# Pedro Ponte CastaÃ±eda

List of Publications by Year
in descending order

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|---|---|---|---|
| 138 papers | 7,310 citations | 61857 43 h-index | 56606 83 g-index |
| 142 all docs | 142 docs citations | 142 times ranked | 2450 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The effective mechanical properties of nonlinear isotropic composites. Journal of the Mechanics and Physics of Solids, 1991, 39, 45-71. | 2.3 | 804 |
| 2 | The effect of spatial distribution on the effective behavior of composite materials and cracked media. Journal of the Mechanics and Physics of Solids, 1995, 43, 1919-1951. | 2.3 | 637 |
| 3 | Nonlinear Composites. Advances in Applied Mechanics, 1997, , 171-302. | 1.4 | 471 |
| 4 | Second-order homogenization estimates for nonlinear composites incorporating field fluctuations: Iâ€"theory. Journal of the Mechanics and Physics of Solids, 2002, 50, 737-757. | 2.3 | 317 |
| 5 | Exact second-order estimates for the effective mechanical properties of nonlinear composite materials. Journal of the Mechanics and Physics of Solids, 1996, 44, 827-862. | 2.3 | 295 |
| 6 | Self-consistent modelling of the mechanical behaviour of viscoplastic polycrystals incorporating intragranular field fluctuations. Philosophical Magazine, 2007, 87, 4287-4322. | 0.7 | 280 |
| 7 | New variational principles in plasticity and their application to composite materials. Journal of the Mechanics and Physics of Solids, 1992, 40, 1757-1788. | 2.3 | 212 |
| 8 | Constitutive models for porous materials with evolving microstructure. Journal of the Mechanics and Physics of Solids, 1994, 42, 1459-1497. | 2.3 | 165 |
| 9 | Influence of the Lode parameter and the stress triaxiality on the failure of elasto-plastic porous materials. International Journal of Solids and Structures, 2012, 49, 1325-1342. | 1.3 | 165 |
| 10 | Homogenization-based constitutive models for magnetorheological elastomers at finite strain. Journal of the Mechanics and Physics of Solids, 2011, 59, 194-215. | 2.3 | 157 |
| 11 | On the accuracy of the self-consistent approximation for polycrystals: comparison with full-field numerical simulations. Acta Materialia, 2004, 52, 5347-5361. | 3.8 | 140 |
| 12 | Microscopic and macroscopic instabilities in finitely strained porous elastomers. Journal of the Mechanics and Physics of Solids, 2007, 55, 900-938. | 2.3 | 111 |
| 13 | A general constitutive theory for linear and nonlinear particulate media with microstructure evolution. Journal of the Mechanics and Physics of Solids, 1998, 46, 427-465. | 2.3 | 106 |
| 14 | A finite-strain model for anisotropic viscoplastic porous media: I â€“ Theory. European Journal of Mechanics, A/Solids, 2009, 28, 387-401. | 2.1 | 106 |
| 15 | Macroscopic behavior and field fluctuations in viscoplastic composites: Second-order estimates versus full-field simulations. Journal of the Mechanics and Physics of Solids, 2006, 54, 1029-1063. | 2.3 | 98 |
| 16 | A finite-strain constitutive model for magnetorheological elastomers: Magnetic torques and fiber rotations. Journal of the Mechanics and Physics of Solids, 2013, 61, 1065-1090. | 2.3 | 94 |
| 17 | A second-order homogenization method in finite elasticity and applications to black-filled elastomers. Journal of the Mechanics and Physics of Solids, 2000, 48, 1389-1411. | 2.3 | 90 |
| 18 | On the overall behavior, microstructure evolution, and macroscopic stability in reinforced rubbers at large deformations: Iâ€"Theory. Journal of the Mechanics and Physics of Solids, 2006, 54, 807-830. | 2.3 | 89 |

| # | Article | IF | Citations |
