# George J Weng

List of Publications by Year
in descending order



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|---|---|---|---|
| 269 papers | 11,173 citations | 28274 55 h-index | 37204 96 g-index |
| 271 all docs | 271 docs citations | 271 times ranked | 5410 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Tuning the strength-ductility synergy of nanograined Cu through nanotwin volume fraction. Computational Materials Science, 2022, 203, 111073. | 3.0 | 2 |
| 2 | Modeling the impact of glass transition on the frequency-dependent complex conductivity of CNT-polymer nanocomposites. Mechanics of Materials, 2022, 165, 104195. | 3.2 | 6 |
| 3 | Creep rupture in carbon nanotube-based viscoplastic nanocomposites. International Journal of Plasticity, 2022, 150, 103189. | 8.8 | 6 |
| 4 | Segregated carbon nanotube networks in CNT-polymer nanocomposites for higher electrical conductivity and dielectric permittivity, and lower percolation threshold. International Journal of Engineering Science, 2022, 173, 103650. | 5.0 | 19 |
| 5 | Revealing the AC electromechanically coupled effects and stable sensitivity on the dielectric loss in CNT-based nanocomposite sensors. Materials and Design, 2022, 216, 110557. | 7.0 | 10 |
| 6 | Tuning the AC electric responses of decorated PDA@MWCNT/PVDF nanocomposites. Composites Science and Technology, 2022, 222, 109398. | 7.8 | 5 |
| 7 | Phase-field simulations on the frequency-dependent evolution of nano-magnetic domains and hysteresis loops of ferromagnetic Terfenol-D. Materials Today Communications, 2022, 32, 103849. | 1.9 | 0 |
| 8 | Finite element analysis of the magnetoelectric effect on hybrid magnetoelectric composites. Composite Structures, 2022, 296, 115876. | 5.8 | 10 |
| 9 | Biaxial fatigue crack growth in proton exchange membrane of fuel cells based on cyclic cohesive finite element method. International Journal of Mechanical Sciences, 2021, 189, 105946. | 6.7 | 9 |
| 10 | Uncovering the glass-transition temperature and temperature-dependent storage modulus of graphene-polymer nanocomposites through irreversible thermodynamic processes. International Journal of Engineering Science, 2021, 158, 103411. | 5.0 | 23 |
| 11 | A multiscale study of the filler-size and temperature dependence of the thermal conductivity of graphene-polymer nanocomposites. Carbon, 2021, 175, 259-270. | 10.3 | 28 |
| 12 | A hierarchical scheme from nano to macro scale for the strength and ductility of graphene/metal nanocomposites. International Journal of Engineering Science, 2021, 162, 103476. | 5.0 | 23 |
| 13 | A micromechanical model for heterogeneous nanograined metals with shape effect of inclusions and geometrically necessary dislocation pileups at the domain boundary. International Journal of Plasticity, 2021, 144, 103024. | 8.8 | 20 |
| 14 | Dual percolations of electrical conductivity and electromagnetic interference shielding in progressively agglomerated CNT/polymer nanocomposites. Mathematics and Mechanics of Solids, 2021, 26, 1120-1137. | 2.4 | 6 |
| 15 | Simulation of ductile fracture of zirconium alloys based on triaxiality dependent cohesive zone model. Acta Mechanica, 2021, 232, 3723-3736. | 2.1 | 8 |
| 16 | Surface and interface effects on the bending behavior of nonlinear multilayered magnetoelectric nanostructures. Composite Structures, 2021, 275, 114485. | 5.8 | 8 |
| 17 | Monte Carlo method with BÃ©zier curves for the complex conductivity of curved CNT-polymer nanocomposites. International Journal of Engineering Science, 2021, 168, 103543. | 5.0 | 10 |
