

The effect of aspect ratio of inclusions on the elastic properties of aligned composites

Polymer Composites

5, 327-333

DOI: [10.1002/pc.750050413](https://doi.org/10.1002/pc.750050413)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Engineering properties of polymer-clay nanocomposites theory and theory validation. , 2011, , 49-67.		1
2	Stress Distribution in and Around Spheroidal Inclusions and Voids at Finite Concentration. Journal of Applied Mechanics, Transactions ASME, 1986, 53, 511-518.	1.1	114
3	Ultrasonic evaluation of filled polymers II. Elastic moduli of a resin filled with iron inclusions of different aspect ratios. Polymer Composites, 1987, 8, 22-28.	2.3	4
4	Effective thermoelastic properties of short-fiber composites. Acta Mechanica, 1987, 66, 191-204.	1.1	9
5	A predictive model for the mechanical behavior of particulate composites. Polymer Engineering and Science, 1988, 28, 522-528.	1.5	38
6	Elastic moduli for a class of porous materials. Acta Mechanica, 1989, 76, 105-131.	1.1	204
7	On eshelby's in a three-phase cylindrically concentric solid, and the elastic moduli of fiber-reinforced composites. Mechanics of Materials, 1989, 8, 77-88.	1.7	93
8	On the application of Mori-Tanaka's theory involving transversely isotropic spheroidal inclusions. International Journal of Engineering Science, 1990, 28, 1121-1137.	2.7	247
9	Creep anisotropy of a metal-matrix composite containing dilute concentration of aligned spheroidal inclusions. Mechanics of Materials, 1990, 9, 93-105.	1.7	17
10	THEORETICAL CONSIDERATIONS O TOUGHNESS OF SHORT-FIBR-REINFORCD THRMOPLASTICS. Polymer-Plastics Technology and Engineering, 1990, 29, 607-806.	1.9	40
11	Elastic constants of a polycrystal with transversely isotropic grains, and the influence of precipitates. Mechanics of Materials, 1991, 12, 1-15.	1.7	24
12	Effect of inclusion shape on stiffness of isotropic and transversely isotropic two-phase composites. International Journal of Solids and Structures, 1991, 28, 975-1001.	1.3	12
13	Toughness of Flake-Reinforced Polypropylene. Journal of Thermoplastic Composite Materials, 1991, 4, 46-57.	2.6	4
14	The Micromechanical Method of Cells. Studies in Applied Mechanics, 1991, 29, 35-111.	0.4	0
15	The Influence of Inclusion Shape on the Overall Viscoelastic Behavior of Composites. Journal of Applied Mechanics, Transactions ASME, 1992, 59, 510-518.	1.1	136
16	Effects of Superposed Hydrostatic Stress on the Elastoplastic Behavior of Two-Phase Composites. Journal of Composite Materials, 1992, 26, 1945-1967.	1.2	4
17	Modulus prediction of a cross-ply fiber reinforced fabric composite with voids. Polymer Composites, 1992, 13, 285-294.	2.3	16
18	Elastic anisotropy of short-fibre reinforced composites. International Journal of Solids and Structures, 1992, 29, 2933-2944.	1.3	35

#	ARTICLE	IF	CITATIONS
19	Explicit evaluation of Willis' bounds with ellipsoidal inclusions. <i>International Journal of Engineering Science</i> , 1992, 30, 83-92.	2.7	111
20	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.	4.1	55
21	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
22	Stress Distribution and Effective Longitudinal Young's Modulus of Unidirectional Discontinuous Fibre Composites. <i>Journal of Composite Materials</i> , 1993, 27, 1391-1425.	1.2	14
23	Controlling the mechanical performance of composites. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1993, 70-71, 225-234.	0.6	0
24	Plasticity of isotropic composites with randomly oriented and packeted inclusions. <i>International Journal of Plasticity</i> , 1994, 10, 553-578.	4.1	9
25	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
26	Formulas for the stiffness of composites with periodic microstructure. <i>International Journal of Solids and Structures</i> , 1994, 31, 2933-2944.	1.3	162
27	The effects of reinforcement additions and heat treatment on the evolution of the poisson ratio during straining of discontinuously reinforced aluminum alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1995, 26, 2911-2921.	1.1	18
28	Elastic moduli of heterogeneous solids with ellipsoidal inclusions and elliptic cracks. <i>Acta Mechanica</i> , 1995, 110, 73-94.	1.1	29
29	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.	1.1	40
30	Transient creep of a composite lower crust: 1. Constitutive theory. <i>Journal of Geophysical Research</i> , 1996, 101, 27981-28004.	3.3	36
31	Influence of random bridging on the elastic and elastoplastic properties of fiber-reinforced composites. <i>Acta Mechanica</i> , 1996, 116, 29-44.	1.1	3
32	Plasticity of a two-phase composite with partially debonded inclusions. <i>International Journal of Plasticity</i> , 1996, 12, 781-804.	4.1	94
33	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.	1.7	5
34	Self-Consistent Method to Calculate Fiber Interactions in a SiC/Al ₂ O ₃ Ceramic Composite. <i>Journal of the American Ceramic Society</i> , 1996, 79, 1466-1472.	1.9	4
35	Constraints from seismic anisotropy on the nature of the lowermost mantle. <i>Nature</i> , 1996, 381, 409-412.	13.7	272
36	Materials property modelling and design of short fibre composites. , 1997, , 293-323.		3

#	ARTICLE	IF	CITATIONS
37	Sensitivity of teleseismic body waves to mineral texture and melt in the mantle beneath a mid-ocean ridge. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1997, 355, 217-231.	1.6	91
38	Functionally graded metals and metal-ceramic composites: Part 2 Thermomechanical behaviour. <i>International Materials Reviews</i> , 1997, 42, 85-116.	9.4	258
39	Evaluation of elastic strain energy of spheroidal inclusions with uniform volumetric and shear eigenstrains. <i>Scripta Materialia</i> , 1997, 36, 1053-1059.	2.6	19
40	Some direction-dependent properties of matrix-inclusion type composites with given reinforcement orientation distributions. <i>Composites Part B: Engineering</i> , 1997, 28, 253-265.	5.9	53
41	A parallel-supercomputing investigation of the stiffness of aligned, short-fiber-reinforced composites using the Boundary Element Method. <i>International Journal for Numerical Methods in Engineering</i> , 1997, 40, 3477-3491.	1.5	37
42	Creep damage modeling based on ultrasonic velocities in copper. <i>International Journal of Solids and Structures</i> , 1997, 34, 1169-1182.	1.3	24
43	An interface model for the prediction of Young's modulus of layered silicate-elastomer nanocomposites. <i>Polymer Composites</i> , 1998, 19, 608-617.	2.3	179
44	Simple formulae for the effective moduli of unidirectional aligned composites. <i>Polymer Engineering and Science</i> , 1998, 38, 774-782.	1.5	122
45	Investigating causes of $D\epsilon^3$ anisotropy. <i>Geodynamic Series</i> , 1998, , 97-118.	0.1	87
46	Effects of Shapes and the Poisson Ratios of Constituent Phases on the Average Young Moduli of Composite Materials. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1999, 63, 1283-1289.	0.2	1
47	Sensitivity of teleseismic body waves to mineral texture and melt in the mantle beneath a mid-ocean ridge. , 1999, , 1-16.		0
48	Computer Assisted Stereology Of Short Fibre Composites, I: Determination Of Fibre Length Distribution. <i>Science and Engineering of Composite Materials</i> , 1999, 8, .	0.6	3
49	Modelling of elastic constants of plasma spray deposits with ellipsoid-shaped voids. <i>Acta Materialia</i> , 1999, 47, 1575-1586.	3.8	65
50	Thermoviscoelastic simulation of thermally and pressure-induced stresses in injection moulding for the prediction of shrinkage and warpage for fibre-reinforced thermoplastics. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 1999, 84, 159-190.	1.0	75
51	Elastic property estimates of a unidirectional discontinuous fibre composite. <i>Composites Science and Technology</i> , 1999, 59, 113-122.	3.8	3
52	Stiffness predictions for unidirectional short-fiber composites: Review and evaluation. <i>Composites Science and Technology</i> , 1999, 59, 655-671.	3.8	597
53	Thermoelastic properties of short-fibre-reinforced thermoplastics. <i>Composites Science and Technology</i> , 1999, 59, 911-923.	3.8	45
54	Anisotropy of heterogeneity scale lengths in the lower mantle from PKIKP precursors. <i>Geophysical Journal International</i> , 1999, 136, 373-384.	1.0	50

#	ARTICLE	IF	CITATIONS
55	An Overall Approach for Microcrack and Inhomogeneity Toughening in Brittle Solids. <i>Journal of Mechanics</i> , 1999, 15, 57-68.	0.7	1
56	Seismic anisotropy in the boundary layers of the mantle. <i>Geophysical Monograph Series</i> , 2000, , 133-159.	0.1	61
57	Effect of Poisson's ratio on the variation of the average Young's moduli of composites with transitions of second-phase shape. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2000, 80, 1183-1192.	0.8	1
58	Glass fibre orientation within injection moulded automotive pedal: Simulation and experimental studies. <i>Plastics, Rubber and Composites</i> , 2000, 29, 38-45.	0.9	16
59	On predicting elastic moduli and natural frequencies of multi-phase composites with randomly distributed short fibers. <i>Polymer Composites</i> , 2000, 21, 20-27.	2.3	3
60	Young's modulus of unidirectional discontinuous-fibre composites. <i>Composites Science and Technology</i> , 2000, 60, 2671-2680.	3.8	62
61	Fiber packing and elastic properties of a transversely random unidirectional glass/epoxy composite. <i>Composites Science and Technology</i> , 2000, 60, 535-541.	3.8	174
62	Effective elastic moduli of two-phase transversely isotropic composites with aligned clustered fibers. <i>Acta Mechanica</i> , 2000, 145, 65-93.	1.1	15
63	Axial loading of a chiral sculptured thin film. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2000, 8, 677-686.	0.8	7
64	Lowermost mantle anisotropy beneath the Pacific: Imaging the source of the Hawaiian plume. <i>Earth and Planetary Science Letters</i> , 2001, 190, 167-180.	1.8	64
65	Dynamic mechanical behavior of filled polymers. I. Theoretical developments. <i>Journal of Applied Physics</i> , 2001, 90, 5522-5534.	1.1	28
66	Effective elastic moduli of polymer-layered silicate nanocomposites. <i>Science Bulletin</i> , 2001, 46, 1130-1133.	1.7	10
67	An effective inclusion model for effective moduli of heterogeneous materials with ellipsoidal inhomogeneities. <i>International Journal of Solids and Structures</i> , 2001, 38, 5789-5805.	1.3	44
68	Dynamic mechanical behavior of filled polymers. II. Applications. <i>Journal of Applied Physics</i> , 2001, 90, 5535-5541.	1.1	12
69	Microscopic Model for Elastostatic and Elastodynamic Excitation of Chiral Sculptured Thin Films. <i>Journal of Composite Materials</i> , 2002, 36, 1277-1298.	1.2	19
70	Effective elastic moduli and interface effects of nanocrystal-line materials. <i>Science Bulletin</i> , 2002, 47, 1493.	1.7	5
71	Multi-inclusion unit cell models for metal matrix composites with randomly oriented discontinuous reinforcements. <i>Computational Materials Science</i> , 2002, 25, 42-53.	1.4	196
72	Stiffness and Thermal Expansion of Short Fiber Composites with Fully Aligned Fibers. <i>Advanced Engineering Materials</i> , 2002, 4, 927-931.	1.6	34