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| 19 | Second-order homogenization estimates for nonlinear composites incorporating field fluctuations: IIâ€”applications. Journal of the Mechanics and Physics of Solids, 2002, 50, 759-782. | 2.3 | 87 |
| 20 | A finite-strain constitutive theory for electro-active polymer composites via homogenization. International Journal of Non-Linear Mechanics, 2012, 47, 293-306. | 1.4 | 73 |
| 21 | Asymptotic fields in steady crack growth with linear strain-hardening. Journal of the Mechanics and Physics of Solids, 1987, 35, 227-268. | 2.3 | 72 |
| 22 | Numerical methods for porous metals with deformation-induced anisotropy. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 3767-3805. | 3.4 | 72 |
| 23 | The effect of particle shape and distribution on the macroscopic behavior of magnetoelastic composites. International Journal of Solids and Structures, 2012, 49, 1-17. | 1.3 | 72 |
| 24 | Second-order theory for the effective behavior and field fluctuations in viscoplastic polycrystals. Journal of the Mechanics and Physics of Solids, 2004, 52, 467-495. | 2.3 | 71 |
| 25 | Microscopic and macroscopic instabilities in finitely strained fiber-reinforced elastomers. Journal of the Mechanics and Physics of Solids, 2010, 58, 1776-1803. | 2.3 | 70 |
| 26 | On the overall behavior, microstructure evolution, and macroscopic stability in reinforced rubbers at large deformations: IIâ€”Application to cylindrical fibers. Journal of the Mechanics and Physics of Solids, 2006, 54, 831-863. | 2.3 | 67 |
| 27 | A general hyperelastic model for incompressible fiber-reinforced elastomers. Journal of the Mechanics and Physics of Solids, 2009, 57, 268-286. | 2.3 | 65 |
| 28 | Dilatational viscoplasticity of polycrystalline solids with intergranular cavities. Philosophical Magazine, 2011, 91, 3038-3067. | 0.7 | 65 |
| 29 | Magnetoactive elastomers with periodic and random microstructures. International Journal of Solids and Structures, 2014, 51, 3012-3024. | 1.3 | 60 |
| 30 | A homogenization-based constitutive model for isotropic viscoplastic porous media. International Journal of Solids and Structures, 2008, 45, 3392-3409. | 1.3 | 59 |
| 31 | Effective properties of nonlinear inhomogeneous dielectrics. Physical Review B, 1992, 46, 4387-4394. | 1.1 | 56 |
| 32 | A finite-strain model for anisotropic viscoplastic porous media: II â€“ Applications. European Journal of Mechanics, A/Solids, 2009, 28, 402-416. | 2.1 | 56 |
| 33 | Micromechanical modeling of the viscoplastic behavior of olivine. Journal of Geophysical Research, 2008, 113, . | 3.3 | 55 |
| 34 | Field statistics in nonlinear composites. I. Theory. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2007, 463, 183-202. | 1.0 | 54 |
| 35 | Second-Order Estimates for the Macroscopic Response and Loss of Ellipticity in Porous Rubbers at Large Deformations. Journal of Elasticity, 2004, 76, 247-287. | 0.9 | 51 |
| 36 | Fiber-constrained, dielectric-elastomer composites: Finite-strain response and stability analysis. Journal of the Mechanics and Physics of Solids, 2014, 68, 211-238. | 2.3 | 50 |

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| 37 | Variational self-consistent estimates for cubic viscoplastic polycrystals: the effects of grain anisotropy and shape. Journal of the Mechanics and Physics of Solids, 2001, 49, 313-340. | 2.3 | 48 |
| 38 | Homogenization-based constitutive models for porous elastomers and implications for macroscopic instabilities: Iâ€”Analysis. Journal of the Mechanics and Physics of Solids, 2007, 55, 1677-1701. | 2.3 | 48 |
| 39 | Rheology of a suspension of elastic particles in a viscous shear flow. Journal of Fluid Mechanics, 2011, 687, 209-237. | 1.4 | 46 |