| 18 | Nonlinear magnetoelectric effects of polymer-based hybrid magnetoelectric composites with chain-like terfenol-D/epoxy and PVDF multilayers. Composites Science and Technology, 2021, 216, 109069. | 7.8 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Review and perspective on the calculations of mechanical and functional properties of low-dimensional nanocomposites. Journal of Micromechanics and Molecular Physics, 2021, 06, 67-87. | 1.2 | 1 |
| 20 | The effects of temperature and alignment state of nanofillers on the thermal conductivity of both metal and nonmetal based graphene nanocomposites. Acta Materialia, 2020, 185, 461-473. | 7.9 | 40 |
| 21 | Porosity-dependent percolation threshold and frequency-dependent electrical properties for highly aligned graphene-polymer nanocomposite foams. Materials Today Communications, 2020, 22, 100853. | 1.9 | 7 |
| 22 | The effect of temperature and graphene concentration on the electrical conductivity and dielectric permittivity of grapheneâ€“polymer nanocomposites. Acta Mechanica, 2020, 231, 1305-1320. | 2.1 | 29 |
| 23 | Theoretical study on self-biased magnetoelectric effect of layered magnetoelectric composites. Mechanics of Materials, 2020, 151, 103609. | 3.2 | 20 |
| 24 | Predicting temperature-dependent creep and recovery behaviors of agglomerated graphene-polymer nanocomposites with a thermodynamically driven temperature-degraded process. Mechanics of Materials, 2020, 150, 103576. | 3.2 | 12 |
| 25 | Tunable Electrical Properties of Embossed, Cellulose-Based Paper for Skin-like Sensing. ACS Applied Materials & Interfaces, 2020, 12, 51960-51968. | 8.0 | 10 |
| 26 | Calculating the Electrical Conductivity of Graphene Nanoplatelet Polymer Composites by a Monte Carlo Method. Nanomaterials, 2020, 10, 1129. | 4.1 | 57 |
| 27 | Microstructureâ€Property Relations in the Tensile Behavior of Bimodal Nanostructured Metals. Advanced Engineering Materials, 2020, 22, 2000097. | 3.5 | 6 |
| 28 | Experimental and theoretical study of the evolution of fluid-suspended graphene morphology driven by an applied electric field and the attainment of ultra-low percolation threshold in graphene-polymer nanocomposites. Composites Science and Technology, 2020, 199, 108315. | 7.8 | 7 |
| 29 | A theory of frequency dependence and sustained high dielectric constant in functionalized graphene-polymer nanocomposites. Mechanics of Materials, 2020, 144, 103352. | 3.2 | 15 |
| 30 | Modeling the dielectric breakdown strength and energy storage density of graphite-polymer composites with dielectric damage process. Materials and Design, 2020, 189, 108531. | 7.0 | 38 |
| 31 | A Monte Carlo model with equipotential approximation and tunneling resistance for the electrical conductivity of carbon nanotube polymer composites. Carbon, 2019, 146, 125-138. | 10.3 | 51 |
| 32 | Direct and converse nonlinear magnetoelectric coupling in multiferroic composites with ferromagnetic and ferroelectric phases. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20190002. | 2.1 | 8 |
| 33 | Tailoring the frequency-dependent electrical conductivity and dielectric permittivity of CNT-polymer nanocomposites with nanosized particles. International Journal of Engineering Science, 2019, 142, 1-19. | 5.0 | 29 |
| 34 | A synergetic grain growth mechanism uniting nanograin rotation and grain boundary migration in nanocrystalline materials. Results in Physics, 2019, 14, 102381. | 4.1 | 5 |
| 35 | A cooperative nano-grain rotation and grain-boundary migration mechanism for enhanced dislocation emission and tensile ductility in nanocrystalline materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 756, 284-290. | 5.6 | 27 |
