

George J Weng

List of Publications by Year in descending order

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269
papers

11,173
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28274

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all docs

271
docs citations

271
times ranked

5410
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of aspect ratio of inclusions on the elastic properties of unidirectionally aligned composites. <i>Polymer Composites</i> , 1984, 5, 327-333.	4.6	591
2	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.	5.0	588
3	A Theory of Particle-Reinforced Plasticity. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1988, 55, 126-135.	2.2	384
4	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.	5.0	331
5	On the application of Mori-Tanaka's theory involving transversely isotropic spheroidal inclusions. <i>International Journal of Engineering Science</i> , 1990, 28, 1121-1137.	5.0	247
6	Average stress in the matrix and effective moduli of randomly oriented composites. <i>Composites Science and Technology</i> , 1986, 27, 111-132.	7.8	239
7	Tunneling resistance and its effect on the electrical conductivity of carbon nanotube nanocomposites. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	230
8	On strain hardening mechanism in gradient nanostructures. <i>International Journal of Plasticity</i> , 2017, 88, 89-107.	8.8	205
9	Elastic moduli for a class of porous materials. <i>Acta Mechanica</i> , 1989, 76, 105-131.	2.1	204
10	The overall elastoplastic stress-strain relations of dual-phase metals. <i>Journal of the Mechanics and Physics of Solids</i> , 1990, 38, 419-441.	4.8	204
11	A theory of plasticity for carbon nanotube reinforced composites. <i>International Journal of Plasticity</i> , 2011, 27, 539-559.	8.8	179
12	A Theory of Plasticity for Porous Materials and Particle-Reinforced Composites. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1992, 59, 261-268.	2.2	167
13	Antiplane Crack Problem in Functionally Graded Piezoelectric Materials. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2002, 69, 481-488.	2.2	156
14	A frequency-dependent theory of electrical conductivity and dielectric permittivity for graphene-polymer nanocomposites. <i>Carbon</i> , 2017, 111, 221-230.	10.3	137
15	The Influence of Inclusion Shape on the Overall Viscoelastic Behavior of Composites. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1992, 59, 510-518.	2.2	136
16	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, .	2.5	133
17	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.	4.8	132
18	Percolation threshold and electrical conductivity of graphene-based nanocomposites with filler agglomeration and interfacial tunneling. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	131

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19	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.	10.3	131
20	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.	3.2	116
21	Stress Distribution in and Around Spheroidal Inclusions and Voids at Finite Concentration. <i>Journal of Applied Mechanics</i> , <i>Transactions ASME</i> , 1986, 53, 511-518.	2.2	114
22	On Eshelby's inclusion problem in a three-phase spherically concentric solid, and a modification of Mori-Tanaka's method. <i>Mechanics of Materials</i> , 1987, 6, 347-361.	3.2	112
23	Explicit evaluation of Willis' bounds with ellipsoidal inclusions. <i>International Journal of Engineering Science</i> , 1992, 30, 83-92.	5.0	111
24	A novel approach to predict the electrical conductivity of multifunctional nanocomposites. <i>Mechanics of Materials</i> , 2012, 46, 129-138.	3.2	110
25	Theory of thermal conductivity of graphene-polymer nanocomposites with interfacial Kapitza resistance and graphene-graphene contact resistance. <i>Carbon</i> , 2018, 137, 222-233.	10.3	110
26	Strain gradient polarization in graphene. <i>Carbon</i> , 2017, 117, 462-472.	10.3	109
27	Elastic Moduli of Thickly Coated Particle and Fiber-Reinforced Composites. <i>Journal of Applied Mechanics</i> , <i>Transactions ASME</i> , 1991, 58, 388-398.	2.2	108
28	Effective Elastic Moduli of Ribbon-Reinforced Composites. <i>Journal of Applied Mechanics</i> , <i>Transactions ASME</i> , 1990, 57, 158-167.	2.2	107
29	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.	3.2	105
30	Martensitic transformation and stress-strain relations of shape-memory alloys. <i>Journal of the Mechanics and Physics of Solids</i> , 1997, 45, 1905-1928.	4.8	103
31	Transversely isotropic moduli of two partially debonded composites. <i>International Journal of Solids and Structures</i> , 1997, 34, 493-507.	2.7	98
32	A theory of compressive yield strength of nano-grained ceramics. <i>International Journal of Plasticity</i> , 2004, 20, 2007-2026.	8.8	96
33	A Progressive Damage Mechanics in Particle-Reinforced Metal-Matrix Composites Under High Triaxial Tension. <i>Journal of Engineering Materials and Technology</i> , <i>Transactions of the ASME</i> , 1994, 116, 414-420.	1.4	95
34	Plasticity of a two-phase composite with partially debonded inclusions. <i>International Journal of Plasticity</i> , 1996, 12, 781-804.	8.8	94
35	On eshelby's in a three-phase cylindrically concentric solid, and the elastic moduli of fiber-reinforced composites. <i>Mechanics of Materials</i> , 1989, 8, 77-88.	3.2	93
36	A self-consistent model for the stress–strain behavior of shape-memory alloy polycrystals. <i>Acta Materialia</i> , 1998, 46, 5423-5433.	7.9	92