| 40 | A New Variational Principle and Its Application to Nonlinear Heterogeneous Systems. SIAM Journal on Applied Mathematics, 1992, 52, 1321-1341. | 0.8 | 45 |
| 41 | Shape Dynamics and Rheology of Soft Elastic Particles in a Shear Flow. Physical Review Letters, 2012, 108, 058302. | 2.9 | 44 |
| 42 | Giant field-induced strains in magnetoactive elastomer composites. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2013, 469, 20130385. | 1.0 | 44 |
| 43 | Elastoplastic constitutive relations for fiber-reinforced solids. International Journal of Solids and Structures, 1993, 30, 1865-1890. | 1.3 | 43 |
| 44 | Homogenization estimates for fiber-reinforced elastomers with periodic microstructures. International Journal of Solids and Structures, 2007, 44, 5953-5979. | 1.3 | 43 |
| 45 | A microstructurally-based, multi-scale, continuum-mechanical model for the passive behaviour of skeletal muscle tissue. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 97, 171-186. | 1.5 | 40 |
| 46 | Infinite-contrast periodic composites with strongly nonlinear behavior: Effective-medium theory versus full-field simulations. International Journal of Solids and Structures, 2009, 46, 3365-3382. | 1.3 | 38 |
| 47 | Homogenization-based constitutive models for porous elastomers and implications for macroscopic instabilities: IIâ€”Results. Journal of the Mechanics and Physics of Solids, 2007, 55, 1702-1728. | 2.3 | 37 |
| 48 | Onset of macroscopic instabilities in fiber-reinforced elastomers at finite strain. Journal of the Mechanics and Physics of Solids, 2009, 57, 1828-1850. | 2.3 | 36 |
| 49 | Stationary variational estimates for the effective response and field fluctuations in nonlinear composites. Journal of the Mechanics and Physics of Solids, 2016, 96, 660-682. | 2.3 | 36 |
| 50 | Iterated linear comparison bounds for viscoplastic porous materials with â€œellipsoidalâ€• microstructures. Journal of the Mechanics and Physics of Solids, 2013, 61, 701-725. | 2.3 | 35 |
| 51 | Second-order estimates for the effective behaviour of viscoplastic polycrystalline materials. Journal of the Mechanics and Physics of Solids, 2001, 49, 2737-2764. | 2.3 | 33 |
| 52 | A finite-strain homogenization model for viscoplastic porous single crystals: I â€“ Theory. Journal of the Mechanics and Physics of Solids, 2017, 107, 560-579. | 2.3 | 33 |
| 53 | Stable crack growth under mixed-mode conditions. Journal of the Mechanics and Physics of Solids, 1992, 40, 1053-1103. | 2.3 | 32 |
| 54 | Incremental variational procedure for elasto-viscoplastic composites and application to polymer- and metal-matrix composites reinforced by spheroidal elastic particles. International Journal of Solids and Structures, 2016, 97-98, 668-686. | 1.3 | 32 |

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| 55 | On the ductility of laminated materials. International Journal of Solids and Structures, 1992, 29, 2329-2353. | 1.3 | 31 |
| 56 | Steady-state creep of fiber-reinforced composites: constitutive equations and computational issues. International Journal of Solids and Structures, 1995, 32, 2219-2244. | 1.3 | 30 |
| 57 | Second-Order Homogenization Estimates Incorporating Field Fluctuations in Finite Elasticity. Mathematics and Mechanics of Solids, 2004, 9, 243-270. | 1.5 | 29 |
| 58 | Homogenization estimates for the average behavior and field fluctuations in cubic and hexagonal viscoplastic polycrystals. Journal of the Mechanics and Physics of Solids, 2004, 52, 1175-1211. | 2.3 | 29 |
| 59 | Stable crack growth along a brittle/ductile interfaceâ€"I. Near-tip fields. International Journal of Solids and Structures, 1991, 27, 105-133. | 1.3 | 28 |
