

Pedro Ponte Castaeda

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.

138
papers

6,428
citations

39
h-index

77
g-index

142
ext. papers

6,828
ext. citations

3.6
avg, IF

6.44
L-index

| # | Paper | IF | Citations |
|-----|---|-----|-----------|
| 138 | Statistics of the stress, strain-rate and spin fields in viscoplastic polycrystals. <i>International Journal of Solids and Structures</i> , 2021 , 217-218, 193-214 | 3.1 | 2 |
| 137 | Differential variational estimates for the macroscopic response and field statistics of elasto-viscoplastic polycrystals. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 147, 104202 | 5 | 1 |
| 136 | Tangent second-order homogenisation estimates for incompressible hyperelastic composites with fibrous microstructures and anisotropic phases. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 147, 104251 | 5 | 3 |
| 135 | Macroscopic response and microstructure evolution in viscoplastic polycrystals with pressurized pores. <i>International Journal of Fracture</i> , 2021 , 230, 43 | 2.3 | |
| 134 | Field statistics in linearized elastic and viscous composites and polycrystals. <i>International Journal of Solids and Structures</i> , 2021 , 224, 111030 | 3.1 | 1 |
| 133 | Anisotropic Oldroyd-type models for non-colloidal suspensions of viscoelastic particles in Newtonian and yield-stress fluids via homogenization. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2021 , 295, 104625 | 2.7 | 0 |
| 132 | Theoretical predictions for the rheology of dispersions of highly deformable particles under large amplitude oscillatory shear. <i>Journal of Fluid Mechanics</i> , 2020 , 897, | 3.7 | 2 |
| 131 | On the optimality of the variational linear comparison bounds for porous viscoplastic materials. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 138, 103898 | 5 | 1 |
| 130 | Modeling Sea Ice. <i>Notices of the American Mathematical Society</i> , 2020 , 67, 1 | 1.5 | 6 |
| 129 | A differential homogenization method for estimating the macroscopic response and field statistics of particulate viscoelastic composites. <i>International Journal of Solids and Structures</i> , 2020 , 204-205, 199-219 | 3.1 | 11 |
| 128 | Fiber-constrained dielectric elastomer composites: Finite deformation response and instabilities under non-aligned loadings. <i>International Journal of Solids and Structures</i> , 2020 , 184, 73-98 | 3.1 | 4 |
| 127 | Reinforced elastomers: Homogenization, macroscopic stability and relaxation. <i>Journal of the Mechanics and Physics of Solids</i> , 2020 , 136, 103689 | 5 | 3 |
| 126 | Exact results for weakly nonlinear composites and implications for homogenization methods. <i>Comptes Rendus - Mecanique</i> , 2020 , 348, 893-909 | 0.3 | 1 |
| 125 | A microstructurally-based, multi-scale, continuum-mechanical model for the passive behaviour of skeletal muscle tissue. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 97, 171-186 | 4.1 | 26 |
| 124 | Constitutive models for anisotropic dielectric elastomer composites: Finite deformation response and instabilities. <i>Mechanics Research Communications</i> , 2019 , 96, 75-86 | 2.2 | 5 |
| 123 | A MULTIPHASE HOMOGENIZATION MODEL FOR THE VISCOPLASTIC RESPONSE OF INTACT SEA ICE: THE EFFECT OF POROSITY AND CRYSTALLOGRAPHIC TEXTURE. <i>International Journal for Multiscale Computational Engineering</i> , 2019 , 17, 121-150 | 2.4 | 2 |
| 122 | A multi-scale homogenization model for fine-grained porous viscoplastic polycrystals: I □ Finite-strain theory. <i>Journal of the Mechanics and Physics of Solids</i> , 2018 , 115, 102-122 | 5 | 15 |

