

George J Weng

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7919759/george-j-weng-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	The effect of aspect ratio of inclusions on the elastic properties of unidirectionally aligned composites. <i>Polymer Composites</i> , 1984 , 5, 327-333	3	514
259	Some elastic properties of reinforced solids, with special reference to isotropic ones containing spherical inclusions. <i>International Journal of Engineering Science</i> , 1984 , 22, 845-856	5.7	501
258	A Theory of Particle-Reinforced Plasticity. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1988 , 55, 126-135	2.7	350
257	The theoretical connection between Mori-Tanaka's theory and the Hashin-Shtrikman-Walpole bounds. <i>International Journal of Engineering Science</i> , 1990 , 28, 1111-1120	5.7	285
256	On the application of Mori-Tanaka's theory involving transversely isotropic spheroidal inclusions. <i>International Journal of Engineering Science</i> , 1990 , 28, 1121-1137	5.7	208
255	Average stress in the matrix and effective moduli of randomly oriented composites. <i>Composites Science and Technology</i> , 1986 , 27, 111-132	8.6	207
254	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
253	The overall elastoplastic stress-strain relations of dual-phase metals. <i>Journal of the Mechanics and Physics of Solids</i> , 1990 , 38, 419-441	5	186
252	Elastic moduli for a class of porous materials. <i>Acta Mechanica</i> , 1989 , 76, 105-131	2.1	174
251	A theory of plasticity for carbon nanotube reinforced composites. <i>International Journal of Plasticity</i> , 2011 , 27, 539-559	7.6	156
250	A Theory of Plasticity for Porous Materials and Particle-Reinforced Composites. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1992 , 59, 261-268	2.7	155
249	Antiplane Crack Problem in Functionally Graded Piezoelectric Materials. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2002 , 69, 481-488	2.7	146
248	On strain hardening mechanism in gradient nanostructures. <i>International Journal of Plasticity</i> , 2017 , 88, 89-107	7.6	127
247	The Influence of Inclusion Shape on the Overall Viscoelastic Behavior of Composites. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1992 , 59, 510-518	2.7	119
246	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
245	Stress Distribution in and Around Spheroidal Inclusions and Voids at Finite Concentration. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1986 , 53, 511-518	2.7	106
244	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

243	Explicit evaluation of Willis bounds with ellipsoidal inclusions. <i>International Journal of Engineering Science</i> , 1992 , 30, 83-92	5.7	103
242	On Eshelby inclusion problem in a three-phase spherically concentric solid, and a modification of Mori-Tanaka method. <i>Mechanics of Materials</i> , 1987 , 6, 347-361	3.3	101
241	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
240	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
239	A frequency-dependent theory of electrical conductivity and dielectric permittivity for graphene-polymer nanocomposites. <i>Carbon</i> , 2017 , 111, 221-230	10.4	97
238	Martensitic transformation and stress-strain relations of shape-memory alloys. <i>Journal of the Mechanics and Physics of Solids</i> , 1997 , 45, 1905-1928	5	94
237	Effective Elastic Moduli of Ribbon-Reinforced Composites. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1990 , 57, 158-167	2.7	91
236	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
235	Elastic Moduli of Thickly Coated Particle and Fiber-Reinforced Composites. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1991 , 58, 388-398	2.7	90
234	A novel approach to predict the electrical conductivity of multifunctional nanocomposites. <i>Mechanics of Materials</i> , 2012 , 46, 129-138	3.3	86
233	A Progressive Damage Mechanics in Particle-Reinforced Metal-Matrix Composites Under High Triaxial Tension. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 1994 , 116, 414-420	1.8	85
232	Plasticity of a two-phase composite with partially debonded inclusions. <i>International Journal of Plasticity</i> , 1996 , 12, 781-804	7.6	84
231	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
230	A theory of compressive yield strength of nano-grained ceramics. <i>International Journal of Plasticity</i> , 2004 , 20, 2007-2026	7.6	83
229	Strain gradient polarization in graphene. <i>Carbon</i> , 2017 , 117, 462-472	10.4	81
228	On eshelby in a three-phase cylindrically concentric solid, and the elastic moduli of fiber-reinforced composites. <i>Mechanics of Materials</i> , 1989 , 8, 77-88	3.3	81
227	Transversely isotropic moduli of two partially debonded composites. <i>International Journal of Solids and Structures</i> , 1997 , 34, 493-507	3.1	79
226	Interface effects on the viscoelastic characteristics of carbon nanotube polymer matrix composites. <i>Mechanics of Materials</i> , 2013 , 58, 1-11	3.3	78