| 60 | Bounds for nonlinear composites via iterated homogenization. Journal of the Mechanics and Physics of Solids, 2012, 60, 1583-1604. | 2.3 | 28 |
| 61 | Yield criteria for porous media in plane strain: second-order estimates versus numerical results. Comptes Rendus - Mecanique, 2002, 330, 741-747. | 2.1 | 27 |
| 62 | Variational linear comparison bounds for nonlinear composites with anisotropic phases. I. General results. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2007, 463, 907-924. | 1.0 | 27 |
| 63 | The finite deformation of nonlinear composite materialsâ€"II. Evolution of the microstructure. International Journal of Solids and Structures, 1996, 33, 1287-1303. | 1.3 | 26 |
| 64 | Variational self-consistent estimates for texture evolution in viscoplastic polycrystals. Acta Materialia, 2003, 51, 5425-5437. | 3.8 | 26 |
| 65 | Microstructure evolution in hyperelastic laminates and implications for overall behavior and macroscopic stability. Mechanics of Materials, 2009, 41, 364-374. | 1.7 | 26 |
| 66 | Homogenization estimates for multi-scale nonlinear composites. European Journal of Mechanics, A/Solids, 2011, 30, 828-843. | 2.1 | 26 |
| 67 | Tangent Second-Order Estimates for the Large-Strain, Macroscopic Response of Particle-Reinforced Elastomers. Journal of Elasticity, 2013, 112, 139-183. | 0.9 | 22 |
| 68 | Constitutive models for ductile solids reinforced by rigid spheroidal inclusions. Mechanics of Materials, 1993, 15, 279-300. | 1.7 | 21 |
| 69 | Accurate estimates for the creep behavior of hexagonal polycrystals. Acta Materialia, 2001, 49, 329-337. | 3.8 | 21 |
| 70 | Second-order estimates for nonlinear isotropic composites with spherical pores and rigid particles. Comptes Rendus - Mecanique, 2005, 333, 147-154. | 2.1 | 21 |
| 71 | Anisotropic finite-strain models for porous viscoplastic materials with microstructure evolution. International Journal of Solids and Structures, 2014, 51, 981-1002. | 1.3 | 21 |
| 72 | Second-order theory for nonlinear composites and application to isotropic constituents. Comptes Rendus - Mecanique, 2006, 334, 575-581. | 2.1 | 20 |

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| 73 | A homogenization-based constitutive model for two-dimensional viscoplastic porous media. Comptes Rendus - Mecanique, 2008, 336, 79-90. | 2.1 | 20 |
| 74 | The rheology of non-dilute dispersions of highly deformable viscoelastic particles in Newtonian fluids. Journal of Fluid Mechanics, 2015, 763, 386-432. | 1.4 | 20 |
| 75 | The evolution of pore shape and orientation in plastically deforming metals: Implications for macroscopic response and shear localization. Mechanics of Materials, 2015, 90, 47-68. | 1.7 | 20 |
| 76 | Homogenization estimates for texture evolution in halite. Tectonophysics, 2005, 406, 179-195. | 0.9 | 19 |
| 77 | Variational linear comparison bounds for nonlinear composites with anisotropic phases. II. Crystalline materials. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2007, 463, 925-943. | 1.0 | 19 |
| 78 | Macroscopic constitutive relations for elastomers reinforced with short aligned fibers: Instabilities and post-bifurcation response. Journal of the Mechanics and Physics of Solids, 2016, 97, 37-67. | 2.3 | 19 |
| 79 | A multi-scale homogenization model for fine-grained porous viscoplastic polycrystals: I â€“ Finite-strain theory. Journal of the Mechanics and Physics of Solids, 2018, 115, 102-122. | 2.3 | 19 |
| 80 | Effects of internal pore pressure on closed-cell elastomeric foams. International Journal of Solids and Structures, 2012, 49, 2793-2798. | 1.3 | 18 |
