

George J Weng

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.

260
papers

9,143
citations

54
h-index

87
g-index

271
ext. papers

10,182
ext. citations

3.9
avg, IF

6.58
L-index

#	Paper	IF	Citations
260	Tuning the strength-ductility synergy of nanograined Cu through nanotwin volume fraction. <i>Computational Materials Science</i> , 2022 , 203, 111073	3.2	0
259	Modeling the impact of glass transition on the frequency-dependent complex conductivity of CNT-polymer nanocomposites. <i>Mechanics of Materials</i> , 2022 , 165, 104195	3.3	0
258	Creep rupture in carbon nanotube-based viscoplastic nanocomposites. <i>International Journal of Plasticity</i> , 2022 , 150, 103189	7.6	0
257	Segregated carbon nanotube networks in CNT-polymer nanocomposites for higher electrical conductivity and dielectric permittivity, and lower percolation threshold. <i>International Journal of Engineering Science</i> , 2022 , 173, 103650	5.7	0
256	Revealing the AC electromechanically coupled effects and stable sensitivity on the dielectric loss in CNT-based nanocomposite sensors. <i>Materials and Design</i> , 2022 , 216, 110557	8.1	2
255	Tuning the AC electric responses of decorated PDA@MWCNT/PVDF nanocomposites. <i>Composites Science and Technology</i> , 2022 , 222, 109398	8.6	0
254	Nonlinear magnetoelectric effects of polymer-based hybrid magnetoelectric composites with chain-like terfenol-D/epoxy and PVDF multilayers. <i>Composites Science and Technology</i> , 2021 , 216, 109069	8.6	2
253	A multiscale study of the filler-size and temperature dependence of the thermal conductivity of graphene-polymer nanocomposites. <i>Carbon</i> , 2021 , 175, 259-270	10.4	11
252	A hierarchical scheme from nano to macro scale for the strength and ductility of graphene/metal nanocomposites. <i>International Journal of Engineering Science</i> , 2021 , 162, 103476	5.7	9
251	A micromechanical model for heterogeneous nanograined metals with shape effect of inclusions and geometrically necessary dislocation pileups at the domain boundary. <i>International Journal of Plasticity</i> , 2021 , 144, 103024	7.6	4
250	Dual percolations of electrical conductivity and electromagnetic interference shielding in progressively agglomerated CNT/polymer nanocomposites. <i>Mathematics and Mechanics of Solids</i> , 2021 , 26, 1120-1137	2.3	1
249	Simulation of ductile fracture of zirconium alloys based on triaxiality dependent cohesive zone model. <i>Acta Mechanica</i> , 2021 , 232, 3723-3736	2.1	0
248	Biaxial fatigue crack growth in proton exchange membrane of fuel cells based on cyclic cohesive finite element method. <i>International Journal of Mechanical Sciences</i> , 2021 , 189, 105946	5.5	3
247	Uncovering the glass-transition temperature and temperature-dependent storage modulus of graphene-polymer nanocomposites through irreversible thermodynamic processes. <i>International Journal of Engineering Science</i> , 2021 , 158, 103411	5.7	8
246	Surface and interface effects on the bending behavior of nonlinear multilayered magnetoelectric nanostructures. <i>Composite Structures</i> , 2021 , 275, 114485	5.3	2
245	Monte Carlo method with Bézier curves for the complex conductivity of curved CNT-polymer nanocomposites. <i>International Journal of Engineering Science</i> , 2021 , 168, 103543	5.7	2
244	Tunable Electrical Properties of Embossed, Cellulose-Based Paper for Skin-like Sensing. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 51960-51968	9.5	0

