

Martín Ignacio Idiart

List of Publications by Year in descending order

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34
papers

460
citations

840776

11
h-index

713466

21
g-index

34
all docs

34
docs citations

34
times ranked

305
citing authors

#	ARTICLE	IF	CITATIONS
1	Cavitation in elastomeric solids: A defect-growth theory. <i>Journal of the Mechanics and Physics of Solids</i> , 2011, 59, 1464-1487.	4.8	81
2	Field statistics in nonlinear composites. I. Theory. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2007, 463, 183-202.	2.1	54
3	Fiber-reinforced hyperelastic solids: a realizable homogenization constitutive theory. <i>Journal of Engineering Mathematics</i> , 2010, 68, 57-83.	1.2	47
4	Modeling the macroscopic behavior of two-phase nonlinear composites by infinite-rank laminates. <i>Journal of the Mechanics and Physics of Solids</i> , 2008, 56, 2599-2617.	4.8	43
5	An Exact Result for the Macroscopic Response of Porous Neo-Hookean Solids. <i>Journal of Elasticity</i> , 2009, 95, 99-105.	1.9	29
6	Variational linear comparison bounds for nonlinear composites with anisotropic phases. I. General results. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2007, 463, 907-924.	2.1	27
7	Second-order estimates for nonlinear isotropic composites with spherical pores and rigid particles. <i>Comptes Rendus - Mecanique</i> , 2005, 333, 147-154.	2.1	21
8	Effects of internal pore pressure on closed-cell elastomeric foams. <i>International Journal of Solids and Structures</i> , 2012, 49, 2793-2798.	2.7	18
9	Estimates for the overall linear properties of pointwise heterogeneous solids with application to elasto-viscoplasticity. <i>Journal of the Mechanics and Physics of Solids</i> , 2016, 97, 317-332.	4.8	16
10	The macroscopic behavior of power-law and ideally plastic materials with elliptical distribution of porosity. <i>Mechanics Research Communications</i> , 2008, 35, 583-588.	1.8	14
11	Nonlinear sequential laminates reproducing hollow sphere assemblages. <i>Comptes Rendus - Mecanique</i> , 2007, 335, 363-368.	2.1	13
12	Viscoplasticity of voided cubic crystals under hydrostatic loading. <i>International Journal of Solids and Structures</i> , 2018, 147, 156-165.	2.7	9
13	Modeling two-phase ferroelectric composites by sequential laminates. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2014, 22, 025010.	2.0	8
14	Porous polycrystal plasticity modeling of neutron-irradiated austenitic stainless steels. <i>Journal of Nuclear Materials</i> , 2020, 542, 152463.	2.7	8
15	On the overall response of elastomeric solids with pressurized cavities. <i>Comptes Rendus - Mecanique</i> , 2012, 340, 359-368.	2.1	7
16	A model problem concerning ionic transport in microstructured solid electrolytes. <i>Continuum Mechanics and Thermodynamics</i> , 2015, 27, 941-957.	2.2	7
17	A phenomenological constitutive theory for polycrystalline ferroelectric ceramics based on orientation distribution functions. <i>European Journal of Mechanics, A/Solids</i> , 2020, 82, 103982.	3.7	7
18	On Microstructure Evolution in Fiber-Reinforced Elastomers and Implications for Their Mechanical Response and Stability. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2011, 133, .	1.4	6

#	ARTICLE	IF	CITATIONS
19	Bounding the plastic strength of polycrystalline voided solids by linear-comparison homogenization techniques. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150380.	2.1	6
20	An evaluation of a class of phenomenological theories of ferroelectricity in polycrystalline ceramics. <i>Journal of Engineering Mathematics</i> , 2018, 113, 13-22.	1.2	6
21	Modeling microstructural effects in dilatational plasticity of polycrystalline materials. <i>Procedia IUTAM</i> , 2012, 3, 314-330.	1.2	5
22	Model reduction by mean-field homogenization in viscoelastic composites. I. Primal theory. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20200407.	2.1	5
23	Influence of second-phase inclusions on the electro-deformation of ferroelectric ceramics. <i>International Journal of Solids and Structures</i> , 2016, 80, 381-392.	2.7	4
24	Space-charge polarization by confined ion migration in microstructured solid dielectrics. <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 123, 172-189.	4.8	3
25	Model reduction by mean-field homogenization in viscoelastic composites. II. Application to rigidly reinforced solids. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20200408.	2.1	3
26	Attainability of the Hashin-Shtrikman bounds for two-phase well-ordered composites with a nonlinear phase. <i>Comptes Rendus - Mecanique</i> , 2013, 341, 766-769.	2.1	2
27	Bounds on the hydrostatic plastic strength of voided polycrystals and implications for linear-comparison homogenization techniques. <i>Comptes Rendus - Mecanique</i> , 2014, 342, 25-31.	2.1	2
28	A generalized-secant homogenization scheme for viscoplastic polycrystalline solids under imposed deformations. <i>Comptes Rendus - Mecanique</i> , 2015, 343, 179-186.	2.1	2
29	Nonlinear ionic transport through microstructured solid electrolytes: homogenization estimates. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2016, 24, 075008.	2.0	2
30	Multiphase Conductors Realizing Aleksandrov's Mean. <i>SIAM Journal on Applied Mathematics</i> , 2016, 76, 1792-1798.	1.8	2
31	Model reduction by mean-field homogenization in viscoelastic composites. III. Dual theory. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021, 477, 20200869.	2.1	2
32	Exact results for weakly nonlinear composites and implications for homogenization methods. <i>Comptes Rendus - Mecanique</i> , 2020, 348, 893-909.	0.7	1
33	Explicit estimates versus numerical bounds for the electrical conductivity of dispersions with dissimilar particle shape and distribution. <i>Journal of Engineering Mathematics</i> , 2020, 123, 165-171.	1.2	0
34	A class of coherent potentials for two-phase creeping solids. <i>Acta Mechanica</i> , 2021, 232, 4081.	2.1	0