Yasser Zare

List of Publications by Year
in descending order

197 papers	7,364 citations	19608 61 h-index	66788 78 g-index
199 all docs	199 docs citations	199 times ranked	3677 citing authors

#	Article	IF	Citations
1	Advancement of a model for electrical conductivity of polymer nanocomposites reinforced with carbon nanotubes by a known model for thermal conductivity. Engineering With Computers, 2022, 38, 2497-2507.	3.5	3
2	Effect of interfacial/interphase conductivity on the electrical conductivity of polymer carbon nanotubes nanocomposites. Engineering With Computers, 2022, 38, 315-324.	3.5	6
3	A model for tensile modulus of halloysite-nanotube-based samples assuming the distribution and networking of both nanoparticles and interphase zone after mechanical percolation. Mechanics of Advanced Materials and Structures, 2022, 29, 5704-5713.	1.5	6
4	Formulation of interfacial parameter in Kolarik model by aspect ratio of carbon nanotubes and interfacial shear strength to simulate the tensile strength of carbonâ€nanotubeâ€based systems. Polymer Composites, 2022, 43, 430-439.	2.3	1
5	Tensile modulus of halloysite-nanotube-based system assuming the defective interfacial bonding between polymer medium and halloysite nanotube. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2022, 275, 115527.	1.7	1
6	Expansion of Takayanagi model by interphase characteristics and filler size to approximate the tensile modulus of halloysite-nanotube-filled system. Journal of Materials Research and Technology, 2022, 16, 1628-1636.	2.6	16
7	Progressing of Kovacs model for conductivity of graphene-filled products by total contact resistance and actual filler amount. Engineering Science and Technology, an International Journal, 2022, 34, 101079.	2.0	1
8	Interfacial stress transfer factor and tensile strength of polymer halloysite nanotubes systems. Polymer Composites, 2022, 43, 2064-2072.	2.3	1
9	Simple models for tensile modulus of shape memory polymer nanocomposites at ambient temperature. Nanotechnology Reviews, 2022, 11, 874-882.	2.6	4
10	Development of a model for modulus of polymer halloysite nanotube nanocomposites by the interphase zones around dispersed and networked nanotubes. Scientific Reports, 2022, 12, 2443.	1.6	16
11	A simple model for gas barrier performance of polymer nanocomposites considering filler alignment angle and diffusion direction. Composites Science and Technology, 2022, 230, 109397.	3.8	3
12	Effect of contact resistance on the electrical conductivity of polymer graphene nanocomposites to optimize the biosensors detecting breast cancer cells. Scientific Reports, 2022, 12, 5406.	1.6	19
13	Advanced model for conductivity estimation of graphene-based samples considering interphase effect, tunneling mechanism, and filler wettability. Journal of Industrial and Engineering Chemistry, 2022, 108, 81-87.	2.9	2
14	Two-Stage Modeling of Tensile Strength for a Carbon-Nanotube-Based System Applicable in the Biomedical Field. Jom, 2022, 74, 3059-3068.	0.9	8
15	Tuning of a mechanics model for the electrical conductivity of CNT-filled samples assuming extended CNT. European Physical Journal Plus, 2022, 137, 1.	1.2	1
16	Osteogenesis capability of three-dimensionally printed poly(lactic acid)-halloysite nanotube scaffolds containing strontium ranelate. Nanotechnology Reviews, 2022, 11, 1901-1910.	2.6	24
17	Intelligent modeling and optimization of titanium surface etching for dental implant application. Scientific Reports, 2022, 12, 7184.	1.6	3
18	Development of a theoretical model for estimating the electrical conductivity of a polymeric system reinforced with silver nanowires applicable for the biosensing of breast cancer cells. Journal of Materials Research and Technology, 2022, 18, 4894-4902.	2.6	18