243	Calculating the Electrical Conductivity of Graphene Nanoplatelet Polymer Composites by a Monte Carlo Method. <i>Nanomaterials</i> , 2020 , 10,	5.4	22
242	Microstructure-Property Relations in the Tensile Behavior of Bimodal Nanostructured Metals. <i>Advanced Engineering Materials</i> , 2020 , 22, 2000097	3.5	4
241	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. <i>Composites Science and Technology</i> , 2020 , 199, 108315	8.6	3
240	A theory of frequency dependence and sustained high dielectric constant in functionalized graphene-polymer nanocomposites. <i>Mechanics of Materials</i> , 2020 , 144, 103352	3.3	8
239	Modeling the dielectric breakdown strength and energy storage density of graphite-polymer composites with dielectric damage process. <i>Materials and Design</i> , 2020 , 189, 108531	8.1	24
238	The effects of temperature and alignment state of nanofillers on the thermal conductivity of both metal and nonmetal based graphene nanocomposites. <i>Acta Materialia</i> , 2020 , 185, 461-473	8.4	21
237	Porosity-dependent percolation threshold and frequency-dependent electrical properties for highly aligned graphene-polymer nanocomposite foams. <i>Materials Today Communications</i> , 2020 , 22, 100853	2.5	4
236	The effect of temperature and graphene concentration on the electrical conductivity and dielectric permittivity of graphene-polymer nanocomposites. <i>Acta Mechanica</i> , 2020 , 231, 1305-1320	2.1	11
235	Theoretical study on self-biased magnetoelectric effect of layered magnetoelectric composites. <i>Mechanics of Materials</i> , 2020 , 151, 103609	3.3	7
234	Predicting temperature-dependent creep and recovery behaviors of agglomerated graphene-polymer nanocomposites with a thermodynamically driven temperature-degraded process. <i>Mechanics of Materials</i> , 2020 , 150, 103576	3.3	5
233	A Monte Carlo model with equipotential approximation and tunneling resistance for the electrical conductivity of carbon nanotube polymer composites. <i>Carbon</i> , 2019 , 146, 125-138	10.4	36
232	Direct and converse nonlinear magnetoelectric coupling in multiferroic composites with ferromagnetic and ferroelectric phases. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019 , 475, 20190002	2.4	5
231	Tailoring the frequency-dependent electrical conductivity and dielectric permittivity of CNT-polymer nanocomposites with nanosized particles. <i>International Journal of Engineering Science</i> , 2019 , 142, 1-19	5.7	15
230	A synergetic grain growth mechanism uniting nanograin rotation and grain boundary migration in nanocrystalline materials. <i>Results in Physics</i> , 2019 , 14, 102381	3.7	1
229	A cooperative nano-grain rotation and grain-boundary migration mechanism for enhanced dislocation emission and tensile ductility in nanocrystalline materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 756, 284-290	5.3	20
228	Experimental Investigation of the Magnetoelectric Effect in NdFeB-Driven A-Line Shape Terfenol-D/PZT-5A Structures. <i>Materials</i> , 2019 , 12,	3.5	5
227	Tailoring tensile ductility of thin film by grain size graded substrates. <i>International Journal of Solids and Structures</i> , 2019 , 166, 124-134	3.1	6
226	Three dimensional phase-field simulations on the frequency dependence of polarization vectors and hysteresis loops in ferroelectric crystals. <i>Journal of Applied Physics</i> , 2019 , 125, 084102	2.5	1