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37	A dynamical theory for the Mori-Tanaka and Ponte Castañeda-Willis estimates. <i>Mechanics of Materials</i> , 2010, 42, 886-893.	3.2	92
38	Interface effects on the viscoelastic characteristics of carbon nanotube polymer matrix composites. <i>Mechanics of Materials</i> , 2013, 58, 1-11.	3.2	90
39	Influence of polarization orientation on the effective properties of piezoelectric composites. <i>Journal of Applied Physics</i> , 2000, 88, 416-423.	2.5	88
40	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.	8.8	86
41	A micromechanical theory of grain-size dependence in metal plasticity. <i>Journal of the Mechanics and Physics of Solids</i> , 1983, 31, 193-203.	4.8	82
42	A phase field study of frequency dependence and grain-size effects in nanocrystalline ferroelectric polycrystals. <i>Acta Materialia</i> , 2015, 87, 293-308.	7.9	79
43	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.	2.1	73
44	Percolation threshold and electrical conductivity of a two-phase composite containing randomly oriented ellipsoidal inclusions. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	71
45	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.	2.7	70
46	A secant-viscosity composite model for the strain-rate sensitivity of nanocrystalline materials. <i>International Journal of Plasticity</i> , 2007, 23, 2115-2133.	8.8	69
47	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	68
48	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.	1.4	66
49	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.	2.1	66
50	An Analytical Study of an Experimentally Verified Hardening Law. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1975, 42, 375-378.	2.2	64
51	Self-Consistent Determination of Time-Dependent Behavior of Metals. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1981, 48, 41-46.	2.2	64
52	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.	4.8	64
53	A theory of electrical conductivity, dielectric constant, and electromagnetic interference shielding for lightweight graphene composite foams. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	64
54	A Unified, Self-Consistent Theory for the Plastic-Creep Deformation of Metals. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1982, 49, 728-734.	2.2	60

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55	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.	2.7	60
56	Calculating the Electrical Conductivity of Graphene Nanoplatelet Polymer Composites by a Monte Carlo Method. <i>Nanomaterials</i> , 2020, 10, 1129.	4.1	57
57	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.	8.8	55
58	Influence of microstructural features on the effective magnetostriction of composite materials. <i>Physical Review B</i> , 1999, 60, 6723-6730.	3.2	55
59	Influence of thermal residual stresses on the composite macroscopic behavior. <i>Mechanics of Materials</i> , 1998, 27, 229-240.	3.2	52
60	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	52
61	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.	10.3	51
62	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.	4.8	50
63	Effect of carbon nanotube geometry upon tunneling assisted electrical network in nanocomposites. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	49
64	Electrical Conductivity of Carbon Nanotube- and Graphene-Based Nanocomposites. , 2018, , 123-156.		47
65	Dynamic stress intensity factor of a cylindrical interface crack with a functionally graded interlayer. <i>Mechanics of Materials</i> , 2001, 33, 325-333.	3.2	46
66	A phase-field study on the hysteresis behaviors and domain patterns of nanocrystalline ferroelectric polycrystals. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	46
67	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.	5.6	45
68	Kinematic hardening rule in single crystals. <i>International Journal of Solids and Structures</i> , 1979, 15, 861-870.	2.7	44
69	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.	2.2	44
70	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	44
71	The competition of grain size and porosity in the viscoplastic response of nanocrystalline solids. <i>International Journal of Plasticity</i> , 2008, 24, 1380-1410.	8.8	44
72	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.	12.0	43