#	ARTICLE	IF	CITATIONS
73	Effects of two damage mechanisms on effective elastic properties of particulate composites. Composites Science and Technology, 2002, 62, 1397-1406.	3.8	14
74	Numerical simulation of the effects of volume fraction, aspect ratio and fibre length distribution on the elastic and thermoelastic properties of short fibre composites. Composites Science and Technology, 2002, 62, 1445-1453.	3.8	159
75	Direct numerical predictions for the elastic and thermoelastic properties of short fibre composites. Composites Science and Technology, 2002, 62, 1927-1934.	3.8	100
76	Mechanical properties of clay-reinforced polyamide. Journal of Polymer Science, Part B: Polymer Physics, 2002, 40, 272-283.	2.4	198
77	Processing and characterization of epoxy/clay nanocomposites. Experimental Mechanics, 2003, 43, 348-354.	1.1	40
78	Characterization and modeling of mechanical behavior of polymer/clay nanocomposites. Composites Science and Technology, 2003, 63, 1607-1616.	3.8	526
79	Modeling properties of nylon 6/clay nanocomposites using composite theories. Polymer, 2003, 44, 4993-5013.	1.8	900
80	Simplified Model for the Influence of Inclusion Aspect Ratio on the Stiffness of Aligned Reinforced Composites. Journal of Reinforced Plastics and Composites, 2003, 22, 301-325.	1.6	6
81	Formation and properties of nylon 6 nanocomposites. Polimeros, 2003, 13, 212-217.	0.2	28
82	Viscoelastic Properties of Foamed Thermoplastic Vulcanizates and their Dependence on Void Fraction. Frontiers in Forests and Global Change, 2003, 22, 137-156.	0.6	11
83	3D Fiber Orientation Simulation for Plastic Injection Molding. AIP Conference Proceedings, 2004, , .	0.3	3
84	A Short Introduction to Continuum Micromechanics. , 2004, , 1-40.		24
85	Fibre orientation structures and their effect on crack resistance of injection moulded transverse ribbed plate. Plastics, Rubber and Composites, 2004, 33, 43-53.	0.9	5
87	Insights into rifting from shear wave splitting and receiver functions: an example from Ethiopia. Geophysical Journal International, 2004, 157, 354-362.	1.0	69
88	Effect of sodium montmorillonite source on nylon 6/clay nanocomposites. Polymer, 2004, 45, 2321-2331.	1.8	106
89	Prediction of the overall moduli of layered silicate-reinforced nanocompositesâ€”part I: basic theory and formulas. Composites Science and Technology, 2004, 64, 925-934.	3.8	126
90	Fiber orientation structures and mechanical properties of injection molded short glass fiber reinforced ribbed plates. Polymer Composites, 2004, 25, 237-254.	2.3	28
91	Coupling of flow simulation and structural analysis for glass-filled thermoplastics. Polymer Composites, 2004, 25, 343-354.	2.3	16

#	ARTICLE	IF	CITATIONS
92	Continuum Models for the Thermomechanical Behavior of Discontinuously Reinforced Materials. <i>Advanced Engineering Materials</i> , 2004, 6, 626-633.	1.6	6
93	Multiscale micromechanical modeling of polymer/clay nanocomposites and the effective clay particle. <i>Polymer</i> , 2004, 45, 487-506.	1.8	647
94	Some comments on the effects of lower-mantle anisotropy on SKS and SKKS phases. <i>Physics of the Earth and Planetary Interiors</i> , 2004, 146, 469-481.	0.7	49
95	Estimation of Mechanical Properties by Vibration Characteristics of Short-Fiber Composite Material. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2004, 70, 573-579.	0.2	0
96	Correlating the rheological and mechanical response of polyurethane nanocomposites containing hyperbranched polymers. <i>Polymer</i> , 2005, 46, 6543-6553.	1.8	51
97	Effects of clay orientation and aspect ratio on mechanical behavior of nylon-6 nanocomposite. <i>Polymer</i> , 2005, 46, 6325-6334.	1.8	205
98	The Mori-Tanaka method for composite materials with nonlinear interface debonding. <i>International Journal of Plasticity</i> , 2005, 21, 1890-1918.	4.1	179
99	Multi-scale mechanics of nanocomposites including interface: Experimental and numerical investigation. <i>Composites Science and Technology</i> , 2005, 65, 2435-2465.	3.8	103
100	A model for composites containing three-dimensional ellipsoidal inclusions. <i>Polymer</i> , 2005, 46, 9064-9080.	1.8	42
101	Production of Thermoplastic Towpregs and Towpreg-Based Composites. , 2005, , 189-213.		3
102	Structural and mechanical characterization of nanoclay-reinforced agarose nanocomposites. <i>Nanotechnology</i> , 2005, 16, 2020-2029.	1.3	81
103	A theoretical and experimental study of new towpreg-based long fibre thermoplastic composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2005, 36, 25-32.	3.8	11
104	Analysis of fibre orientation effects on injection moulded components. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2006, 220, 1909-1921.	1.5	5
105	Modeling Young's Modulus of Polymer-layered Silicate Nanocomposites Using a Modified Halpin-Tsai Micromechanical Model. <i>Journal of Reinforced Plastics and Composites</i> , 2006, 25, 847-861.	1.6	81
106	Mantle upwellings, melt migration and the rifting of Africa: insights from seismic anisotropy. <i>Geological Society Special Publication</i> , 2006, 259, 55-72.	0.8	72
107	Nominal and Effective Volume Fractions in Polymer-Clay Nanocomposites. <i>Macromolecules</i> , 2006, 39, 1790-1796.	2.2	59
108	Characterisation of random carbon fibre composites from a directed fibre preforming process: The effect of fibre length. <i>Composites Part A: Applied Science and Manufacturing</i> , 2006, 37, 1863-1878.	3.8	49
109	Modelling the elastic and thermoelastic properties of short fibre composites with anisotropic phases. <i>Composites Science and Technology</i> , 2006, 66, 69-79.	3.8	19

#	ARTICLE	IF	CITATIONS
110	Elastic properties of nanocomposite structure of bone. Composites Science and Technology, 2006, 66, 1212-1218.	3.8	102
111	A continuum damage model for fiber reinforced laminates based on ply failure mechanisms. Composite Structures, 2006, 76, 162-173.	3.1	51
112	Structural and mechanical properties of polymer nanocomposites. Materials Science and Engineering Reports, 2006, 53, 73-197.	14.8	1,234
113	Properties and morphology of nanocomposites based on styrenic polymers. Part I: Styrene-acrylonitrile copolymers. Polymer, 2006, 47, 8123-8136.	1.8	32
114	Mechanical Properties of Individual Nanotubes and Composites. , 2006, , 439-493.		9
115	The mechanical properties and fracture behaviour of epoxy-inorganic micro- and nano-composites. Journal of Materials Science, 2006, 41, 3271-3297.	1.7	152
116	New solution method for homogenization analysis and its application to the prediction of macroscopic elastic constants of materials with periodic microstructures. Computers and Structures, 2006, 84, 991-1001.	2.4	26
117	A new model to predict effective elastic constants of composites with spherical fillers. Journal of Mechanical Science and Technology, 2006, 20, 1891-1897.	0.7	3
118	Mechanical Design of Injection Moulded Parts made of Short-Fibre Reinforced Thermoplastics by Means of Integrative Simulation. Journal of Polymer Engineering, 2006, 26, .	0.6	4
119	Seismic anisotropy as an indicator of reservoir quality in siliciclastic rocks. Geological Society Special Publication, 2007, 292, 123-136.	0.8	25
120	Improved seismic identification of inter-fault damage via a linked geomechanics-seismic approach. Geological Society Special Publication, 2007, 289, 187-207.	0.8	7
121	Networks of ultra-fine Ag nanocrystals in a Teflon AF [®] matrix by vapour phase e-beam-assisted deposition. Nanotechnology, 2007, 18, 305602.	1.3	17
122	Basic modifications in 3D micromechanical modeling of short fiber composites with bonded and debonded fiber end. Computational Materials Science, 2007, 40, 421-433.	1.4	19
123	Thermal expansion behavior of composites based on axisymmetric ellipsoidal particles. Polymer, 2007, 48, 4174-4183.	1.8	32
124	Seismic anisotropy of post-perovskite and the lowermost mantle. Geophysical Monograph Series, 2007, , 171-189.	0.1	26
125	Mechanical Properties of Particle Filled Polymers. , 2007, , 107-108.		0
126	E-beam-cured layered-silicate and spherical silica epoxy nanocomposites. Journal of Applied Polymer Science, 2007, 106, 2132-2139.	1.3	10
127	Rapid Exponential Convergence of Finite Element Estimates of the Effective Properties of Heterogeneous Materials. Advanced Engineering Materials, 2007, 9, 1009-1013.	1.6	0

#	ARTICLE	IF	CITATIONS
128	Reinforcement of Nylon-6 Filaments with SiO ₂ Nanoparticles and Comparison of Young's Modulus with Theoretical Bounds. <i>Macromolecular Materials and Engineering</i> , 2007, 292, 437-444.	1.7	23
129	Anisotropic abrasive wear behaviour of bamboo (<i>Dentrocalamus strictus</i>). <i>Wear</i> , 2007, 262, 1031-1037.	1.5	43
130	Micromechanical modeling of stress transfer in carbon nanotube reinforced polymer composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 457, 44-57.	2.6	40
131	Modelling stiffness of polymer/clay nanocomposites. <i>Polymer</i> , 2007, 48, 901-909.	1.8	157
132	High stress abrasive wear study on bamboo. <i>Journal of Materials Processing Technology</i> , 2007, 183, 155-159.	3.1	31
133	Flexural and tensile moduli of polypropylene nanocomposites and comparison of experimental data to Halpin-Tsai and Tandon-Weng models. <i>Polymer Engineering and Science</i> , 2007, 47, 1796-1803.	1.5	123
134	How Nano Are Nanocomposites?. <i>Macromolecules</i> , 2007, 40, 8501-8517.	2.2	696
135	Epoxy composites with 200Ånm thick alumina platelets as reinforcements. <i>Journal of Materials Science</i> , 2007, 42, 5964-5972.	1.7	34
136	A study on validity of using average fiber aspect ratio for mechanical properties of aligned short fiber composites with different fiber aspect ratios. <i>Archive of Applied Mechanics</i> , 2007, 78, 1-9.	1.2	5
137	Constitutive ply damage modeling, FEM implementation, and analyses of laminated structures. <i>Computers and Structures</i> , 2008, 86, 908-918.	2.4	22
138	Modeling of nanoplastic by asymptotic homogenization method. <i>Central South University</i> , 2008, 15, 573-576.	0.5	1
139	Fiber Reinforced Laminates: Progressive Damage Modeling Based on Failure Mechanisms. <i>Archives of Computational Methods in Engineering</i> , 2008, 15, 163-184.	6.0	33
140	Prediction of elastic properties for curved fiber polymer composites. <i>Polymer Composites</i> , 2008, 29, 544-550.	2.3	17
141	Thermal expansion behavior of composites based on non-axisymmetric ellipsoidal particles. <i>Polymer</i> , 2008, 49, 2146-2152.	1.8	10
142	A micro-macromechanical approach for composite laminates. <i>Mechanics of Materials</i> , 2008, 40, 885-906.	1.7	23
143	Multiscale modeling and simulation of polymer nanocomposites. <i>Progress in Polymer Science</i> , 2008, 33, 191-269.	11.8	562
144	Reinforcing efficiency of nanoparticles: A simple comparison for polymer nanocomposites. <i>Composites Science and Technology</i> , 2008, 68, 1502-1512.	3.8	202
145	Application of micromechanical models for elasticity and failure to short fibre reinforced composites. Numerical implementation and experimental validation. <i>Computers and Structures</i> , 2008, 86, 977-987.	2.4	43