225	Stress-assisted grain-rotation-induced dislocation emission from grain boundaries in nanocrystalline face-centered-cubic metals. <i>Philosophical Magazine Letters</i> , 2019 , 99, 466-478	1	3
224	Axial-torsional high-cycle fatigue of both coarse-grained and nanostructured metals: A 3D cohesive finite element model with uncertainty characteristics. <i>Engineering Fracture Mechanics</i> , 2018 , 195, 30-43	4.2	5
223	Significantly enhanced crack blunting by nanograin rotation in nanocrystalline materials. <i>Scripta Materialia</i> , 2018 , 151, 19-23	5.6	4
222	Ballistic Performance of Nanostructured Metals Toughened by Elliptical Coarse-Grained Inclusions: A Finite Element Study with Failure Analysis. <i>Materials</i> , 2018 , 11,	3.5	2
221	Local Monte Carlo Method for Fatigue Analysis of Coarse-Grained Metals with a Nanograined Surface Layer. <i>Metals</i> , 2018 , 8, 479	2.3	
220	The limit velocity and limit displacement of nanotwin-strengthened metals under ballistic impact. <i>Acta Mechanica</i> , 2018 , 229, 1741-1757	2.1	4
219	Interface effects on the strength and ductility of bimodal nanostructured metals. <i>Acta Mechanica</i> , 2018 , 229, 3475-3487	2.1	6
218	Electrical Conductivity of Carbon Nanotube- and Graphene-Based Nanocomposites 2018 , 123-156		29
217	The frequency dependence of microstructure evolution in a ferroelectric nano-film during AC dynamic polarization switching. <i>Acta Mechanica</i> , 2018 , 229, 795-805	2.1	6
216	Tensile Failure Modes in Nanograined Metals with Nanotwinned Regions. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 5001-5014	2.3	5
215	Theory of thermal conductivity of graphene-polymer nanocomposites with interfacial Kapitza resistance and graphene-graphene contact resistance. <i>Carbon</i> , 2018 , 137, 222-233	10.4	73
214	Strain gradient polarization in graphene. <i>Carbon</i> , 2017 , 117, 462-472	10.4	81
213	Intrinsic versus extrinsic effects of the grain boundary on the properties of ferroelectric nanoceramics. <i>Physical Review B</i> , 2017 , 95,	3.3	19
212	Maxwell-Wagner-Sillars mechanism in the frequency dependence of electrical conductivity and dielectric permittivity of graphene-polymer nanocomposites. <i>Mechanics of Materials</i> , 2017 , 109, 42-50	3.3	67
211	Theory of electrical conductivity and dielectric permittivity of highly aligned graphene-based nanocomposites. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 205702	1.8	36
210	A unified theory of plasticity, progressive damage and failure in graphene-metal nanocomposites. <i>International Journal of Plasticity</i> , 2017 , 99, 58-80	7.6	24
209	A scaling law for distinct electrocaloric cooling performance in low-dimensional organic, relaxor and anti-ferroelectrics. <i>Scientific Reports</i> , 2017 , 7, 11111	4.9	4
208	An X-band theory of electromagnetic interference shielding for graphene-polymer nanocomposites. <i>Journal of Applied Physics</i> , 2017 , 122, 025104	2.5	26

207	Influences of nanotwin volume fraction on the ballistic performance of coarse-grained metals. <i>Theoretical and Applied Mechanics Letters</i> , 2017 , 7, 265-268	1.8	3
206	A frequency-dependent theory of electrical conductivity and dielectric permittivity for graphene-polymer nanocomposites. <i>Carbon</i> , 2017 , 111, 221-230	10.4	97
205	On strain hardening mechanism in gradient nanostructures. <i>International Journal of Plasticity</i> , 2017 , 88, 89-107	7.6	127
204	A theoretical treatment of graphene nanocomposites with percolation threshold, tunneling-assisted conductivity and microcapacitor effect in AC and DC electrical settings. <i>Carbon</i> , 2016 , 96, 474-490	10.4	99
203	Simulation of ballistic performance of a two-layered structure of nanostructured metal and ceramic. <i>Composite Structures</i> , 2016 , 157, 163-173	5.3	23
202	Magnetoelectric Coupling and Overall Properties of a Class of Multiferroic Composites 2016 , 189-233		3
201	The saturation state of strength and ductility of bimodal nanostructured metals. <i>Materials Letters</i> , 2016 , 175, 131-134	3.3	14
200	Theory of electric creep and electromechanical coupling with domain evolution for non-poled and fully poled ferroelectric ceramics. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016 , 472, 20160468	2.4	7
199	A theory of electrical conductivity, dielectric constant, and electromagnetic interference shielding for lightweight graphene composite foams. <i>Journal of Applied Physics</i> , 2016 , 120, 085102	2.5	41
198	On Eshelby's tensor under various magneto-electro-elastic constitutive settings, and its application to multiferroic composites. <i>Journal of Micromechanics and Molecular Physics</i> , 2016 , 01, 1640002	1.4	4
197	The direct and indirect effects of nanotwin volume fraction on the strength and ductility of coarse-grained metals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 657, 234-243	5.3	18
196	Numerical simulation of ballistic performance of bimodal nanostructured metals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 630, 13-26	5.3	18
195	3D cohesive modeling of nanostructured metallic alloys with a Weibull random field in torsional fatigue. <i>International Journal of Mechanical Sciences</i> , 2015 , 101-102, 227-240	5.5	7
194	Percolation threshold and electrical conductivity of graphene-based nanocomposites with filler agglomeration and interfacial tunneling. <i>Journal of Applied Physics</i> , 2015 , 118, 065101	2.5	90
193	Magnetoelectric coupling and overall properties of multiferroic composites with 0-0 and 1-1 connectivity. <i>Journal of Applied Physics</i> , 2015 , 118, 174102	2.5	18
192	A theory of magnetoelectric coupling with interface effects and aspect-ratio dependence in piezoelectric-piezomagnetic composites. <i>Journal of Applied Physics</i> , 2015 , 117, 164106	2.5	32
191	Molecular dynamics and atomistic based continuum studies of the interfacial behavior of nanoreinforced epoxy. <i>Mechanics of Materials</i> , 2015 , 85, 38-46	3.3	18
190	Simulation of ballistic performance of coarse-grained metals strengthened by nanotwinned regions. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2015 , 23, 085009	2	18