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| 121 | A multi-scale homogenization model for fine-grained porous viscoplastic polycrystals: II □ Applications to FCC and HCP materials. <i>Journal of the Mechanics and Physics of Solids</i> , 2018 , 115, 77-101 | 5 | 9 |
| 120 | A symmetric fully optimized second-order method for nonlinear homogenization. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2018 , 98, 222-254 | 1 | 7 |
| 119 | Fully optimized second-order homogenization estimates for the macroscopic response and texture evolution of low-symmetry viscoplastic polycrystals. <i>International Journal of Plasticity</i> , 2018 , 110, 272-293 | 7.6 | 10 |
| 118 | Macroscopic instabilities and domain formation in neo-Hookean laminates. <i>Journal of the Mechanics and Physics of Solids</i> , 2018 , 118, 98-114 | 5 | 8 |
| 117 | A finite-strain homogenization model for viscoplastic porous single crystals: I □ Theory. <i>Journal of the Mechanics and Physics of Solids</i> , 2017 , 107, 560-579 | 5 | 25 |
| 116 | A finite-strain homogenization model for viscoplastic porous single crystals: II □ Applications. <i>Journal of the Mechanics and Physics of Solids</i> , 2017 , 107, 580-602 | 5 | 14 |
| 115 | Macroscopic response of strongly anisotropic porous viscoplastic single crystals and applications to ice. <i>Extreme Mechanics Letters</i> , 2017 , 10, 41-49 | 3.9 | 7 |
| 114 | A homogenisation method for the multiscale modelling of transversely isotropic skeletal muscle tissue. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2017 , 17, 183-184 | 0.2 | |
| 113 | Multiscale modelling of skeletal muscle tissue by incorporating microstructural effects. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2016 , 16, 75-76 | 0.2 | 3 |
| 112 | Macroscopic constitutive relations for elastomers reinforced with short aligned fibers: Instabilities and post-bifurcation response. <i>Journal of the Mechanics and Physics of Solids</i> , 2016 , 97, 37-67 | 5 | 12 |
| 111 | Stationary variational estimates for the effective response and field fluctuations in nonlinear composites. <i>Journal of the Mechanics and Physics of Solids</i> , 2016 , 96, 660-682 | 5 | 22 |
| 110 | Macroscopic rheological behavior of suspensions of soft solid particles in yield stress fluids. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2016 , 234, 139-161 | 2.7 | 10 |
| 109 | Incremental variational procedure for elasto-viscoplastic composites and application to polymer- and metal-matrix composites reinforced by spheroidal elastic particles. <i>International Journal of Solids and Structures</i> , 2016 , 97-98, 668-686 | 3.1 | 24 |
| 108 | Macroscopic response of particle-reinforced elastomers subjected to prescribed torques or rotations on the particles. <i>Journal of the Mechanics and Physics of Solids</i> , 2016 , 91, 240-264 | 5 | 8 |
| 107 | The evolution of pore shape and orientation in plastically deforming metals: Implications for macroscopic response and shear localization. <i>Mechanics of Materials</i> , 2015 , 90, 47-68 | 3.3 | 19 |
| 106 | Electromechanical instabilities in fiber-constrained, dielectric-elastomer composites subjected to all-around dead-loading. <i>Mathematics and Mechanics of Solids</i> , 2015 , 20, 729-759 | 2.3 | 14 |
| 105 | Towards effective mechanical properties of skeletal muscle tissue via homogenisation. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2015 , 15, 83-84 | 0.2 | 3 |
| 104 | The rheology of non-dilute dispersions of highly deformable viscoelastic particles in Newtonian fluids. <i>Journal of Fluid Mechanics</i> , 2015 , 763, 386-432 | 3.7 | 11 |