| 81 | Variational estimates for the effective response and field statistics in thermoelastic composites with intra-phase property fluctuations. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2011, 467, 2224-2246. | 1.0 | 17 |
| 82 | Fully optimized second-order variational estimates for the macroscopic response and field statistics in viscoplastic crystalline composites. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20150665. | 1.0 | 17 |
| 83 | Effective-medium theory for infinite-contrast two-dimensionally periodic linear composites with strongly anisotropic matrix behavior: Dilute limit and crossover behavior. Physical Review B, 2008, 78, . | 1.1 | 16 |
| 84 | Electromechanical instabilities in fiber-constrained, dielectric-elastomer composites subjected to all-around dead-loading. Mathematics and Mechanics of Solids, 2015, 20, 729-759. | 1.5 | 16 |
| 85 | Fully optimized second-order homogenization estimates for the macroscopic response and texture evolution of low-symmetry viscoplastic polycrystals. International Journal of Plasticity, 2018, 110, 272-293. | 4.1 | 16 |
| 86 | A differential homogenization method for estimating the macroscopic response and field statistics of particulate viscoelastic composites. International Journal of Solids and Structures, 2020, 204-205, 199-219. | 1.3 | 16 |
| 87 | Localization of elastic deformation in strongly anisotropic, porous, linear materials with periodic microstructures: Exact solutions and dilute expansions. Journal of the Mechanics and Physics of Solids, 2008, 56, 1245-1268. | 2.3 | 15 |
| 88 | Macroscopic response and stability in lamellar nanostructured elastomers with â€œorientedâ€•and â€œunorientedâ€•polydomain microstructures. Mechanics of Materials, 2010, 42, 451-468. | 1.7 | 15 |
| 89 | A magnetically anisotropic, ellipsoidal inclusion subjected to a non-aligned magnetic field in an elastic medium. Comptes Rendus - Mecanique, 2012, 340, 205-218. | 2.1 | 15 |
| 90 | Dielectric elastomer composites: small-deformation theory and applications. Philosophical Magazine, 2013, 93, 2769-2801. | 0.7 | 15 |

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| 91 | A finite-strain homogenization model for viscoplastic porous single crystals: II â€“ Applications. Journal of the Mechanics and Physics of Solids, 2017, 107, 580-602. | 2.3 | 15 |
| 92 | Three-point bounds and other estimates for strongly nonlinear composites. Physical Review B, 1998, 57, 12077-12083. | 1.1 | 14 |
| 93 | Stable crack growth along a brittleductile interfaceâ€"II. Small scale yielding solutions and interfacial toughness predictions. International Journal of Solids and Structures, 1999, 36, 1-34. | 1.3 | 14 |
| 94 | Macroscopic rheological behavior of suspensions of soft solid particles in yield stress fluids. Journal of Non-Newtonian Fluid Mechanics, 2016, 234, 139-161. | 1.0 | 14 |
| 95 | Second-order estimates for the large-deformation response of particle-reinforced rubbers. Comptes Rendus - Mecanique, 2003, 331, 1-8. | 2.1 | 13 |
| 96 | Field statistics in nonlinear composites. II. Applications. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2007, 463, 203-222. | 1.0 | 13 |
| 97 | Dynamics and rheology of elastic particles in an extensional flow. Journal of Fluid Mechanics, 2013, 715, 573-596. | 1.4 | 13 |
| 98 | Modeling Sea Ice. Notices of the American Mathematical Society, 2020, 67, 1. | 0.1 | 13 |
| 99 | Field fluctuations and macroscopic properties for nonlinear composites. International Journal of Solids and Structures, 2003, 40, 7015-7033. | 1.3 | 12 |
| 100 | Macroscopic instabilities and domain formation in neo-Hookean laminates. Journal of the Mechanics and Physics of Solids, 2018, 118, 98-114. | 2.3 | 12 |