189	A phase field study of frequency dependence and grain-size effects in nanocrystalline ferroelectric polycrystals. <i>Acta Materialia</i> , 2015 , 87, 293-308	8.4	61
188	The Prager Medal Lecture: micromechanics and some aspects of phase fields in ferroelectric crystals. <i>Acta Mechanica</i> , 2014 , 225, 979-998	2.1	4
187	Micromechanical simulation of fracture behavior of bimodal nanostructured metals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 618, 479-489	5.3	38
186	A continuum model with a percolation threshold and tunneling-assisted interfacial conductivity for carbon nanotube-based nanocomposites. <i>Journal of Applied Physics</i> , 2014 , 115, 193706	2.5	99
185	Computer simulation of strength and ductility of nanotwin-strengthened coarse-grained metals. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2014 , 22, 075014	2	18
184	On reflected interactions in elastic solids containing inhomogeneities. <i>Journal of the Mechanics and Physics of Solids</i> , 2014 , 68, 197-209	5	10
183	A micromechanical approach to the stress-strain relations, strain-rate sensitivity and activation volume of nanocrystalline materials. <i>International Journal of Mechanics and Materials in Design</i> , 2013 , 9, 141-152	2.5	15
182	A phase-field study on the hysteresis behaviors and domain patterns of nanocrystalline ferroelectric polycrystals. <i>Journal of Applied Physics</i> , 2013 , 113, 204106	2.5	38
181	Interface effects on the viscoelastic characteristics of carbon nanotube polymer matrix composites. <i>Mechanics of Materials</i> , 2013 , 58, 1-11	3.3	78
180	Effect of carbon nanotube geometry upon tunneling assisted electrical network in nanocomposites. <i>Journal of Applied Physics</i> , 2013 , 113, 234313	2.5	35
179	Phase Field Approach and Micromechanics in Ferroelectric Crystals 2013 ,		3
178	A novel approach to predict the electrical conductivity of multifunctional nanocomposites. <i>Mechanics of Materials</i> , 2012 , 46, 129-138	3.3	86
177	Tunneling resistance and its effect on the electrical conductivity of carbon nanotube nanocomposites. <i>Journal of Applied Physics</i> , 2012 , 111, 093726	2.5	188
176	Ductility enhancement of layered stainless steel with nanograined interface layers. <i>Computational Materials Science</i> , 2012 , 55, 350-355	3.2	24
175	Investigation of the Age-Dependent Constitutive Relations of Mortar. <i>Journal of Engineering Mechanics - ASCE</i> , 2012 , 138, 297-306	2.4	9
174	Percolation threshold and electrical conductivity of a two-phase composite containing randomly oriented ellipsoidal inclusions. <i>Journal of Applied Physics</i> , 2011 , 110, 123715	2.5	67
173	Effects of surface tension on the size-dependent ferroelectric characteristics of free-standing BaTiO ₃ nano-thin films. <i>Journal of Applied Physics</i> , 2011 , 110, 084108	2.5	27
172	A theory of plasticity for carbon nanotube reinforced composites. <i>International Journal of Plasticity</i> , 2011 , 27, 539-559	7.6	156