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|-----|---|-----|-----|
| 103 | Fully optimized second-order variational estimates for the macroscopic response and field statistics in viscoplastic crystalline composites. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015 , 471, 20150665 | 2.4 | 15 |
| 102 | On the macroscopic response, microstructure evolution, and macroscopic stability of short-fibre-reinforced elastomers at finite strains: I Analytical results. <i>Philosophical Magazine</i> , 2014 , 94, 1031-1067 | 1.6 | 8 |
| 101 | Anisotropic finite-strain models for porous viscoplastic materials with microstructure evolution. <i>International Journal of Solids and Structures</i> , 2014 , 51, 981-1002 | 3.1 | 18 |
| 100 | Fiber-constrained, dielectric-elastomer composites: Finite-strain response and stability analysis. <i>Journal of the Mechanics and Physics of Solids</i> , 2014 , 68, 211-238 | 5 | 37 |
| 99 | On the macroscopic response, microstructure evolution, and macroscopic stability of short-fiber-reinforced elastomers at finite strains: II Representative examples. <i>Philosophical Magazine</i> , 2014 , 94, 1068-1094 | 1.6 | 6 |
| 98 | Magnetoactive elastomers with periodic and random microstructures. <i>International Journal of Solids and Structures</i> , 2014 , 51, 3012-3024 | 3.1 | 56 |
| 97 | Tangent Second-Order Estimates for the Large-Strain, Macroscopic Response of Particle-Reinforced Elastomers. <i>Journal of Elasticity</i> , 2013 , 112, 139-183 | 1.5 | 20 |
| 96 | Iterated linear comparison bounds for viscoplastic porous materials with Ellipsoidal microstructures. <i>Journal of the Mechanics and Physics of Solids</i> , 2013 , 61, 701-725 | 5 | 31 |
| 95 | Giant field-induced strains in magnetoactive elastomer composites. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2013 , 469, 20130385 | 2.4 | 39 |
| 94 | A finite-strain constitutive model for magnetorheological elastomers: Magnetic torques and fiber rotations. <i>Journal of the Mechanics and Physics of Solids</i> , 2013 , 61, 1065-1090 | 5 | 76 |
| 93 | Dynamics and rheology of elastic particles in an extensional flow. <i>Journal of Fluid Mechanics</i> , 2013 , 715, 573-596 | 3.7 | 10 |
| 92 | Dielectric elastomer composites: small-deformation theory and applications. <i>Philosophical Magazine</i> , 2013 , 93, 2769-2801 | 1.6 | 13 |
| 91 | Estimates for two-phase nonlinear conductors via iterated homogenization. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2013 , 469, 20120626 | 2.4 | 7 |
| 90 | A finite-strain constitutive theory for electro-active polymer composites via homogenization. <i>International Journal of Non-Linear Mechanics</i> , 2012 , 47, 293-306 | 2.8 | 66 |
| 89 | The effect of particle shape and distribution on the macroscopic behavior of magnetoelastic composites. <i>International Journal of Solids and Structures</i> , 2012 , 49, 1-17 | 3.1 | 61 |
| 88 | Influence of the Lode parameter and the stress triaxiality on the failure of elasto-plastic porous materials. <i>International Journal of Solids and Structures</i> , 2012 , 49, 1325-1342 | 3.1 | 134 |
| 87 | Modeling microstructural effects in dilatational plasticity of polycrystalline materials. <i>Procedia IUTAM</i> , 2012 , 3, 314-330 | | 5 |
| 86 | Effects of internal pore pressure on closed-cell elastomeric foams. <i>International Journal of Solids and Structures</i> , 2012 , 49, 2793-2798 | 3.1 | 12 |

