Lo Morin

List of Publications by Citations

31 papers	369 citations	12 h-index	18 g-index
32 ext. papers	451 ext. citations	3.6 avg, IF	3.99 L-index

#	Paper	IF	Citations
31	An approximate yield criterion for porous single crystals. *European Journal of Mechanics, A/Solids*, **2015**, 51, 1-10	3.7	42
30	Coalescence of voids by internal necking: Theoretical estimates and numerical results. *Journal of the Mechanics and Physics of Solids*, **2015**, 75, 140-158	5	39
29	A Gurson-type criterion for plastically anisotropic solids containing arbitrary ellipsoidal voids. *International Journal of Solids and Structures*, **2015**, 77, 86-101	3.1	33
28	Numerical studies of porous ductile materials containing arbitrary ellipsoidal voids II: Evolution of the length and orientation of the void axes. *European Journal of Mechanics, A/Solids*, **2013**, 42, 490-507	3.7	30
27	Application of a model of plastic porous materials including void shape effects to the prediction of ductile failure under shear-dominated loadings. *Journal of the Mechanics and Physics of Solids*, **2016**, 94, 148-166	5	30
26	A unified criterion for the growth and coalescence of microvoids. *Journal of the Mechanics and Physics of Solids*, **2016**, 97, 19-36	5	22
25	A Gurson-type layer model for ductile porous solids with isotropic and kinematic hardening. *International Journal of Solids and Structures*, **2017**, 118-119, 167-178	3.1	21
24	Numerical assessment, implementation and application of an extended Gurson model accounting for void size effects. *European Journal of Mechanics, A/Solids*, **2015**, 51, 183-192	3.7	20
23	Laser Shock Peening: Toward the Use of Pliable Solid Polymers for Confinement. *Metals*, **2019**, 9, 793	2.3	17
22	A new technique for finite element limit-analysis of Hill materials, with an application to the assessment of criteria for anisotropic plastic porous solids. *International Journal of Engineering Science*, **2014**, 74, 65-79	5.7	13
21	An analytical Lode angle dependent damage model for ductile porous materials. *Engineering Fracture Mechanics*, **2015**, 149, 119-133	4.2	13
20	Gursons Criterion and Its Derivation Revisited. *Journal of Applied Mechanics, Transactions ASME*, **2014**, 81,	2.7	13
19	A damage model for ductile porous materials with a spherically anisotropic matrix. *International Journal of Damage Mechanics*, **2016**, 25, 315-335	3	10
18	Classical and sequential limit analysis revisited. *Comptes Rendus - Mecanique*, **2018**, 346, 336-349	2.1	10
17	Numerical and experimental study of a 5754-aluminum alloy processed by heterogeneous repetitive corrugation and straightening. *Journal of Materials Research and Technology*, **2020**, 9, 1941-1947	5.5	10
16	Generalized Euclidean Distances for Elasticity Tensors. *Journal of Elasticity*, **2020**, 138, 221-232	1.5	8
15	Prediction of shear-dominated ductile fracture in a butterfly specimen using a model of plastic porous solids including void shape effects. *European Journal of Mechanics, A/Solids*, **2017**, 61, 433-442	3.7	7

14	Numerical simulation of model problems in plasticity based on field dislocation mechanics. *Modelling and Simulation in Materials Science and Engineering*, **2019**, 27, 085012	2	6
13	Reconstruction of heterogeneous surface residual-stresses in metallic materials from X-ray diffraction measurements. *Mechanics of Materials*, **2021**, 158, 103882	3.3	6
12	A homogenization-based damage model for stiffness loss in ductile metal-matrix composites. *Journal of the Mechanics and Physics of Solids*, **2020**, 137, 103812	5	5
11	Identification of constitutive equations at very high strain rates using shock wave produced by laser. *European Journal of Mechanics, A/Solids*, **2022**, 92, 104432	3.7	4
10	Designing isotropic composites reinforced by aligned transversely isotropic particles of spheroidal shape. *Comptes Rendus - Mecanique*, **2018**, 346, 1123-1135	2.1	2
9	Void coalescence in porous ductile solids containing two populations of cavities. *European Journal of Mechanics, A/Solids*, **2018**, 72, 341-353	3.7	2
8	A reduced single-pattern model for the numerical simulation of multi-pattern metal forming. *International Journal of Material Forming*,1	2	2
7	Modeling and simulation of laser shock waves in elasto-plastic 1D layered specimens. *International Journal of Solids and Structures*, **2022**, 239-240, 111422	3.1	1
6	Periodic smoothing splines for FFT-based solvers. *Computer Methods in Applied Mechanics and Engineering*, **2021**, 373, 113549	5.7	1
5	An interphase approach of size effects in ductile porous materials. *International Journal of Fracture*, **2021**, 230, 71	2.3	1
4	Experimental study and micromechanical modelling of the effective elastic properties of Fe□iB2 composites. *Composite Structures*, **2021**, 272, 114122	5.3	1
3	Analysis of a model of field crack mechanics for brittle materials. *Computer Methods in Applied Mechanics and Engineering*, **2021**, 386, 114061	5.7	0
2	A Deconvolution Method for the Mapping of Residual Stresses by X-Ray Diffraction. *Experimental Mechanics*,1	2.6	
1	Analysis of shear ductile damage in forming processes using a micromechanical model with void shape effects. *International Journal of Solids and Structures*, **2022**, 248, 111640	3.1	