Celal Soyarslan

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/7673918/celal-soyarslan-publications-by-year.pdf
Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Broad stress triaxiality ratio band fracture experiments in DP900 metal sheets and corresponding predictive capability of advanced phenomenological and micromechanical fully coupled damage models. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 811, 140978	5.3	1
45	Phase contrast mediated switch of auxetic mechanism in composites of infilled re-entrant honeycomb microstructures. *Extreme Mechanics Letters*, **2020**, 35, 100641	3.9	19
44	Insights into fracture mechanisms in nanoporous gold and polymer impregnated nanoporous gold. *Extreme Mechanics Letters*, **2020**, 39, 100815	3.9	1
43	Tunable auxeticity and elastomechanical symmetry in a class of very low density core-shell cubic crystals. *Acta Materialia*, **2019**, 177, 280-292	8.4	24
42	Effective elastic properties of 3D stochastic bicontinuous composites. *Mechanics of Materials*, **2019**, 137, 103098	3.3	8
41	Determining tensile yield stresses from Small Punch tests: A numerical-based scheme. *Materials and Design*, **2019**, 182, 107974	8.1	14
40	Computational modeling of amorphous polymers: A Lagrangian logarithmic strain space formulation of a glass□rubber constitutive model. *Computer Methods in Applied Mechanics and Engineering*, **2019**, 344, 887-909	5.7	2
39	3D stochastic bicontinuous microstructures: Generation, topology and elasticity. *Acta Materialia*, **2018**, 149, 326-340	8.4	78
38	Generation of 3D representative volume elements for heterogeneous materials: A review. *Progress in Materials Science*, **2018**, 96, 322-384	42.2	165
37	Skeletonization-based beam finite element models for stochastic bicontinuous materials: Application to simulations of nanoporous gold. *Journal of Materials Research*, **2018**, 33, 3371-3382	2.5	9
36	A Class of Rate-Independent Lower-Order Gradient Plasticity Theories: Implementation and Application to Disc Torsion Problem. *Materials*, **2018**, 11,	3.5	2
35	Size affected dislocation activity in crystals: Advanced surface and grain boundary conditions. *Extreme Mechanics Letters*, **2017**, 13, 36-41	3.9	17
34	Effect of Surface Elasticity on the Elastic Response of Nanoporous Gold. *Journal of Nanomechanics & Micromechanics*, **2017**, 7, 04017013		7
33	Implementation and application of a gradient enhanced crystal plasticity model **2017**,		1
32	Experimental and Computational Study of Ductile Fracture in Small Punch Tests. *Materials*, **2017**, 10,	3.5	5
31	Elastic and plastic Poisson□ ratios of nanoporous gold. *Scripta Materialia*, **2016**, 110, 65-69	5.6	54
30	The effect of yield surface curvature change by cross hardening on forming limit diagrams of sheets. *International Journal of Mechanical Sciences*, **2016**, 117, 53-66	5.5	7