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| 85 | Response to the comments by Hutchinson and Tvergaard. <i>International Journal of Solids and Structures</i> , 2012 , 49, 3486 | 3.1 | |
| 84 | Multi-scale homogenization-based modeling of semi-crystalline polymers. <i>Philosophical Magazine</i> , 2012 , 92, 925-958 | 1.6 | 5 |
| 83 | Bounds for nonlinear composites via iterated homogenization. <i>Journal of the Mechanics and Physics of Solids</i> , 2012 , 60, 1583-1604 | 5 | 24 |
| 82 | A magnetically anisotropic, ellipsoidal inclusion subjected to a non-aligned magnetic field in an elastic medium. <i>Comptes Rendus - Mecanique</i> , 2012 , 340, 205-218 | 2.1 | 15 |
| 81 | Shape dynamics and rheology of soft elastic particles in a shear flow. <i>Physical Review Letters</i> , 2012 , 108, 058302 | 7.4 | 37 |
| 80 | Homogenization estimates for multi-scale nonlinear composites. <i>European Journal of Mechanics, A/Solids</i> , 2011 , 30, 828-843 | 3.7 | 23 |
| 79 | Homogenization-based constitutive models for magnetorheological elastomers at finite strain. <i>Journal of the Mechanics and Physics of Solids</i> , 2011 , 59, 194-215 | 5 | 127 |
| 78 | Dilatational viscoplasticity of polycrystalline solids with intergranular cavities. <i>Philosophical Magazine</i> , 2011 , 91, 3038-3067 | 1.6 | 58 |
| 77 | Variational estimates for the effective response and field statistics in thermoelastic composites with intra-phase property fluctuations. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2011 , 467, 2224-2246 | 2.4 | 17 |
| 76 | Rheology of a suspension of elastic particles in a viscous shear flow. <i>Journal of Fluid Mechanics</i> , 2011 , 687, 209-237 | 3.7 | 36 |
| 75 | Macroscopic response and stability in lamellar nanostructured elastomers with \square oriented and \square unoriented polydomain microstructures. <i>Mechanics of Materials</i> , 2010 , 42, 451-468 | 3.3 | 13 |
| 74 | Microscopic and macroscopic instabilities in finitely strained fiber-reinforced elastomers. <i>Journal of the Mechanics and Physics of Solids</i> , 2010 , 58, 1776-1803 | 5 | 61 |
| 73 | Microstructure evolution in hyperelastic laminates and implications for overall behavior and macroscopic stability. <i>Mechanics of Materials</i> , 2009 , 41, 364-374 | 3.3 | 23 |
| 72 | A general hyperelastic model for incompressible fiber-reinforced elastomers. <i>Journal of the Mechanics and Physics of Solids</i> , 2009 , 57, 268-286 | 5 | 58 |
| 71 | Onset of macroscopic instabilities in fiber-reinforced elastomers at finite strain. <i>Journal of the Mechanics and Physics of Solids</i> , 2009 , 57, 1828-1850 | 5 | 33 |
| 70 | A finite-strain model for anisotropic viscoplastic porous media: I Theory. <i>European Journal of Mechanics, A/Solids</i> , 2009 , 28, 387-401 | 3.7 | 91 |
| 69 | A finite-strain model for anisotropic viscoplastic porous media: II Applications. <i>European Journal of Mechanics, A/Solids</i> , 2009 , 28, 402-416 | 3.7 | 51 |
| 68 | Infinite-contrast periodic composites with strongly nonlinear behavior: Effective-medium theory versus full-field simulations. <i>International Journal of Solids and Structures</i> , 2009 , 46, 3365-3382 | 3.1 | 36 |