225	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
224	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
223	A micromechanical theory of grain-size dependence in metal plasticity. <i>Journal of the Mechanics and Physics of Solids</i> , 1983 , 31, 193-203	5	72
222	Influence of polarization orientation on the effective properties of piezoelectric composites. <i>Journal of Applied Physics</i> , 2000 , 88, 416-423	2.5	70
221	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
220	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
219	A dynamical theory for the Mori-Tanaka and Ponte Castañeda-Willis estimates. <i>Mechanics of Materials</i> , 2010 , 42, 886-893	3.3	64
218	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
217	Strain-Rate Sensitivity, Relaxation Behavior, and Complex Moduli of a Class of Isotropic Viscoelastic Composites. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 1994 , 116, 495-504	1.8	63
216	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
215	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
214	The influence of inclusion shape on the overall elastoplastic behavior of a two-phase isotropic composite. <i>International Journal of Solids and Structures</i> , 1991 , 27, 1537-1550	3.1	60
213	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
212	An energy criterion for the stress-induced martensitic transformation in a ductile system. <i>Journal of the Mechanics and Physics of Solids</i> , 1994 , 42, 1699-1724	5	59
211	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
210	An Analytical Study of an Experimentally Verified Hardening Law. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1975 , 42, 375-378	2.7	58
209	Self-Consistent Determination of Time-Dependent Behavior of Metals. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1981 , 48, 41-46	2.7	56
208	A Unified, Self-Consistent Theory for the Plastic-Creep Deformation of Metals. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1982 , 49, 728-734	2.7	55

207	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
206	Plastic potential and yield function of porous materials with aligned and randomly oriented spheroidal voids. <i>International Journal of Plasticity</i> , 1993 , 9, 271-290	7.6	48
205	A secant-viscosity approach to the time-dependent creep of an elastic viscoplastic composite. <i>Journal of the Mechanics and Physics of Solids</i> , 1997 , 45, 1069-1083	5	47
204	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
203	Influence of thermal residual stresses on the composite macroscopic behavior. <i>Mechanics of Materials</i> , 1998 , 27, 229-240	3.3	43
202	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
201	Influence of microstructural features on the effective magnetostriction of composite materials. <i>Physical Review B</i> , 1999 , 60, 6723-6730	3.3	42
200	Kinematic hardening rule in single crystals. <i>International Journal of Solids and Structures</i> , 1979 , 15, 861-870	3.0	41
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	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
197	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
196	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
195	Effect of a viscoelastic interphase on the creep and stress/strain behavior of fiber-reinforced polymer matrix composites. <i>Composites Part B: Engineering</i> , 1996 , 27, 589-598	10	38
194	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
193	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
192	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
191	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
190	Anisotropic hardening in single crystals and the plasticity of polycrystals. <i>International Journal of Plasticity</i> , 1987 , 3, 315-339	7.6	36

189	Effect of carbon nanotube geometry upon tunneling assisted electrical network in nanocomposites. <i>Journal of Applied Physics</i> , 2013 , 113, 234313	2.5	35
188	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
187	A theory of ferroelectric hysteresis with a superimposed stress. <i>Journal of Applied Physics</i> , 2002 , 91, 3806-3815	3.5	35
186	An Energy Approach to the Plasticity of a Two-Phase Composite Containing Aligned Inclusions. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1995 , 62, 1039-1046	2.7	35
185	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
184	A micromechanics-based thermodynamic model for the domain switch in ferroelectric crystals. <i>Acta Materialia</i> , 2004 , 52, 2489-2496	8.4	30
183	Electrical Conductivity of Carbon Nanotube- and Graphene-Based Nanocomposites 2018 , 123-156		29
182	Dynamic stress intensity factor of a functionally graded material under antiplane shear loading. <i>Acta Mechanica</i> , 2001 , 149, 1-10	2.1	28
181	A Theory of Inclusion Debonding and its Influence on the Stress-Strain Relations of a Ductile Matrix Composite. <i>International Journal of Damage Mechanics</i> , 1995 , 4, 196-211	3	28
180	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
179	Piezoelectric composites with periodic multi-coated inhomogeneities. <i>International Journal of Solids and Structures</i> , 2010 , 47, 2893-2904	3.1	27
178	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
177	An X-band theory of electromagnetic interference shielding for graphene-polymer nanocomposites. <i>Journal of Applied Physics</i> , 2017 , 122, 025104	2.5	26
176	A unified approach from elasticity to viscoelasticity to viscoplasticity of particle-reinforced solids. <i>International Journal of Plasticity</i> , 1998 , 14, 193-208	7.6	26
175	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
174	A self-consistent relation for the time-dependent creep of polycrystals. <i>International Journal of Plasticity</i> , 1993 , 9, 181-198	7.6	25
173	Dislocation theories of work hardening and yield surfaces of single crystals. <i>Acta Mechanica</i> , 1980 , 37, 217-230	2.1	25
172	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