#	Article	IF	Citations
19	Modeling of mechanical behaviors and interphase properties of polymer/nanodiamond composites for biomedical products. Journal of Materials Research and Technology, 2022, 19, 2750-2758.	2.6	13
20	Crucial interfacial shear strength to consider an imperfect interphase in halloysite-nanotube-filled biomedicalÂsamples. Journal of Materials Research and Technology, 2022, 19, 3777-3787.	2.6	4
21	Effective Conductivity of Carbon-Nanotube-Filled Systems by Interfacial Conductivity to Optimize Breast Cancer Cell Sensors. Nanomaterials, 2022, 12, 2383.	1.9	0
22	Tensile Modulus of Polymer Halloysite Nanotube Systems Containing Fillerâ€“Interphase Networks for Biomedical Requests. Materials, 2022, 15, 4715.	1.3	1
23	An overview of the plant-mediated green synthesis of noble metal nanoparticles for antibacterial applications. Journal of Industrial and Engineering Chemistry, 2021, 94, 92-104.	2.9	122
24	Electrical conductivity of interphase zone in polymer nanocomposites by carbon nanotubes properties and interphase depth. Journal of Applied Polymer Science, 2021, 138, 50313.	1.3	6
25	Biosensing Applications of Polyaniline (PANI)-Based Nanocomposites: A Review. Polymer Reviews, 2021, 61, 553-597.	5.3	69
26	Formulation of tunneling resistance between neighboring carbon nanotubes in polymer nanocomposites. Engineering Science and Technology, an International Journal, 2021, 24, 605-610.	2.0	5
27	A rapid nanobiosensing platform based on herceptin-conjugated graphene for ultrasensitive detection of circulating tumor cells in early breast cancer. Nanotechnology Reviews, 2021, 10, 744-753.	2.6	27
28	Reduced graphene oxide-grafted bovine serum albumin/bredigite nanocomposites with high mechanical properties and excellent osteogenic bioactivity for bone tissue engineering. Bio-Design and Manufacturing, 2021, 4, 243-257.	3.9	19
29	Development of Ji Micromechanics Model for Electrical Conductivity of Carbon Nanotubes-reinforced Samples. Fibers and Polymers, 2021, 22, 1889-1898.	1.1	1
30	Micromechanics Modeling of Electrical Conductivity for Polymer Nanocomposites by Network Portion, Interphase Depth, Tunneling Properties and Wettability of Filler by Polymer Media. Fibers and Polymers, 2021, 22, 1343-1351.	1.1	2
31	Development and simplification of a micromechanic model for conductivity of carbon nanotubes-reinforced nanocomposites. Journal of Polymer Research, 2021, 28, 1.	1.2	0
32	Advanced Models for Modulus and Strength of Carbon-Nanotube-Filled Polymer Systems Assuming the Networks of Carbon Nanotubes and Interphase Section. Mathematics, 2021, 9, 990.	1.1	3
33	A two-step technique established by simple models to estimate the tensile strength of halloysite nanotubes-filled nanocomposites. Polymer Testing, 2021, 96, 107073.	2.3	1
34	Simulation of tensile strength for halloysite nanotubes/polymer composites. Applied Clay Science, 2021, 205, 106055.	2.6	9
35	Simulation of relaxation time and storage modulus for carbon nanotubes-based nanocomposites. Journal of Materials Research and Technology, 2021, 12, 500-511.	2.6	1
36	Effect of Imperfect Interphase Section Neighboring Dispersed and Networked Nanoclay on the Modulus of Nanocomposites by a Modeling Method. Fibers and Polymers, 2021, 22, 2517-2526.	1.1	0

#	Article	IF	Citations
37	Local delivery of chemotherapeutic agent in tissue engineering based on gelatin/graphene hydrogel. Journal of Materials Research and Technology, 2021, 12, 412-422.	2.6	22
38	Modification of advanced Takayanagi model for the modulus of nanoclay/polymer systems comprising the effectual networks of both nanoclay and interphase section. Journal of Applied Polymer Science, 2021, 138, 51185.	1.3	1
39	Effects of interfacial shear strength on the operative aspects of interphase section and tensile strength of carbon-nanotube-filled system: A modeling study. Results in Physics, 2021, 26, 104428.	2.0	3