#	ARTICLE	IF	CITATIONS
146	Morphology and Properties of Polyester/Exfoliated Graphite Nanocomposites. <i>Macromolecules</i> , 2008, 41, 3317-3327.	2.2	395
147	Analysis of 3D random chopped fiber reinforced composites using FEM and random sequential adsorption. <i>Computational Materials Science</i> , 2008, 43, 450-461.	1.4	113
148	A Particle Size-Shape-Dependent Three-Phase Two-Step Mori-Tanaka Method for Studying the Interphase of Polymer/Clay Nanocomposites. , 2008, , .		3
149	A Non-Local Visco-Plastic Model With Strain Laplacian Effects and Interphase Effects for Simulating the Stiffness and Yield Strength of a Class of Polymer Nanocomposites. , 2008, , .		3
150	Fiber Length and Orientation in Long-Fiber Injection-Molded Thermoplastics – Part I: Modeling of Microstructure and Elastic Properties. <i>Journal of Composite Materials</i> , 2008, 42, 1003-1029.	1.2	80
151	Micromechanical modelling of wood-polymer composites. , 2008, , 118-141.		0
152	Evaluation of Methods for Stiffness Predictions of Polymer/Clay Nanocomposites. <i>Journal of Reinforced Plastics and Composites</i> , 2009, 28, 1625-1649.	1.6	14
154	Elastic modulus of short fibre reinforced polymers. , 2009, , 119-163.		1
155	Elastic field in 3D due to a spheroidal inclusion – MATLAB code for Eshelby's solution. <i>Computers and Geosciences</i> , 2009, 35, 2170-2173.	2.0	24
156	Experimental characterization and modeling stiffness of polymer/clay nanocomposites within a hierarchical multiscale framework. <i>Journal of Applied Polymer Science</i> , 2009, 114, 3274-3291.	1.3	50
157	Effective method for dispersing SiO ₂ nanoparticles into polyethylene. <i>Journal of Applied Polymer Science</i> , 2010, 116, 1218-1225.	1.3	6
158	Coupling of a structural analysis and flow simulation for short-fiber-reinforced polymers: property prediction and transfer of results. <i>Mechanics of Composite Materials</i> , 2009, 45, 249-256.	0.9	9
159	Anisotropy of elasticity of a composite with irregularly oriented anisometric filler particles. <i>Mechanics of Composite Materials</i> , 2009, 45, 345-358.	0.9	17
160	Mechanical and thermal behavior of polyamide-6/clay nanocomposite using continuum-based micromechanical modeling. <i>Macromolecular Research</i> , 2009, 17, 797-806.	1.0	23
161	Processing-property relationships of polycarbonate/graphene composites. <i>Polymer</i> , 2009, 50, 3797-3809.	1.8	610
162	A parametric study on probabilistic fracture of functionally graded composites by a concurrent multiscale method. <i>Probabilistic Engineering Mechanics</i> , 2009, 24, 438-451.	1.3	16
163	Modeling fibre orientation in short fibre suspensions using the neural network-based orthotropic closure. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009, 40, 1524-1533.	3.8	24
164	Modelling seismic anisotropy variations across the Hikurangi subduction margin, New Zealand. <i>Earth and Planetary Science Letters</i> , 2009, 285, 16-26.	1.8	25

#	ARTICLE	IF	CITATIONS
165	Damage development in short-fiber reinforced injection molded composites. Computational Materials Science, 2009, 45, 698-708.	1.4	11
166	Generalized Self-Consistent Model for Predicting Thermal Conductivity of Composites with Aligned Short Fibers. Materials Transactions, 2010, 51, 2039-2044.	0.4	10
167	Prediction of the Mechanical Properties of Nanocomposites. , 0, , 301-331.		5
168	Graphene/Polymer Nanocomposites. Macromolecules, 2010, 43, 6515-6530.	2.2	2,979
169	Sensitivity analysis and parametric study of elastic properties of an unidirectional mineralized bone fibril-array using mean field methods. Biomechanics and Modeling in Mechanobiology, 2010, 9, 499-510.	1.4	50
170	Multiscale modeling of elastic properties of cortical bone. Acta Mechanica, 2010, 213, 131-154.	1.1	164
171	A hybrid inverse method for evaluating FC-PBGA material response to thermal cycles. Journal of Materials Science: Materials in Electronics, 2010, 21, 737-749.	1.1	6
172	Viscoelastic properties of latex paint films in tension: Influence of the inorganic phase and surfactants. Progress in Organic Coatings, 2010, 69, 73-81.	1.9	24
173	Effect of Comonomer Content on the Behavior of Propylene Copolymer/Compatibilizer/Clay Nanocomposites. Macromolecular Materials and Engineering, 2010, 295, 492-501.	1.7	7
174	Miniemulsion polymerization for synthesis of structured clay/polymer nanocomposites: Short review and recent advances. Polymer, 2010, 51, 6-17.	1.8	132
175	Morphology and properties of nanocomposites based on HDPE/HDPE-g-MA blends. Polymer, 2010, 51, 1056-1070.	1.8	84
176	Terahertz spectroscopy to study the orientation of glass fibres in reinforced plastics. Composites Science and Technology, 2010, 70, 472-477.	3.8	102
177	Effect of nanotube geometry on the elastic properties of nanocomposites. Composites Science and Technology, 2010, 70, 1476-1481.	3.8	44
178	Atomistic-based continuum representation of the effective properties of nano-reinforced epoxies. International Journal of Solids and Structures, 2010, 47, 1723-1736.	1.3	55
179	Investigation of the Effectiveness and Efficiency of the Exact Closure: Comparison With Industrial Closures and Spherical Harmonic Solutions. , 2010, , .		1
180	Mechanical and Thermal Properties. , 2010, , 163-196.		5
181	Meltâ€induced seismic anisotropy and magma assisted rifting in Ethiopia: Evidence from surface waves. Geochemistry, Geophysics, Geosystems, 2010, 11, .	1.0	111
182	Organized melt, seismic anisotropy, and plate boundary lubrication. Geochemistry, Geophysics, Geosystems, 2010, 11, .	1.0	121

#	ARTICLE	IF	CITATIONS
183	Graphene/Polyurethane Nanocomposites for Improved Gas Barrier and Electrical Conductivity. Chemistry of Materials, 2010, 22, 3441-3450.	3.2	1,242
184	Effects of interfacial adhesion and crystallization on the thermoresistance of poly(lactic acid)/mica composites. Composites Part A: Applied Science and Manufacturing, 2010, 41, 1817-1822.	3.8	16
185	A simple micromechanical approach to predict mechanical behaviour of polypropylene/organoclay nanocomposites based on representative volume element (RVE). Computational Materials Science, 2010, 49, 1-8.	1.4	28
186	Strain Gradient Modification of the Mori-Tanaka Model to Predict the Elastic Properties of the Layer by Layer (LBL) Manufactured Polymer/Clay Nanocomposites. , 2010, , .		2
187	On Homogenization of Random Heterogeneous Materials. , 2010, , .		2
188	Mechanical Characterization of Nanofiber Enhanced Polymer with Application to Composite Crush Tubes. , 2010, , .		4
189	Thermo-mechanical properties of polystyrene-based shape memory nanocomposites. Journal of Materials Chemistry, 2010, 20, 3442.	6.7	86
190	Sulfide melts and long-term low seismic wavespeeds in lithospheric and asthenospheric mantle. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	18
191	Role of Different Nanoparticles in Elastomeric Nanocomposites. Advanced Structured Materials, 2011, , 3-55.	0.3	6
194	Differential scheme for the effective elastic properties of nano-particle composites with interface effect. Computational Materials Science, 2011, 50, 3230-3237.	1.4	22
195	Strong and bioactive gelatin-graphene oxide nanocomposites. Soft Matter, 2011, 7, 6159.	1.2	144
196	New advances in using seismic anisotropy, mineral physics and geodynamics to understand deformation in the lowermost mantle. Journal of Geodynamics, 2011, 52, 205-228.	0.7	75
197	Microwave-Exfoliated Graphite Oxide/Polycarbonate Composites. Macromolecules, 2011, 44, 6488-6495.	2.2	94
198	Velocity-density relations for deepwater subsalt Gulf of Mexico shales. , 2011, , .		0
199	A Review of Experimental and Modeling Techniques to Determine Properties of Biopolymer-Based Nanocomposites. Journal of Food Science, 2011, 76, E2-14.	1.5	51
200	Simulation of fiber reinforced composite materials mold filling process and mechanical properties analysis. Journal of Non-Newtonian Fluid Mechanics, 2011, 166, 1129-1136.	1.0	4
201	Modeling the mechanical and thermal expansion behavior of TPO-based nanocomposites. Polymer, 2011, 52, 4910-4919.	1.8	13
202	The effects of the interphase and strain gradients on the elasticity of layer by layer (LBL) polymer/clay nanocomposites. International Journal of Solids and Structures, 2011, 48, 1044-1053.	1.3	37

#	ARTICLE	IF	CITATIONS
203	Thermomechanical properties of chemically modified graphene/poly(methyl methacrylate) composites made by in situ polymerization. Carbon, 2011, 49, 2615-2623.	5.4	204
204	Influence of carbon nanotube "polymeric compatibilizer masterbatches on morphological, thermal, mechanical, and tribological properties of polyethylene. Composites Science and Technology, 2011, 71, 1353-1360.	3.8	65
205	A closed-form, hierarchical, multi-interphase model for composites "Derivation, verification and application to nanocomposites. Journal of the Mechanics and Physics of Solids, 2011, 59, 43-63.	2.3	77
206	Constitutive behavior of injection molded short glass fiber reinforced thermoplastics: a phenomenological approach. Procedia Engineering, 2011, 10, 2003-2008.	1.2	8
207	Morphology and mechanical properties of glass fiber reinforced Nylon 6 nanocomposites. Polymer, 2011, 52, 180-190.	1.8	79
208	Influence of the inorganic phase concentration and geometry on the viscoelastic properties of latex coatings through the glass-transition. Polymer, 2011, 52, 1662-1673.	1.8	19
209	Graphene/polyethylene nanocomposites: Effect of polyethylene functionalization and blending methods. Polymer, 2011, 52, 1837-1846.	1.8	358
210	Effects of scale and interface on the three-dimensional micromechanics of polymer nanocomposites. Journal of Composite Materials, 2011, 45, 2537-2546.	1.2	34
211	Impact behaviour of thermoplastics " materials testing and simulationa. Journal of Polymer Engineering, 2011, 31, .	0.6	0
212	Nanoscale Structural and Mechanical Characterization of Nanowire-Reinforced Polymer Composites. , 2011, , .		0
213	A Numerical Model for Predicting Gas Diffusion Layer Failure in Proton Exchange Membrane Fuel Cells. Journal of Fuel Cell Science and Technology, 2011, 8, .	0.8	34
214	Rock physics-based relations for density and S-velocity versus P-velocity in deepwater subsalt Gulf of Mexico shales. The Leading Edge, 2011, 30, 1376-1381.	0.4	13
215	Size-Dependency Consideration of Montmorillonite-Reinforced Nylon-6 Via Interfacial Stiffness. Journal of Thermoplastic Composite Materials, 2011, 24, 601-611.	2.6	5
216	Micromechanical modeling and strength prediction of short fiber reinforced polymers. Journal of Polymer Engineering, 2012, 32, .	0.6	6
217	Modeling of tensile modulus of polyolefin-layered silicate nanocomposites: modified micro-mechanical and statistical methods. Journal of Polymer Engineering, 2012, 32, 519-529.	0.6	2
218	Nanoscale Structural and Mechanical Characterization of MWCNT-Reinforced Polymer Composites. Journal of Engineering Materials and Technology, Transactions of the ASME, 2012, 134, .	0.8	6
219	Dynamical Analysis of Long Fiber-Reinforced Laminated Plates with Elastically Restrained Edges. Advances in Acoustics and Vibration, 2012, 2012, 1-16.	0.5	1
220	Development of an integrative simulation method to predict the microstructural influence on the mechanical behaviour of semi-crystalline thermoplastic parts. International Journal of Materials Research, 2012, 103, 120-130.	0.1	19