171	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
170	Ductility enhancement of layered stainless steel with nanograined interface layers. <i>Computational Materials Science</i> , 2012 , 55, 350-355	3.2	24
169	Mechanics of creep resistance in nanocrystalline solids. <i>Acta Mechanica</i> , 2008 , 195, 327-348	2.1	24
168	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
167	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
166	The influence of martensite shape, concentration, and phase transformation strain on the deformation behavior of stable dual-phase steels. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1993 , 24, 301-314		23
165	A Self-Consistent Scheme for the Relaxation Behavior of Metals. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1981 , 48, 779-784	2.7	23
164	Calculating the Electrical Conductivity of Graphene Nanoplatelet Polymer Composites by a Monte Carlo Method. <i>Nanomaterials</i> , 2020 , 10,	5.4	22
163	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
162	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
161	Elastic constants of a polycrystal with transversely isotropic grains, and the influence of precipitates. <i>Mechanics of Materials</i> , 1991 , 12, 1-15	3.3	22
160	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
159	Effective bulk moduli of two functionally graded composites. <i>Acta Mechanica</i> , 2003 , 166, 57-67	2.1	21
158	Elastic moduli of heterogeneous solids with ellipsoidal inclusions and elliptic cracks. <i>Acta Mechanica</i> , 1995 , 110, 73-94	2.1	21
157	Constitutive equations of single crystals and polycrystalline aggregates under cyclic loading. <i>International Journal of Engineering Science</i> , 1980 , 18, 1385-1397	5.7	21
156	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
155	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
154	A theory of double hysteresis for ferroelectric crystals. <i>Journal of Applied Physics</i> , 2006 , 99, 054103	2.5	20

153	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}	2.0
152	Intrinsic versus extrinsic effects of the grain boundary on the properties of ferroelectric nanoceramics. <i>Physical Review B</i> , 2017 , 95,	3.3 19
151	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
150	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
149	Magnetolectric 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
148	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
147	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
146	Micromechanics simulation of spontaneous polarization in ferroelectric crystals. <i>Journal of Applied Physics</i> , 2001 , 90, 2484-2491	2.5 18
145	Theoretical approach to effective electrostriction in inhomogeneous materials. <i>Physical Review B</i> , 2000 , 61, 258-265	3.3 18
144	An investigation of yield surfaces based on dislocation mechanics. <i>International Journal of Engineering Science</i> , 1977 , 15, 45-59	5.7 18
143	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
142	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
141	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
140	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
139	Anisotropic stress-strain relations and complex moduli of a viscoelastic composite with aligned spheroidal inclusions. <i>Composites Part B: Engineering</i> , 1994 , 4, 1073-1097	16
138	Theoretical calculation of anisotropic creep and stress-strain behavior for a class of metal-matrix composites. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1993 , 24, 2049-2059	16
137	Creep Deformation of Particle-Strengthened Metal-Matrix Composites. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 1989 , 111, 99-105	1.8 16
136	Creep anisotropy of a metal-matrix composite containing dilute concentration of aligned spheroidal inclusions. <i>Mechanics of Materials</i> , 1990 , 9, 93-105	3.3 16