40	Development of Jangâ€“Yin model for effectual conductivity of nanocomposite systems by simple equations for the resistances of carbon nanotubes, interphase and tunneling section. European Physical Journal Plus, 2021, 136, 1.	1.2	6
41	Tensile modulus of clayâ€reinforced system supposing the interphase effectiveness for load transferring. Polymer Composites, 2021, 42, 5465.	2.3	4
42	Micromechanics simulation of electrical conductivity for carbon-nanotube-filled polymer system by adjusting Ouali model. European Physical Journal Plus, 2021, 136, 1.	1.2	10
43	Modeling of Stress Relaxation Modulus for a Nanocomposite Biosensor by Relaxation Time, Yield Stress, and Zero Complex Viscosity. Jom, 2021, 73, 3693-3701.	0.9	5
44	Tensile strength of carbonâ€nanotubeâ€based nanocomposites by the effective characteristics of interphase area nearby the filler network. Polymer Composites, 2021, 42, 6488-6499.	2.3	10
45	A hybrid approach for in-situ synthesis of bioceramic nanocomposites to adjust the physicochemical and biological characteristics. Journal of Materials Research and Technology, 2021, 14, 464-474.	2.6	5
46	Development of an advanced Takayanagi equation for the electrical conductivity of carbon nanotube-reinforced polymer nanocomposites. Journal of Physics and Chemistry of Solids, 2021, 157, 110191.	1.9	3
47	The interphase degradation in a nanobiosensor including biopolymers and carbon nanotubes. Sensors and Actuators A: Physical, 2021, 331, 112967.	2.0	3
48	An applicable model for the modulus of polymer halloysite nanotubes samples by the characteristics of halloysite nanotubes, interphase zone and filler/interphase network. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 628, 127330.	2.3	8
49	Percolation onset and electrical conductivity for a multiphase system containing carbon nanotubes and nanoclay. Journal of Materials Research and Technology, 2021, 15, 1777-1788.	2.6	20
50	A simple model for determining the strength of polymer halloysite nanotube systems. Composites Part B: Engineering, 2021, 227, 109411.	5.9	4
51	The strengthening efficacy of filler/interphase network in polymer halloysite nanotubes system after mechanical percolation. Journal of Materials Research and Technology, 2021, 15, 5343-5352.	2.6	16
52	A model for the tensile modulus of polymer nanocomposites assuming carbon nanotube networks and interphase zones. Acta Mechanica, 2020, 231, 35-45.	1.1	3
53	Significances of interphase conductivity and tunneling resistance on the conductivity of carbon nanotubes nanocomposites. Polymer Composites, 2020, 41, 748-756.	2.3	68
54	Simulation of Percolation Threshold, Tunneling Distance, and Conductivity for Carbon Nanotube (CNT)-Reinforced Nanocomposites Assuming Effective CNT Concentration. Polymers, 2020, 12, 114.	2.0	23

#	Article	IF	Citations
55	Effects of CNT size, network fraction, and interphase thickness on the tunneling distance between neighboring carbon nanotubes (CNTs) in nanocomposites. Journal of Industrial and Engineering Chemistry, 2020, 86, 53-60.	2.9	5
56	Modeling the effect of interfacial conductivity between polymer matrix and carbon nanotubes on the electrical conductivity of nanocomposites. RSC Advances, 2020, 10, 424-433.	1.7	5
57	Effect of conductivity transportation from carbon nanotubes (CNT) to polymer matrix surrounding CNT on the electrical conductivity of nanocomposites. Polymer Composites, 2020, 41, 1595-1604.	2.3	7
58	Role of critical interfacial shear modulus between polymer matrix and carbon nanotubes in the tensile modulus of polymer nanocomposites. Mechanics of Materials, 2020, 141, 103269.	1.7	7
59	Experimental data and modeling of electrical conductivity for polymer carbon nanotubes nanobiosensor during degradation in neutral phosphate-buffered saline (PBS). Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2020, 252, 114482.	1.7	4