| 36 | Experimental Investigation of the Magnetoelectric Effect in NdFeB-Driven A-Line Shape Terfenol-D/PZT-5A Structures. Materials, 2019, 12, 1055. | 2.9 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Tailoring tensile ductility of thin film by grain size graded substrates. International Journal of Solids and Structures, 2019, 166, 124-134. | 2.7 | 9 |
| 38 | Three dimensional phase-field simulations on the frequency dependence of polarization vectors and hysteresis loops in ferroelectric crystals. Journal of Applied Physics, 2019, 125, 084102. | 2.5 | 2 |
| 39 | Stress-assisted grain-rotation-induced dislocation emission from grain boundaries in nanocrystalline face-centered-cubic metals. Philosophical Magazine Letters, 2019, 99, 466-478. | 1.2 | 6 |
| 40 | Axial-torsional high-cycle fatigue of both coarse-grained and nanostructured metals: A 3D cohesive finite element model with uncertainty characteristics. Engineering Fracture Mechanics, 2018, 195, 30-43. | 4.3 | 9 |
| 41 | Changes in the board of editors. Acta Mechanica, 2018, 229, 1-1. | 2.1 | 19 |
| 42 | Special Issue dedicated to the memory of Franz Ziegler. Acta Mechanica, 2018, 229, 421-421. | 2.1 | 0 |
| 43 | Significantly enhanced crack blunting by nanograin rotation in nanocrystalline materials. Scripta Materialia, 2018, 151, 19-23. | 5.2 | 4 |
| 44 | The frequency dependence of microstructure evolution in a ferroelectric nano-film during AC dynamic polarization switching. Acta Mechanica, 2018, 229, 795-805. | 2.1 | 8 |
| 45 | Tensile Failure Modes in Nanograined Metals with Nanotwinned Regions. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 5001-5014. | 2.2 | 5 |
| 46 | Theory of thermal conductivity of graphene-polymer nanocomposites with interfacial Kapitza resistance and graphene-graphene contact resistance. Carbon, 2018, 137, 222-233. | 10.3 | 110 |
| 47 | Ballistic Performance of Nanostructured Metals Toughened by Elliptical Coarse-Grained Inclusions: A Finite Element Study with Failure Analysis. Materials, 2018, 11, 977. | 2.9 | 2 |
| 48 | Local Monte Carlo Method for Fatigue Analysis of Coarse-Grained Metals with a Nanograined Surface Layer. Metals, 2018, 8, 479. | 2.3 | 1 |
| 49 | The limit velocity and limit displacement of nanotwin-strengthened metals under ballistic impact. Acta Mechanica, 2018, 229, 1741-1757. | 2.1 | 5 |
| 50 | Interface effects on the strength and ductility of bimodal nanostructured metals. Acta Mechanica, 2018, 229, 3475-3487. | 2.1 | 8 |
| 51 | Electrical Conductivity of Carbon Nanotube- and Graphene-Based Nanocomposites. , 2018, , 123-156. | | 47 |
| 52 | Strain gradient polarization in graphene. Carbon, 2017, 117, 462-472. | 10.3 | 109 |
| 53 | Intrinsic versus extrinsic effects of the grain boundary on the properties of ferroelectric nanoceramics. Physical Review B, 2017, 95, . | 3.2 | 26 |
| 54 | Maxwellâ€“Wagnerâ€“Sillars mechanism in the frequency dependence of electrical conductivity and dielectric permittivity of graphene-polymer nanocomposites. Mechanics of Materials, 2017, 109, 42-50. | 3.2 | 105 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Theory of electrical conductivity and dielectric permittivity of highly aligned graphene-based nanocomposites. Journal of Physics Condensed Matter, 2017, 29, 205702. | 1.8 | 52 |
| 56 | Cristian Marchioli to succeed Alfredo Soldati as an Editor of Acta Mechanica. Acta Mechanica, 2017, 228, 1211-1211. | 2.1 | 0 |
| 57 | A unified theory of plasticity, progressive damage and failure in graphene-metal nanocomposites. International Journal of Plasticity, 2017, 99, 58-80. | 8.8 | 34 |
| 58 | A scaling law for distinct electrocaloric cooling performance in low-dimensional organic, relaxor and anti-ferroelectrics. Scientific Reports, 2017, 7, 11111. | 3.3 | 4 |
