

# Jm Cesar De S

## List of Publications by Citations

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71  
papers

1,470  
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21  
h-index

37  
g-index

86  
ext. papers

1,656  
ext. citations

2.9  
avg, IF

4.75  
L-index

#	Paper	IF	Citations
71	Effective 2D and 3D crack propagation with local mesh refinement and the screened Poisson equation. <i>Engineering Fracture Mechanics</i> , <b>2018</b> , 189, 339-360	4.2	126
70	An extended GTN model for ductile fracture under high and low stress triaxiality. <i>International Journal of Plasticity</i> , <b>2014</b> , 54, 193-228	7.6	123
69	An assessment of isotropic constitutive models for ductile fracture under high and low stress triaxiality. <i>International Journal of Plasticity</i> , <b>2012</b> , 30-31, 81-115	7.6	115
68	Analysis of 3D problems using a new enhanced strain hexahedral element. <i>International Journal for Numerical Methods in Engineering</i> , <b>2003</b> , 58, 1637-1682	2.4	79
67	A new volumetric and shear locking-free 3D enhanced strain element. <i>Engineering Computations</i> , <b>2003</b> , 20, 896-925	1.4	65
66	Development of shear locking-free shell elements using an enhanced assumed strain formulation. <i>International Journal for Numerical Methods in Engineering</i> , <b>2002</b> , 53, 1721-1750	2.4	65
65	Numerical modelling of ductile plastic damage in bulk metal forming. <i>International Journal of Mechanical Sciences</i> , <b>2003</b> , 45, 273-294	5.5	63
64	Development of a one point quadrature shell element for nonlinear applications with contact and anisotropy. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2002</b> , 191, 5177-5206	5.7	50
63	Damage driven crack initiation and propagation in ductile metals using XFEM. <i>Computational Mechanics</i> , <b>2013</b> , 52, 161-179	4	46
62	A novel two-stage discrete crack method based on the screened Poisson equation and local mesh refinement. <i>Computational Mechanics</i> , <b>2016</b> , 58, 1003-1018	4	43
61	On the use of an enhanced transverse shear strain shell element for problems involving large rotations. <i>Computational Mechanics</i> , <b>2003</b> , 30, 286-296	4	43
60	Damage modelling in metal forming problems using an implicit non-local gradient model. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2006</b> , 195, 6646-6660	5.7	42
59	A Ductile Damage Nonlocal Model of Integral-type at Finite Strains: Formulation and Numerical Issues. <i>International Journal of Damage Mechanics</i> , <b>2011</b> , 20, 515-557	3	40
58	Finite element prediction of ductile fracture in sheet metal forming processes. <i>Journal of Materials Processing Technology</i> , <b>2006</b> , 177, 278-281	5.3	35
57	A gradient model for finite strain elastoplasticity coupled with damage. <i>Finite Elements in Analysis and Design</i> , <b>2003</b> , 39, 1191-1235	2.2	33
56	Numerical modelling of glass forming processes. <i>Engineering Computations</i> , <b>1986</b> , 3, 266-275	1.4	33
55	Handbook of Damage Mechanics <b>2015</b> ,		28

