LÃ©o Morin

List of Publications by Year
in descending order

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32	574	623574	642610
papers	citations	14 h-index	23 g-index

32	32	32	306
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An approximate yield criterion for porous single crystals. European Journal of Mechanics, A/Solids, 2015, 51, 1-10.	2.1	54
2	Coalescence of voids by internal necking: Theoretical estimates and numerical results. Journal of the Mechanics and Physics of Solids, 2015, 75, 140-158.	2.3	52
3	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.	2.3	47
4	Numerical studies of porous ductile materials containing arbitrary ellipsoidal voids â€“ II: Evolution of the length and orientation of the void axes. European Journal of Mechanics, A/Solids, 2013, 42, 490-507.	2.1	44
5	A Gurson-type criterion for plastically anisotropic solids containing arbitrary ellipsoidal voids. International Journal of Solids and Structures, 2015, 77, 86-101.	1.3	39
6	A unified criterion for the growth and coalescence of microvoids. Journal of the Mechanics and Physics of Solids, 2016, 97, 19-36.	2.3	30
7	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.	1.3	29
8	Gurson's Criterion and Its Derivation Revisited. Journal of Applied Mechanics, Transactions ASME, 2014, 81, .	1.1	24
9	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.	2.1	24
10	Laser Shock Peening: Toward the Use of Pliable Solid Polymers for Confinement. Metals, 2019, 9, 793.	1.0	23
11	Classical and sequential limit analysis revisited. Comptes Rendus - Mecanique, 2018, 346, 336-349.	2.1	22
12	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.	2.6	18
13	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.	2.1	17
14	An analytical Lode angle dependent damage model for ductile porous materials. Engineering Fracture Mechanics, 2015, 149, 119-133.	2.0	16
15	Generalized Euclidean Distances for Elasticity Tensors. Journal of Elasticity, 2020, 138, 221-232.	0.9	16
16	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.	2.7	14
17	A homogenization-based damage model for stiffness loss in ductile metal-matrix composites. Journal of the Mechanics and Physics of Solids, 2020, 137, 103812.	2.3	14
18	Reconstruction of heterogeneous surface residual-stresses in metallic materials from X-ray diffraction measurements. Mechanics of Materials, 2021, 158, 103882.	1.7	13

#	Article	IF	Citations
19	Identification of constitutive equations at very high strain rates using shock wave produced by laser. European Journal of Mechanics, A/Solids, 2022, 92, 104432.	2.1	12
20	A damage model for ductile porous materials with a spherically anisotropic matrix. International Journal of Damage Mechanics, 2016, 25, 315-335.	2.4	11
21	Numerical simulation of model problems in plasticity based on field dislocation mechanics. Modelling and Simulation in Materials Science and Engineering, 2019, 27, 085012.	0.8	10
22	Experimental study and micromechanical modelling of the effective elastic properties of Feâ€“TiB2 composites. Composite Structures, 2021, 272, 114122.	3.1	10
23	Void coalescence in porous ductile solids containing two populations of cavities. European Journal of Mechanics, A/Solids, 2018, 72, 341-353.	2.1	6
24	Periodic smoothing splines for FFT-based solvers. Computer Methods in Applied Mechanics and Engineering, 2021, 373, 113549.	3.4	6
25	A reduced single-pattern model for the numerical simulation of multi-pattern metal forming. International Journal of Material Forming, 2021, 14, 1403-1416.	0.9	5
26	Analysis of a model of field crack mechanics for brittle materials. Computer Methods in Applied Mechanics and Engineering, 2021, 386, 114061.	3.4	5
27	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.	1.3	4
28	Designing isotropic composites reinforced by aligned transversely isotropic particles of spheroidal shape. Comptes Rendus - Mecanique, 2018, 346, 1123-1135.	2.1	3
29	Modeling and simulation of laser shock waves in elasto-plastic 1D layered specimens. International Journal of Solids and Structures, 2022, 239-240, 111422.	1.3	2
30	A Deconvolution Method for the Mapping of Residual Stresses by X-Ray Diffraction. Experimental Mechanics, 2022, 62, 1349-1362.	1.1	2
31	An interphase approach of size effects in ductile porous materials. International Journal of Fracture, 2021, 230, 71.	1.1	1
32	A model of porous plastic single crystals based on fractal slip lines distribution. Journal of the Mechanics and Physics of Solids, 2022, 167, 104948.	2.3	1