| 59 | An X-band theory of electromagnetic interference shielding for graphene-polymer nanocomposites. Journal of Applied Physics, 2017, 122, . | 2.5 | 36 |
| 60 | Influences of nanotwin volume fraction on the ballistic performance of coarse-grained metals. Theoretical and Applied Mechanics Letters, 2017, 7, 265-268. | 2.8 | 4 |
| 61 | A frequency-dependent theory of electrical conductivity and dielectric permittivity for graphene-polymer nanocomposites. Carbon, 2017, 111, 221-230. | 10.3 | 137 |
| 62 | On strain hardening mechanism in gradient nanostructures. International Journal of Plasticity, 2017, 88, 89-107. | 8.8 | 205 |
| 63 | Editorial: Review and Perspective on the Soft Matter Modeling of Cellular Mechanobiology. Acta Mechanica, 2017, 228, 4093-4093. | 2.1 | 0 |
| 64 | Theory of electric creep and electromechanical coupling with domain evolution for non-poled and fully poled ferroelectric ceramics. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20160468. | 2.1 | 8 |
| 65 | A theory of electrical conductivity, dielectric constant, and electromagnetic interference shielding for lightweight graphene composite foams. Journal of Applied Physics, 2016, 120, . | 2.5 | 64 |
| 66 | On Eshelby's S-tensor under various magneto-electro-elastic constitutive settings, and its application to multiferroic composites. Journal of Micromechanics and Molecular Physics, 2016, 01, 1640002. | 1.2 | 6 |
| 67 | The direct and indirect effects of nanotwin volume fraction on the strength and ductility of coarse-grained metals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 657, 234-243. | 5.6 | 20 |
| 68 | Simulation of ballistic performance of a two-layered structure of nanostructured metal and ceramic. Composite Structures, 2016, 157, 163-173. | 5.8 | 32 |
| 69 | Magnetoelectric Coupling and Overall Properties of a Class of Multiferroic Composites. , 2016, , 189-233. | | 3 |
| 70 | The saturation state of strength and ductility of bimodal nanostructured metals. Materials Letters, 2016, 175, 131-134. | 2.6 | 18 |
| 71 | A theoretical treatment of graphene nanocomposites with percolation threshold, tunneling-assisted conductivity and microcapacitor effect in AC and DC electrical settings. Carbon, 2016, 96, 474-490. | 10.3 | 131 |
| 72 | Percolation threshold and electrical conductivity of graphene-based nanocomposites with filler agglomeration and interfacial tunneling. Journal of Applied Physics, 2015, 118, . | 2.5 | 131 |

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|---|---|---|---|
| 73 | Magnetoelectric coupling and overall properties of multiferroic composites with 0-0 and 1-1 connectivity. Journal of Applied Physics, 2015, 118, . | 2.5 | 24 |
| 74 | A theory of magnetoelectric coupling with interface effects and aspect-ratio dependence in piezoelectric-piezomagnetic composites. Journal of Applied Physics, 2015, 117, 164106. | 2.5 | 39 |
| 75 | Molecular dynamics and atomistic based continuum studies of the interfacial behavior of nanoreinforced epoxy. Mechanics of Materials, 2015, 85, 38-46. | 3.2 | 24 |
| 76 | Simulation of ballistic performance of coarse-grained metals strengthened by nanotwinned regions. Modelling and Simulation in Materials Science and Engineering, 2015, 23, 085009. | 2.0 | 21 |
| 77 | A phase field study of frequency dependence and grain-size effects in nanocrystalline ferroelectric polycrystals. Acta Materialia, 2015, 87, 293-308. | 7.9 | 79 |
| 78 | Numerical simulation of ballistic performance of bimodal nanostructured metals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 630, 13-26. | 5.6 | 22 |
| 79 | Review and perspective in mechanics. Acta Mechanica, 2015, 226, 977-977. | 2.1 | 0 |