54	Assessment and comparison of non-local integral models for ductile damage. <i>International Journal of Damage Mechanics</i> , <b>2014</b> , 23, 261-296	3	22
53	Strong displacement discontinuities and Lagrange multipliers in the analysis of finite displacement fracture problems. <i>Computational Mechanics</i> , <b>2004</b> , 35, 54-71	4	22
52	A frictional mortar contact approach for the analysis of large inelastic deformation problems. <i>International Journal of Solids and Structures</i> , <b>2014</b> , 51, 1697-1715	3.1	21
51	Enhanced transverse shear strain shell formulation applied to large elasto-plastic deformation problems. <i>International Journal for Numerical Methods in Engineering</i> , <b>2005</b> , 62, 1360-1398	2.4	21
50	Continuous-discontinuous formulation for ductile fracture. <i>International Journal of Material Forming</i> , <b>2011</b> , 4, 271-281	2	20
49	Quadrilateral elements for the solution of elasto-plastic finite strain problems. <i>International Journal for Numerical Methods in Engineering</i> , <b>2001</b> , 51, 883-917	2.4	20
48	The enhanced assumed strain method for the isogeometric analysis of nearly incompressible deformation of solids. <i>International Journal for Numerical Methods in Engineering</i> , <b>2012</b> , 92, 56-78	2.4	19
47	The Axisymmetric Analysis of Circular Plates Using the Radial Point Interpolation Method. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , <b>2015</b> , 16, 336-353 <sup>0.7</sup>		18
46	A simple and unified implementation of phase field and gradient damage models. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , <b>2018</b> , 5,	2.7	18
45	Non-linear analysis of sandwich shells: the effect of core plasticity. <i>Computers and Structures</i> , <b>2000</b> , 76, 337-346	4.5	17
44	An efficient algorithm to estimate optimal preform die shape parameters in forging. <i>Engineering Computations</i> , <b>2001</b> , 18, 1057-1077	1.4	16
43	Coulomb frictional contact by explicit projection in the cone for finite displacement quasi-static problems. <i>Computational Mechanics</i> , <b>2015</b> , 55, 57-72	4	15
42	Evaluation of shear mechanisms and influence of the calibration point on the numerical results of the GTN model. <i>International Journal of Mechanical Sciences</i> , <b>2013</b> , 75, 407-422	5.5	15
41	A comparison of shear mechanisms for the prediction of ductile failure under low stress triaxiality. <i>International Journal of Structural Integrity</i> , <b>2010</b> , 1, 314-331	1	13
40	Algorithms for the analysis of 3D finite strain contact problems. <i>International Journal for Numerical Methods in Engineering</i> , <b>2004</b> , 61, 1107-1151	2.4	13
39	Blending moving least squares techniques with NURBS basis functions for nonlinear isogeometric analysis. <i>Computational Mechanics</i> , <b>2014</b> , 53, 1327-1340	4	12
38	Some numerical issues on the use of XFEM for ductile fracture. <i>Computational Mechanics</i> , <b>2012</b> , 50, 611-629	4	12
37	Modelling of heat transfer at glass/mould interface in press and blow forming processes. <i>Computers and Structures</i> , <b>2007</b> , 85, 1194-1205	4.5	12

36	Fracture analysis in directed energy deposition (DED) manufactured 316L stainless steel using a phase-field approach. <i>Finite Elements in Analysis and Design</i> , <b>2020</b> , 177, 103417	2.2	11
35	A semi-implicit finite strain shell algorithm using in-plane strains based on least-squares. <i>Computational Mechanics</i> , <b>2015</b> , 55, 673-696	4	9
34	Evaluation of ductile failure models in Sheet Metal Forming. <i>MATEC Web of Conferences</i> , <b>2016</b> , 80, 03004-3	4.3	9
33	Simulation model for hot and cold forging by mixed methods including adaptive mesh refinement. <i>Engineering Computations</i> , <b>1996</b> , 13, 339-360	1.4	9
32	Improvement of the numerical prediction of ductile failure with an integral nonlocal damage model. <i>International Journal of Material Forming</i> , <b>2009</b> , 2, 439-442	2	8
31	Finite strain quadrilateral shell using least-squares fit of relative Lagrangian in-plane strains. <i>Finite Elements in Analysis and Design</i> , <b>2015</b> , 98, 26-40	2.2	7
30	Numerical integration algorithm of a new model for metal plasticity and fracture including pressure and lode angle dependence. <i>International Journal of Material Forming</i> , <b>2009</b> , 2, 443-446	2	7
29	A proposal to deal with contact and friction by blending meshfree and finite element methods in forming processes. <i>International Journal of Material Forming</i> , <b>2008</b> , 1, 177-188	2	7
28	Micromechanically-motivated phase field approach to ductile fracture. <i>International Journal of Damage Mechanics</i> , <b>2021</b> , 30, 46-76	3	7
27	Semi-implicit finite strain constitutive integration of porous plasticity models. <i>Finite Elements in Analysis and Design</i> , <b>2015</b> , 104, 41-55	2.2	5
26	Consistent tangent operators for implicit non-local models of integral type. <i>Computers and Structures</i> , <b>2014</b> , 141, 59-73	4-5	5
25	Analysis of reinforced concrete with external composite strengthening. <i>Composites Part B: Engineering</i> , <b>2000</b> , 31, 527-534	10	5
24	Sheet metal formability evaluation using continuous damage mechanics. <i>International Journal of Material Forming</i> , <b>2009</b> , 2, 463-466	2	4
23	Finite element analysis of reinforced rubber shells. <i>Engineering Computations</i> , <b>1987</b> , 4, 319-331	1.4	4
22	Semi-implicit finite strain constitutive integration and mixed strain/stress control based on intermediate configurations. <i>Engineering Structures</i> , <b>2016</b> , 124, 344-360	4-7	4
21	A simple and robust Coulomb frictional algorithm based on 3 additional degrees-of-freedom and smoothing. <i>Finite Elements in Analysis and Design</i> , <b>2019</b> , 167, 103321	2.2	3
20	Sensitivity analysis based crack propagation criterion for compressible and (near) incompressible hyperelastic materials. <i>Finite Elements in Analysis and Design</i> , <b>2014</b> , 82, 1-15	2.2	3
19	Formability prediction for AHSS materials using damage models. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 843, 012018	0.3	3