60	Tensile modulus prediction of carbon nanotubes-reinforced nanocomposites by a combined model for dispersion and networking of nanoparticles. Journal of Materials Research and Technology, 2020, 9, 22-32.	2.6	58
61	Interfacial factors affecting the strengthening efficacy of nanoclay in nanocomposites. Construction and Building Materials, 2020, 260, 119868.	3.2	2
62	Polymer tunneling resistivity between adjacent carbon nanotubes (CNT) in polymer nanocomposites. Journal of Physics and Chemistry of Solids, 2020, 147, 109664.	1.9	5
63	Development of Conventional Paul Model for Tensile Modulus of Polymer Carbon Nanotube Nanocomposites After Percolation Threshold by Filler Network Density. Jom, 2020, 72, 4323-4329.	0.9	15
64	Simulation of Youngâ€™s modulus for clay-reinforced nanocomposites assuming mechanical percolation, clay-interphase networks and interfacial linkage. Journal of Materials Research and Technology, 2020, 9, 12473-12483.	2.6	25
65	Effects of critical interfacial shear strength between polymer and nanoclay on the Pukanszky's â€œBâ€• interphase factor and tensile strength of polymer nanocomposites. Mechanics of Materials, 2020, 149, 103562.	1.7	3
66	Estimation of average contact number of carbon nanotubes (CNTs) in polymer nanocomposites to optimize the electrical conductivity. Engineering With Computers, 2020, , 1.	3.5	0
67	Expression of characteristic tunneling distance to control the electrical conductivity of carbon nanotubes-reinforced nanocomposites. Journal of Materials Research and Technology, 2020, 9, 15996-16005.	2.6	11
68	Experimental data and modeling of storage and loss moduli for a biosensor based on polymer nanocomposites. Results in Physics, 2020, 19, 103537.	2.0	5
69	A simulation study for tunneling conductivity of carbon nanotubes (CNT) reinforced nanocomposites by the coefficient of conductivity transferring amongst nanoparticles and polymer medium. Results in Physics, 2020, 17, 103091.	2.0	3
70	Two-Stage Simulation of Tensile Modulus of Carbon Nanotube (CNT)-Reinforced Nanocomposites After Percolation Onset Using the Ouali Approach. Jom, 2020, 72, 3943-3951.	0.9	9
71	Modeling of interphase strength between polymer host and clay nanoparticles in nanocomposites by clay possessions and interfacial/interphase terms. Applied Clay Science, 2020, 192, 105644.	2.6	10
72	Model Progress for Tensile Power of Polymer Nanocomposites Reinforced with Carbon Nanotubes by Percolating Interphase Zone and Network Aspects. Polymers, 2020, 12, 1047.	2.0	2

#	Article	IF	Citations
73	Effects of critical interfacial shear modulus between polymer matrix and nanoclay on the effective interphase properties and tensile modulus of nanocomposites. Construction and Building Materials, 2020, 247, 118536.	3.2	12
74	Modeling the Effects of Filler Network and Interfacial Shear Strength on the Mechanical Properties of Carbon Nanotube-Reinforced Nanocomposites. Jom, 2020, 72, 2184-2190.	0.9	9
75	An overview on the synthesis and recent applications of conducting poly(3,4-ethylenedioxythiophene) (PEDOT) in industry and biomedicine. Journal of Materials Science, 2020, 55, 7575-7611.	1.7	56
76	A facile and simple approach to synthesis and characterization of methacrylated graphene oxide nanostructured polyaniline nanocomposites. Nanotechnology Reviews, 2020, 9, 53-60.	2.6	30
77	Correlation of tunneling diameter between neighboring carbon nanotubes in polymer nanocomposites to interphase depth, tunneling factors and the percentage of networked nanoparticles. Journal of Physics and Chemistry of Solids, 2020, 142, 109467.	1.9	3
78	Calculation of tunneling distance in carbon nanotubes nanocomposites: effect of carbon nanotube properties, interphase and networks. Journal of Materials Science, 2020, 55, 5471-5480.	1.7	15