| 80 | 3D cohesive modeling of nanostructured metallic alloys with a Weibull random field in torsional fatigue. International Journal of Mechanical Sciences, 2015, 101-102, 227-240. | 6.7 | 7 |
| 81 | The Prager Medal Lecture: micromechanics and some aspects of phase fields in ferroelectric crystals. Acta Mechanica, 2014, 225, 979-998. | 2.1 | 5 |
| 82 | Micromechanical simulation of fracture behavior of bimodal nanostructured metals. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 618, 479-489. | 5.6 | 45 |
| 83 | A continuum model with a percolation threshold and tunneling-assisted interfacial conductivity for carbon nanotube-based nanocomposites. Journal of Applied Physics, 2014, 115, . | 2.5 | 133 |
| 84 | Computer simulation of strength and ductility of nanotwin-strengthened coarse-grained metals. Modelling and Simulation in Materials Science and Engineering, 2014, 22, 075014. | 2.0 | 23 |
| 85 | On reflected interactions in elastic solids containing inhomogeneities. Journal of the Mechanics and Physics of Solids, 2014, 68, 197-209. | 4.8 | 10 |
| 86 | A micromechanical approach to the stressâ€“strain relations, strain-rate sensitivity and activation volume of nanocrystalline materials. International Journal of Mechanics and Materials in Design, 2013, 9, 141-152. | 3.0 | 17 |
| 87 | A phase-field study on the hysteresis behaviors and domain patterns of nanocrystalline ferroelectric polycrystals. Journal of Applied Physics, 2013, 113, . | 2.5 | 46 |
| 88 | Interface effects on the viscoelastic characteristics of carbon nanotube polymer matrix composites. Mechanics of Materials, 2013, 58, 1-11. | 3.2 | 90 |
| 89 | Effect of carbon nanotube geometry upon tunneling assisted electrical network in nanocomposites. Journal of Applied Physics, 2013, 113, . | 2.5 | 49 |
| 90 | Phase Field Approach and Micromechanics in Ferroelectric Crystals. , 2013, , . | | 3 |

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|---|---|---|---|
| 91 | Investigation of the Age-Dependent Constitutive Relations of Mortar. Journal of Engineering Mechanics - ASCE, 2012, 138, 297-306. | 2.9 | 10 |
| 92 | Tunneling resistance and its effect on the electrical conductivity of carbon nanotube nanocomposites. Journal of Applied Physics, 2012, 111, . | 2.5 | 230 |
| 93 | Ductility enhancement of layered stainless steel with nanograined interface layers. Computational Materials Science, 2012, 55, 350-355. | 3.0 | 26 |
| 94 | A novel approach to predict the electrical conductivity of multifunctional nanocomposites. Mechanics of Materials, 2012, 46, 129-138. | 3.2 | 110 |
| 95 | Percolation threshold and electrical conductivity of a two-phase composite containing randomly oriented ellipsoidal inclusions. Journal of Applied Physics, 2011, 110, . | 2.5 | 71 |
| 96 | Effects of surface tension on the size-dependent ferroelectric characteristics of free-standing BaTiO3 nano-thin films. Journal of Applied Physics, 2011, 110, 084108. | 2.5 | 31 |
| 97 | A theory of plasticity for carbon nanotube reinforced composites. International Journal of Plasticity, 2011, 27, 539-559. | 8.8 | 179 |
| 98 | A micro-continuum model for the creep behavior of complex nanocrystalline materials. International Journal of Engineering Science, 2011, 49, 155-174. | 5.0 | 9 |
| 99 | Mechanics of a nanocrystalline coating and grain-size dependence of its plastic strength. Mechanics of Materials, 2011, 43, 496-504. | 3.2 | 16 |
| 100 | Anisotropic mechanism on distinct transition modes of tip-activated multipolorizaion switching in epitaxial BiFeO3 films. Journal of Applied Physics, 2011, 109, 024102. | 2.5 | 2 |
| 101 | A dynamical theory for the Moriâ€“Tanaka and Ponte CastaÃ±edaâ€“Willis estimates. Mechanics of Materials, 2010, 42, 886-893. | 3.2 | 92 |
