

Celal Soyarslan

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46
papers

888
citations

15
h-index

29
g-index

48
ext. papers

1,104
ext. citations

4.6
avg. IF

4.61
L-index

#	Paper	IF	Citations
46	Generation of 3D representative volume elements for heterogeneous materials: A review. <i>Progress in Materials Science</i> , 2018 , 96, 322-384	42.2	165
45	3D stochastic bicontinuous microstructures: Generation, topology and elasticity. <i>Acta Materialia</i> , 2018 , 149, 326-340	8.4	78
44	Structure-property relationships in nanoporous metallic glasses. <i>Acta Materialia</i> , 2016 , 106, 199-207	8.4	77
43	A combined experimental-numerical investigation of ductile fracture in bending of a class of ferritic-bainitic steel. <i>International Journal of Solids and Structures</i> , 2012 , 49, 1608-1626	3.1	57
42	Elastic and plastic Poisson's ratios of nanoporous gold. <i>Scripta Materialia</i> , 2016 , 110, 65-69	5.6	54
41	Characterization of anisotropy of sheet metals employing inhomogeneous strain fields for Yld2000-2D yield function. <i>International Journal of Solids and Structures</i> , 2012 , 49, 3517-3527	3.1	51
40	A cyclic twin bridge shear test for the identification of kinematic hardening parameters. <i>International Journal of Mechanical Sciences</i> , 2012 , 59, 31-43	5.5	47
39	A grooved in-plane torsion test for the investigation of shear fracture in sheet materials. <i>International Journal of Solids and Structures</i> , 2015 , 66, 121-132	3.1	46
38	Application of Continuum Damage Mechanics in discontinuous crack formation: Forward extrusion chevron predictions. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2008 , 88, 436-453	1	31
37	Tunable auxeticity and elastomechanical symmetry in a class of very low density core-shell cubic crystals. <i>Acta Materialia</i> , 2019 , 177, 280-292	8.4	24
36	Identification of fully coupled anisotropic plasticity and damage constitutive equations using a hybrid experimental-numerical methodology with various triaxialities. <i>International Journal of Damage Mechanics</i> , 2015 , 24, 683-710	3	21
35	A simple finite strain non-linear visco-plastic model for thermoplastics and its application to the simulation of incremental cold forming of polyvinylchloride (PVC). <i>International Journal of Mechanical Sciences</i> , 2013 , 66, 192-201	5.5	21
34	Phase contrast mediated switch of auxetic mechanism in composites of infilled re-entrant honeycomb microstructures. <i>Extreme Mechanics Letters</i> , 2020 , 35, 100641	3.9	19
33	Size affected dislocation activity in crystals: Advanced surface and grain boundary conditions. <i>Extreme Mechanics Letters</i> , 2017 , 13, 36-41	3.9	17
32	Modeling of fracture in small punch tests for small- and large-scale yielding conditions at various temperatures. <i>International Journal of Mechanical Sciences</i> , 2016 , 106, 266-285	5.5	15
31	Determining tensile yield stresses from Small Punch tests: A numerical-based scheme. <i>Materials and Design</i> , 2019 , 182, 107974	8.1	14
30	A Thermomechanically Consistent Constitutive Theory for Modeling Micro-Void and/or Micro-Crack Driven Failure in Metals at Finite Strains. <i>International Journal of Applied Mechanics</i> , 2016 , 08, 1650009	2.4	13

