

Jm CÃ©sar De SÃ¡

List of Publications by Year in descending order

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81
papers

1,825
citations

279487

23
h-index

276539

41
g-index

86
all docs

86
docs citations

86
times ranked

1336
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal study of a cladding layer of Inconel 625 in Directed Energy Deposition (DED) process using a phase-field model. International Journal of Advanced Manufacturing Technology, 2022, 119, 3975-3993.	1.5	7
2	Damage Evolution Simulations via a Coupled Crystal Plasticity and Cohesive Zone Model for Additively Manufactured Austenitic SS 316L DED Components. Metals, 2022, 12, 1096.	1.0	0
3	Micromechanically-motivated phase field approach to ductile fracture. International Journal of Damage Mechanics, 2021, 30, 46-76.	2.4	11
4	Experimental and computational analysis of additively manufactured tensile specimens: Assessment of localized-cooling rate and ductile fracture using the Gurson-Tvergaard-Needleman damage model. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2021, 235, 1430-1442.	0.7	4
5	Assessment of scatter on material properties and its influence on formability in hole expansion. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2021, 235, 1262-1270.	0.7	1
6	Fracture analysis in directed energy deposition (DED) manufactured 316L stainless steel using a phase-field approach. Finite Elements in Analysis and Design, 2020, 177, 103417.	1.7	30
7	Earing profile and wall thickness prediction of a cylindrical cup for dual-phase steels using different yield criteria in FE simulation. AIP Conference Proceedings, 2019, , .	0.3	2
8	A simple and robust Coulomb frictional algorithm based on 3 additional degrees-of-freedom and smoothing. Finite Elements in Analysis and Design, 2019, 167, 103321.	1.7	7
9	General constitutive updating for finite strain formulations based on assumed strains and the Jacobian. Finite Elements in Analysis and Design, 2018, 143, 32-45.	1.7	2
10	Assessment of different ductile damage models and experimental validation. International Journal of Material Forming, 2018, 11, 435-444.	0.9	4
11	Effective 2D and 3D crack propagation with local mesh refinement and the screened Poisson equation. Engineering Fracture Mechanics, 2018, 189, 339-360.	2.0	149
12	A simple and unified implementation of phase field and gradient damage models. Advanced Modeling and Simulation in Engineering Sciences, 2018, 5, .	0.7	28
13	Fully-coupled piezoelectric assumed-strain least-squares nonlinear shell. Thin-Walled Structures, 2018, 131, 631-645.	2.7	4
14	Formability prediction for AHSS materials using damage models. Journal of Physics: Conference Series, 2017, 843, 012018.	0.3	6
15	Finite-strain low order shell using least-squares strains and two-parameter thickness extensibility. European Journal of Mechanics, A/Solids, 2017, 61, 293-314.	2.1	3
16	A study on the performance of ductile failure models under different range of stress triaxiality states with experimental validation. Journal of Physics: Conference Series, 2016, 734, 032122.	0.3	2
17	Non-local models for ductile failure. Journal of Physics: Conference Series, 2016, 734, 032133.	0.3	0
18	Semi-implicit finite strain constitutive integration and mixed strain/stress control based on intermediate configurations. Engineering Structures, 2016, 124, 344-360.	2.6	5

