

Lorenzo Bardella

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.

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	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
43	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
42	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
41	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
40	Strain Gradient Plasticity: Theory and Implementation. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2020 , 101-149	0.6	0
39	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
38	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
37	Influence of shear on sensing of ionic polymer metal composites. <i>European Journal of Mechanics, A/Solids</i> , 2019 , 77, 103750	3.7	10
36	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
35	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
34	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
33	Special issue on Recent Advances on the Mechanics of Materials <i>Meccanica</i> , 2018 , 53, 509-510	2.1	1
32	Modelling compression sensing in ionic polymer metal composites. <i>Smart Materials and Structures</i> , 2017 , 26, 035030	3.4	17
31	An alternative explanation of back-relaxation in ionic polymer metal composites. <i>Extreme Mechanics Letters</i> , 2017 , 13, 78-83	3.9	20
30	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
29	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
28	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

27	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
26	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
25	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
24	On the compressive strength of glass microballoons-based syntactic foams. <i>Mechanics of Materials</i> , 2015 , 82, 63-77	3.3	22
23	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
22	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
21	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
20	Latent hardening size effect in small-scale plasticity. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2013 , 21, 055009	2	26
19	A critical evaluation of micromechanical models for syntactic foams. <i>Mechanics of Materials</i> , 2012 , 50, 53-69	3.3	49
18	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
17	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	
16	A critical evaluation of mechanical models for sandwich beams. <i>Journal of Sandwich Structures and Materials</i> , 2012 , 14, 629-654	2.1	13
15	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
14	Three-dimensional elastic solutions for functionally graded circular plates. <i>European Journal of Mechanics, A/Solids</i> , 2011 , 30, 219-235	3.7	30
13	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
12	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
11	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
10	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

9	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
8	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
7	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
6	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		
5	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
4	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
3	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
2	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
1	On the elastic behavior of syntactic foams. <i>International Journal of Solids and Structures</i> , 2001 , 38, 7235-7260	3.26	165