

Nicolas Jacques

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4381101/nicolas-jacques-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
38	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
37	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
36	On mode localisation in tensile plate buckling. <i>Comptes Rendus - Mecanique</i> , 2005 , 333, 804-809	2.1	35
35	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
34	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
33	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
32	Buckling and wrinkling during strip conveying in processing lines. <i>Journal of Materials Processing Technology</i> , 2007 , 190, 33-40	5.3	27
31	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
30	Assessment and Comparison of Several Analytical Models of Water Impact. <i>International Journal of Multiphysics</i> , 2010 , 4, 125-140	0.6	19
29	Dynamic Failure of Ductile Materials. <i>Procedia IUTAM</i> , 2014 , 10, 201-220		17
28	Shock propagation in liquids containing bubbly clusters: a continuum approach. <i>Journal of Fluid Mechanics</i> , 2012 , 701, 304-332	3.7	16
27	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
26	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
25	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
24	Void coalescence in a porous solid under dynamic loading conditions. <i>International Journal of Fracture</i> , 2012 , 173, 203-213	2.3	14
23	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

22	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
21	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
20	Multiscale modelling of voided ductile solids with micro-inertia and application to dynamic crack propagation. <i>Procedia IUTAM</i> , 2012 , 3, 53-66		9
19	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
18	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
17	Experimental investigation of the water entry and/or exit of axisymmetric bodies. <i>Journal of Fluid Mechanics</i> , 2020 , 901,	3.7	5
16	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
15	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
14	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
13	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
12	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
11	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}		2
10	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
9	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
8	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
7	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
6	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	
5	On the influence of microscale inertia on dynamic ductile crack extension. <i>EPJ Web of Conferences</i> , 2012 , 26, 04021	0.3	

- | | | |
|---|--|-----|
| 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 | Effet de l'abrasion lors d'impacts hydrodynamiques : essais et simulations. <i>Houille Blanche</i> , 2019 , 105, 74-80 | 0.3 |
| 2 | Modelling of the behaviour of metal foams under shock compression. <i>EPJ Web of Conferences</i> , 2018 , 183, 01041 | 0.3 |
| 1 | Characterisation of the high strain rate behaviour of tubular materials. <i>EPJ Web of Conferences</i> , 2018 , 183, 02046 | 0.3 |