

Nicolas Jacques

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39
papers

538
citations

15
h-index

22
g-index

44
ext. papers

636
ext. citations

2.6
avg, IF

4.22
L-index

#	Paper	IF	Citations
39	A three-pronged approach to predict the effect of plastic orthotropy on the formability of thin sheets subjected to dynamic biaxial stretching. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 146, 104189	5	6
38	Effect of Strain Rate on the Tensile Mechanical Properties of Electron Beam Welded OFE Copper and High-Purity Niobium for SRF Applications. <i>Journal of Dynamic Behavior of Materials</i> , 2021 , 7, 485-498 ^{1.8}	1.8	2
37	Effect of forward speed on the level-crossing distribution of kinematic variables in multidirectional ocean waves. <i>Ocean Engineering</i> , 2021 , 235, 109345	3.9	1
36	Influence on strain-rate history effects on the development of necking instabilities under dynamic loading conditions. <i>International Journal of Solids and Structures</i> , 2021 , 230-231, 111152	3.1	1
35	An analytical model for necking strains in stretched plates under dynamic biaxial loading. <i>International Journal of Solids and Structures</i> , 2020 , 200-201, 198-212	3.1	15
34	Effect of strain rate on tensile mechanical properties of high-purity niobium single crystals for SRF applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 797, 140258	5.3	3
33	Experimental investigation of the water entry and/or exit of axisymmetric bodies. <i>Journal of Fluid Mechanics</i> , 2020 , 901,	3.7	5
32	A two-dimensional analytical model of vertical water entry for asymmetric bodies with flow separation. <i>Applied Ocean Research</i> , 2019 , 92, 101878	3.4	3
31	Effet de l'aération lors d'impacts hydrodynamiques : essais et simulations. <i>Houille Blanche</i> , 2019 , 105, 74-80	0.3	
30	An analytical expression for the Hugoniot stress-strain curve of elastic-plastic cellular materials. <i>International Journal of Impact Engineering</i> , 2018 , 115, 76-80	4	3
29	Modelling of the behaviour of metal foams under shock compression. <i>EPJ Web of Conferences</i> , 2018 , 183, 01041	0.3	
28	Characterisation of the high strain rate behaviour of tubular materials. <i>EPJ Web of Conferences</i> , 2018 , 183, 02046	0.3	
27	The influence of aeration and compressibility on slamming loads during cone water entry. <i>Journal of Fluids and Structures</i> , 2017 , 70, 24-46	3.1	12
26	Modelling of micro-inertia effects in closed-cell foams with application to acoustic and shock wave propagation. <i>International Journal of Solids and Structures</i> , 2016 , 97-98, 445-457	3.1	8
25	On the dynamic behavior of porous ductile solids containing spheroidal voids. <i>International Journal of Solids and Structures</i> , 2016 , 97-98, 150-167	3.1	2
24	A coupled experimental/numerical approach for the characterization of material behaviour at high strain-rate using electromagnetic tube expansion testing. <i>International Journal of Impact Engineering</i> , 2016 , 98, 75-87	4	12
23	A micromechanical model for the dynamic behavior of porous media in the void coalescence stage. <i>International Journal of Solids and Structures</i> , 2015 , 71, 1-18	3.1	15

22	Constitutive behavior of porous ductile materials accounting for micro-inertia and void shape. <i>Mechanics of Materials</i> , 2015 , 80, 324-339	3.3	15
21	A constitutive model for porous solids taking into account microscale inertia and progressive void nucleation. <i>Mechanics of Materials</i> , 2015 , 80, 311-323	3.3	12
20	A constitutive model for the compressive response of metallic closed-cell foams including micro-inertia effects. <i>EPJ Web of Conferences</i> , 2015 , 94, 04014	0.3	
19	Dynamic Failure of Ductile Materials. <i>Procedia IUTAM</i> , 2014 , 10, 201-220		17
18	Multiscale modelling of voided ductile solids with micro-inertia and application to dynamic crack propagation. <i>Procedia IUTAM</i> , 2012 , 3, 53-66		9
17	Hydrodynamic loads during water impact of three-dimensional solids: Modelling and experiments. <i>Journal of Fluids and Structures</i> , 2012 , 28, 211-231	3.1	23
16	Effects of microscale inertia on dynamic ductile crack growth. <i>Journal of the Mechanics and Physics of Solids</i> , 2012 , 60, 665-690	5	41
15	Shock propagation in liquids containing bubbly clusters: a continuum approach. <i>Journal of Fluid Mechanics</i> , 2012 , 701, 304-332	3.7	16
14	On the influence of microscale inertia on dynamic ductile crack extension. <i>EPJ Web of Conferences</i> , 2012 , 26, 04021	0.3	
13	Void coalescence in a porous solid under dynamic loading conditions. <i>International Journal of Fracture</i> , 2012 , 173, 203-213	2.3	14
12	Experimental study of coefficients during vertical water entry of axisymmetric rigid shapes at constant speeds. <i>Applied Ocean Research</i> , 2012 , 37, 183-197	3.4	44
11	Modélisation de l'atténuation d'une onde de pression sous-marine par rideau de bulles. <i>Houille Blanche</i> , 2011 , 97, 19-24	0.3	2
10	Assessment and Comparison of Several Analytical Models of Water Impact. <i>International Journal of Multiphysics</i> , 2010 , 4, 125-140	0.6	19
9	A micromechanical constitutive model for dynamic damage and fracture of ductile materials. <i>International Journal of Fracture</i> , 2010 , 162, 159-175	2.3	27
8	Nonlinear vibration of viscoelastic sandwich beams by the harmonic balance and finite element methods. <i>Journal of Sound and Vibration</i> , 2010 , 329, 4251-4265	3.9	31
7	A micromechanical constitutive model for dynamic damage and fracture of ductile materials. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2010 , 159-175	0.3	1
6	Modelling of dynamic ductile fracture and application to the simulation of plate impact tests on tantalum. <i>Journal of the Mechanics and Physics of Solids</i> , 2008 , 56, 1624-1650	5	83
5	Buckling and wrinkling during strip conveying in processing lines. <i>Journal of Materials Processing Technology</i> , 2007 , 190, 33-40	5.3	27

4	Simulation numérique du plissement des tôles lors de leur transport en continu dans les usines sidérurgiques. <i>European Journal of Computational Mechanics</i> , 2006 , 15, 209-220	0.5	
3	Validation of an interaction law for the Eshelby inclusion problem in elasto-viscoplasticity. <i>International Journal of Solids and Structures</i> , 2005 , 42, 1923-1941	3.1	30
2	On mode localisation in tensile plate buckling. <i>Comptes Rendus - Mécanique</i> , 2005 , 333, 804-809	2.1	35
1	Characterization of the Formability of High-Purity Polycrystalline Niobium Sheets for SRF Applications. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 1-19	1.8	2