171	A micro-continuum model for the creep behavior of complex nanocrystalline materials. <i>International Journal of Engineering Science</i> , 2011 , 49, 155-174	5.7	8
170	Mechanics of a nanocrystalline coating and grain-size dependence of its plastic strength. <i>Mechanics of Materials</i> , 2011 , 43, 496-504	3.3	14
169	Anisotropic mechanism on distinct transition modes of tip-activated multipolarization switching in epitaxial BiFeO ₃ films. <i>Journal of Applied Physics</i> , 2011 , 109, 024102	2.5	2
168	Study on Strain-Rate Sensitivity of Cementitious Composites. <i>Journal of Engineering Mechanics - ASCE</i> , 2010 , 136, 1076-1082	2.4	10
167	A dynamical theory for the Mori-Tanaka and Ponte Castañeda-Willis estimates. <i>Mechanics of Materials</i> , 2010 , 42, 886-893	3.3	64
166	Piezoelectric composites with periodic multi-coated inhomogeneities. <i>International Journal of Solids and Structures</i> , 2010 , 47, 2893-2904	3.1	27
165	A theory of triple hysteresis in ferroelectric crystals. <i>Journal of Applied Physics</i> , 2009 , 106, 074109	2.5	10
164	Microstructural evolution and overall response of an initially isotropic ferroelectric polycrystal under an applied electric field. <i>Mechanics of Materials</i> , 2009 , 41, 1179-1191	3.3	9
163	Mechanics of very fine-grained nanocrystalline materials with contributions from grain interior, GB zone, and grain-boundary sliding. <i>International Journal of Plasticity</i> , 2009 , 25, 2410-2434	7.6	75
162	Finite anti-plane shear deformation of nonlinear elastic composites reinforced with elliptic fibers. <i>Mechanics of Materials</i> , 2009 , 41, 868-877	3.3	1
161	Thermodynamic driving force in ferroelectric crystals with a rank-2 laminated domain pattern, and a study of enhanced electrostriction. <i>Journal of the Mechanics and Physics of Solids</i> , 2009 , 57, 571-597	5	36
160	Composites with superspherical inhomogeneities. <i>Philosophical Magazine Letters</i> , 2009 , 89, 439-451	1	10
159	Micromechanics-Based Predictions on the Overall Stress-Strain Relations of Cement-Matrix Composites. <i>Journal of Engineering Mechanics - ASCE</i> , 2008 , 134, 1045-1052	2.4	8
158	Mechanics of creep resistance in nanocrystalline solids. <i>Acta Mechanica</i> , 2008 , 195, 327-348	2.1	24
157	The competition of grain size and porosity in the viscoplastic response of nanocrystalline solids. <i>International Journal of Plasticity</i> , 2008 , 24, 1380-1410	7.6	39
156	The influence of a compressive stress on the nonlinear response of ferroelectric crystals. <i>International Journal of Plasticity</i> , 2007 , 23, 1860-1873	7.6	6
155	A secant-viscosity composite model for the strain-rate sensitivity of nanocrystalline materials. <i>International Journal of Plasticity</i> , 2007 , 23, 2115-2133	7.6	63
154	Nonlinear Behavior and Critical State of a Penny-Shaped Dielectric Crack in a Piezoelectric Solid. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2007 , 74, 852-860	2.7	27