79	Simulation of tensile modulus of polymer carbon nanotubes nanocomposites in the case of incomplete interfacial bonding between polymer matrix and carbon nanotubes by critical interfacial parameters. Polymer, 2020, 191, 122260.	1.8	8
80	Definition of â€œbâ€•exponent and development of power-law model for electrical conductivity of polymer carbon nanotubes nanocomposites. Results in Physics, 2020, 16, 102945.	2.0	4
81	Simulation of tunneling distance and electrical conductivity for polymer carbon nanotubes nanocomposites by interphase thickness and network density. Polymer Composites, 2020, 41, 2401-2410.	2.3	5
82	Interphase thickness and electrical conductivity of polymer carbon nanotube (CNT) nanocomposites assuming the interfacial conductivity between polymer matrix and nanoparticles. Journal of Materials Science, 2020, 55, 5402-5414.	1.7	3
83	Analysis of critical interfacial shear strength between polymer matrix and carbon nanotubes and its impact on the tensile strength of nanocomposites. Journal of Materials Research and Technology, 2020, 9, 4123-4132.	2.6	23
84	Calculation of the Electrical Conductivity of Polymer Nanocomposites Assuming the Interphase Layer Surrounding Carbon Nanotubes. Polymers, 2020, 12, 404.	2.0	26
85	Study on the Effects of the Interphase Region on the Network Properties in Polymer Carbon Nanotube Nanocomposites. Polymers, 2020, 12, 182.	2.0	21
86	Development of Expanded Takayanagi Model for Tensile Modulus of Carbon Nanotubes Reinforced Nanocomposites Assuming Interphase Regions Surrounding the Dispersed and Networked Nanoparticles. Polymers, 2020, 12, 233.	2.0	12
87	Effects of carbon nanotubes and interphase properties on the interfacial conductivity and electrical conductivity of polymer nanocomposites. Polymer International, 2020, 69, 413-422.	1.6	3
88	Effects of network, tunneling, and interphase properties on the operative tunneling resistance in polymer carbon nanotubes (<scp>CNTs</scp>) nanocomposites. Polymer Composites, 2020, 41, 2907-2916.	2.3	5
89	Effects of critical interfacial shear strength between a polymer matrix and carbon nanotubes on the interphase strength and Pukanszky's â€œBâ€•interphase parameter. RSC Advances, 2020, 10, 13573-13582.	1.7	3
90	Analysis of the Connecting Effectiveness of the Interphase Zone on the Tensile Properties of Carbon Nanotubes (CNT) Reinforced Nanocomposite. Polymers, 2020, 12, 896.	2.0	14

#	Article	IF	Citations
91	A simple and sensible equation for interphase potency in carbon nanotubes (CNT) reinforced nanocomposites. Journal of Materials Research and Technology, 2020, 9, 6488-6496.	2.6	14
92	An experimental study on one-step and two-step foaming of natural rubber/silica nanocomposites. Nanotechnology Reviews, 2020, 9, 427-435.	2.6	21
93	A highly sensitive biosensor based on methacrylated graphene oxide-grafted polyaniline for ascorbic acid determination. Nanotechnology Reviews, 2020, 9, 760-767.	2.6	43
94	Microfluidic-assisted synthesis and modelling of monodispersed magnetic nanocomposites for biomedical applications. Nanotechnology Reviews, 2020, 9, 1397-1407.	2.6	11
95	Modeling of viscosity and complex modulus for poly (lactic acid)/poly (ethylene oxide)/carbon nanotubes nanocomposites assuming yield stress and network breaking time. Composites Part B: Engineering, 2019, 156, 100-107.	5.9	66
96	Simplification and development of McLachlan model for electrical conductivity of polymer carbon nanotubes nanocomposites assuming the networking of interphase regions. Composites Part B: Engineering, 2019, 156, 64-71.	5.9	69
97	Simple model for hydrolytic degradation of poly(lactic acid)/poly(ethylene oxide)/carbon nanotubes nanobiosensor in neutral phosphateâ€buffered saline solution. Journal of Biomedical Materials Research - Part A, 2019, 107, 2706-2717.	2.1	22
98	Evaluation of the Tensile Strength in Carbon Nanotube-Reinforced Nanocomposites Using the Expanded Takayanagi Model. Jom, 2019, 71, 3980-3988.	0.9	56