#	ARTICLE	IF	CITATIONS
222	Anisotropic Magnetoresistance and Piezoresistivity in Structured Fe ₃ O ₄ -Silver Particles in PDMS Elastomers at Room Temperature. <i>Langmuir</i> , 2012, 28, 6985-6996.	1.6	66
223	Ultralow percolation graphene/polyurethane acrylate nanocomposites. <i>Polymer</i> , 2012, 53, 3756-3761.	1.8	74
224	Young's modulus of effective clay clusters in polymer nanocomposites. <i>Polymer</i> , 2012, 53, 3735-3740.	1.8	28
225	The mechanics of graphene nanocomposites: A review. <i>Composites Science and Technology</i> , 2012, 72, 1459-1476.	3.8	1,076
226	Micromechanical modelling of the elastoplastic behaviour of nanodispersed elastomer particle-modified PA6. <i>Computational Materials Science</i> , 2012, 52, 107-111.	1.4	17
227	Extruder-made TPO nanocomposites. I. Effect of maleated polypropylene and organoclay ratio on the morphology and mechanical properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 1577-1588.	2.4	10
228	MSAT—A new toolkit for the analysis of elastic and seismic anisotropy. <i>Computers and Geosciences</i> , 2012, 49, 81-90.	2.0	128
229	Elastic properties prediction of nano-clay reinforced polymers using hybrid micromechanical models. <i>Computational Materials Science</i> , 2012, 65, 309-314.	1.4	9
230	Effectiveness of recent fiber-interaction diffusion models for orientation and the part stiffness predictions in injection molded short-fiber reinforced composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 1959-1970.	3.8	21
231	Green biocomposites based on cellulose diacetate and regenerated cellulose microfibers: Effect of plasticizer content on morphology and mechanical properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 2256-2268.	3.8	24
232	Plume scar in the mantle lithosphere beneath the Seychelles revealed by seismic imaging. <i>Earth and Planetary Science Letters</i> , 2012, 355-356, 20-31.	1.8	12
233	Processing—Morphology—Property Relationships and Composite Theory Analysis of Reduced Graphene Oxide/Natural Rubber Nanocomposites. <i>Macromolecules</i> , 2012, 45, 6045-6055.	2.2	319
234	Reinforcement and interphase of polymer/graphene oxide nanocomposites. <i>Journal of Materials Chemistry</i> , 2012, 22, 3637.	6.7	225
235	Modeling of short fiber reinforced injection moulded composite. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012, 40, 012025.	0.3	6
236	Structure—property relationships of polymer blend/clay nanocomposites: Compatibilized and noncompatibilized polystyrene/propylene/clay. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 431-441.	2.4	14
237	Effects of Fiber Orientation and Moisture on the Crack Growth in Short Glass Fiber Reinforced Polyamide. <i>Advanced Engineering Materials</i> , 2012, 14, 867-872.	1.6	5
238	Porous exfoliated poly(ϵ -caprolactone)/clay nanocomposites: Preparation, structure, and properties. <i>Journal of Applied Polymer Science</i> , 2012, 125, E102.	1.3	18
239	Effect of the graphite nanoplatelet size on the mechanical, thermal, and electrical properties of polypropylene/exfoliated graphite nanocomposites. <i>Journal of Applied Polymer Science</i> , 2013, 128, 1417-1424.	1.3	29

#	ARTICLE	IF	CITATIONS
240	Characterizing production-induced anisotropy of fractured reservoirs having multiple fracture sets. <i>Geophysical Prospecting</i> , 2012, 60, 919-939.	1.0	25
241	Analysis of effective elastic modulus for multiphased hybrid composites. <i>Composites Science and Technology</i> , 2012, 72, 278-283.	3.8	30
242	Basal reflector under the Philippine Sea Plate. <i>Geophysical Journal International</i> , 2012, 189, 659-668.	1.0	11
243	Composite based on polyetheretherketone reinforced with carbon fibres, an alternative to conventional materials for femoral implant: Manufacturing process and resulting structural behaviour. <i>Materials & Design</i> , 2012, 40, 148-156.	5.1	34
244	Three-dimensional evolution of mechanical percolation in nanocomposites with random microstructures. <i>Probabilistic Engineering Mechanics</i> , 2012, 30, 1-8.	1.3	44
245	The effect of nanotubes waviness on mechanical properties of CNT/SMP composites. <i>Composites Science and Technology</i> , 2013, 86, 164-169.	3.8	68
246	Inverse determination of modeling parameters to consider inhomogeneities of semicrystalline thermoplastics in structure simulations. <i>Archive of Applied Mechanics</i> , 2013, 83, 889-897.	1.2	4
247	Experimental and multiscale numerical simulation of tensile strength of a randomly oriented short fiber composite in a brittle matrix. <i>Computational Materials Science</i> , 2013, 69, 533-541.	1.4	9
248	Further studies on Mori-Tanaka models for thermal expansion coefficients of composites. <i>Polymer</i> , 2013, 54, 1691-1699.	1.8	32
249	Polyol-Assisted Vermiculite Dispersion in Polyurethane Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3054-3062.	4.0	35
250	Preparation and characterisation of epoxy/alumina polymer nanocomposites. <i>Composite Interfaces</i> , 2013, 20, 721-740.	1.3	17
251	Effective moduli of nanoparticle reinforced composites considering interphase effect by extended double-inclusion model – Theory and explicit expressions. <i>International Journal of Engineering Science</i> , 2013, 73, 33-55.	2.7	72
253	Seismic evidence of a regional sublithospheric low velocity layer beneath the Canary Islands. <i>Tectonophysics</i> , 2013, 608, 586-599.	0.9	36
254	Toughening of poly(l-lactic acid) with Cu ₃ BTC ₂ metal organic framework crystals. <i>Polymer</i> , 2013, 54, 6979-6986.	1.8	24
255	A refined analysis of the influence of the carbon nanotube distribution on the macroscopic stiffness of composites. <i>Computational Materials Science</i> , 2013, 77, 189-193.	1.4	13
256	Effects of homogenization technique and introduction of interfaces in a multiscale approach to predict the elastic properties of arthropod cuticle. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 23, 103-116.	1.5	4
257	Micromechanical modeling of the elastic behavior of polypropylene based organoclay nanocomposites under a wide range of temperatures and strain rates/frequencies. <i>Mechanics of Materials</i> , 2013, 64, 56-68.	1.7	26
258	Cellulose reinforced high density polyethylene composites – Morphology, mechanical and thermal expansion properties. <i>Composites Science and Technology</i> , 2013, 76, 21-28.	3.8	78

#	ARTICLE	IF	CITATIONS
260	A variational iteration solution for elastic-plastic impact of polymer/clay nanocomposite plates with or without global lateral deflection, employing an enhanced contact law. International Journal of Mechanical Sciences, 2013, 67, 14-27.	3.6	9
262	Aqueous reduced graphene/thermoplastic polyurethane nanocomposites. Polymer, 2013, 54, 4555-4559.	1.8	58
263	Defining the lower and upper limit of the effective modulus of CNT/polypropylene composites through integration of modeling and experiments. Composite Structures, 2013, 95, 80-87.	3.1	58
264	Multiaxial fatigue models for short glass fiber reinforced polyamide – Part I: Nonlinear anisotropic constitutive behavior for cyclic response. International Journal of Fatigue, 2013, 47, 382-389.	2.8	54
265	A constitutive ply model for stiffness degradation and plastic strain accumulation: Its application to the Third World Wide Failure Exercise (Part A). Journal of Composite Materials, 2013, 47, 2575-2593.	1.2	15
266	Long fiber polymer composite property calculation in injection molding simulation. AIP Conference Proceedings, 2013, , .	0.3	3
267	Comparison of the Models to Predict the Effective Young's Modulus of Hybrid Composites Reinforced with Multi-Shape Inclusions. Applied Mechanics and Materials, 0, 290, 15-20.	0.2	0
268	Manufacturing process improvement and mechanical modelling of multiwalled carbon nanotube/epoxy composites. Plastics, Rubber and Composites, 2013, 42, 210-218.	0.9	5
269	A Closed-Form Solution of Effective Young's Modulus for Composites Including Multi-Shape Inclusions Using Improved Mori-Tanaka Model. Advanced Materials Research, 0, 704, 343-348.	0.3	0
271	Predicting mechanical properties of multiscale composites. Plastics, Rubber and Composites, 2013, 42, 349-360.	0.9	1
273	Micromechanical modelling of alumina trihydrate filled poly (methyl methacrylate) composites. International Journal of Materials and Structural Integrity, 2013, 7, 31.	0.1	3
274	Graphene nanoplatelet-polyetherimide composites: Revealed morphology and relation to properties. Journal of Applied Polymer Science, 2013, 130, 4081-4089.	1.3	14
276	Does Graphene Change T_g of Nanocomposites?. Macromolecules, 2014, 47, 8311-8319.	2.2	119
277	Acoustic scattering from microfibers of Parylene C. Journal of Applied Physics, 2014, 116, , .	1.1	4
278	Effect of Temperature on Mechanical Properties of Nanoclay-Reinforced Polymeric Nanocomposites. II: Modeling and Theoretical Predictions. Journal of Aerospace Engineering, 2014, 27, 505-519.	0.8	7
279	On the elastic properties of mineralized turkey leg tendon tissue: multiscale model and experiment. Biomechanics and Modeling in Mechanobiology, 2014, 13, 1003-1023.	1.4	27
280	Graphene-polymer nanocomposites for structural and functional applications. Progress in Polymer Science, 2014, 39, 1934-1972.	11.8	922
281	Biography of the Prager Medalist: Professor George Weng. Acta Mechanica, 2014, 225, 967-977.	1.1	0

#	ARTICLE	IF	CITATIONS
282	Mechanical and thermo-mechanical properties of carbon nanotube reinforced composites. <i>International Journal of Smart and Nano Materials</i> , 2014, 5, 44-58.	2.0	21
283	AFM Probing of Polymer/Nanofiller Interfacial Adhesion and Its Correlation with Bulk Mechanical Properties in a Poly(ethylene terephthalate) Nanocomposite. <i>Langmuir</i> , 2014, 30, 12950-12959.	1.6	22
284	A Comprehensive Methodology of Evaluation of the Fracability of a Shale Gas Play. , 2014, , .		5
285	On a numerical strategy to simulate nanotube reinforced composite materials. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2014, 45, .	0.5	6
286	3D microstructure modeling of long fiber reinforced thermoplastics. <i>Composites Science and Technology</i> , 2014, 104, 136-145.	3.8	43
287	Mechanical Reinforcement of Epoxy with Self-Assembled Synthetic Clay in Smectic Order. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 10188-10195.	4.0	35
288	A formaldehyde-free binder for engineered wood products. <i>Green Materials</i> , 2014, 2, 2-10.	1.1	4
289	Mechanical responses of a polymer graphene-sheet nano-sandwich. <i>Polymer</i> , 2014, 55, 4976-4982.	1.8	32
290	A Note on mori-tanaka's method. <i>Acta Mechanica Solida Sinica</i> , 2014, 27, 234-244.	1.0	48
291	Phenomenological and numerical modelling of short fibre reinforced cementitious composites. <i>Meccanica</i> , 2014, 49, 1985-2000.	1.2	18
292	Unusual mechanical properties of melt-blended poly(lactic acid) (PLA)/clay nanocomposites. <i>European Polymer Journal</i> , 2014, 52, 193-206.	2.6	94
293	Forced assembly by multilayer coextrusion to create oriented graphene reinforced polymer nanocomposites. <i>Polymer</i> , 2014, 55, 248-257.	1.8	65
294	Multiscale micromechanical modeling of the constitutive response of carbon nanotube-reinforced structural adhesives. <i>International Journal of Solids and Structures</i> , 2014, 51, 2575-2589.	1.3	58
295	Poly(hydroxyalkanoate) Elastomers and Their Graphene Nanocomposites. <i>Macromolecules</i> , 2014, 47, 3926-3941.	2.2	55
296	Modified mean-field formulations for the improved simulation of short fiber reinforced thermoplastics. <i>Composites Science and Technology</i> , 2014, 99, 75-81.	3.8	11
297	Carbon Nanotubes and Related Structures. , 2014, , 147-254.		0
298	Constraining melt geometries beneath the Afar Depression, Ethiopia from teleseismic receiver functions: The anisotropic β -stacking technique. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 1316-1332.	1.0	50
299	Coupling of injection molding process to mechanical properties of short fiber composites: A through process modeling approach. <i>Journal of Reinforced Plastics and Composites</i> , 2015, 34, 1963-1978.	1.6	9