153	A dual-phase homogenization theory for the hysteresis and butterfly-shaped behavior of ferroelectric single crystals. <i>Mechanics of Materials</i> , 2006 , 38, 945-957	3.3	9
152	A polycrystal model for the anisotropic behavior of a fully poled ferroelectric ceramic. <i>Journal of Applied Physics</i> , 2006 , 100, 114110	2.5	11
151	A PIEZOELECTRIC INHOMOGENEITY INTERACTING WITH A BRANCHED CRACK. <i>International Journal of Computational Methods</i> , 2006 , 03, 1-20	1.1	5
150	A theory of double hysteresis for ferroelectric crystals. <i>Journal of Applied Physics</i> , 2006 , 99, 054103	2.5	20
149	A polycrystal hysteresis model for ferroelectric ceramics. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2006 , 462, 1573-1592	2.4	17
148	A self-consistent polycrystal model for the spontaneous polarization of ferroelectric ceramics. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2006 , 462, 1763-1789 ^{2.4}	2.4	20
147	The shift of Curie temperature and evolution of ferroelectric domain in ferroelectric crystals. <i>Journal of the Mechanics and Physics of Solids</i> , 2005 , 53, 2071-2099	5	35
146	The Nature of Stress and Electric-displacement Concentrations around a Strongly Oblate Cavity in a Transversely Isotropic Piezoelectric Material. <i>International Journal of Fracture</i> , 2005 , 134, 319-337	2.3	16
145	Effect of Kapitza contact and consideration of tube-end transport on the effective conductivity in nanotube-based composites. <i>Journal of Applied Physics</i> , 2005 , 97, 104312	2.5	42
144	Effects of Microstructures, Porosity and External Pressure on the Phase Transition of Ferroelectric Ceramics Upon Cooling. <i>International Journal of Mechanics and Materials in Design</i> , 2004 , 1, 17-32	2.5	0
143	A theory of compressive yield strength of nano-grained ceramics. <i>International Journal of Plasticity</i> , 2004 , 20, 2007-2026	7.6	83
142	A generalized self-consistent polycrystal model for the yield strength of nanocrystalline materials. <i>Journal of the Mechanics and Physics of Solids</i> , 2004 , 52, 1125-1149	5	118
141	A micromechanics-based thermodynamic model for the domain switch in ferroelectric crystals. <i>Acta Materialia</i> , 2004 , 52, 2489-2496	8.4	30
140	A composite model for the grain-size dependence of yield stress of nanograined materials. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2003 , 34, 765-772	2.3	2
139	Effective bulk moduli of two functionally graded composites. <i>Acta Mechanica</i> , 2003 , 166, 57-67	2.1	21
138	Overall Elastic and Elastoplastic Behavior of a Partially Debonded Fiber-reinforced Composite. <i>Journal of Composite Materials</i> , 2003 , 37, 741-758	2.7	12
137	Unified approach for the estimate of effective magnetostriction of composites and polycrystals with particulate and columnar microstructures. <i>Physical Review B</i> , 2003 , 68,	3.3	7
136	Exact connections between effective magnetostriction and effective elastic moduli of fibrous composites and polycrystals. <i>Journal of Applied Physics</i> , 2003 , 94, 491-495	2.5	6