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19	A novel two-stage discrete crack method based on the screened Poisson equation and local mesh refinement. <i>Computational Mechanics</i> , 2016, 58, 1003-1018.	2.2	51
20	Evaluation of ductile failure models in Sheet Metal Forming. <i>MATEC Web of Conferences</i> , 2016, 80, 03004.	0.1	12
21	Integrated thermomechanical model for forming of glass containers. <i>MATEC Web of Conferences</i> , 2016, 80, 16010.	0.1	3
22	Structural analysis of a cross car beam using finite element models. <i>International Journal of Structural Integrity</i> , 2015, 6, 759-774.	1.8	0
23	A finite strain quadrilateral based on least-squares assumed strains. <i>Engineering Structures</i> , 2015, 100, 1-16.	2.6	4
24	The Axisymmetric Analysis of Circular Plates Using the Radial Point Interpolation Method. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2015, 16, 336-353.	1.4	19
25	Coulomb frictional contact by explicit projection in the cone for finite displacement quasi-static problems. <i>Computational Mechanics</i> , 2015, 55, 57-72.	2.2	19
26	Finite strain quadrilateral shell using least-squares fit of relative Lagrangian in-plane strains. <i>Finite Elements in Analysis and Design</i> , 2015, 98, 26-40.	1.7	8
27	Semi-implicit finite strain constitutive integration of porous plasticity models. <i>Finite Elements in Analysis and Design</i> , 2015, 104, 41-55.	1.7	7
28	A semi-implicit finite strain shell algorithm using in-plane strains based on least-squares. <i>Computational Mechanics</i> , 2015, 55, 673-696.	2.2	11
29	A simple assumed-strain quadrilateral shell element for finite strains and fracture. <i>Engineering With Computers</i> , 2015, 31, 691-709.	3.5	3
30	Assessment and comparison of non-local integral models for ductile damage. <i>International Journal of Damage Mechanics</i> , 2014, 23, 261-296.	2.4	29
31	An extended GTN model for ductile fracture under high and low stress triaxiality. <i>International Journal of Plasticity</i> , 2014, 54, 193-228.	4.1	167
32	Sensitivity analysis based crack propagation criterion for compressible and (near) incompressible hyperelastic materials. <i>Finite Elements in Analysis and Design</i> , 2014, 82, 1-15.	1.7	3
33	Blending moving least squares techniques with NURBS basis functions for nonlinear isogeometric analysis. <i>Computational Mechanics</i> , 2014, 53, 1327-1340.	2.2	16
34	A frictional mortar contact approach for the analysis of large inelastic deformation problems. <i>International Journal of Solids and Structures</i> , 2014, 51, 1697-1715.	1.3	27
35	Consistent tangent operators for implicit non-local models of integral type. <i>Computers and Structures</i> , 2014, 141, 59-73.	2.4	7
36	Damage driven crack initiation and propagation in ductile metals using XFEM. <i>Computational Mechanics</i> , 2013, 52, 161-179.	2.2	63

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37	Evaluation of shear mechanisms and influence of the calibration point on the numerical results of the GTN model. International Journal of Mechanical Sciences, 2013, 75, 407-422.	3.6	21
38	Ductile damage at large plastic strains: Models, numerical issues and transition to fracture. , 2013, , .		0
39	Towards energetic consistent transition from damage to fracture. , 2013, , .		0
40	Locking and its treatment for nonlinear isogeometric analysis. , 2013, , .		0
41	Some numerical issues on the use of XFEM for ductile fracture. Computational Mechanics, 2012, 50, 611-629.	2.2	18
42	The enhanced assumed strain method for the isogeometric analysis of nearly incompressible deformation of solids. International Journal for Numerical Methods in Engineering, 2012, 92, 56-78.	1.5	30
43	An assessment of isotropic constitutive models for ductile fracture under high and low stress triaxiality. International Journal of Plasticity, 2012, 30-31, 81-115.	4.1	129
44	Continuous-discontinuous formulation for ductile fracture. International Journal of Material Forming, 2011, 4, 271-281.	0.9	22
45	A Ductile Damage Nonlocal Model of Integral-type at Finite Strains: Formulation and Numerical Issues. International Journal of Damage Mechanics, 2011, 20, 515-557.	2.4	53
46	A comparison of shear mechanisms for the prediction of ductile failure under low stress triaxiality. International Journal of Structural Integrity, 2010, 1, 314-331.	1.8	14
47	Prediction of Forming Limits Based on a Coupled Approach Between Anisotropic Damage and Necking Models. , 2010, , .		0
48	Continuous-Discontinuous Model for Ductile Fracture. AIP Conference Proceedings, 2010, , .	0.3	1
49	Thermodynamical Framework for Ductile Damage and Plasticity. , 2010, , .		0
50	Classical and Thermodynamically Consistent Non-local Formulations for Ductile Damage: Comparison of Approaches. , 2010, , .		0
51	Improvement of the numerical prediction of ductile failure with an integral nonlocal damage model. International Journal of Material Forming, 2009, 2, 439-442.	0.9	11
52	Numerical integration algorithm of a new model for metal plasticity and fracture including pressure and lode angle dependence. International Journal of Material Forming, 2009, 2, 443-446.	0.9	8
53	Sheet metal formability evaluation using continuous damage mechanics. International Journal of Material Forming, 2009, 2, 463-466.	0.9	8
54	A proposal to deal with contact and friction by blending meshfree and finite element methods in forming processes. International Journal of Material Forming, 2008, 1, 177-188.	0.9	7