#	ARTICLE	IF	CITATIONS
300	A Detailed Review on Modeling of CNT/Green Polymer Composites. , 2015, , 87-153.		0
301	Mid-mantle anisotropy in subduction zones and deep water transport. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 764-784.	1.0	47
302	An upper mantle seismic discontinuity beneath the <sc>G</sc>alÃ¡pagos <sc>A</sc>rchipelago and its implications for studies of the lithosphereâ€asthenosphere boundary. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 1070-1088.	1.0	15
303	Simplified homogenization technique for engineering applications. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2015, 95, 1566-1573.	0.9	0
304	Investigation of Theoretical Models for the Elastic Stiffness of Nanoparticle-Modified Polymer Composites. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-17.	1.5	9
305	Modelling the damage and deformation process in a plastic bonded explosive microstructure under tension using the finite element method. <i>Computational Materials Science</i> , 2015, 110, 91-101.	1.4	55
306	Optimizing mechanical properties of injection-molded long fiber-reinforced polypropylene. <i>Journal of Thermoplastic Composite Materials</i> , 2015, 28, 849-862.	2.6	6
307	Nanoindentation Study of Yielding and Plasticity of Poly(methyl methacrylate). <i>Macromolecules</i> , 2015, 48, 5348-5357.	2.2	43
308	Two-scale structural mechanical modeling of long fiber reinforced thermoplastics. <i>Composites Science and Technology</i> , 2015, 117, 159-167.	3.8	31
309	Thermo-mechanical characterization of multi-walled carbon nanotube reinforced polycarbonate composites: A molecular dynamics approach. <i>Comptes Rendus - Mecanique</i> , 2015, 343, 371-396.	2.1	22
310	The effects of strain rate and temperature on commercial acrylic artist paints aged one year to decades. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 121, 823-835.	1.1	5
311	The influence of dispersion and distribution of ultrafine kaolinite in polyamide-6 on the mechanical properties and fire retardancy. <i>Applied Clay Science</i> , 2015, 116-117, 8-15.	2.6	16
312	Understanding the Consequences of Intercalation Using Model Polymer Nanolaminates. <i>Macromolecules</i> , 2015, 48, 7620-7630.	2.2	6
313	Crustal anisotropy in northeastern Tibetan Plateau inferred from receiver functions: Rock textures caused by metamorphic fluids and lower crust flow?. <i>Tectonophysics</i> , 2015, 661, 66-80.	0.9	37
314	Influence of void microstructure on the effective elastic properties of discontinuous fiber-reinforced composites. <i>Journal of Composite Materials</i> , 2015, 49, 2745-2755.	1.2	16
315	Seismic characterization of fracture compliance in the field using <i>P</i>- and <i>S</i>-wave sources. <i>Geophysical Journal International</i> , 2015, 203, 1726-1737.	1.0	10
316	Numerical evaluation of effective elastic properties of composites reinforced by spatially randomly distributed short fibers with certain aspect ratio. <i>Composite Structures</i> , 2015, 131, 843-851.	3.1	77
317	Epoxy Toughening with Low Graphene Loading. <i>Advanced Functional Materials</i> , 2015, 25, 575-585.	7.8	301

#	ARTICLE	IF	CITATIONS
318	Mechanical properties of carbon nanotube/polymer composites. <i>Scientific Reports</i> , 2014, 4, 6479.	1.6	358
319	Chitosan-nanohydroxyapatite composites: Mechanical, thermal and bio-compatibility studies. <i>International Journal of Biological Macromolecules</i> , 2015, 73, 170-181.	3.6	20
320	Statistical modeling of effective elastic modulus for multiphased hybrid composites. <i>Polymer Testing</i> , 2015, 41, 99-105.	2.3	15
321	High density polyethylene/cenosphere composites reinforced with multi-walled carbon nanotubes: Mechanical, thermal and fire retardancy studies. <i>Materials & Design</i> , 2015, 65, 377-386.	5.1	33
322	Evaluation of Internal Stress in Short-Carbon-Fiber Reinforced Plastics by Transmission X-Ray Diffraction. <i>Zairyo/Journal of the Society of Materials Science, Japan</i> , 2016, 65, 657-664.	0.1	4
323	3D RVE Models Able to Capture and Quantify the Dispersion, Agglomeration, and Orientation State of CNT in CNT/PP Nanocomposites. <i>Frontiers in Materials</i> , 2016, 3, .	1.2	11
324	Graphene nanoplatelet-modified epoxy: effect of aspect ratio and surface functionality on mechanical properties and toughening mechanisms. <i>Journal of Materials Science</i> , 2016, 51, 8764-8790.	1.7	77
325	Development of simplified Tandon-Weng solutions of Mori-Tanaka theory for Young's modulus of polymer nanocomposites considering the interphase. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	6
326	Simple expressions of bulk and shear moduli of polymer/clay nanocomposites by Tandon-Weng approach assuming 3D randomly oriented platelets. <i>Journal of Reinforced Plastics and Composites</i> , 2016, 35, 1318-1326.	1.6	1
327	3D multiscale modeling to predict the elastic modulus of polymer/nanoclay composites considering realistic interphase property. <i>Composite Interfaces</i> , 2016, 23, 641-661.	1.3	18
328	Mechanical Properties of Carbon Nanofiber Reinforced Polymer Composites-Molecular Dynamics Approach. <i>Jom</i> , 2016, 68, 1717-1727.	0.9	17
329	Identification of polymer matrix yield stress in the wood cell wall based on micropillar compression and micromechanical modelling. <i>Philosophical Magazine</i> , 2016, 96, 3461-3478.	0.7	13
330	In Situ Exfoliation of Graphene in Epoxy Resins: A Facile Strategy to Efficient and Large Scale Graphene Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 24112-24122.	4.0	52
331	Multifunctional highly aligned graphite nanoplatelet-polyether imide composite in film form. <i>Materials Chemistry and Physics</i> , 2016, 182, 110-118.	2.0	10
332	Layered and scrolled nanocomposites with aligned semi-infinite graphene inclusions at the platelet limit. <i>Science</i> , 2016, 353, 364-367.	6.0	125
333	Modeling of microstructure and elastic properties of nc-TiN/a-Si3N4 nanocomposite. <i>Computational Materials Science</i> , 2016, 123, 256-262.	1.4	4
334	Effect of shallow angles on compressive strength of biaxial and triaxial laminates. <i>SpringerPlus</i> , 2016, 5, 2044.	1.2	3
335	Elastic and yield behaviors of recycled polypropylene-based composites: Experimental and modeling study. <i>Composites Part B: Engineering</i> , 2016, 99, 132-153.	5.9	15

#	ARTICLE	IF	CITATIONS
336	Effects of extrudate swell and nozzle geometry on fiber orientation in Fused Filament Fabrication nozzle flow. <i>Additive Manufacturing</i> , 2016, 12, 252-264.	1.7	109
337	Processable conductive graphene/polyethylene nanocomposites: Effects of graphene dispersion and polyethylene blending with oxidized polyethylene on rheology and microstructure. <i>Polymer</i> , 2016, 98, 143-155.	1.8	70
338	Constraints on melt distribution from seismology: a case study in Ethiopia. <i>Geological Society Special Publication</i> , 2016, 420, 127-147.	0.8	23
339	Effect of morphological state of graphene on mechanical properties of nanocomposites. <i>Journal of Materials Science</i> , 2016, 51, 4037-4046.	1.7	6
340	Development of RVE-embedded solid elements model for predicting effective elastic constants of discontinuous fiber reinforced composites. <i>Mechanics of Materials</i> , 2016, 93, 109-123.	1.7	69
341	Homogenization schemes for aging linear viscoelastic matrix-inclusion composite materials with elongated inclusions. <i>International Journal of Solids and Structures</i> , 2016, 80, 545-560.	1.3	30
342	Influence of interphase material and clay particle shape on the effective properties of epoxy-clay nanocomposites. <i>Composites Part B: Engineering</i> , 2016, 88, 11-18.	5.9	14
343	An optimized representative volume element to predict the stiffness of aligned short fiber composites. <i>Journal of Composite Materials</i> , 2016, 50, 3301-3310.	1.2	6
344	Molecular level analysis of carbon nanofiber reinforced polymer composites. <i>Journal of Composite Materials</i> , 2016, 50, 1787-1804.	1.2	9
345	Fabrication and characterization of silicon carbide/epoxy nanocomposite using silicon carbide nanowhisker and nanoparticle reinforcements. <i>Journal of Composite Materials</i> , 2016, 50, 435-446.	1.2	71
346	Analyzing three-dimensional structure and geometrical shape of individual cellulose nanocrystal from switchgrass. <i>Polymer Composites</i> , 2017, 38, 2368-2377.	2.3	17
347	Behaviour and damage of injected carbon-fibre-reinforced polyether ether ketone: From process to modelling. <i>Journal of Composite Materials</i> , 2017, 51, 141-151.	1.2	3
348	A microstructural approach for modelling flexural properties of long glass fibre reinforced polyamide6.6. <i>Journal of Composite Materials</i> , 2017, 51, 3-16.	1.2	4
349	Comparison of experimental and modeling results for cure induced curvature of a carbon fiber laminate. <i>Polymer Composites</i> , 2017, 38, 2488-2500.	2.3	5
350	Predicting the visco-elastic properties of polystyrene/SIS composite blends using simple analytical micromechanics models. <i>Composites Science and Technology</i> , 2017, 142, 302-310.	3.8	7
351	Finite element estimates of viscoelastic stiffness of short glass fiber reinforced composites. <i>Composite Structures</i> , 2017, 171, 53-62.	3.1	25
352	Analytical modeling of effect of interlayer on effective moduli of layered graphene-polymer nanocomposites. <i>Journal of Materials Science and Technology</i> , 2017, 33, 827-833.	5.6	7
353	Modeling the impact of melt on seismic properties during mountain building. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 1090-1110.	1.0	9