| 102 | Piezoelectric composites with periodic multi-coated inhomogeneities. International Journal of Solids and Structures, 2010, 47, 2893-2904. | 2.7 | 30 |
| 103 | Study on Strain-Rate Sensitivity of Cementitious Composites. Journal of Engineering Mechanics - ASCE, 2010, 136, 1076-1082. | 2.9 | 11 |
| 104 | A theory of triple hysteresis in ferroelectric crystals. Journal of Applied Physics, 2009, 106, 074109. | 2.5 | 12 |
| 105 | Microstructural evolution and overall response of an initially isotropic ferroelectric polycrystal under an applied electric field. Mechanics of Materials, 2009, 41, 1179-1191. | 3.2 | 10 |
| 106 | Mechanics of very fine-grained nanocrystalline materials with contributions from grain interior, GB zone, and grain-boundary sliding. International Journal of Plasticity, 2009, 25, 2410-2434. | 8.8 | 86 |
| 107 | Finite anti-plane shear deformation of nonlinear elastic composites reinforced with elliptic fibers. Mechanics of Materials, 2009, 41, 868-877. | 3.2 | 3 |
| 108 | Thermodynamic driving force in ferroelectric crystals with a rank-2 laminated domain pattern, and a study of enhanced electrostriction. Journal of the Mechanics and Physics of Solids, 2009, 57, 571-597. | 4.8 | 40 |

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|---|---|---|---|
| 109 | Composites with superspherical inhomogeneities. Philosophical Magazine Letters, 2009, 89, 439-451. | 1.2 | 11 |
| 110 | Mechanics of creep resistance in nanocrystalline solids. Acta Mechanica, 2008, 195, 327-348. | 2.1 | 26 |
| 111 | The competition of grain size and porosity in the viscoplastic response of nanocrystalline solids. International Journal of Plasticity, 2008, 24, 1380-1410. | 8.8 | 44 |
| 112 | Micromechanics-Based Predictions on the Overall Stress-Strain Relations of Cement-Matrix Composites. Journal of Engineering Mechanics - ASCE, 2008, 134, 1045-1052. | 2.9 | 9 |
| 113 | Nonlinear Behavior and Critical State of a Penny-Shaped Dielectric Crack in a Piezoelectric Solid. Journal of Applied Mechanics, Transactions ASME, 2007, 74, 852-860. | 2.2 | 28 |
| 114 | The influence of a compressive stress on the nonlinear response of ferroelectric crystals. International Journal of Plasticity, 2007, 23, 1860-1873. | 8.8 | 7 |
| 115 | A secant-viscosity composite model for the strain-rate sensitivity of nanocrystalline materials. International Journal of Plasticity, 2007, 23, 2115-2133. | 8.8 | 69 |
| 116 | A theory of double hysteresis for ferroelectric crystals. Journal of Applied Physics, 2006, 99, 054103. | 2.5 | 25 |
| 117 | A polycrystal hysteresis model for ferroelectric ceramics. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2006, 462, 1573-1592. | 2.1 | 21 |
| 118 | A self-consistent polycrystal model for the spontaneous polarization of ferroelectric ceramics. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2006, 462, 1763-1789. | 2.1 | 22 |
| 119 | A dual-phase homogenization theory for the hysteresis and butterfly-shaped behavior of ferroelectric single crystals. Mechanics of Materials, 2006, 38, 945-957. | 3.2 | 10 |
| 120 | A polycrystal model for the anisotropic behavior of a fully poled ferroelectric ceramic. Journal of Applied Physics, 2006, 100, 114110. | 2.5 | 13 |
| 121 | A PIEZOELECTRIC INHOMOGENEITY INTERACTING WITH A BRANCHED CRACK. International Journal of Computational Methods, 2006, 03, 1-20. | 1.3 | 6 |
| 122 | The shift of Curie temperature and evolution of ferroelectric domain in ferroelectric crystals. Journal of the Mechanics and Physics of Solids, 2005, 53, 2071-2099. | 4.8 | 41 |