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55	Integration Of Heat Transfer Coefficient In Glass Forming Modeling With Special Interface Element. AIP Conference Proceedings, 2007, , .	0.3	1
56	Failure Prediction In Forming Processes. AIP Conference Proceedings, 2007, , .	0.3	0
57	Coupling Finite Element And Meshless Methods To Deal With Contact And Friction In Forging Processes. AIP Conference Proceedings, 2007, , .	0.3	1
58	Modelling of heat transfer at glass/mould interface in press and blow forming processes. Computers and Structures, 2007, 85, 1194-1205.	2.4	12
59	Damage modelling in metal forming problems using an implicit non-local gradient model. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 6646-6660.	3.4	50
60	Finite element prediction of ductile fracture in sheet metal forming processes. Journal of Materials Processing Technology, 2006, 177, 278-281.	3.1	38
61	Enhanced transverse shear strain shell formulation applied to large elasto-plastic deformation problems. International Journal for Numerical Methods in Engineering, 2005, 62, 1360-1398.	1.5	23
62	A partial factors methodology for structural safety assessment in non-linear analysis. Computers and Concrete, 2005, 2, 31-53.	0.7	2
63	Strong displacement discontinuities and Lagrange multipliers in the analysis of finite displacement fracture problems. Computational Mechanics, 2004, 35, 54-71.	2.2	23
64	Algorithms for the analysis of 3D finite strain contact problems. International Journal for Numerical Methods in Engineering, 2004, 61, 1107-1151.	1.5	14
65	On the use of an enhanced transverse shear strain shell element for problems involving large rotations. Computational Mechanics, 2003, 30, 286-296.	2.2	52
66	Analysis of 3D problems using a new enhanced strain hexahedral element. International Journal for Numerical Methods in Engineering, 2003, 58, 1637-1682.	1.5	86
67	Numerical modelling of ductile plastic damage in bulk metal forming. International Journal of Mechanical Sciences, 2003, 45, 273-294.	3.6	69
68	A gradient model for finite strain elastoplasticity coupled with damage. Finite Elements in Analysis and Design, 2003, 39, 1191-1235.	1.7	37
69	A new volumetric and shear locking-free 3D enhanced strain element. Engineering Computations, 2003, 20, 896-925.	0.7	79
70	Development of shear locking-free shell elements using an enhanced assumed strain formulation. International Journal for Numerical Methods in Engineering, 2002, 53, 1721-1750.	1.5	75
71	Development of a one point quadrature shell element for nonlinear applications with contact and anisotropy. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 5177-5206.	3.4	57
72	An efficient algorithm to estimate optimal preform die shape parameters in forging. Engineering Computations, 2001, 18, 1057-1077.	0.7	16

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73	Quadrilateral elements for the solution of elasto-plastic finite strain problems. International Journal for Numerical Methods in Engineering, 2001, 51, 883-917.	1.5	24
74	A quadrilateral mesh generator for adaptive procedures in bulk forming processes. Engineering Computations, 2000, 17, 950-969.	0.7	2
75	Non-linear analysis of sandwich shells: the effect of core plasticity. Computers and Structures, 2000, 76, 337-346.	2.4	19
76	Analysis of reinforced concrete with external composite strengthening. Composites Part B: Engineering, 2000, 31, 527-534.	5.9	6
77	Simulation model for hot and cold forging by mixed methods including adaptive mesh refinement. Engineering Computations, 1996, 13, 339-360.	0.7	9
78	Finite element analysis of reinforced rubber shells. Engineering Computations, 1987, 4, 319-331.	0.7	5
79	Numerical modelling of glass forming processes. Engineering Computations, 1986, 3, 266-275.	0.7	46
80	Failure Analysis of Metallic Materials in Sheet Metal Forming Using Finite Element Method. Materials Science Forum, 0, 587-588, 736-740.	0.3	0
81	Fracture Prediction Based on Evaluation of Initial Porosity Induced By Direct Energy Deposition. European Journal of Computational Mechanics, 0, , .	0.0	3