#	ARTICLE	IF	CITATIONS
354	Carbon nanotubes as reinforcement in composites: A review of the analytical, numerical and experimental approaches. <i>Computational Materials Science</i> , 2017, 136, 85-101.	1.4	125
355	Thermomechanical anisotropy and flowability of talc and glass fiber reinforced multiphase polymer composites. <i>Composite Structures</i> , 2017, 174, 329-337.	3.1	18
356	The T-matrix approach for the mathematical modeling of the effective elastic properties of hydrocarbon reservoirs. <i>Izvestiya, Physics of the Solid Earth</i> , 2017, 53, 477-487.	0.2	0
357	Seismic anisotropy and mantle flow below subducting slabs. <i>Earth and Planetary Science Letters</i> , 2017, 465, 155-167.	1.8	28
358	Polyurethane/siloxane membranes containing graphene oxide nanoplatelets as antimicrobial wound dressings: in vitro and in vivo evaluations. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 75.	1.7	49
359	Mathematical Simplification of the Tandon-Weng Approach to the Mori-Tanaka Model for Estimating the Young's Modulus of Clay/Polymer Nanocomposites. <i>Jom</i> , 2017, 69, 2819-2824.	0.9	4
360	Finite-volume homogenization of elastic/viscoelastic periodic materials. <i>Composite Structures</i> , 2017, 182, 457-470.	3.1	42
361	A review on additive manufacturing of polymer-fiber composites. <i>Composite Structures</i> , 2017, 182, 36-53.	3.1	817
363	Development and modification of conventional Ouali model for tensile modulus of polymer/carbon nanotubes nanocomposites assuming the roles of dispersed and networked nanoparticles and surrounding interphases. <i>Journal of Colloid and Interface Science</i> , 2017, 506, 283-290.	5.0	67
364	Mechanical properties of graphene and graphene-based nanocomposites. <i>Progress in Materials Science</i> , 2017, 90, 75-127.	16.0	1,682
365	A consistent anisotropic damage model for laminated fiber-reinforced composites using the 3D-version of the Puck failure criterion. <i>International Journal of Solids and Structures</i> , 2017, 126-127, 37-53.	1.3	70
366	Simultaneous flow enhancement of high-filled polyamide 66/glass fiber composites. <i>Journal of Alloys and Compounds</i> , 2017, 722, 628-636.	2.8	9
367	Effect of pore shape on the effective behavior of viscoelastic porous media. <i>International Journal of Solids and Structures</i> , 2017, 125, 161-171.	1.3	10
368	Thermo-mechanical behaviors and moisture absorption of silica nanoparticle reinforcement in epoxy resins. <i>International Journal of Adhesion and Adhesives</i> , 2017, 78, 74-82.	1.4	54
369	Finite Element Modeling of Carbon Nanotubes and Their Composites. , 2017, , 291-309.		1
370	Relation between Eshelby stress and Eshelby fourth-order tensor within an ellipsoidal inclusion. <i>Acta Mechanica</i> , 2017, 228, 1045-1069.	1.1	7
371	Polyamide/Carbon Nanoparticles Nanocomposites: A Review. <i>Polymer Engineering and Science</i> , 2017, 57, 475-494.	1.5	45
372	Sustainable biocomposites from biobased polyamide 6,10 and biocarbon from pyrolyzed miscanthus fibers. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	69

#	ARTICLE	IF	CITATIONS
373	\$\$varvec{N}\$\$-Layer concentric cylinder model (NCYL): an extended micromechanics-based multiscale model for nonlinear composites. <i>Acta Mechanica</i> , 2017, 228, 275-306.	1.1	17
374	Influence of interphase and inclusion waviness on stiffness properties of a nanoenhanced matrix. , 2017, , 235-251.		0
375	Effective Properties of Composites with Periodic Random Packing of Ellipsoids. <i>Materials</i> , 2017, 10, 112.	1.3	14
376	Modeling Strength and Stress Diffusion in Hip Prostheses with Nano-Reinforced Composites. <i>Key Engineering Materials</i> , 0, 749, 234-240.	0.4	0
377	Modeling the effects of elastic modulus and thermal expansion coefficient on the shrinkage of glass fiber reinforced composites. <i>Composites Part B: Engineering</i> , 2018, 146, 98-105.	5.9	23
378	The effect of physical nonlinearity of the interfacial layer between carbon nanotube and polymer matrix on viscoelastic response of nanocomposite materials under harmonic loading. <i>Journal of Composite Materials</i> , 2018, 52, 3731-3744.	1.2	1
379	Improving the crystallization and fire resistance of poly(lactic acid) with nano-ZIF-8@GO. <i>Journal of Materials Science</i> , 2018, 53, 7083-7093.	1.7	34
380	Graphene/polymer nanocomposites: The active role of the matrix in stiffening mechanics. <i>Composite Structures</i> , 2018, 202, 170-181.	3.1	33
381	Direct and inverse multi-scale analyses of arbitrarily functionally graded layered hollow cylinders (discs), with different shaped reinforcements, under harmonic loads. <i>Composite Structures</i> , 2018, 188, 425-437.	3.1	6
382	Local anisotropy analysis based on the Mori-Tanaka model for multiphase composites with fiber length and orientation distributions. <i>Composites Part B: Engineering</i> , 2018, 148, 227-234.	5.9	23
383	Simultaneous enhancement of electrical conductivity and mechanical properties in buckypaper-reinforced polydivinylbenzene(doped polyaniline) composites. <i>Composites Science and Technology</i> , 2018, 161, 50-56.	3.8	6
384	Microstructural damage based micromechanics model to predict stiffness reduction in damaged unidirectional composites. <i>Journal of Reinforced Plastics and Composites</i> , 2018, 37, 797-807.	1.6	4
385	The Role of Oceanic Transform Faults in Seafloor Spreading: A Global Perspective From Seismic Anisotropy. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 1736-1751.	1.4	20
386	Interaction of toughening mechanisms in ternary nanocomposites. <i>Polymer Composites</i> , 2018, 39, 3482-3496.	2.3	23
387	Three-dimensional numerical simulation of total warpage deformation for short-glass-fiber-reinforced polypropylene composite injection-molded parts using coupled FEM. <i>Journal of Polymer Engineering</i> , 2018, 38, 493-502.	0.6	10
388	Strong Poly(Vinyl Alcohol) (PVA)/Bamboo Charcoal (BC) Nanocomposite Films with Particle Size Effect. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 467-479.	3.2	37
389	Evaluation of Effective Elastic Moduli Using Micromechanics. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 455, 012116.	0.3	0
390	A Verified Non-Linear Regression Model for Elastic Stiffness Estimates of Finite Composite Domains Considering Combined Effects of Volume Fractions, Shapes, Orientations, Locations, and Number of Multiple Inclusions. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
391	Emerging trends in 2D nanotechnology that are redefining our understanding of "Nanocomposites". Nano Today, 2018, 21, 18-40.	6.2	59
392	A review of micromechanics based models for effective elastic properties of reinforced polymer matrix composites. Composite Structures, 2018, 204, 607-619.	3.1	98
393	Conductive nanolamellar Cu/martensite wire with high strength. Materials Letters, 2018, 229, 344-347.	1.3	1
394	Rheology Effects on Predicted Fiber Orientation and Elastic Properties in Large Scale Polymer Composite Additive Manufacturing. Journal of Composites Science, 2018, 2, 10.	1.4	44
395	Prediction of the Fiber Orientation State and the Resulting Structural and Thermal Properties of Fiber Reinforced Additive Manufactured Composites Fabricated Using the Big Area Additive Manufacturing Process. Journal of Composites Science, 2018, 2, 26.	1.4	40
396	Ballistic Performance of Nanostructured Metals Toughened by Elliptical Coarse-Grained Inclusions: A Finite Element Study with Failure Analysis. Materials, 2018, 11, 977.	1.3	2
397	An Experimentally Validated Combined Stiffness Formulation for a Finite Domain Considering Volume Fraction, Shape, Orientation, and Location of a Single Inclusion. International Journal of Applied Mechanics, 2018, 10, 1850011.	1.3	1
398	Stiffness prediction of short fiber reinforced composites. International Journal of Mechanical Sciences, 2019, 161-162, 105068.	3.6	24
399	Injection mold design of reverse engineering using injection molding analysis and machine learning. Journal of Mechanical Science and Technology, 2019, 33, 3803-3812.	0.7	18
400	An anisotropic viscoelastic-viscoplastic model for short-fiber composites. Mechanics of Materials, 2019, 137, 103141.	1.7	23
401	Lowermost Mantle Anisotropy Beneath Africa From Differential SKS Shear Wave Splitting. Journal of Geophysical Research: Solid Earth, 2019, 124, 8540-8564.	1.4	35
402	An investigation of seismic anisotropy in the lowermost mantle beneath Iceland. Geophysical Journal International, 2019, 219, S152-S166.	1.0	19
403	A Numerical Model to Predict the Anisotropy of Polymer Composites Reinforced with High-Aspect-Ratio Short Aramid Fibers. Advances in Polymer Technology, 2019, 2019, 1-12.	0.8	1
404	A multiscale approach for virtual testing of highly aligned short carbon fiber composites. Composite Structures, 2019, 230, 111462.	3.1	16
405	Numerical analysis of screw swirling effects on fiber orientation in large area additive manufacturing polymer composite deposition. Composites Part B: Engineering, 2019, 177, 107284.	5.9	22
406	Elastic modulus of short fibre-reinforced polymers. , 2019, , 139-188.		0
407	Higher-Order Structure in Amorphous Poly(ethylene terephthalate)/Graphene Nanocomposites and Its Correlation with Bulk Mechanical Properties. ACS Omega, 2019, 4, 1228-1237.	1.6	18
408	Tensile strength prediction of carbon nanotube reinforced composites by expansion of cross-orthogonal skeleton structure. Composites Part B: Engineering, 2019, 161, 601-607.	5.9	72

#	ARTICLE	IF	CITATIONS
409	The use of micromechanical models to predict fiber reinforced plastics. , 2019, , .		2
410	A temperature and strain sensor based on a cascade of double fiber Bragg grating. Measurement Science and Technology, 2019, 30, 065104.	1.4	20
411	The influence of randomly oriented CNTs on the elastic properties of unidirectionally aligned composites. Mechanics of Materials, 2019, 134, 54-60.	1.7	14
412	Multi-objective CoFRP patch optimization with consideration of manufacturing constraints and integrated warpage simulation. Composite Structures, 2019, 221, 110861.	3.1	4
413	Mechanical Properties of Printed Epoxy-Carbon Fiber Composites. Experimental Mechanics, 2019, 59, 843-857.	1.1	57
414	Kriging-based orthotropic closure for flow-induced fiber orientation and the part stiffness predictions with experimental investigation. Polymer Composites, 2019, 40, 3844-3856.	2.3	3
415	Effect of functionalization on the elastic behavior of graphene nanoplatelet-PE nanocomposites with interface consideration using a multiscale approach. Mechanics of Materials, 2019, 132, 18-30.	1.7	10
416	Toughening epoxy syntactic foams with milled carbon fibres: Mechanical properties and toughening mechanisms. Materials and Design, 2019, 169, 107654.	3.3	38
417	Flow-Fiber Coupled Viscosity in Injection Molding Simulations of Short Fiber Reinforced Thermoplastics. International Polymer Processing, 2019, 34, 158-171.	0.3	14
418	Micromechanics-based approach for the effective estimation of the elastic properties of fiber-reinforced polymer matrix composite. Journal of Micromechanics and Molecular Physics, 2019, 04, 1950005.	0.7	17
419	A simplified multiscale model of degenerate graphite clusters in grey cast iron. Procedia Structural Integrity, 2019, 24, 625-635.	0.3	1
420	Effect of interphase zone on the overall elastic properties of nanoparticle-reinforced polymer nanocomposites. Journal of Composite Materials, 2019, 53, 1261-1274.	1.2	21
421	Improving and predicting the mechanical properties of foamed and stretched composite poly(lactic acid) /BT /Overlock 10 Tf 5	1.1	9
422	Anisotropic viscosity and time-evolving lithospheric instabilities due to aligned igneous intrusions. Geophysical Journal International, 2019, 216, 794-802.	1.0	9
423	Planar deposition flow modeling of fiber filled composites in large area additive manufacturing. Additive Manufacturing, 2019, 25, 227-238.	1.7	53
424	Synergistic improvement of electrical and thermal conductivities of carbon-based nanocomposites and its prediction by Mori-Tanaka scheme with interfacial resistances. Composite Structures, 2019, 211, 56-62.	3.1	18
425	Prediction for the mechanical property of short fiber-reinforced polymer composites through process modeling method. Journal of Thermoplastic Composite Materials, 2019, 32, 1525-1546.	2.6	10
426	Modeling the interphase region in carbon nanotube-reinforced polymer nanocomposites. Polymer Composites, 2019, 40, E1219.	2.3	58

