

Lorenzo Bardella

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5287469/lorenzo-bardella-publications-by-citations.pdf>

Version: 2024-04-27

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.

44
papers

1,021
citations

18
h-index

31
g-index

51
ext. papers

1,163
ext. citations

3.4
avg, IF

5.09
L-index

#	Paper	IF	Citations
44	On the elastic behavior of syntactic foams. <i>International Journal of Solids and Structures</i> , 2001 , 38, 7235-7260	3.2	165
43	Modelling the torsion of thin metal wires by distortion gradient plasticity. <i>Journal of the Mechanics and Physics of Solids</i> , 2015 , 78, 467-492	5	72
42	A deformation theory of strain gradient crystal plasticity that accounts for geometrically necessary dislocations. <i>Journal of the Mechanics and Physics of Solids</i> , 2006 , 54, 128-160	5	71
41	Elastic design of syntactic foamed sandwiches obtained by filling of three-dimensional sandwich-fabric panels. <i>International Journal of Solids and Structures</i> , 2001 , 38, 307-333	3.1	66
40	A critical evaluation of micromechanical models for syntactic foams. <i>Mechanics of Materials</i> , 2012 , 50, 53-69	3.3	49
39	Size effects in phenomenological strain gradient plasticity constitutively involving the plastic spin. <i>International Journal of Engineering Science</i> , 2010 , 48, 550-568	5.7	49
38	Some remarks on the strain gradient crystal plasticity modelling, with particular reference to the material length scales involved. <i>International Journal of Plasticity</i> , 2007 , 23, 296-322	7.6	41
37	A micromechanical model for quasi-brittle compressive failure of glass-microballoons/thermoset-matrix syntactic foams. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 2605-2616	6	37
36	Influence of material parameters and crystallography on the size effects describable by means of strain gradient plasticity. <i>Journal of the Mechanics and Physics of Solids</i> , 2008 , 56, 2906-2934	5	36
35	A finite element framework for distortion gradient plasticity with applications to bending of thin foils. <i>International Journal of Solids and Structures</i> , 2016 , 96, 288-299	3.1	34
34	Three-dimensional elastic solutions for functionally graded circular plates. <i>European Journal of Mechanics, A/Solids</i> , 2011 , 30, 219-235	3.7	30
33	On the Finite Element implementation of higher-order gradient plasticity, with focus on theories based on plastic distortion incompatibility. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016 , 310, 840-865	5.7	26
32	Latent hardening size effect in small-scale plasticity. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2013 , 21, 055009	2	26
31	A comparison between crystal and isotropic strain gradient plasticity theories with accent on the role of the plastic spin. <i>European Journal of Mechanics, A/Solids</i> , 2009 , 28, 638-646	3.7	25
30	A phenomenological constitutive law for the nonlinear viscoelastic behaviour of epoxy resins in the glassy state. <i>European Journal of Mechanics, A/Solids</i> , 2001 , 20, 907-924	3.7	24
29	On the compressive strength of glass microballoons-based syntactic foams. <i>Mechanics of Materials</i> , 2015 , 82, 63-77	3.3	22
28	An alternative explanation of back-relaxation in ionic polymer metal composites. <i>Extreme Mechanics Letters</i> , 2017 , 13, 78-83	3.9	20