| 101 | Multiscale modeling of oriented thermoplastic elastomers with lamellar morphology. Journal of the Mechanics and Physics of Solids, 2008, 56, 3206-3223. | 2.3 | 11 |
| 102 | A symmetric fully optimized secondâ€order method for nonlinear homogenization. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2018, 98, 222-254. | 0.9 | 11 |
| 103 | A multi-scale homogenization model for fine-grained porous viscoplastic polycrystals: II â€“ Applications to FCC and HCP materials. Journal of the Mechanics and Physics of Solids, 2018, 115, 77-101. | 2.3 | 10 |
| 104 | Multi-scale homogenization-based modeling of semi-crystalline polymers. Philosophical Magazine, 2012, 92, 925-958. | 0.7 | 9 |
| 105 | On the macroscopic response, microstructure evolution, and macroscopic stability of short-fibre-reinforced elastomers at finite strains: I â€“ Analytical results. Philosophical Magazine, 2014, 94, 1031-1067. | 0.7 | 9 |
| 106 | Macroscopic response of particle-reinforced elastomers subjected to prescribed torques or rotations on the particles. Journal of the Mechanics and Physics of Solids, 2016, 91, 240-264. | 2.3 | 9 |
| 107 | Estimates for two-phase nonlinear conductors via iterated homogenization. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2013, 469, 20120626. | 1.0 | 8 |
| 108 | On the macroscopic response, microstructure evolution, and macroscopic stability of short-fiber-reinforced elastomers at finite strains: II â€“ Representative examples. Philosophical Magazine, 2014, 94, 1068-1094. | 0.7 | 7 |

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| 109 | Macroscopic response of strongly anisotropic porous viscoplastic single crystals and applications to ice. Extreme Mechanics Letters, 2017, 10, 41-49. | 2.0 | 7 |
| 110 | Constitutive models for anisotropic dielectric elastomer composites: Finite deformation response and instabilities. Mechanics Research Communications, 2019, 96, 75-86. | 1.0 | 7 |
| 111 | Tangent second-order homogenisation estimates for incompressible hyperelastic composites with fibrous microstructures and anisotropic phases. Journal of the Mechanics and Physics of Solids, 2021, 147, 104251. | 2.3 | 7 |
| 112 | Anisotropic Oldroyd-type models for non-colloidal suspensions of viscoelastic particles in Newtonian and yield-stress fluids via homogenization. Journal of Non-Newtonian Fluid Mechanics, 2021, 295, 104625. | 1.0 | 7 |
| 113 | The second-order procedure: exact vs approximate results for isotropic, two-phase composites. Journal of the Mechanics and Physics of Solids, 1999, 47, 2171-2185. | 2.3 | 6 |
| 114 | Improving the Self-Consistent Predictions of Texture Development of Polycrystals Incorporating Intragranular Field Fluctuations. Materials Science Forum, 2005, 495-497, 955-964. | 0.3 | 6 |
| 115 | Fiber-constrained dielectric elastomer composites: Finite deformation response and instabilities under non-aligned loadings. International Journal of Solids and Structures, 2020, 184, 73-98. | 1.3 | 6 |
| 116 | Theoretical predictions for the rheology of dispersions of highly deformable particles under large amplitude oscillatory shear. Journal of Fluid Mechanics, 2020, 897, . | 1.4 | 6 |
| 117 | Variational estimates for the effective properties and field statistics of composites with variable particle interaction strengths. Journal of the Mechanics and Physics of Solids, 2022, 167, 104996. | 2.3 | 6 |
| 118 | The Effective Behavior of Nonlinear Composites: A Comparison between Two Methods. Materials Science Forum, 1993, 123-125, 351-360. | 0.3 | 5 |