99	Modeling the roles of carbon nanotubes and interphase dimensions in the conductivity of nanocomposites. Results in Physics, 2019, 15, 102562.	2.0	69
100	Following the morphological and thermal properties of PLA/PEO blends containing carbon nanotubes (CNTs) during hydrolytic degradation. Composites Part B: Engineering, 2019, 175, 107132.	5.9	78
101	Explanation of main tunneling mechanism in electrical conductivity of polymer/carbon nanotubes nanocomposites by interphase percolation. Polymer Bulletin, 2019, 76, 5717-5731.	1.7	7
102	A Simulation Work for the Influences of Aggregation/Agglomeration of Clay Layers on the Tensile Properties of Nanocomposites. Jom, 2019, 71, 3989-3995.	0.9	72
103	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
104	Effects of interphase regions and tunneling distance on the electrical conductivity of polymer carbon nanotubes nanocomposites. Carbon Letters, 2019, 29, 567-577.	3.3	3
105	The complex viscosity of polymer carbon nanotubes nanocomposites as a function of networks properties. Carbon Letters, 2019, 29, 535-545.	3.3	2
106	A developed equation for electrical conductivity of polymer carbon nanotubes (CNT) nanocomposites based on Halpin-Tsai model. Results in Physics, 2019, 14, 102406.	2.0	66
107	Degradation biosensing performance of polymer blend carbon nanotubes (CNTs) nanocomposites. Sensors and Actuators A: Physical, 2019, 295, 113-124.	2.0	13
108	Effects of interphase regions and filler networks on the viscosity of PLA/PEO/carbon nanotubes biosensor. Polymer Composites, 2019, 40, 4135-4141.	2.3	71

#	Article	IF	Citations
109	Analysis of complex viscosity and shear thinning behavior in poly (lactic acid)/poly (ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 102245.	2.0	97
110	A multistep methodology for effective conductivity of carbon nanotubes reinforced nanocomposites. Journal of Alloys and Compounds, 2019, 793, 1-8.	2.8	39
111	Prediction of loss factor (tanâ€Î) for polymer nanocomposites as a function of yield tress, relaxation time and the width of transition region between Newtonian and power-law behaviors. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 96, 136-143.	1.5	12
112	The effective conductivity of polymer carbon nanotubes (CNT) nanocomposites. Journal of Physics and Chemistry of Solids, 2019, 131, 15-21.	1.9	73
113	Expression of normal stress difference and relaxation modulus for ternary nanocomposites containing biodegradable polymers and carbon nanotubes by storage and loss modulus data. Composites Part B: Engineering, 2019, 158, 162-168.	5.9	60
114	A modeling methodology to investigate the effect of interfacial adhesion on the yield strength of MMT reinforced nanocomposites. Journal of Industrial and Engineering Chemistry, 2019, 69, 331-337.	2.9	62
115	The roles of interphase and filler dimensions in the properties of tunneling spaces between CNT in polymer nanocomposites. Polymer Composites, 2019, 40, 801-810.	2.3	64
116	Effect of â€œ<i>Z</i>â€•factor for strength of interphase layers on the tensile strength of polymer nanocomposites. Polymer Composites, 2019, 40, 1117-1122.	2.3	62
117	Variations of tunneling properties in poly (lactic acid) (PLA)/poly (ethylene oxide) (PEO)/carbon nanotubes (CNT) nanocomposites during hydrolytic degradation. Sensors and Actuators A: Physical, 2018, 274, 28-36.	2.0	68
118	A new methodology based on micromechanics model to predict the tensile modulus and network formation in polymer/CNT nanocomposites. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 550, 20-26.	2.3	7
119	Dependence of mechanical performances of polymer/carbon nanotubes nanocomposites on percolation threshold. Physica B: Condensed Matter, 2018, 533, 69-75.	1.3	72