29	Finite deformation plasticity coupled with isotropic damage: Formulation in principal axes and applications. <i>Finite Elements in Analysis and Design</i> , 2010 , 46, 668-683	2.2	13
28	A damage coupled orthotropic finite plasticity model for sheet metal forming: CDM approach. <i>Computational Materials Science</i> , 2010 , 48, 150-165	3.2	12
27	Materials based design of structures: Computational modeling of the mechanical behavior of gold-polymer nanocomposites. <i>Mechanics of Materials</i> , 2016 , 94, 53-65	3.3	11
26	Variants of Lemaitre's damage model and their use in formability prediction of metallic materials. <i>Mechanics of Materials</i> , 2016 , 92, 58-79	3.3	11
25	Skeletonization-based beam finite element models for stochastic bicontinuous materials: Application to simulations of nanoporous gold. <i>Journal of Materials Research</i> , 2018 , 33, 3371-3382	2.5	9
24	An Experimental and Numerical Assessment of Sheet-Bulk Formability of Mild Steel DC04. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2011 , 133,	3.3	9
23	Effective elastic properties of 3D stochastic bicontinuous composites. <i>Mechanics of Materials</i> , 2019 , 137, 103098	3.3	8
22	Inverse method for identification of initial yield locus of sheet metals utilizing inhomogeneous deformation fields. <i>International Journal of Material Forming</i> , 2011 , 4, 121-128	2	8
21	Effect of Surface Elasticity on the Elastic Response of Nanoporous Gold. <i>Journal of Nanomechanics & Micromechanics</i> , 2017 , 7, 04017013		7
20	The effect of yield surface curvature change by cross hardening on forming limit diagrams of sheets. <i>International Journal of Mechanical Sciences</i> , 2016 , 117, 53-66	5.5	7
19	Inherent and induced anisotropic finite visco-plasticity with applications to the forming of DC06 sheets. <i>International Journal of Mechanical Sciences</i> , 2014 , 89, 101-111	5.5	6
18	Inverse Identification of CDM Model Parameters for DP1000 Steel Sheets Using a Hybrid Experimental-Numerical Methodology Spanning Various Stress Triaxiality Ratios. <i>Key Engineering Materials</i> , 2013 , 554-557, 2103-2110	0.4	5
17	Experimental and Computational Study of Ductile Fracture in Small Punch Tests. <i>Materials</i> , 2017 , 10,	3.5	5
16	Numerical Investigation of the Incremental Tube Forming Process. <i>Key Engineering Materials</i> , 2013 , 554-557, 664-670	0.4	5
15	Continuum Damage Mechanics (CDM) Based Local Approach to the Sheet-Bulk Metal Formability Prediction. <i>Advanced Materials Research</i> , 2013 , 769, 205-212	0.5	4
14	Thermomechanical formulation of ductile damage coupled to nonlinear isotropic hardening and multiplicative viscoplasticity. <i>Journal of the Mechanics and Physics of Solids</i> , 2016 , 91, 334-358	5	3
13	A directional modification of the Levkovitch-Bjvendsen cross-hardening model based on the stress deviator. <i>Mechanics of Materials</i> , 2015 , 86, 21-30	3.3	2
12	Gradient enhanced physically based plasticity: Implementation and application to a problem pertaining size effect 2016 ,		2

11	Computational modeling of amorphous polymers: A Lagrangian logarithmic strain space formulation of a glassy rubber constitutive model. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019 , 344, 887-909	5.7	2
10	A Class of Rate-Independent Lower-Order Gradient Plasticity Theories: Implementation and Application to Disc Torsion Problem. <i>Materials</i> , 2018 , 11,	3.5	2
9	Implementation and application of a gradient enhanced crystal plasticity model 2017 ,		1
8	A numerical study on intended and unintended failure mechanisms in blanking of sandwich plates 2013 ,		1
7	Characterization of Initial Anisotropy of Sheet Metals Employing Inhomogeneous Strain Fields 2011 ,		1
6	Finite element analysis of stress distribution on modified retentive tips of bar clasp. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012 , 15, 609-13	2.1	1
5	Insights into fracture mechanisms in nanoporous gold and polymer impregnated nanoporous gold. <i>Extreme Mechanics Letters</i> , 2020 , 39, 100815	3.9	1
4	Finite Element Method 2014 , 508-514		1
3	Broad stress triaxiality ratio band fracture experiments in DP900 metal sheets and corresponding predictive capability of advanced phenomenological and micromechanical fully coupled damage models. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 811, 140978	5.3	1
2	Lode Parameter Dependence and Quasi-Unilateral Effects in Continuum Damage Mechanics: Models and Applications in Metal Forming. <i>Key Engineering Materials</i> , 2015 , 651-653, 187-192	0.4	
1	Tool Design Induced Anisotropic Flow Behavior of Hot Extruded Aluminum Profiles. <i>Key Engineering Materials</i> , 2013 , 585, 131-138	0.4	