135	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
134	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
133	The saturation state of strength and ductility of bimodal nanostructured metals. <i>Materials Letters</i> , 2016 , 175, 131-134	3.3	14
132	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
131	Determination of notch-tip plasticity by X-ray diffraction and comparison to continuum mechanics analysis. <i>Journal of Applied Crystallography</i> , 1982 , 15, 594-601	3.8	14
130	An experimental and theoretical study of creep of a graphite/epoxy woven composite. <i>Polymer Composites</i> , 1996 , 17, 353-361	3	13
129	Effective creep behavior and complex moduli of fiber- and ribbon-reinforced polymer-matrix composites. <i>Composites Science and Technology</i> , 1994 , 52, 615-629	8.6	13
128	Transient Creep Strain of a Fiber-Reinforced Metal-Matrix Composite Under Transverse Loading. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 1992 , 114, 237-244	1.8	13
127	Micromechanics of time-dependent deformation in a dispersion-hardened polycrystal. <i>Acta Mechanica</i> , 1987 , 69, 295-313	2.1	13
126	A homogenization theory for the overall creep of isotropic viscoplastic composites. <i>Acta Mechanica</i> , 1997 , 125, 141-153	2.1	12
125	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
124	Micromechanical determination of two-phase plasticity. <i>International Journal of Plasticity</i> , 1985 , 1, 275-287	3.6	12
123	Elastic moduli of randomly oriented, chopped-fibre composites with filled resin. <i>Journal of Materials Science</i> , 1979 , 14, 2183-2190	4.3	12
122	A Physically Consistent Method for the Prediction of Creep Behavior of Metals. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1979 , 46, 800-804	2.7	12
121	Time-dependent creep of a dual-phase viscoplastic material with lamellar structure. <i>International Journal of Plasticity</i> , 1998 , 14, 755-770	7.6	11
120	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
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	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

117	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
116	On reflected interactions in elastic solids containing inhomogeneities. <i>Journal of the Mechanics and Physics of Solids</i> , 2014 , 68, 197-209	5	10
115	Study on Strain-Rate Sensitivity of Cementitious Composites. <i>Journal of Engineering Mechanics - ASCE</i> , 2010 , 136, 1076-1082	2.4	10
114	A theory of triple hysteresis in ferroelectric crystals. <i>Journal of Applied Physics</i> , 2009 , 106, 074109	2.5	10
113	Composites with superspherical inhomogeneities. <i>Philosophical Magazine Letters</i> , 2009 , 89, 439-451	1	10
112	Micromechanics study of thermomechanical characteristics of polycrystal shape-memory alloy films. <i>Thin Solid Films</i> , 2000 , 376, 198-207	2.2	10
111	Effect of porosity on the effective magnetostriction of polycrystals. <i>Journal of Applied Physics</i> , 2000 , 88, 339-343	2.5	10
110	Plasticity of Particle-Reinforced Composites With a Ductile Interphase. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1998 , 65, 596-604	2.7	10
109	Modulus prediction of a cross-ply fiber reinforced fabric composite with voids. <i>Polymer Composites</i> , 1992 , 13, 285-294	3	10
108	An investigation of yield surfaces based on dislocation mechanicsII. <i>International Journal of Engineering Science</i> , 1977 , 15, 61-70	5.7	10
107	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
106	Investigation of the Age-Dependent Constitutive Relations of Mortar. <i>Journal of Engineering Mechanics - ASCE</i> , 2012 , 138, 297-306	2.4	9
105	Stress-Strain Relations of a Viscoelastic Composite Reinforced with Elliptic Cylinders. <i>Journal of Thermoplastic Composite Materials</i> , 1997 , 10, 19-30	1.9	9
104	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
103	Void growth and stress-strain relations of a class of viscoelastic porous materials. <i>Mechanics of Materials</i> , 1996 , 22, 179-188	3.3	9
102	Self-similar and transient void growth in viscoelastic media at low concentration. <i>International Journal of Fracture</i> , 1993 , 61, 1-16	2.3	9
101	A Micromechanical Theory of High Temperature Creep. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1987 , 54, 822-827	2.7	9
100	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

99	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
98	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
97	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
96	Self-consistent relation in polycrystalline plasticity with a non-uniform matrix. <i>International Journal of Solids and Structures</i> , 1984 , 20, 689-698	3.1	8
95	Transition of Plastic Behavior From Single Crystal to Polycrystal Under Pure Tension, and the Effect of Multislip. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 1984 , 106, 311-316	1.8	8
94	Influence of Inclusion Microgeometry on Some Thermomechanical Properties of Isotropic Polymer-Matrix Composites. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 1997 , 119, 242-250	1.8	8
93	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
92	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
91	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
90	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
89	Plasticity of isotropic composites with randomly oriented and packeted inclusions. <i>International Journal of Plasticity</i> , 1994 , 10, 553-578	7.6	7
88	THERMAL STRESS AND VOLUME CHANGE DURING A COOLING PROCESS INVOLVING PHASE TRANSFORMATION. <i>Journal of Thermal Stresses</i> , 1992 , 15, 1-23	2.2	7
87	Determination of transient and steady-state creep of metal-matrix composites by a secant-moduli method. <i>Composites Part B: Engineering</i> , 1993 , 3, 661-674		7
86	Determination of strain concentration by microfluorescent densitometry of X-ray topography: A bridge between microfracture and continuum mechanics. <i>Journal of Applied Crystallography</i> , 1980 , 13, 290-296	3.8	7
85	The stress fields of continuous distribution of dislocations and of their movement in a polycrystalline aggregate. <i>International Journal of Solids and Structures</i> , 1978 , 14, 535-544	3.1	7
84	Theoretical study on self-biased magnetoelectric effect of layered magnetoelectric composites. <i>Mechanics of Materials</i> , 2020 , 151, 103609	3.3	7
83	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
82	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