135	A new look at Hill's arithmetic and geometric means for a two-phase, isotropic composite. <i>Acta Mechanica</i> , 2002 , 156, 1-12	2.1	3
134	A micromechanics theory for the transformation toughening of two-phase ceramics. <i>Acta Mechanica</i> , 2002 , 156, 47-62	2.1	1
133	A new constitutive equation for the long-term creep of polymers based on physical aging. <i>European Journal of Mechanics, A/Solids</i> , 2002 , 21, 411-421	3.7	21
132	A direct method for the crystallography of martensitic transformation and its application to TiNi and AuCd. <i>Acta Materialia</i> , 2002 , 50, 2967-2987	8.4	22
131	A theory of ferroelectric hysteresis with a superimposed stress. <i>Journal of Applied Physics</i> , 2002 , 91, 3806-3815	3.5	35
130	The Effect of Debonding Angle on the Reduction of Effective Moduli of Particle and Fiber-Reinforced Composites. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2002 , 69, 292-302	2.7	37
129	Dynamic Fracture Analysis for a Penny-Shaped Crack in an FGM Interlayer between Dissimilar Half Spaces. <i>Mathematics and Mechanics of Solids</i> , 2002 , 7, 149-163	2.3	22
128	Antiplane Crack Problem in Functionally Graded Piezoelectric Materials. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2002 , 69, 481-488	2.7	146
127	Yoffe-type moving crack in a functionally graded piezoelectric material. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2002 , 458, 381-399	2.4	59
126	A relaxed-constraint model for the tensile behavior of polycrystal shape-memory alloy wires. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2001 , 32, 305-313	2.3	3
125	Dynamic stress intensity factor of a functionally graded material under antiplane shear loading. <i>Acta Mechanica</i> , 2001 , 149, 1-10	2.1	28
124	Dynamic stress intensity factor of a cylindrical interface crack with a functionally graded interlayer. <i>Mechanics of Materials</i> , 2001 , 33, 325-333	3.3	45
123	Dynamic behavior of a cylindrical crack in a functionally graded interlayer under torsional loading. <i>International Journal of Solids and Structures</i> , 2001 , 38, 7473-7485	3.1	54
122	Effective magnetostriction of nanocrystalline magnetic materials: An alternative effective-medium description of interfacial effect. <i>Journal of Magnetism and Magnetic Materials</i> , 2001 , 233, 219-223	2.8	5
121	Micromechanics simulation of spontaneous polarization in ferroelectric crystals. <i>Journal of Applied Physics</i> , 2001 , 90, 2484-2491	2.5	18
120	A Micromechanics-Based Hysteresis Model for Ferroelectric Ceramics. <i>Journal of Intelligent Material Systems and Structures</i> , 2001 , 12, 79-91	2.3	2
119	A dual homogenization and finite-element study on the in-plane local and global behavior of a nonlinear coated fiber composite. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000 , 183, 141-155	5.7	11
118	Micromechanics study of thermomechanical characteristics of polycrystal shape-memory alloy films. <i>Thin Solid Films</i> , 2000 , 376, 198-207	2.2	10

117	Some reflections on the Mori-Tanaka and Ponte Castañeda-Willis methods with randomly oriented ellipsoidal inclusions. <i>Acta Mechanica</i> , 2000 , 140, 31-40	2.1	58
116	The connections between the double-inclusion model and the Ponte Castaneda-Willis, Mori-Tanaka, and Kuster-Toksoz models. <i>Mechanics of Materials</i> , 2000 , 32, 495-503	3.3	104
115	Interfacial partial debonding and its influence on the elasticity of a two-phase composite. <i>Mechanics of Materials</i> , 2000 , 32, 695-709	3.3	23
114	A two-level micromechanical theory for a shape-memory alloy reinforced composite. <i>International Journal of Plasticity</i> , 2000 , 16, 1289-1307	7.6	26
113	Effective electrostrictive coefficients of polycrystalline ceramics. <i>Journal of Materials Science Letters</i> , 2000 , 19, 291-293		0
112	A micromechanical theory for the thermally induced phase transformation in shape memory alloys. <i>Smart Materials and Structures</i> , 2000 , 9, 582-591	3.4	7
111	Effect of porosity on the effective magnetostriction of polycrystals. <i>Journal of Applied Physics</i> , 2000 , 88, 339-343	2.5	10
110	Theoretical approach to effective electrostriction in inhomogeneous materials. <i>Physical Review B</i> , 2000 , 61, 258-265	3.3	18
109	Influence of polarization orientation on the effective properties of piezoelectric composites. <i>Journal of Applied Physics</i> , 2000 , 88, 416-423	2.5	70
108	The Influence of a Ductile Interphase on the Overall Elastoplastic Behavior of a Fiber-Reinforced Composite. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1999 , 66, 21-31	2.7	1
107	Influence of microstructural features on the effective magnetostriction of composite materials. <i>Physical Review B</i> , 1999 , 60, 6723-6730	3.3	42
106	A theory of domain switch for the nonlinear behaviour of ferroelectrics. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 1999 , 455, 3493-3511	2.4	62
105	The Influence of Moduli Slope of a Linearly Graded Matrix on the Bulk Moduli of Some Particle- and Fiber-Reinforced Composites. <i>Journal of Elasticity</i> , 1998 , 53, 1-22	1.5	17
104	A self-consistent model for the stress-strain behavior of shape-memory alloy polycrystals. <i>Acta Materialia</i> , 1998 , 46, 5423-5433	8.4	83
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