| 123 | The Nature of Stress and Electric-displacement Concentrations around a Strongly Oblate Cavity in a Transversely Isotropic Piezoelectric Material. International Journal of Fracture, 2005, 134, 319-337. | 2.2 | 22 |
| 124 | Effect of Kapitza contact and consideration of tube-end transport on the effective conductivity in nanotube-based composites. Journal of Applied Physics, 2005, 97, 104312. | 2.5 | 44 |
| 125 | Effects of Microstructures, Porosity and External Pressure on the Phase Transition of Ferroelectric Ceramics Upon Cooling. International Journal of Mechanics and Materials in Design, 2004, 1, 17-32. | 3.0 | 1 |
| 126 | A theory of compressive yield strength of nano-grained ceramics. International Journal of Plasticity, 2004, 20, 2007-2026. | 8.8 | 96 |

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|---|---|---|---|
| 127 | A generalized self-consistent polycrystal model for the yield strength of nanocrystalline materials. Journal of the Mechanics and Physics of Solids, 2004, 52, 1125-1149. | 4.8 | 132 |
| 128 | A micromechanics-based thermodynamic model for the domain switch in ferroelectric crystals. Acta Materialia, 2004, 52, 2489-2496. | 7.9 | 32 |
| 129 | A composite model for the grain-size dependence of yield stress of nanograined materials. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2003, 34, 765-772. | 2.2 | 2 |
| 130 | Effective bulk moduli of two functionally graded composites. Acta Mechanica, 2003, 166, 57-67. | 2.1 | 22 |
| 131 | Overall Elastic and Elastoplastic Behavior of a Partially Debonded Fiber-reinforced Composite. Journal of Composite Materials, 2003, 37, 741-758. | 2.4 | 14 |
| 132 | Unified approach for the estimate of effective magnetostriction of composites and polycrystals with particulate and columnar microstructures. Physical Review B, 2003, 68, . | 3.2 | 8 |
| 133 | Exact connections between effective magnetostriction and effective elastic moduli of fibrous composites and polycrystals. Journal of Applied Physics, 2003, 94, 491-495. | 2.5 | 7 |
| 134 | A theory of ferroelectric hysteresis with a superimposed stress. Journal of Applied Physics, 2002, 91, 3806-3815. | 2.5 | 41 |
| 135 | The Effect of Debonding Angle on the Reduction of Effective Moduli of Particle and Fiber-Reinforced Composites. Journal of Applied Mechanics, Transactions ASME, 2002, 69, 292-302. | 2.2 | 44 |
| 136 | Dynamic Fracture Analysis for a Penny-Shaped Crack in an FGM Interlayer between Dissimilar Half Spaces. Mathematics and Mechanics of Solids, 2002, 7, 149-163. | 2.4 | 24 |
| 137 | Antiplane Crack Problem in Functionally Graded Piezoelectric Materials. Journal of Applied Mechanics, Transactions ASME, 2002, 69, 481-488. | 2.2 | 156 |
| 138 | Yoffeâ€“type moving crack in a functionally graded piezoelectric material. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2002, 458, 381-399. | 2.1 | 66 |
| 139 | A new look at Hill's arithmetic and geometric means for a two-phase, isotropic composite. Acta Mechanica, 2002, 156, 1-12. | 2.1 | 4 |
| 140 | A micromechanics theory for the transformation toughening of two-phase ceramics. Acta Mechanica, 2002, 156, 47-62. | 2.1 | 3 |
| 141 | A new constitutive equation for the long-term creep of polymers based on physical aging. European Journal of Mechanics, A/Solids, 2002, 21, 411-421. | 3.7 | 22 |
| 142 | A direct method for the crystallography of martensitic transformation and its application to TiNi and AuCd. Acta Materialia, 2002, 50, 2967-2987. | 7.9 | 30 |
| 143 | A relaxed-constraint model for the tensile behavior of polycrystal shape-memory alloy wires. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2001, 32, 305-313. | 2.2 | 4 |
| 144 | Dynamic stress intensity factor of a functionally graded material under antiplane shear loading. Acta Mechanica, 2001, 149, 1-10. | 2.1 | 33 |