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|----|---|-----|-----|
| 67 | Micromechanical modeling of the viscoplastic behavior of olivine. <i>Journal of Geophysical Research</i> , 2008 , 113, | | 46 |
| 66 | Linear comparison estimates for the effective resistivity of three-dimensional nonlinear polycrystals. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2008 , 464, 2391-2410 | 2.4 | |
| 65 | Effective-medium theory for infinite-contrast two-dimensionally periodic linear composites with strongly anisotropic matrix behavior: Dilute limit and crossover behavior. <i>Physical Review B</i> , 2008 , 78, | 3.3 | 15 |
| 64 | Localization of elastic deformation in strongly anisotropic, porous, linear materials with periodic microstructures: Exact solutions and dilute expansions. <i>Journal of the Mechanics and Physics of Solids</i> , 2008 , 56, 1245-1268 | 5 | 14 |
| 63 | Multiscale modeling of oriented thermoplastic elastomers with lamellar morphology. <i>Journal of the Mechanics and Physics of Solids</i> , 2008 , 56, 3206-3223 | 5 | 10 |
| 62 | A homogenization-based constitutive model for two-dimensional viscoplastic porous media. <i>Comptes Rendus - Mecanique</i> , 2008 , 336, 79-90 | 2.1 | 19 |
| 61 | A homogenization-based constitutive model for isotropic viscoplastic porous media. <i>International Journal of Solids and Structures</i> , 2008 , 45, 3392-3409 | 3.1 | 57 |
| 60 | Field statistics in nonlinear composites. I. Theory. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2007 , 463, 183-202 | 2.4 | 48 |
| 59 | Field statistics in nonlinear composites. II. Applications. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2007 , 463, 203-222 | 2.4 | 10 |
| 58 | 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 | 2.4 | 27 |
| 57 | Variational linear comparison bounds for nonlinear composites with anisotropic phases. II. Crystalline materials. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2007 , 463, 925-943 | 2.4 | 18 |
| 56 | Homogenization estimates for fiber-reinforced elastomers with periodic microstructures. <i>International Journal of Solids and Structures</i> , 2007 , 44, 5953-5979 | 3.1 | 37 |
| 55 | Microscopic and macroscopic instabilities in finitely strained porous elastomers. <i>Journal of the Mechanics and Physics of Solids</i> , 2007 , 55, 900-938 | 5 | 98 |
| 54 | Homogenization-based constitutive models for porous elastomers and implications for macroscopic instabilities: IAnalysis. <i>Journal of the Mechanics and Physics of Solids</i> , 2007 , 55, 1677-1701 | 5 | 42 |
| 53 | Homogenization-based constitutive models for porous elastomers and implications for macroscopic instabilities: IIResults. <i>Journal of the Mechanics and Physics of Solids</i> , 2007 , 55, 1702-1728 | 5 | 34 |
| 52 | Self-consistent modelling of the mechanical behaviour of viscoplastic polycrystals incorporating intragranular field fluctuations. <i>Philosophical Magazine</i> , 2007 , 87, 4287-4322 | 1.6 | 243 |
| 51 | Second-order theory for nonlinear composites and application to isotropic constituents. <i>Comptes Rendus - Mecanique</i> , 2006 , 334, 575-581 | 2.1 | 17 |
| 50 | On the overall behavior, microstructure evolution, and macroscopic stability in reinforced rubbers at large deformations: IIITheory. <i>Journal of the Mechanics and Physics of Solids</i> , 2006 , 54, 807-830 | 5 | 84 |