| 119 | Strongly nonlinear composites: A second-order theory for estimating transport properties. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 224, 163-168. | 0.9 | 5 |
| 120 | Bounds on the self-consistent approximation for nonlinear media and implications for the second-order method. Comptes Rendus Mecanique, 2001, 329, 571-577. | 0.2 | 5 |
| 121 | Void growth in power-law creeping solids: Effect of surface diffusion and surface energy. International Journal of Solids and Structures, 2005, 42, 6202-6225. | 1.3 | 5 |
| 122 | Modeling microstructural effects in dilatational plasticity of polycrystalline materials. Procedia IUTAM, 2012, 3, 314-330. | 1.2 | 5 |
| 123 | Reinforced elastomers: Homogenization, macroscopic stability and relaxation. Journal of the Mechanics and Physics of Solids, 2020, 136, 103689. | 2.3 | 5 |
| 124 | Field statistics in linearized elastic and viscous composites and polycrystals. International Journal of Solids and Structures, 2021, 224, 111030. | 1.3 | 5 |
| 125 | Exact second-order estimates of the self-consistent type for nonlinear composite materials. Mechanics of Materials, 1998, 28, 9-22. | 1.7 | 4 |
| 126 | Variational self-consistent estimates for viscoplastic polycrystals with highly anisotropic grains. Comptes Rendus De L'Academie De Sciences - Serie IIb: Mecanique, Physique, Chimie, Astronomie, 2000, 328, 11-17. | 0.1 | 4 |

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| 127 | Towards effective mechanical properties of skeletal muscle tissue via homogenisation. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 83-84. | 0.2 | 3 |
| 128 | Multiscale modelling of skeletal muscle tissue by incorporating microstructural effects. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 75-76. | 0.2 | 3 |
| 129 | Differential variational estimates for the macroscopic response and field statistics of elasto-viscoplastic polycrystals. Journal of the Mechanics and Physics of Solids, 2021, 147, 104202. | 2.3 | 3 |
| 130 | Statistics of the stress, strain-rate and spin fields in viscoplastic polycrystals. International Journal of Solids and Structures, 2021, 217-218, 193-214. | 1.3 | 3 |
| 131 | A MULTIPHASE HOMOGENIZATION MODEL FOR THE VISCOPLASTIC RESPONSE OF INTACT SEA ICE: THE EFFECT OF POROSITY AND CRYSTALLOGRAPHIC TEXTURE. International Journal for Multiscale Computational Engineering, 2019, 17, 121-150. | 0.8 | 2 |
| 132 | On the optimality of the variational linear comparison bounds for porous viscoplastic materials. Journal of the Mechanics and Physics of Solids, 2020, 138, 103898. | 2.3 | 1 |
| 133 | Exact results for weakly nonlinear composites and implications for homogenization methods. Comptes Rendus - Mecanique, 2020, 348, 893-909. | 0.3 | 1 |
| 134 | Estimations homogÃ©nÃ©isÃ©es pour les composites hyperÃ©lastiques et applications aux Ã©lastomÃ¨res renforcÃ©s. Comptes Rendus De L'Academie De Sciences - Serie IIb: Mecanique, Physique, Chimie, Astronomie, 1999, 327, 1297-1304. | 0.1 | 0 |
| 135 | Linear comparison estimates for the effective resistivity of three-dimensional nonlinear polycrystals. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2008, 464, 2391-2410. | 1.0 | 0 |
| 136 | Response to the comments by Hucthinson and Tvergaard. International Journal of Solids and Structures, 2012, 49, 3486. | 1.3 | 0 |
| 137 | A homogenisation method for the multiscale modelling of transversely isotropic skeletal muscle tissue. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 183-184. | 0.2 | 0 |
| 138 | Macroscopic response and microstructure evolution in viscoplastic polycrystals with pressurized pores. International Journal of Fracture, 2021, 230, 43. | 1.1 | 0 |