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|---|---|---|---|
| 145 | Dynamic stress intensity factor of a cylindrical interface crack with a functionally graded interlayer. Mechanics of Materials, 2001, 33, 325-333. | 3.2 | 46 |
| 146 | Dynamic behavior of a cylindrical crack in a functionally graded interlayer under torsional loading. International Journal of Solids and Structures, 2001, 38, 7473-7485. | 2.7 | 60 |
| 147 | Effective magnetostriction of nanocrystalline magnetic materials: An alternative effective-medium description of interfacial effect. Journal of Magnetism and Magnetic Materials, 2001, 233, 219-223. | 2.3 | 6 |
| 148 | Micromechanics simulation of spontaneous polarization in ferroelectric crystals. Journal of Applied Physics, 2001, 90, 2484-2491. | 2.5 | 19 |
| 149 | A Micromechanics-Based Hysteresis Model for Ferroelectric Ceramics. Journal of Intelligent Material Systems and Structures, 2001, 12, 79-91. | 2.5 | 6 |
| 150 | A dual homogenization and finite-element study on the in-plane local and global behavior of a nonlinear coated fiber composite. Computer Methods in Applied Mechanics and Engineering, 2000, 183, 141-155. | 6.6 | 12 |
| 151 | Micromechanics study of thermomechanical characteristics of polycrystal shape-memory alloy films. Thin Solid Films, 2000, 376, 198-207. | 1.8 | 12 |
| 152 | Some reflections on the Mori-Tanaka and Ponte Castaï¿½eda-Willis methods with randomly oriented ellipsoidal inclusions. Acta Mechanica, 2000, 140, 31-40. | 2.1 | 68 |
| 153 | The connections between the double-inclusion model and the Ponte Castanedaâ€“Willis, Moriâ€“Tanaka, and Kusterâ€“Toksoz models. Mechanics of Materials, 2000, 32, 495-503. | 3.2 | 116 |
| 154 | Interfacial partial debonding and its influence on the elasticity of a two-phase composite. Mechanics of Materials, 2000, 32, 695-709. | 3.2 | 29 |
| 155 | A two-level micromechanical theory for a shape-memory alloy reinforced composite. International Journal of Plasticity, 2000, 16, 1289-1307. | 8.8 | 31 |
| 156 | Effective electrostrictive coefficients of polycrystalline ceramics. Journal of Materials Science Letters, 2000, 19, 291-293. | 0.5 | 2 |
| 157 | A micromechanical theory for the thermally induced phase transformation in shape memory alloys. Smart Materials and Structures, 2000, 9, 582-591. | 3.5 | 11 |
| 158 | Effect of porosity on the effective magnetostriction of polycrystals. Journal of Applied Physics, 2000, 88, 339-343. | 2.5 | 12 |
| 159 | Theoretical approach to effective electrostriction in inhomogeneous materials. Physical Review B, 2000, 61, 258-265. | 3.2 | 22 |
| 160 | The bounds of electrostrictive coefficients of relaxor-based ferroelectric ceramics. Philosophical Magazine Letters, 2000, 80, 445-451. | 1.2 | 2 |
| 161 | Influence of polarization orientation on the effective properties of piezoelectric composites. Journal of Applied Physics, 2000, 88, 416-423. | 2.5 | 88 |
| 162 | The Influence of a Ductile Interphase on the Overall Elastoplastic Behavior of a Fiber-Reinforced Composite. Journal of Applied Mechanics, Transactions ASME, 1999, 66, 21-31. | 2.2 | 2 |

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|---|---|---|---|
| 163 | Influence of microstructural features on the effective magnetostriction of composite materials. Physical Review B, 1999, 60, 6723-6730. | 3.2 | 55 |
| 164 | A theory of domain switch for the nonlinear behaviour of ferroelectrics. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 1999, 455, 3493-3511. | 2.1 | 73 |
| 165 | Title is missing!. Journal of Elasticity, 1998, 53, 1-22. | 1.9 | 21 |
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