81	Interface effects on the strength and ductility of bimodal nanostructured metals. <i>Acta Mechanica</i> , 2018 , 229, 3475-3487	2.1	6
80	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
79	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
78	A simple unified theory for the cyclic deformation of metals at high temperature. <i>Acta Mechanica</i> , 1996 , 118, 135-149	2.1	6
77	Progressive debonding of aligned oblate inclusions and loss of stiffness in a brittle matrix composite. <i>Engineering Fracture Mechanics</i> , 1996 , 53, 897-910	4.2	6
76	The influence of fatigue stress on the creep behaviour of metals. <i>Acta Metallurgica</i> , 1983 , 31, 207-212		6
75	The yield surface of single crystals at arbitrary strain. <i>Acta Mechanica</i> , 1980 , 37, 231-245	2.1	6
74	Determination of the strain concentration factors around holes and inclusions in crystals by X-ray topography. <i>Journal of Applied Crystallography</i> , 1982 , 15, 423-429	3.8	6
73	Derivation of Polycrystal Creep Properties From the Creep Data of Single Crystals. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1977 , 44, 73-78	2.7	6
72	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
71	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
70	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
69	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
68	A PIEZOELECTRIC INHOMOGENEITY INTERACTING WITH A BRANCHED CRACK. <i>International Journal of Computational Methods</i> , 2006 , 03, 1-20	1.1	5
67	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
66	Theoretical calculation of the stress-strain behavior of dual-phase metals with randomly oriented spheroidal inclusions. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1996 , 27, 2359-2365	2.3	5
65	A unified determination of creep and strain rate sensitivity of polycrystals from the properties of constituent grains. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1993 , 172, 43-49	5.3	5
64	A local theory for the calculation of overall creep strain of particle-reinforced composites. <i>International Journal of Plasticity</i> , 1990 , 6, 449-469	7.6	5

63	Cyclic stress relaxation of polycrystalline metals at elevated temperature. <i>International Journal of Solids and Structures</i> , 1983 , 19, 541-550	3.1	5
62	Plastic anisotropy of textured steel sheet. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1974 , 5, 2451-2455		5
61	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
60	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
59	Microstructure-Property Relations in the Tensile Behavior of Bimodal Nanostructured Metals. <i>Advanced Engineering Materials</i> , 2020 , 22, 2000097	3.5	4
58	Significantly enhanced crack blunting by nanograin rotation in nanocrystalline materials. <i>Scripta Materialia</i> , 2018 , 151, 19-23	5.6	4
57	The limit velocity and limit displacement of nanotwin-strengthened metals under ballistic impact. <i>Acta Mechanica</i> , 2018 , 229, 1741-1757	2.1	4
56	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
55	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
54	The influence of imperfections on the creep behavior of woven polymer composites at elevated temperatures. <i>Finite Elements in Analysis and Design</i> , 1996 , 23, 333-347	2.2	4
53	Transient creep behavior of a metal matrix composite with a dilute concentration of randomly oriented spheroidal inclusions. <i>Composites Science and Technology</i> , 1992 , 44, 287-297	8.6	4
52	Tensile creep acceleration by superimposed cyclic torsional strain in polycrystalline metals. <i>Materials Science and Engineering</i> , 1983 , 57, 127-133		4
51	Impact of a finite elastic-viscoplastic bar. <i>International Journal of Non-Linear Mechanics</i> , 1980 , 15, 195-202	8	4
50	Constitutive relations of metal crystals at arbitrary strain. <i>Acta Mechanica</i> , 1981 , 41, 217-232	2.1	4
49	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
48	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
47	On EshelbyWS-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
46	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