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73	Anisotropic hardening in single crystals and the plasticity of polycrystals. <i>International Journal of Plasticity</i> , 1987, 3, 315-339.	8.8	41
74	A theory of ferroelectric hysteresis with a superimposed stress. <i>Journal of Applied Physics</i> , 2002, 91, 3806-3815.	2.5	41
75	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.	4.8	41
76	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.	2.2	40
77	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.	4.8	40
78	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.	7.9	40
79	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	39
80	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.	7.0	38
81	An X-band theory of electromagnetic interference shielding for graphene-polymer nanocomposites. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	36
82	A unified theory of plasticity, progressive damage and failure in graphene-metal nanocomposites. <i>International Journal of Plasticity</i> , 2017, 99, 58-80.	8.8	34
83	Dynamic stress intensity factor of a functionally graded material under antiplane shear loading. <i>Acta Mechanica</i> , 2001, 149, 1-10.	2.1	33
84	Dislocation theories of work hardening and yield surfaces of single crystals. <i>Acta Mechanica</i> , 1980, 37, 217-230.	2.1	32
85	A unified approach from elasticity to viscoelasticity to viscoplasticity of particle-reinforced solids. <i>International Journal of Plasticity</i> , 1998, 14, 193-208.	8.8	32
86	A micromechanics-based thermodynamic model for the domain switch in ferroelectric crystals. <i>Acta Materialia</i> , 2004, 52, 2489-2496.	7.9	32
87	Simulation of ballistic performance of a two-layered structure of nanostructured metal and ceramic. <i>Composite Structures</i> , 2016, 157, 163-173.	5.8	32
88	A two-level micromechanical theory for a shape-memory alloy reinforced composite. <i>International Journal of Plasticity</i> , 2000, 16, 1289-1307.	8.8	31
89	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	31
90	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.	4.2	30

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91	A direct method for the crystallography of martensitic transformation and its application to TiNi and AuCd. <i>Acta Materialia</i> , 2002, 50, 2967-2987.	7.9	30
92	Piezoelectric composites with periodic multi-coated inhomogeneities. <i>International Journal of Solids and Structures</i> , 2010, 47, 2893-2904.	2.7	30
93	Elastic moduli of heterogeneous solids with ellipsoidal inclusions and elliptic cracks. <i>Acta Mechanica</i> , 1995, 110, 73-94.	2.1	29
94	Interfacial partial debonding and its influence on the elasticity of a two-phase composite. <i>Mechanics of Materials</i> , 2000, 32, 695-709.	3.2	29
95	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.	5.0	29
96	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	29
97	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.	2.2	28
98	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.	10.3	28
99	Constitutive equations of single crystals and polycrystalline aggregates under cyclic loading. <i>International Journal of Engineering Science</i> , 1980, 18, 1385-1397.	5.0	27
100	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.	5.6	27
101	A Self-Consistent Scheme for the Relaxation Behavior of Metals. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1981, 48, 779-784.	2.2	26
102	A self-consistent relation for the time-dependent creep of polycrystals. <i>International Journal of Plasticity</i> , 1993, 9, 181-198.	8.8	26
103	Mechanics of creep resistance in nanocrystalline solids. <i>Acta Mechanica</i> , 2008, 195, 327-348.	2.1	26
104	Ductility enhancement of layered stainless steel with nanograined interface layers. <i>Computational Materials Science</i> , 2012, 55, 350-355.	3.0	26
105	Intrinsic versus extrinsic effects of the grain boundary on the properties of ferroelectric nanoceramics. <i>Physical Review B</i> , 2017, 95, .	3.2	26
106	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.	1.4	25
107	A theory of double hysteresis for ferroelectric crystals. <i>Journal of Applied Physics</i> , 2006, 99, 054103.	2.5	25
108	Elastic constants of a polycrystal with transversely isotropic grains, and the influence of precipitates. <i>Mechanics of Materials</i> , 1991, 12, 1-15.	3.2	24

