test Using Different Material Models 2011 ,		2
20	A proposed set of popular limit-point buckling benchmark problems. <i>Structural Engineering and Mechanics</i> , 2011 , 38, 767-802		14
19	An improved assumed strain solid-shell element formulation with physical stabilization for geometric non-linear applications and elastic-plastic stability analysis. <i>International Journal for Numerical Methods in Engineering</i> , 2009 , 80, 1640-1686	2.4	59
18	Formability prediction of thin metal sheets using various localization criteria. <i>International Journal of Material Forming</i> , 2009 , 2, 423-426	2	2
17	Ellipticity loss analysis for tangent moduli deduced from a large strain elastic-plastic self-consistent model. <i>International Journal of Plasticity</i> , 2009 , 25, 205-238	7.6	43
16	Strain localization analysis using a large deformation anisotropic elastic-plastic model coupled with damage. <i>International Journal of Plasticity</i> , 2009 , 25, 1970-1996	7.6	80
15	Role of intragranular microstructure development in the macroscopic behavior of multiphase steels in the context of changing strain paths. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 517, 300-311	5.3	16
14	Strain localization analysis using a multiscale model. <i>Computational Materials Science</i> , 2009 , 45, 768-773	3.2	15
13	Strain localization and damage prediction during sheet metal forming. <i>International Journal of Material Forming</i> , 2008 , 1, 229-232	2	6
12	A quasi-static stability analysis for Biot's equation and standard dissipative systems. <i>European Journal of Mechanics, A/Solids</i> , 2007 , 26, 383-393	3.7	6
11	Investigation of advanced strain-path dependent material models for sheet metal forming simulations. <i>International Journal of Plasticity</i> , 2007 , 23, 951-979	7.6	64
10	A Multiscale Model Based On Intragranular Microstructure [1] Prediction Of Dislocation Patterns At The Microscopic Scale. <i>AIP Conference Proceedings</i> , 2007 ,	0	1
9	Finite Element Prediction of Sheet Forming Defects Using Elastic-Plastic, Damage and Localization Models. <i>AIP Conference Proceedings</i> , 2007 ,	0	1
8	A physically stabilized and locking-free formulation of the (SHB8PS) solid-shell element. <i>European Journal of Computational Mechanics</i> , 2007 , 16, 1037-1072	0.5	5
7	Springback Simulation: Impact of Some Advanced Constitutive Models and Numerical Parameters. <i>AIP Conference Proceedings</i> , 2005 ,	0	1
6	Ductility Loss Modelling for BCC Single Crystals. <i>International Journal of Forming Processes</i> , 2005 , 8, 135-158		11

5	SHB8PSB new adaptative, assumed-strain continuum mechanics shell element for impact analysis. <i>Computers and Structures</i> , 2002 , 80, 791-803	4.5	40
4	Stability of a Quasi-Static Evolution of a Visco-Elastic, Visco-Plastic or Elastic-Plastic Solid. <i>Nonconvex Optimization and Its Applications</i> , 2001 , 1-14		
3	Conditions suffisantes de stabilité pour les solides visqueux. <i>Comptes Rendus De L'Academie De Sciences - Serie Iib: Mecanique, Physique, Chimie, Astronomie</i> , 1999 , 327, 25-31		2
2	Comparison between the Marciniak and Kuczynski imperfection approach and bifurcation theory in the prediction of localized necking for porous ductile materials. <i>International Journal of Advanced Manufacturing Technology</i> , 1	3.2	
1	Analyticity of solutions to thermo-elastic-plastic flow problem with microtemperatures. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , e202000346	1	0