27	An extension of the Secant Method for the homogenization of the nonlinear behavior of composite materials. <i>International Journal of Engineering Science</i> , 2003 , 41, 741-768	5.7	19
26	On the role of higher-order conditions in distortion gradient plasticity. <i>Journal of the Mechanics and Physics of Solids</i> , 2018 , 118, 293-321	5	18
25	Modelling compression sensing in ionic polymer metal composites. <i>Smart Materials and Structures</i> , 2017 , 26, 035030	3.4	17
24	A micromechanical model to study failure of polymer-glass syntactic foams at high strain rates. <i>Computational Materials Science</i> , 2017 , 135, 189-204	3.2	14
23	Reliability of first-order shear deformation models for sandwich beams. <i>Journal of Mechanics of Materials and Structures</i> , 2008 , 3, 1187-1206	1.2	14
22	A structural model for plane sandwich beams including transverse core deformability and arbitrary boundary conditions. <i>European Journal of Mechanics, A/Solids</i> , 2016 , 58, 172-186	3.7	13
21	A critical evaluation of mechanical models for sandwich beams. <i>Journal of Sandwich Structures and Materials</i> , 2012 , 14, 629-654	2.1	13
20	Modeling actuation and sensing in ionic polymer metal composites by electrochemo-poromechanics. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 148, 104292	5	12
19	Influence of shear on sensing of ionic polymer metal composites. <i>European Journal of Mechanics, A/Solids</i> , 2019 , 77, 103750	3.7	10
18	Two features of the uniaxial compression of a glassy epoxy resin: the yield stress rate-dependence and the volumetric instability. <i>Mechanics of Time-Dependent Materials</i> , 2011 , 15, 255-275	1.2	10
17	Explicit Analytic Solutions for the Accurate Evaluation of the Shear Stresses in Sandwich Beams. <i>Journal of Engineering Mechanics - ASCE</i> , 2012 , 138, 502-507	2.4	9
16	Time integration errors and some new functionals for the dynamics of a free mass. <i>Computers and Structures</i> , 2003 , 81, 2361-2372	4.5	9
15	Structural theory and finite element modelling of linear elastic sandwich beams subject to severe boundary conditions. <i>European Journal of Mechanics, A/Solids</i> , 2017 , 61, 393-407	3.7	8
14	Newmark's Time Integration Method From the Discretization of Extended Functionals. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2005 , 72, 527	2.7	8
13	On the coupling of mechanics with bioelectricity and its role in morphogenesis. <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20200177	4.1	7
12	Failure of glass-microballoons/thermoset-matrix syntactic foams subject to hydrostatic loading. <i>European Journal of Mechanics, A/Solids</i> , 2018 , 70, 58-74	3.7	7
11	Accurate modelling of the linear elastic flexure of composite beams warped by midlayer slip, with emphasis on concrete-timber systems. <i>International Journal of Mechanical Sciences</i> , 2014 , 87, 268-280	5.5	7
10	On explicit analytic solutions for the accurate evaluation of the shear stress in sandwich beams with a clamped end. <i>Composite Structures</i> , 2014 , 112, 157-168	5.3	7

9	On Structural Theories for Ionic Polymer Metal Composites: Balancing Between Accuracy and Simplicity. <i>Journal of Elasticity</i> , 2020 , 141, 227-272	1.5	6
8	Asymptotic analysis of compression sensing in ionic polymer metal composites: The role of interphase regions with variable properties. <i>Mathematics in Engineering</i> , 2021 , 3, 1-31	1.2	6
7	A potential for higher-order phenomenological strain gradient plasticity to predict reliable response under non-proportional loading. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019 , 475, 20190258	2.4	5
6	A note on the solution of the electro-elastic boundary-value problem for rank-two laminates at finite strains. <i>Meccanica</i> , 2019 , 54, 1971-1982	2.1	2
5	Modelling the cyclic torsion of polycrystalline micron-sized copper wires by distortion gradient plasticity. <i>Philosophical Magazine</i> , 2020 , 100, 2352-2364	1.6	2
4	Special issue on Recent Advances on the Mechanics of Materials <i>Meccanica</i> , 2018 , 53, 509-510	2.1	1
3	Strain Gradient Plasticity: Theory and Implementation. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2020 , 101-149	0.6	0
2	Erratum for Explicit Analytic Solutions for the Accurate Evaluation of the Shear Stresses in Sandwich Beams by Lorenzo Bardella and Daniele Tonelli. <i>Journal of Engineering Mechanics - ASCE</i> , 2012 , 138, 1302-1302	2.4	
1	Discussion on the paper Simulation of porosity by microballoon dispersion in epoxy and urethane: Mechanical measurements and models by M. A. El-Hadek and H. V. Tippur, <i>Journal of Materials Science</i> , 37, 1649-1660, 2002, [1]. <i>Journal of Materials Science Letters</i> , 2003 , 22, 1643-1646		