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109	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.	2.4	24
110	Magnetolectric coupling and overall properties of multiferroic composites with 0-0 and 1-1 connectivity. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	24
111	Molecular dynamics and atomistic based continuum studies of the interfacial behavior of nanoreinforced epoxy. <i>Mechanics of Materials</i> , 2015, 85, 38-46.	3.2	24
112	An investigation of yield surfaces based on dislocation mechanics. <i>International Journal of Engineering Science</i> , 1977, 15, 45-59.	5.0	23
113	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.	2.0	23
114	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.	5.0	23
115	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.	5.0	23
116	Theoretical approach to effective electrostriction in inhomogeneous materials. <i>Physical Review B</i> , 2000, 61, 258-265.	3.2	22
117	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	22
118	Effective bulk moduli of two functionally graded composites. <i>Acta Mechanica</i> , 2003, 166, 57-67.	2.1	22
119	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.	2.2	22
120	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.	2.1	22
121	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.	5.6	22
122	Title is missing!. <i>Journal of Elasticity</i> , 1998, 53, 1-22.	1.9	21
123	A polycrystal hysteresis model for ferroelectric ceramics. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2006, 462, 1573-1592.	2.1	21
124	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.	2.0	21
125	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.	5.6	20
126	Theoretical study on self-biased magnetolectric effect of layered magnetolectric composites. <i>Mechanics of Materials</i> , 2020, 151, 103609.	3.2	20

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127	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.	8.8	20
128	Creep Deformation of Particle-Strengthened Metal-Matrix Composites. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 1989, 111, 99-105.	1.4	19
129	Micromechanics simulation of spontaneous polarization in ferroelectric crystals. <i>Journal of Applied Physics</i> , 2001, 90, 2484-2491.	2.5	19
130	Changes in the board of editors. <i>Acta Mechanica</i> , 2018, 229, 1-1.	2.1	19
131	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.	5.0	19
132	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.	1.4	18
133	The saturation state of strength and ductility of bimodal nanostructured metals. <i>Materials Letters</i> , 2016, 175, 131-134.	2.6	18
134	Creep anisotropy of a metal-matrix composite containing dilute concentration of aligned spheroidal inclusions. <i>Mechanics of Materials</i> , 1990, 9, 93-105.	3.2	17
135	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.	0.6	17
136	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.	3.0	17
137	Elastic moduli of randomly oriented, chopped-fibre composites with filled resin. <i>Journal of Materials Science</i> , 1979, 14, 2183-2190.	3.7	16
138	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.	4.5	16
139	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.	1.4	16
140	Modulus prediction of a cross-ply fiber reinforced fabric composite with voids. <i>Polymer Composites</i> , 1992, 13, 285-294.	4.6	16
141	An experimental and theoretical study of creep of a graphite/epoxy woven composite. <i>Polymer Composites</i> , 1996, 17, 353-361.	4.6	16
142	Mechanics of a nanocrystalline coating and grain-size dependence of its plastic strength. <i>Mechanics of Materials</i> , 2011, 43, 496-504.	3.2	16
143	A Physically Consistent Method for the Prediction of Creep Behavior of Metals. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1979, 46, 800-804.	2.2	15
144	Effective creep behavior and complex moduli of fiber- and ribbon-reinforced polymer-matrix composites. <i>Composites Science and Technology</i> , 1994, 52, 615-629.	7.8	15

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145	A theory of frequency dependence and sustained high dielectric constant in functionalized graphene-polymer nanocomposites. <i>Mechanics of Materials</i> , 2020, 144, 103352.	3.2	15
146	An investigation of yield surfaces based on dislocation mechanics—II. <i>International Journal of Engineering Science</i> , 1977, 15, 61-70.	5.0	14
147	Micromechanics of time-dependent deformation in a dispersion-hardened polycrystal. <i>Acta Mechanica</i> , 1987, 69, 295-313.	2.1	14
148	A homogenization theory for the overall creep of isotropic viscoplastic composites. <i>Acta Mechanica</i> , 1997, 125, 141-153.	2.1	14
149	Overall Elastic and Elastoplastic Behavior of a Partially Debonded Fiber-reinforced Composite. <i>Journal of Composite Materials</i> , 2003, 37, 741-758.	2.4	14
150	Micromechanical determination of two-phase plasticity. <i>International Journal of Plasticity</i> , 1985, 1, 275-287.	8.8	13
151	Time-dependent creep of a dual-phase viscoplastic material with lamellar structure. <i>International Journal of Plasticity</i> , 1998, 14, 755-770.	8.8	13
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	13
153	Plasticity of Particle-Reinforced Composites With a Ductile Interphase. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1998, 65, 596-604.	2.2	12
154	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.	6.6	12
155	Micromechanics study of thermomechanical characteristics of polycrystal shape-memory alloy films. <i>Thin Solid Films</i> , 2000, 376, 198-207.	1.8	12
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