120	A simple model for constant storage modulus of poly (lactic acid)/poly (ethylene oxide)/carbon nanotubes nanocomposites at low frequencies assuming the properties of interphase regions and networks. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 80, 164-170.	1.5	68
121	Prediction of complex modulus in phase-separated poly (lactic acid)/poly (ethylene oxide)/carbon nanotubes nanocomposites. Polymer Testing, 2018, 66, 189-194.	2.3	34
122	The percolation threshold for tensile strength of polymer/CNT nanocomposites assuming filler network and interphase regions. Materials Chemistry and Physics, 2018, 207, 76-83.	2.0	79
123	A multistep methodology based on developed Takayanagi, Paul and Ouali models for tensile modulus of polymer/carbon nanotubes nanocomposites above percolation threshold assuming the contribution of interphase regions. Polymer Testing, 2018, 69, 1-8.	2.3	18
124	Structural and phase separation characterization of poly(lactic acid)/poly(ethylene oxide)/carbon nanotube nanocomposites by rheological examinations. Composites Part B: Engineering, 2018, 144, 1-10.	5.9	70
125	A simple model for electrical conductivity of polymer carbon nanotubes nanocomposites assuming the filler properties, interphase dimension, network level, interfacial tension and tunneling distance. Composites Science and Technology, 2018, 155, 252-260.	3.8	68
126	Analysis of the roles of interphase, waviness and agglomeration of CNT in the electrical conductivity and tensile modulus of polymer/CNT nanocomposites by theoretical approaches. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 539, 29-36.	2.3	65

#	Article	IF	Citations
127	A model for tensile strength of polymer/carbon nanotubes nanocomposites assuming the percolation of interphase regions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 538, 148-154.	2.3	71
128	Roles of filler dimensions, interphase thickness, waviness, network fraction, and tunneling distance in tunneling conductivity of polymer CNT nanocomposites. Materials Chemistry and Physics, 2018, 206, 243-250.	2.0	24
129	Effects of Size and Aggregation/Agglomeration of Nanoparticles on the Interfacial/Interphase Properties and Tensile Strength of Polymer Nanocomposites. Nanoscale Research Letters, 2018, 13, 214.	3.1	335
130	A multistep methodology for calculation of the tensile modulus in polymer/carbon nanotube nanocomposites above the percolation threshold based on the modified rule of mixtures. RSC Advances, 2018, 8, 30986-30993.	1.7	70
131	Predicting the electrical conductivity in polymer carbon nanotube nanocomposites based on the volume fractions and resistances of the nanoparticle, interphase, and tunneling regions in conductive networks. RSC Advances, 2018, 8, 19001-19010.	1.7	64
132	Considering the filler network as a third phase in polymer/CNT nanocomposites to predict the tensile modulus using Hashin-Hansen model. Physica B: Condensed Matter, 2018, 541, 69-74.	1.3	8
133	Prediction of storage modulus in solid-like poly (lactic acid)/poly (ethylene oxide)/carbon nanotubes nanocomposites assuming the contributions of nanoparticles and interphase regions in the networks. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 86, 368-374.	1.5	28
134	Estimation of the tensile modulus of polymer carbon nanotube nanocomposites containing filler networks and interphase regions by development of the Kolarik model. RSC Advances, 2018, 8, 23825-23834.	1.7	33
135	A power model to predict the electrical conductivity of CNT reinforced nanocomposites by considering interphase, networks and tunneling condition. Composites Part B: Engineering, 2018, 155, 11-18.	5.9	67
136	Development of Hashin-Shtrikman model to determine the roles and properties of interphases in clay/CaCO3/PP ternary nanocomposite. Applied Clay Science, 2017, 137, 176-182.	2.6	70