45	Magnetolectric Coupling and Overall Properties of a Class of Multiferroic Composites 2016 , 189-233		3
44	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
43	Phase Field Approach and Micromechanics in Ferroelectric Crystals 2013 ,		3
42	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
41	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
40	Orthotropic Creep and Complex Moduli of a Viscoelastic Composite Reinforced with Aligned Elliptic Fibers. <i>Journal of Composite Materials</i> , 1996 , 30, 1042-1066	2.7	3
39	Thermal stress relief by plastic deformation in aligned two-phase composites. <i>Composites Part B: Engineering</i> , 1993 , 3, 219-234		3
38	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
37	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
36	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
35	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
34	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
33	Influence of random bridging on the elastic and elastoplastic properties of fiber-reinforced composites. <i>Acta Mechanica</i> , 1996 , 116, 29-44	2.1	2
32	Pressure sensitivity and strength-differential effect of fiber-reinforced polymer matrix composites. <i>Mechanics of Materials</i> , 1994 , 17, 329-349	3.3	2
31	The effect of temperature and solute content on the plastic properties of polycrystalline alloys. <i>Materials Science and Engineering</i> , 1984 , 62, 57-63		2
30	A Micromechanics-Based Hysteresis Model for Ferroelectric Ceramics. <i>Journal of Intelligent Material Systems and Structures</i> , 2001 , 12, 79-91	2.3	2
29	Nonlinear magnetolectric effects of polymer-based hybrid magnetolectric composites with chain-like terfenol-D/epoxy and PVDF multilayers. <i>Composites Science and Technology</i> , 2021 , 216, 109069	8.6	2
28	Micromechanical determination of the viscoplastic behavior of a metal-matrix composite. <i>Studies in Applied Mechanics</i> , 1994 , 213-227		2

27	Surface and interface effects on the bending behavior of nonlinear multilayered magnetoelectric nanostructures. <i>Composite Structures</i> , 2021 , 275, 114485	5.3	2
26	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
25	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
24	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
23	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
22	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
21	creep of a composite with dual viscoplastic phases. <i>Composites Science and Technology</i> , 1998 , 58, 1803-1810		1
20	A micromechanics theory for the transformation toughening of two-phase ceramics. <i>Acta Mechanica</i> , 2002 , 156, 47-62	2.1	1
19	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
18	Theoretical calculation of creep and relaxation of polycrystals, and stress redistribution among constituent grains. <i>Journal of Materials Science</i> , 1987 , 22, 1390-1396	4.3	1
17	On the kinematics of continuous distribution of dislocations in plasticity. <i>International Journal of Engineering Science</i> , 1976 , 14, 65-73	5.7	1
16	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
15	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
14	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
13	Effective electrostrictive coefficients of polycrystalline ceramics. <i>Journal of Materials Science Letters</i> , 2000 , 19, 291-293		0
12	Plastic anisotropy of sheets with continuously varying anisotropic parameters and flow stress. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1996 , 27, 317-326	2.3	0
11	Multiaxial constitutive modeling of aircraft engine materials. <i>Finite Elements in Analysis and Design</i> , 1996 , 23, 319-332	2.2	0
10	Parametric response of a metallic column at elevated temperature. <i>International Journal of Non-Linear Mechanics</i> , 1979 , 14, 123-132	2.8	0

9	Review and perspective on the calculations of mechanical and functional properties of low-dimensional nanocomposites. <i>Journal of Micromechanics and Molecular Physics</i> ,1-21	1.4	○
8	Tuning the strength-ductility synergy of nanograined Cu through nanotwin volume fraction. <i>Computational Materials Science</i> , 2022 , 203, 111073	3.2	○
7	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	○
6	Creep rupture in carbon nanotube-based viscoplastic nanocomposites. <i>International Journal of Plasticity</i> , 2022 , 150, 103189	7.6	○
5	Simulation of ductile fracture of zirconium alloys based on triaxiality dependent cohesive zone model. <i>Acta Mechanica</i> , 2021 , 232, 3723-3736	2.1	○
4	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	○
3	Tuning the AC electric responses of decorated PDA@MWCNT/PVDF nanocomposites. <i>Composites Science and Technology</i> , 2022 , 222, 109398	8.6	○
2	Local Monte Carlo Method for Fatigue Analysis of Coarse-Grained Metals with a Nanograined Surface Layer. <i>Metals</i> , 2018 , 8, 479	2.3	
1	THE INFLUENCE OF PARTICLE CONCENTRATION ON THE HIGH-TEMPERATURE STRESS-STRAIN BEHAVIOR OF METAL-MATRIX COMPOSITES. <i>Journal of the Mechanical Behavior of Materials</i> , 1993 , 4, 353-364	1.9	