#	ARTICLE	IF	CITATIONS
427	Influence of Processing Parameters on Residual Stress in Injection Molded Parts. Lecture Notes in Mechanical Engineering, 2019, , 476-484.	0.3	1
428	Processable conductive and mechanically reinforced polylactide/graphene bionanocomposites through interfacial compatibilizer. Polymer Composites, 2019, 40, 389-400.	2.3	14
429	On the anisotropic plastic behaviour of short fibre reinforced thermoplastics and its description by phenomenological material modelling. Mechanik, Werkstoffe Und Konstruktion Im Bauwesen, 2020, , .	0.1	3
430	A filler-matrix interaction model for the large deformation response of graphene nanocomposite – A PVA-GO nanocomposite example. Composites Part A: Applied Science and Manufacturing, 2020, 129, 105729.	3.8	17
431	Effect of porosity on the nonlinear and time-dependent behavior of Ceramic Matrix Composites. Composites Part B: Engineering, 2020, 184, 107658.	5.9	13
432	Evaluation of the effect of adding carbon nanotubes on the effective mechanical properties of ceramic particulate aluminum matrix composites. Mechanics of Materials, 2020, 142, 103276.	1.7	10
433	A homogenization scheme for elastoplastic composites using concept of Mori-Tanaka method and average deformation power rate density. International Journal of Plasticity, 2020, 128, 102652.	4.1	14
434	A critical review on the fused deposition modeling of thermoplastic polymer composites. Composites Part B: Engineering, 2020, 201, 108336.	5.9	319
435	Dynamic stress-strain response of graphene nanocomposites. International Journal of Impact Engineering, 2020, 145, 103690.	2.4	4
436	Development of a hierarchical model for voids clusters suitable for cast iron degenerated graphite. Theoretical and Applied Fracture Mechanics, 2020, 109, 102731.	2.1	7
437	Prediction of Mechanical Performance of Natural Fibers Polypropylene Composites: a Comparison Study. IOP Conference Series: Materials Science and Engineering, 2020, 948, 012031.	0.3	7
438	Correlation structure in the elasticity tensor for short fiber-reinforced composites. Probabilistic Engineering Mechanics, 2020, 62, 103100.	1.3	11
439	Strength Prediction Sensitivity of Foamed Recycled Polymer Composite Structures due to the Localized Variability of the Cell Density Distribution. Journal of Composites Science, 2020, 4, 93.	1.4	3
440	Towards Sophisticated 3D Interphase Modelling of Advanced Bionanocomposites via Atomic Force Microscopy. Journal of Nanomaterials, 2020, 2020, 1-22.	1.5	3
441	Interfibrillar behavior in ultra-high molecular weight polyethylene (UHMWPE) single fibers subjected to tension. International Journal of Solids and Structures, 2020, 206, 354-369.	1.3	5
442	Measuring Fiber Length in the Core and Shell Regions of Injection Molded Long Fiber-Reinforced Thermoplastic Plaques. Journal of Composites Science, 2020, 4, 104.	1.4	4
443	Fiber Orientation and Concentration in an Injection-Molded Ethylene-Propylene Copolymer Reinforced by Hemp. Polymers, 2020, 12, 2771.	2.0	10
444	A modified Mori-Tanaka approach incorporating filler-matrix interface failure to model graphene/polymer nanocomposites. International Journal of Mechanical Sciences, 2020, 180, 105699.	3.6	29

#	ARTICLE	IF	CITATIONS
445	On-demand modulation of 3D-printed elastomers using programmable droplet inclusions. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14790-14797.	3.3	40
446	Mechanical characteristics of short fiber composite samples located behind circle, rectangle, triangle obstacles. IOP Conference Series: Materials Science and Engineering, 2020, 868, 012024.	0.3	3
447	Elastoplastic mean-field homogenization: recent advances review. Mechanics of Advanced Materials and Structures, 2022, 29, 449-474.	1.5	14
448	Mechanical and tribological properties of nanocomposites incorporated with two-dimensional materials. Friction, 2020, 8, 813-846.	3.4	79
449	Mechanical modeling of CF/PA6 sheet molding compounds with X-ray computed tomography-based internal geometry considerations. Composites Science and Technology, 2020, 192, 108104.	3.8	4
450	Stiffness Estimates for Composites with Elliptic Cylindrical Voids. Materials, 2020, 13, 1354.	1.3	4
451	A multi-scale analytical methodology for the prediction of mechanical properties of 3D-printed materials with continuous fibres. Additive Manufacturing, 2020, 36, 101394.	1.7	19
452	Continuum-based micromechanical models for asphalt materials: Current practices & beyond. Construction and Building Materials, 2020, 260, 119675.	3.2	20
453	Characterization and Model Validation for Large Format Chopped Fiber, Foamed, Composite Structures Made from Recycled Olefin Based Polymers. Polymers, 2020, 12, 1371.	2.0	2
454	FEM analysis of the elastic behavior of composites and nanocomposites with arbitrarily oriented reinforcements. Composite Structures, 2020, 241, 112095.	3.1	7
455	Micromechanics Based Models for Effective Evaluation of Elastic Properties of Reinforced Polymer Matrix Composites. Materials Today: Proceedings, 2020, 21, 1298-1302.	0.9	8
456	Functionally graded graphene reinforced composite structures: A review. Engineering Structures, 2020, 210, 110339.	2.6	332
457	A model to describe the cyclic anisotropic mechanical behavior of short fiber-reinforced thermoplastics. Mechanics of Time-Dependent Materials, 2020, 24, 481-503.	2.3	1
458	Constitutive modeling of <sc>injection-molded short-fiber</sc> composites: Characterization and model application. Journal of Applied Polymer Science, 2020, 137, 49248.	1.3	12
459	Micromechanical and experimental analysis of mechanical properties of graphene/CNT epoxy composites. Materials Today: Proceedings, 2020, 26, 1855-1863.	0.9	10
460	Dynamic and buckling analysis of polymer hybrid composite beam with variable thickness. Applied Mathematics and Mechanics (English Edition), 2020, 41, 785-804.	1.9	8
461	Multi-Scale modelling of structure-property relationship in additively manufactured metallic materials. International Journal of Mechanical Sciences, 2021, 194, 106185.	3.6	30
462	A damage plasticity constitutive model for wavy CNT nanocomposites by incremental Mori-Tanaka approach. Composite Structures, 2021, 258, 113178.	3.1	14

#	ARTICLE	IF	CITATIONS
463	Additive manufacturing of compliance optimized variable stiffness composites through short fiber alignment along curvilinear paths. <i>Additive Manufacturing</i> , 2021, 37, 101728.	1.7	14
464	Analysis of Short Jute Fiber-Polypropylene Composite Using Experimental and XFEM Approach. <i>Journal of Natural Fibers</i> , 2022, 19, 4606-4621.	1.7	1
465	The impact of fiber properties on the material coefficients of short fiber reinforced composites. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 20, e202000019.	0.2	1
466	A constitutive model for linear hyperelastic materials with orthotropic inclusions by use of quaternions. <i>Continuum Mechanics and Thermodynamics</i> , 2021, 33, 1375-1384.	1.4	3
469	Polymer nanocomposites with aligned two-dimensional materials. <i>Progress in Polymer Science</i> , 2021, 114, 101360.	11.8	39
470	A constitutive model for fiber reinforced polymer plies – Implicit anisotropic evolution of damage and plasticity based on effective strengths. <i>Composites Part C: Open Access</i> , 2021, 4, 100097.	1.5	0
471	Coupled simulation of flow-induced viscous and elastic anisotropy of short-fiber reinforced composites. <i>Acta Mechanica</i> , 2021, 232, 2249-2268.	1.1	11
472	Short Fiber Filled Injection Molded Workflow with Multiscale Simulation. , 0, , .		0
473	Role of elastic strain energy in spheroidal precipitates revisited. <i>Mechanics of Materials</i> , 2021, 155, 103781.	1.7	5
474	Technique of considering the material anisotropy in topology optimization of short fibers composite structures. <i>Journal of Physics: Conference Series</i> , 2021, 1925, 012036.	0.3	3
475	Analytical models of the strength and ductility of CNT reinforced metal matrix nano composites under elevated temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 813, 141078.	2.6	10
476	Characterizing the mechanical properties of nanocomposites with aligned graphene. <i>Polymer Composites</i> , 2021, 42, 4005-4014.	2.3	12
477	Probing the prediction of effective properties for composite materials. <i>European Journal of Mechanics, A/Solids</i> , 2021, 87, 104228.	2.1	18
478	Anomalous Loss of Stiffness with Increasing Reinforcement in a Photo-Activated Nanocomposite. <i>Macromolecular Rapid Communications</i> , 2021, 42, 2100147.	2.0	0
479	3D Printing-Enabled Nanoparticle Alignment: A Review of Mechanisms and Applications. <i>Small</i> , 2021, 17, e2100817.	5.2	61
480	Homogenization of Composites with Extended General interfaces: Comprehensive Review and Unified Modeling. <i>Applied Mechanics Reviews</i> , 2021, , .	4.5	41
481	A statistical homogenization approach for incorporating fiber aspect ratio distribution in large area polymer composite deposition additive manufacturing property predictions. <i>Additive Manufacturing</i> , 2021, 43, 102006.	1.7	11
482	Mechanical models and numerical simulations in nanomechanics: A review across the scales. <i>Engineering Analysis With Boundary Elements</i> , 2021, 128, 149-170.	2.0	19

#	ARTICLE	IF	CITATIONS
483	On the theory of constitutive equations for composites with different resistance in compression and tension. <i>Composite Structures</i> , 2021, 268, 113921.	3.1	7
485	A viscoelastic Eshelby inclusion model and analysis of the Cell-in-Gel system. <i>International Journal of Engineering Science</i> , 2021, 165, 103489.	2.7	6
486	Incorporation of Biochar to Improve Mechanical, Thermal and Electrical Properties of Polymer Composites. <i>Polymers</i> , 2021, 13, 2663.	2.0	47
487	Discrete element approach to simulate debonding process in 3D short glass fibre composite materials: Application to PA6/GF30. <i>Composite Structures</i> , 2021, 270, 114035.	3.1	14
488	Energy Absorption and Stiffness Balance in Modified and Conventional Syntactic Foams. <i>Applied Composite Materials</i> , 0, , 1.	1.3	0
489	Mechanical Properties of a Biocomposite Based on Carbon Nanotube and Graphene Nanoplatelet Reinforced Polymers: Analytical and Numerical Study. <i>Journal of Composites Science</i> , 2021, 5, 234.	1.4	21
490	Designing an interpenetrating network of silane-functionalized nanocomposites for enhanced particle dispersity and interfacial bonding strength. <i>Ceramics International</i> , 2022, 48, 1827-1835.	2.3	8
491	A Review on Fracture Analysis of CNT/Graphene Reinforced Composites for Structural Applications. <i>Archives of Computational Methods in Engineering</i> , 2022, 29, 545-582.	6.0	7
492	Pore and mineral fabrics control the elastic wave velocities of metapelite with implications for subduction zone tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022361.	1.4	4
493	Plastic deformation and fracture processes in metal/graphene composites: a review. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2022, 47, 708-735.	6.8	7
494	On mean field homogenization schemes for short fiber reinforced composites: Unified formulation, application and benchmark. <i>International Journal of Solids and Structures</i> , 2021, 230-231, 111141.	1.3	15
495	Representative volume element based micromechanical modelling of rod shaped glass filled epoxy composites. <i>SN Applied Sciences</i> , 2021, 3, 1.	1.5	16
496	Micromechanics models for predicting tensile properties of latex paint films. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2011, , 297-306.	0.3	1
497	Theory of Plasticity for a Class of Inclusion and Fiber-Reinforced Composites. , 1990, , 599-622.		18
498	Shear Transformation Zones in Amorphous Polymers: Geometrical and Micromechanical Properties. , 2016, , 1-27.		1
499	Carbon in Polymer. , 2013, , 695-728.		1
500	Microstructural Description of Composites, Statistical Methods. , 2004, , 173-233.		2
501	Short Fibre Reinforced Thermoplastics: Properties and Design. , 1991, , 80-98.		2

