

Martín Ignacio Idiart

List of Publications by Year in descending order

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34
papers

460
citations

840776

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34
all docs

34
docs citations

34
times ranked

305
citing authors

#	ARTICLE	IF	CITATIONS
1	Model reduction by mean-field homogenization in viscoelastic composites. III. Dual theory. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20200869.	2.1	2
2	A class of coherent potentials for two-phase creeping solids. Acta Mechanica, 2021, 232, 4081.	2.1	0
3	Porous polycrystal plasticity modeling of neutron-irradiated austenitic stainless steels. Journal of Nuclear Materials, 2020, 542, 152463.	2.7	8
4	Explicit estimates versus numerical bounds for the electrical conductivity of dispersions with dissimilar particle shape and distribution. Journal of Engineering Mathematics, 2020, 123, 165-171.	1.2	0
5	Model reduction by mean-field homogenization in viscoelastic composites. I. Primal theory. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200407.	2.1	5
6	Model reduction by mean-field homogenization in viscoelastic composites. II. Application to rigidly reinforced solids. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200408.	2.1	3
7	A phenomenological constitutive theory for polycrystalline ferroelectric ceramics based on orientation distribution functions. European Journal of Mechanics, A/Solids, 2020, 82, 103982.	3.7	7
8	Exact results for weakly nonlinear composites and implications for homogenization methods. Comptes Rendus - Mecanique, 2020, 348, 893-909.	0.7	1
9	Space-charge polarization by confined ion migration in microstructured solid dielectrics. Journal of the Mechanics and Physics of Solids, 2019, 123, 172-189.	4.8	3
10	An evaluation of a class of phenomenological theories of ferroelectricity in polycrystalline ceramics. Journal of Engineering Mathematics, 2018, 113, 13-22.	1.2	6
11	Viscoplasticity of voided cubic crystals under hydrostatic loading. International Journal of Solids and Structures, 2018, 147, 156-165.	2.7	9
12	Estimates for the overall linear properties of pointwise heterogeneous solids with application to elasto-viscoplasticity. Journal of the Mechanics and Physics of Solids, 2016, 97, 317-332.	4.8	16
13	Nonlinear ionic transport through microstructured solid electrolytes: homogenization estimates. Modelling and Simulation in Materials Science and Engineering, 2016, 24, 075008.	2.0	2
14	Multiphase Conductors Realizing Aleksandrov's Mean. SIAM Journal on Applied Mathematics, 2016, 76, 1792-1798.	1.8	2
15	Influence of second-phase inclusions on the electro-deformation of ferroelectric ceramics. International Journal of Solids and Structures, 2016, 80, 381-392.	2.7	4
16	Bounding the plastic strength of polycrystalline voided solids by linear-comparison homogenization techniques. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20150380.	2.1	6
17	A generalized-secant homogenization scheme for viscoplastic polycrystalline solids under imposed deformations. Comptes Rendus - Mecanique, 2015, 343, 179-186.	2.1	2
18	A model problem concerning ionic transport in microstructured solid electrolytes. Continuum Mechanics and Thermodynamics, 2015, 27, 941-957.	2.2	7

#	ARTICLE	IF	CITATIONS
19	Modeling two-phase ferroelectric composites by sequential laminates. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2014, 22, 025010.	2.0	8
20	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
21	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
22	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
23	On the overall response of elastomeric solids with pressurized cavities. <i>Comptes Rendus - Mecanique</i> , 2012, 340, 359-368.	2.1	7
24	Modeling microstructural effects in dilatational plasticity of polycrystalline materials. <i>Procedia IUTAM</i> , 2012, 3, 314-330.	1.2	5
25	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
26	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
27	Fiber-reinforced hyperelastic solids: a realizable homogenization constitutive theory. <i>Journal of Engineering Mathematics</i> , 2010, 68, 57-83.	1.2	47
28	An Exact Result for the Macroscopic Response of Porous Neo-Hookean Solids. <i>Journal of Elasticity</i> , 2009, 95, 99-105.	1.9	29
29	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
30	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
31	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
32	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
33	Nonlinear sequential laminates reproducing hollow sphere assemblages. <i>Comptes Rendus - Mecanique</i> , 2007, 335, 363-368.	2.1	13
34	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