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| 49 | On the overall behavior, microstructure evolution, and macroscopic stability in reinforced rubbers at large deformations: IIApplication to cylindrical fibers. <i>Journal of the Mechanics and Physics of Solids</i> , 2006 , 54, 831-863 | 5 | 62 |
| 48 | Macroscopic behavior and field fluctuations in viscoplastic composites: Second-order estimates versus full-field simulations. <i>Journal of the Mechanics and Physics of Solids</i> , 2006 , 54, 1029-1063 | 5 | 91 |
| 47 | Homogenization estimates for texture evolution in halite. <i>Tectonophysics</i> , 2005 , 406, 179-195 | 3.1 | 17 |
| 46 | Void growth in power-law creeping solids: Effect of surface diffusion and surface energy. <i>International Journal of Solids and Structures</i> , 2005 , 42, 6202-6225 | 3.1 | 5 |
| 45 | Second-order estimates for nonlinear isotropic composites with spherical pores and rigid particles. <i>Comptes Rendus - Mecanique</i> , 2005 , 333, 147-154 | 2.1 | 18 |
| 44 | Improving the Self-Consistent Predictions of Texture Development of Polycrystals Incorporating Intragranular Field Fluctuations. <i>Materials Science Forum</i> , 2005 , 495-497, 955-964 | 0.4 | 5 |
| 43 | Second-Order Homogenization Estimates Incorporating Field Fluctuations in Finite Elasticity. <i>Mathematics and Mechanics of Solids</i> , 2004 , 9, 243-270 | 2.3 | 25 |
| 42 | Second-Order Estimates for the Macroscopic Response and Loss of Ellipticity in Porous Rubbers at Large Deformations. <i>Journal of Elasticity</i> , 2004 , 76, 247-287 | 1.5 | 46 |
| 41 | Second-order theory for the effective behavior and field fluctuations in viscoplastic polycrystals. <i>Journal of the Mechanics and Physics of Solids</i> , 2004 , 52, 467-495 | 5 | 63 |
| 40 | Homogenization estimates for the average behavior and field fluctuations in cubic and hexagonal viscoplastic polycrystals. <i>Journal of the Mechanics and Physics of Solids</i> , 2004 , 52, 1175-1211 | 5 | 28 |
| 39 | Numerical methods for porous metals with deformation-induced anisotropy. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004 , 193, 3767-3805 | 5.7 | 67 |
| 38 | On the accuracy of the self-consistent approximation for polycrystals: comparison with full-field numerical simulations. <i>Acta Materialia</i> , 2004 , 52, 5347-5361 | 8.4 | 128 |
| 37 | Field fluctuations and macroscopic properties for nonlinear composites. <i>International Journal of Solids and Structures</i> , 2003 , 40, 7015-7033 | 3.1 | 10 |
| 36 | Second-order estimates for the large-deformation response of particle-reinforced rubbers. <i>Comptes Rendus - Mecanique</i> , 2003 , 331, 1-8 | 2.1 | 12 |
| 35 | Variational self-consistent estimates for texture evolution in viscoplastic polycrystals. <i>Acta Materialia</i> , 2003 , 51, 5425-5437 | 8.4 | 23 |
| 34 | Yield criteria for porous media in plane strain: second-order estimates versus numerical results. <i>Comptes Rendus - Mecanique</i> , 2002 , 330, 741-747 | 2.1 | 26 |
| 33 | Second-order homogenization estimates for nonlinear composites incorporating field fluctuations: IIApplications. <i>Journal of the Mechanics and Physics of Solids</i> , 2002 , 50, 759-782 | 5 | 81 |
| 32 | Second-order homogenization estimates for nonlinear composites incorporating field fluctuations: Itheory. <i>Journal of the Mechanics and Physics of Solids</i> , 2002 , 50, 737-757 | 5 | 286 |

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|----|---|-----|-----|
| 31 | Variational self-consistent estimates for cubic viscoplastic polycrystals: the effects of grain anisotropy and shape. <i>Journal of the Mechanics and Physics of Solids</i> , 2001 , 49, 313-340 | 5 | 43 |
| 30 | Second-order estimates for the effective behaviour of viscoplastic polycrystalline materials. <i>Journal of the Mechanics and Physics of Solids</i> , 2001 , 49, 2737-2764 | 5 | 31 |
| 29 | Accurate estimates for the creep behavior of hexagonal polycrystals. <i>Acta Materialia</i> , 2001 , 49, 329-337 | 8.4 | 19 |
| 28 | Bounds on the self-consistent approximation for nonlinear media and implications for the second-order method. <i>Comptes Rendus Mecanique</i> , 2001 , 329, 571-577 | | 2 |
| 27 | A second-order homogenization method in finite elasticity and applications to black-filled elastomers. <i>Journal of the Mechanics and Physics of Solids</i> , 2000 , 48, 1389-1411 | 5 | 83 |
| 26 | Variational self-consistent estimates for viscoplastic polycrystals with highly anisotropic grains. <i>Comptes Rendus De L'Academie De Sciences - Serie Iib: Mecanique, Physique, Chimie, Astronomie</i> , 2000 , 328, 11-17 | | 1 |
| 25 | Estimations homog enes pour les composites hyperplastiques et applications aux elastomeres renforces. <i>Comptes Rendus De L'Academie De Sciences - Serie Iib: Mecanique, Physique, Chimie, Astronomie</i> , 1999 , 327, 1297-1304 | | |
| 24 | The second-order procedure: exact vs approximate results for isotropic, two-phase composites. <i>Journal of the Mechanics and Physics of Solids</i> , 1999 , 47, 2171-2185 | 5 | 6 |
| 23 | Stable crack growth along a brittle-ductile interface. Small scale yielding solutions and interfacial toughness predictions. <i>International Journal of Solids and Structures</i> , 1999 , 36, 1-34 | 3.1 | 12 |
| 22 | A general constitutive theory for linear and nonlinear particulate media with microstructure evolution. <i>Journal of the Mechanics and Physics of Solids</i> , 1998 , 46, 427-465 | 5 | 98 |
| 21 | Exact second-order estimates of the self-consistent type for nonlinear composite materials. <i>Mechanics of Materials</i> , 1998 , 28, 9-22 | 3.3 | 4 |
| 20 | Three-point bounds and other estimates for strongly nonlinear composites. <i>Physical Review B</i> , 1998 , 57, 12077-12083 | 3.3 | 14 |
| 19 | Nonlinear Composites. <i>Advances in Applied Mechanics</i> , 1997 , 171-302 | 10 | 423 |
| 18 | Strongly nonlinear composites: A second-order theory for estimating transport properties. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997 , 224, 163-168 | 2.3 | 5 |
| 17 | The finite deformation of nonlinear composite materials. Evolution of the microstructure. <i>International Journal of Solids and Structures</i> , 1996 , 33, 1287-1303 | 3.1 | 25 |
| 16 | Exact second-order estimates for the effective mechanical properties of nonlinear composite materials. <i>Journal of the Mechanics and Physics of Solids</i> , 1996 , 44, 827-862 | 5 | 271 |
| 15 | Steady-state creep of fiber-reinforced composites: constitutive equations and computational issues. <i>International Journal of Solids and Structures</i> , 1995 , 32, 2219-2244 | 3.1 | 22 |
| 14 | The effect of spatial distribution on the effective behavior of composite materials and cracked media. <i>Journal of the Mechanics and Physics of Solids</i> , 1995 , 43, 1919-1951 | 5 | 562 |

