

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Identification of constitutive equations at very high strain rates using shock wave produced by laser. <i>European Journal of Mechanics, A/Solids</i> , 2022, 92, 104432.	2.1	12
2	Modeling and simulation of laser shock waves in elasto-plastic 1D layered specimens. <i>International Journal of Solids and Structures</i> , 2022, 239-240, 111422.	1.3	2
3	A Deconvolution Method for the Mapping of Residual Stresses by X-Ray Diffraction. <i>Experimental Mechanics</i> , 2022, 62, 1349-1362.	1.1	2
4	Analysis of shear ductile damage in forming processes using a micromechanical model with void shape effects. <i>International Journal of Solids and Structures</i> , 2022, 248, 111640.	1.3	4
5	A model of porous plastic single crystals based on fractal slip lines distribution. <i>Journal of the Mechanics and Physics of Solids</i> , 2022, 167, 104948.	2.3	1
6	Periodic smoothing splines for FFT-based solvers. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 373, 113549.	3.4	6
7	An interphase approach of size effects in ductile porous materials. <i>International Journal of Fracture</i> , 2021, 230, 71.	1.1	1
8	A reduced single-pattern model for the numerical simulation of multi-pattern metal forming. <i>International Journal of Material Forming</i> , 2021, 14, 1403-1416.	0.9	5
9	Reconstruction of heterogeneous surface residual-stresses in metallic materials from X-ray diffraction measurements. <i>Mechanics of Materials</i> , 2021, 158, 103882.	1.7	13
10	Experimental study and micromechanical modelling of the effective elastic properties of Fe-TiB ₂ composites. <i>Composite Structures</i> , 2021, 272, 114122.	3.1	10
11	Analysis of a model of field crack mechanics for brittle materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 386, 114061.	3.4	5
12	Generalized Euclidean Distances for Elasticity Tensors. <i>Journal of Elasticity</i> , 2020, 138, 221-232.	0.9	16
13	Numerical and experimental study of a 5754-aluminum alloy processed by heterogeneous repetitive corrugation and straightening. <i>Journal of Materials Research and Technology</i> , 2020, 9, 1941-1947.	2.6	18
14	A homogenization-based damage model for stiffness loss in ductile metal-matrix composites. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 137, 103812.	2.3	14
15	Laser Shock Peening: Toward the Use of Pliable Solid Polymers for Confinement. <i>Metals</i> , 2019, 9, 793.	1.0	23
16	Numerical simulation of model problems in plasticity based on field dislocation mechanics. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019, 27, 085012.	0.8	10
17	Classical and sequential limit analysis revisited. <i>Comptes Rendus - Mecanique</i> , 2018, 346, 336-349.	2.1	22
18	Designing isotropic composites reinforced by aligned transversely isotropic particles of spheroidal shape. <i>Comptes Rendus - Mecanique</i> , 2018, 346, 1123-1135.	2.1	3

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19	Void coalescence in porous ductile solids containing two populations of cavities. <i>European Journal of Mechanics, A/Solids</i> , 2018, 72, 341-353.	2.1	6
20	A Gurson-type layer model for ductile porous solids with isotropic and kinematic hardening. <i>International Journal of Solids and Structures</i> , 2017, 118-119, 167-178.	1.3	29
21	Prediction of shear-dominated ductile fracture in a butterfly specimen using a model of plastic porous solids including void shape effects. <i>European Journal of Mechanics, A/Solids</i> , 2017, 61, 433-442.	2.1	17
22	Application of a model of plastic porous materials including void shape effects to the prediction of ductile failure under shear-dominated loadings. <i>Journal of the Mechanics and Physics of Solids</i> , 2016, 94, 148-166.	2.3	47
23	A unified criterion for the growth and coalescence of microvoids. <i>Journal of the Mechanics and Physics of Solids</i> , 2016, 97, 19-36.	2.3	30
24	A damage model for ductile porous materials with a spherically anisotropic matrix. <i>International Journal of Damage Mechanics</i> , 2016, 25, 315-335.	2.4	11
25	An analytical Lode angle dependent damage model for ductile porous materials. <i>Engineering Fracture Mechanics</i> , 2015, 149, 119-133.	2.0	16
26	A Gurson-type criterion for plastically anisotropic solids containing arbitrary ellipsoidal voids. <i>International Journal of Solids and Structures</i> , 2015, 77, 86-101.	1.3	39
27	Coalescence of voids by internal necking: Theoretical estimates and numerical results. <i>Journal of the Mechanics and Physics of Solids</i> , 2015, 75, 140-158.	2.3	52
28	Numerical assessment, implementation and application of an extended Gurson model accounting for void size effects. <i>European Journal of Mechanics, A/Solids</i> , 2015, 51, 183-192.	2.1	24
29	An approximate yield criterion for porous single crystals. <i>European Journal of Mechanics, A/Solids</i> , 2015, 51, 1-10.	2.1	54
30	Gurson's Criterion and Its Derivation Revisited. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014, 81, .	1.1	24
31	A new technique for finite element limit-analysis of Hill materials, with an application to the assessment of criteria for anisotropic plastic porous solids. <i>International Journal of Engineering Science</i> , 2014, 74, 65-79.	2.7	14
32	Numerical studies of porous ductile materials containing arbitrary ellipsoidal voids " II: Evolution of the length and orientation of the void axes. <i>European Journal of Mechanics, A/Solids</i> , 2013, 42, 490-507.	2.1	44