#	ARTICLE	IF	CITATIONS
502	Morphological Characterization of Microstructures. , 2000, , 465-478.		9
503	Effect of aspect ratio on dynamic fracture toughness of particulate polymer composite using artificial neural network. Engineering Fracture Mechanics, 2020, 228, 106907.	2.0	65
505	Functionally graded metals and metal-ceramic composites: Part 2 Thermomechanical behaviour. International Materials Reviews, 1997, 42, 85-116.	9.4	46
506	Preparation with modeling and theoretical predictions of mechanical properties of functionally graded polyethylene/clay nanocomposites. Journal of Theoretical and Applied Mechanics, 0, , 583.	0.2	2
507	A New Method of X-Ray Measurement of Residual Stress in Short-Fiber Reinforced Plastics. Zairyo/Journal of the Society of Materials Science, Japan, 2014, 63, 514-520.	0.1	6
508	Effect of processing conditions on the structure, electrical and mechanical properties of melt mixed high density polyethylene/multi-walled CNT composites in compression molding. Materialpruefung/Materials Testing, 2017, 59, 136-147.	0.8	7
509	Transient bioimpedance monitoring of mechanotransduction in artificial tissue during indentation. Journal of Electrical Bioimpedance, 2014, 5, 55-73.	0.5	6
510	Strength prediction in single beads of large area additive manufactured <sc>shortâ€fiber</sc> polymers. Polymer Composites, 2021, 42, 6534-6550.	2.3	5
511	Homogenized modeling approach for effective property prediction of 3D-printed short fibers reinforced polymer matrix composite material. International Journal of Advanced Manufacturing Technology, 2022, 118, 4161-4178.	1.5	7
512	Nonlinear magnetoelectric effects of polymer-based hybrid magnetoelectric composites with chain-like terfenol-D/epoxy and PVDF multilayers. Composites Science and Technology, 2021, 216, 109069.	3.8	8
513	Analytical and numerical modeling of voids in additively manufactured thermoplastic parts. Additive Manufacturing, 2021, 48, 102356.	1.7	4
514	ãf—ãf ©ã,1ãfãfã, æ^ã½çã“ã@æ©ÿæç°ç%1æ€Sè©•ã¾4j. Seikei-Kakou, 2007, 19, 137-142.	0.0	0
515	Polymers and Short Fibers. , 2009, , 339-410.		0
517	Empirical Study on the Effects of the Content and the Orientation of the Disk Shape Fillers on the Modulus of PP Composites. Pormime, 2012, 36, 229-234.	0.0	0
518	Empirical Study on Effects of Disk Shape Filler Content and Orientation on Thermal Expansion Coefficient of PP Composites. Pormime, 2012, 36, 281-286.	0.0	0
519	Fiber Orientation and Warpage of Film Insert Molded Parts with Glass Fiber Reinforced Substrate. Journal of the Korean Society for Composite Materials, 2012, 25, 117-125.	0.3	1
520	Effect of Inorganic Fillers on the Dimensional Stability of Poly(ethylene naphthalate) Film as a Flexible Substrate. Pormime, 2012, 36, 733-738.	0.0	0
521	Seismic Anisotropy and Deformation in the Lowermost Mantle. Springer Theses, 2013, , 9-60.	0.0	0

#	ARTICLE	IF	CITATIONS
522	Characterization of Isotropic Composites Containing Inclusions of Specified Shapes by use of Ultrasonics In The Long Wavelength Limit. , 1987, , 95-103.		0
523	Law of Mixture for Macroscopic Properties of Composite Materials.. Journal of the Society of Materials Engineering for Resources of Japan, 1991, 4, 94-127.	0.2	0
525	Micromechanics for Macroscopic Material Description of FRPs. , 1994, , 9-49.		4
526	Description of Thermoelastic Composites by a Mean Field Approach. , 1994, , 51-72.		2
527	Effective Elastoplastic Behavior of a Class of Two-Phase Composites with a Polycrystal-Like Microstructure. , 1995, , 97-117.		0
528	Fracture and Fatigue of DRA Composites. , 1996, , 895-904.		5
529	Converted phase AVOA effects over multiple fracture sets: Application to ocean bottom surveys. , 1997, , .		2
530	Simulation of Elastic Properties of Polymer- Clay Nanocomposite. Istiqlāl, 2015, 34, 69-86.	0.1	0
531	Shear Transformation Zones in Amorphous Polymers: Geometrical and Micromechanical Properties. , 2019, , 333-359.		0
532	Evaluation of Internal Strain Distribution in Glass-Short-Fiber Reinforced Plastics by Synchrotron Strain-Scanning Method. Zairyo/Journal of the Society of Materials Science, Japan, 2020, 69, 300-307.	0.1	3
533	Experimentally validated combined stiffness expression for finite domain containing multiple inclusions. , 2020, 348, 113-135.		0
534	Simplification and Development of Tandon-Weng Model for Tensile Modulus of Ternary Polymer Nanocomposites: Comparison of Predictions with Experimental Results. Physical Mesomechanics, 2020, 23, 439-445.	1.0	1
535	Micromechanical effect of pores on elastic properties of polymer matrix composites. Polymer Composites, 2021, 42, 1497-1518.	2.3	7
536	Micromechanical Models of PVA-Based Bionanocomposite Films. , 2021, , 139-157.		0
537	Materials property modeling and design of short fiber composites. , 2022, , 347-377.		0
538	Gestalten, Design, FÄ¼gen, Auslegung, BerechnungsansÄtze, Simulation, EDV-unterstÄ¼tzte Konstruktion und Kosten von Kunststoffbauteilen. , 2020, , 455-578.		1
539	Prediction of the mechanical properties of long fiber reinforced thermoplastics. AIP Conference Proceedings, 2020, , .	0.3	0
540	Gestalten, FÄ¼gen, BerechnungsansÄtze und Simulation EDV-unterstÄ¼tzter Konstruktionen und Auslegung von Kunststoffbauteilen. , 2008, , 466-544.		1

#	ARTICLE	IF	CITATIONS
542	Elastic response of Carbon Black reinforced polyester based composites using micromechanical models: Role of interphase. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, 0, , 239779142110701.	0.5	0
543	A Review on the Modeling of the Elastic Modulus and Yield Stress of Polymers and Polymer Nanocomposites: Effect of Temperature, Loading Rate and Porosity. Polymers, 2022, 14, 360.	2.0	16
544	Co-simulation technology of mold flow and structure for injection molding reinforced thermoplastic composite (FRT) parts. Advanced Composites and Hybrid Materials, 2022, 5, 960-972.	9.9	6
545	Mechanical Properties of Metal Matrix Composites with Graphene and Carbon Nanotubes. Physics of Metals and Metallography, 2022, 123, 57-84.	0.3	5
546	Theoretical models for stiffness prediction of short fibre composites. Materials Today: Proceedings, 2022, 57, 711-714.	0.9	4
547	A predictive model towards understanding the effect of reinforcement agglomeration on the stiffness of nanocomposites. Journal of Composite Materials, 2022, 56, 1591-1604.	1.2	11
548	Effect of the fibre length on the mechanical anisotropy of glass fibre reinforced polymer composites printed by Multi Jet Fusion. Virtual and Physical Prototyping, 2022, 17, 734-748.	5.3	15
549	Rayleigh Love Discrepancy Highlights Temporal Changes in Near-Surface Radial Anisotropy After the 2004 Great Sumatra Earthquake. Journal of Geophysical Research: Solid Earth, 2021, 126, .	1.4	0
550	Evaluation of Internal Stresses in Multi-Phase and Composite Materials by Crystal-Diffraction Methods. Zairyo/Journal of the Society of Materials Science, Japan, 2022, 71, 338-346.	0.1	0
551	Polymer nanocomposites based on graphite nanoplatelets (GNPs): a review on thermal-electrical conductivity, mechanical and barrier properties. Journal of Materials Science, 2022, 57, 7425-7480.	1.7	15
552	Mechanical and Thermal Properties. , 2010, , 163-196.		0
554	Calibration of the PA6 Short-Fiber Reinforced Material Model for 10% to 30% Carbon Mass Fraction Mechanical Characteristic Prediction. Polymers, 2022, 14, 1781.	2.0	5
555	Integrated computational framework for modeling chopped fiber composites at the mesoscale. Computer Methods in Applied Mechanics and Engineering, 2022, 395, 115001.	3.4	3
556	Evidence for crustal seismic anisotropy at the InSight lander site. Earth and Planetary Science Letters, 2022, 593, 117654.	1.8	21
557	A two-scale model of degenerated graphite in cast iron. Engineering Fracture Mechanics, 2022, 272, 108682.	2.0	0
558	Injection over-molding warpage prediction of continuous fiber-reinforced thermoplastic composites considering yarn reorientation. Thin-Walled Structures, 2022, 180, 109804.	2.7	4
559	Hybrid micro-composite sheets of Poly(lactic Acid (PLA)/Carbon Black (CB)/natural kenaf fiber processed by calendaring method. Journal of Polymer Research, 2022, 29, .	1.2	2
560	Modeling elastic properties of 3D printed composites using real fibers. International Journal of Mechanical Sciences, 2022, 232, 107581.	3.6	13

#	ARTICLE	IF	CITATIONS
561	Effective flow modifiers for high-filled poly(phenylene sulfide) composites based on chemical structure similarity. Composites Science and Technology, 2022, 230, 109721.	3.8	4
562	Influence of void contour on the elastic behavior of parts produced by material extrusion. Additive Manufacturing, 2022, 59, 103138.	1.7	0
563	Thermal free vibration examination of sandwich piezoelectric agglomerated randomly oriented CNTRC Timoshenko beams regarding pyroelectricity. Engineering Analysis With Boundary Elements, 2023, 146, 500-516.	2.0	9
564	A general approach to calculate the stiffness tensor of short-fiber composites using the fabric tensor determined by X-ray computed tomography. Polymer Composites, 2023, 44, 917-931.	2.3	3
565	Limpet teeth microstructure unites auxeticity with extreme strength and high stiffness. Science Advances, 2022, 8, .	4.7	4
566	Elastic Constitutive Relationship of Metallic Materials Containing Grain Shape. Crystals, 2022, 12, 1768.	1.0	0
567	Modeling of polymer composite properties. , 2023, , 109-129.		0
568	MWCNTs polymer nanocomposite with enhanced thermomechanical properties and electrical insulation for effective encapsulation. Materials Research Express, 2023, 10, 025003.	0.8	4
569	Analysis of Fiber Orientation and a Simulation of Damage Fracture Prediction Using an X-ray Phase Imaging Method for Discontinuous Carbon Fiber Random Laminated Molded Products. Journal of the Japan Society for Composite Materials, 2022, 48, 41-51.	0.1	1
570	Numerical modelling on polymer composites prepared via large area extrusion-deposition additive manufacturing: fibre orientation, material inhomogeneity, and thermal-mechanical responses during material loading process. Plastics, Rubber and Composites, 2023, 52, 435-456.	0.9	0
571	Influence of Biochar and Bio-Oil Loading on the Properties of Epoxy Resin Composites. Polymers, 2023, 15, 1895.	2.0	3
572	ã,-ãf ©ã,1çÿç1Šç¶ã¼4-ãCE-PPSæ¹è,,,ã©ç1Šç¶é...ã^tä,fã,'è€fæ...®ã-ãÿãfžã,ã,ãfãfjã,«ãf<ãffã,ã,1ã«ãÿªã¶ãXç-sãç,œãŠ»è©ã³/4j. Zary		
573	Analysis of Properties of Nanocomposites Based on Polyamide-6 and Organomodified Layered Silicates by Models of Elastic Modulus of Composites. Advances in Chemical and Materials Engineering Book Series, 2023, , 254-277.	0.2	0
581	Mechanisches Werkstoffverhalten und -modellierung. , 2018, , 7-144.		0