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| 13 | Constitutive models for porous materials with evolving microstructure. <i>Journal of the Mechanics and Physics of Solids</i> , 1994 , 42, 1459-1497 | 5 | 152 |
| 12 | The Effective Behavior of Nonlinear Composites: A Comparison between Two Methods. <i>Materials Science Forum</i> , 1993 , 123-125, 351-360 | 0.4 | 3 |
| 11 | Constitutive models for ductile solids reinforced by rigid spheroidal inclusions. <i>Mechanics of Materials</i> , 1993 , 15, 279-300 | 3.3 | 20 |
| 10 | Elastoplastic constitutive relations for fiber-reinforced solids. <i>International Journal of Solids and Structures</i> , 1993 , 30, 1865-1890 | 3.1 | 42 |
| 9 | Effective properties of nonlinear inhomogeneous dielectrics. <i>Physical Review B</i> , 1992 , 46, 4387-4394 | 3.3 | 50 |
| 8 | A New Variational Principle and Its Application to Nonlinear Heterogeneous Systems. <i>SIAM Journal on Applied Mathematics</i> , 1992 , 52, 1321-1341 | 1.8 | 42 |
| 7 | New variational principles in plasticity and their application to composite materials. <i>Journal of the Mechanics and Physics of Solids</i> , 1992 , 40, 1757-1788 | 5 | 192 |
| 6 | Stable crack growth under mixed-mode conditions. <i>Journal of the Mechanics and Physics of Solids</i> , 1992 , 40, 1053-1103 | 5 | 31 |
| 5 | On the ductility of laminated materials. <i>International Journal of Solids and Structures</i> , 1992 , 29, 2329-2353 | 3.1 | 29 |
| 4 | Stable crack growth along a brittle/ductile interface□ Near-tip fields. <i>International Journal of Solids and Structures</i> , 1991 , 27, 105-133 | 3.1 | 27 |
| 3 | The effective mechanical properties of nonlinear isotropic composites. <i>Journal of the Mechanics and Physics of Solids</i> , 1991 , 39, 45-71 | 5 | 723 |
| 2 | Asymptotic fields in steady crack growth with linear strain-hardening. <i>Journal of the Mechanics and Physics of Solids</i> , 1987 , 35, 227-268 | 5 | 65 |
| 1 | Earth Mantle Rheology Inferred from Homogenization Theories | 55-70 | 8 |