18	Finite-strain low order shell using least-squares strains and two-parameter thickness extensibility. <i>European Journal of Mechanics, A/Solids</i> , <b>2017</b> , 61, 293-314	3-7	3
17	Fully-coupled piezoelectric assumed-strain least-squares nonlinear shell. <i>Thin-Walled Structures</i> , <b>2018</b> , 131, 631-645	4-7	3
16	A simple assumed-strain quadrilateral shell element for finite strains and fracture. <i>Engineering With Computers</i> , <b>2015</b> , 31, 691-709	4-5	2
15	General constitutive updating for finite strain formulations based on assumed strains and the Jacobian. <i>Finite Elements in Analysis and Design</i> , <b>2018</b> , 143, 32-45	2-2	2
14	A finite strain quadrilateral based on least-squares assumed strains. <i>Engineering Structures</i> , <b>2015</b> , 100, 1-16	4-7	2
13	A quadrilateral mesh generator for adaptive procedures in bulk forming processes. <i>Engineering Computations</i> , <b>2000</b> , 17, 950-969	1-4	2
12	Experimental and computational analysis of additively manufactured tensile specimens: Assessment of localized-cooling rate and ductile fracture using the Gurson-Tvergaard-Needleman damage model. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , <b>2021</b> , 235, 1430-1442	1-3	2
11	Assessment of different ductile damage models and experimental validation. <i>International Journal of Material Forming</i> , <b>2018</b> , 11, 435-444	2	2
10	Integrated thermomechanical model for forming of glass containers. <i>MATEC Web of Conferences</i> , <b>2016</b> , 80, 16010	0-3	1
9	Continuous-Discontinuous Model for Ductile Fracture <b>2010</b> ,		1
8	Coupling Finite Element And Meshless Methods To Deal With Contact And Friction In Forging Processes. <i>AIP Conference Proceedings</i> , <b>2007</b> ,	0	1
7	A study on the performance of ductile failure models under different range of stress triaxiality states with experimental validation. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 734, 032122	0-3	1
6	Thermal study of a cladding layer of Inconel 625 in Directed Energy Deposition (DED) process using a phase-field model. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2022</b> , 119, 3975	3-2	0
5	A partial factors methodology for structural safety assessment in non-linear analysis. <i>Computers and Concrete</i> , <b>2005</b> , 2, 31-53		0
4	Structural analysis of a cross car beam using finite element models. <i>International Journal of Structural Integrity</i> , <b>2015</b> , 6, 759-774	1	
3	Local and Nonlocal Modeling of Ductile Damage <b>2010</b> , 23-72		
2	Failure Analysis of Metallic Materials in Sheet Metal Forming Using Finite Element Method. <i>Materials Science Forum</i> , <b>2008</b> , 587-588, 736-740	0-4	
1	Assessment of scatter on material properties and its influence on formability in hole expansion. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , <b>2021</b> , 235, 1262-1270	1-3	