29	Structure-property relationships in nanoporous metallic glasses. *Acta Materialia*, **2016**, 106, 199-207	8.4	77
28	Materials based design of structures: Computational modeling of the mechanical behavior of gold-polymer nanocomposites. *Mechanics of Materials*, **2016**, 94, 53-65	3.3	11
27	Thermomechanical formulation of ductile damage coupled to nonlinear isotropic hardening and multiplicative viscoplasticity. *Journal of the Mechanics and Physics of Solids*, **2016**, 91, 334-358	5	3
26	A Thermomechanically Consistent Constitutive Theory for Modeling Micro-Void and/or Micro-Crack Driven Failure in Metals at Finite Strains. *International Journal of Applied Mechanics*, **2016**, 08, 1650009	2.4	13
25	Variants of Lemaitre's damage model and their use in formability prediction of metallic materials. *Mechanics of Materials*, **2016**, 92, 58-79	3.3	11
24	Gradient enhanced physically based plasticity: Implementation and application to a problem pertaining size effect **2016**,		2
23	Modeling of fracture in small punch tests for small- and large-scale yielding conditions at various temperatures. *International Journal of Mechanical Sciences*, **2016**, 106, 266-285	5.5	15
22	A directional modification of the Levkovitch–Svendsen cross-hardening model based on the stress deviator. *Mechanics of Materials*, **2015**, 86, 21-30	3.3	2
21	Identification of fully coupled anisotropic plasticity and damage constitutive equations using a hybrid experimental–numerical methodology with various triaxialities. *International Journal of Damage Mechanics*, **2015**, 24, 683-710	3	21
20	A grooved in-plane torsion test for the investigation of shear fracture in sheet materials. *International Journal of Solids and Structures*, **2015**, 66, 121-132	3.1	46
19	Lode Parameter Dependence and Quasi-Unilateral Effects in Continuum Damage Mechanics: Models and Applications in Metal Forming. *Key Engineering Materials*, **2015**, 651-653, 187-192	0.4	
18	Inherent and induced anisotropic finite visco-plasticity with applications to the forming of DC06 sheets. *International Journal of Mechanical Sciences*, **2014**, 89, 101-111	5.5	6
17	Finite Element Method **2014**, 508-514		1
16	Inverse Identification of CDM Model Parameters for DP1000 Steel Sheets Using a Hybrid Experimental-Numerical Methodology Spanning Various Stress Triaxiality Ratios. *Key Engineering Materials*, **2013**, 554-557, 2103-2110	0.4	5
15	A simple finite strain non-linear visco-plastic model for thermoplastics and its application to the simulation of incremental cold forming of polyvinylchloride (PVC). *International Journal of Mechanical Sciences*, **2013**, 66, 192-201	5.5	21
14	A numerical study on intended and unintended failure mechanisms in blanking of sandwich plates **2013**,		1
13	Tool Design Induced Anisotropic Flow Behavior of Hot Extruded Aluminum Profiles. *Key Engineering Materials*, **2013**, 585, 131-138	0.4	
12	Numerical Investigation of the Incremental Tube Forming Process. *Key Engineering Materials*, **2013**, 554-557, 664-670	0.4	5

11	Continuum Damage Mechanics (CDM) Based Local Approach to the Sheet-Bulk Metal Formability Prediction. *Advanced Materials Research*, **2013**, 769, 205-212	0.5	4
10	A cyclic twin bridge shear test for the identification of kinematic hardening parameters. *International Journal of Mechanical Sciences*, **2012**, 59, 31-43	5.5	47
9	A combined experimental–numerical investigation of ductile fracture in bending of a class of ferritic–martensitic steel. *International Journal of Solids and Structures*, **2012**, 49, 1608-1626	3.1	57
8	Characterization of anisotropy of sheet metals employing inhomogeneous strain fields for Yld2000-2D yield function. *International Journal of Solids and Structures*, **2012**, 49, 3517-3527	3.1	51
7	Finite element analysis of stress distribution on modified retentive tips of bar clasp. *Computer Methods in Biomechanics and Biomedical Engineering*, **2012**, 15, 609-13	2.1	1
6	Inverse method for identification of initial yield locus of sheet metals utilizing inhomogeneous deformation fields. *International Journal of Material Forming*, **2011**, 4, 121-128	2	8
5	An Experimental and Numerical Assessment of Sheet-Bulk Formability of Mild Steel DC04. *Journal of Manufacturing Science and Engineering, Transactions of the ASME*, **2011**, 133,	3.3	9
4	Characterization of Initial Anisotropy of Sheet Metals Employing Inhomogeneous Strain Fields **2011** ,		1
3	A damage coupled orthotropic finite plasticity model for sheet metal forming: CDM approach. *Computational Materials Science*, **2010**, 48, 150-165	3.2	12
2	Finite deformation plasticity coupled with isotropic damage: Formulation in principal axes and applications. *Finite Elements in Analysis and Design*, **2010**, 46, 668-683	2.2	13
1	Application of Continuum Damage Mechanics in discontinuous crack formation: Forward extrusion chevron predictions. *ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik*, **2008**, 88, 436-453	1	31