137	Evaluation of nanoparticle dispersion and its influence on the tensile modulus of polymer nanocomposites by a modeling method. Colloid and Polymer Science, 2017, 295, 363-369.	1.0	12
138	Accounting the reinforcing efficiency and percolating role of interphase regions in tensile modulus of polymer/CNT nanocomposites. European Polymer Journal, 2017, 87, 389-397.	2.6	72
139	Dependence of Z Parameter for Tensile Strength of Multi-Layered Interphase in Polymer Nanocomposites to Material and Interphase Properties. Nanoscale Research Letters, 2017, 12, 42.	3.1	72
140	Influences of nanoparticles aggregation/agglomeration on the interfacial/interphase and tensile properties of nanocomposites. Composites Part B: Engineering, 2017, 122, 41-46.	5.9	174
141	Predictions of Takayanagi model for tensile modulus of polymer/CNT nanocomposites by properties of nanoparticles and filler network. Colloid and Polymer Science, 2017, 295, 1039-1047.	1.0	2
142	Effects of pseudoinclusions containing intercalated Mt platelets on the tensile modulus and strength of Mt/polymer nanocomposites. Applied Clay Science, 2017, 143, 408-414.	2.6	0
143	Development of a conventional model to predict the electrical conductivity of polymer/carbon nanotubes nanocomposites by interphase, waviness and contact effects. Composites Part A: Applied Science and Manufacturing, 2017, 100, 305-312.	3.8	80
144	Efficiency of stress transfer between polymer matrix and nanoplatelets in clay/polymer nanocomposites. Applied Clay Science, 2017, 143, 265-272.	2.6	65

#	Article	IF	Citations
145	Tensile modulus of polymer/CNT nanocomposites by effective volume fraction of nanoparticles as a function of CNT properties in the network. Polymers for Advanced Technologies, 2017, 28, 1448-1452.	1.6	5
146	The mechanical behavior of CNT reinforced nanocomposites assuming imperfect interfacial bonding between matrix and nanoparticles and percolation of interphase regions. Composites Science and Technology, 2017, 144, 18-25.	3.8	76
147	Prediction of tensile modulus in polymer nanocomposites containing carbon nanotubes (CNT) above percolation threshold by modification of conventional model. Current Applied Physics, 2017, 17, 873-879.	1.1	52
148	A two-step model for the tunneling conductivity of polymer carbon nanotube nanocomposites assuming the conduction of interphase regions. RSC Advances, 2017, 7, 50225-50233.	1.7	70
149	Mathematical Simplification of the Tandonâ€"Weng Approach to the Moriâ€"Tanaka Model for Estimating the Youngâ€™s Modulus of Clay/Polymer Nanocomposites. Jom, 2017, 69, 2819-2824.	0.9	4
150	Predictions of micromechanics models for interfacial/interphase parameters in polymer/metal nanocomposites. International Journal of Adhesion and Adhesives, 2017, 79, 111-116.	1.4	54
151	The reinforcing and characteristics of interphase as the polymer chains adsorbed on the nanoparticles in polymer nanocomposites. Colloid and Polymer Science, 2017, 295, 2001-2010.	1.0	11
152	A two-step technique for tensile strength of montmorillonite/polymer nanocomposites assuming filler morphology and interphase properties. Applied Clay Science, 2017, 150, 42-46.	2.6	13
153	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. Journal of Colloid and Interface Science, 2017, 506, 283-290.	5.0	67
154	Theoretical characterization of interphase properties in polymer nanocomposites. Colloid and Polymer Science, 2017, 295, 1535-1540.	1.0	2
155	A simple methodology to predict the tunneling conductivity of polymer/CNT nanocomposites by the roles of tunneling distance, interphase and CNT waviness. RSC Advances, 2017, 7, 34912-34921.	1.7	68
156	Development of a Model for Electrical Conductivity of Polymer/Graphene Nanocomposites Assuming Interphase and Tunneling Regions in Conductive Networks. Industrial & Engineering Chemistry Research, 2017, 56, 9107-9115.	1.8	65
157	Multistep modeling of Youngâ€™s modulus in polymer/clay nanocomposites assuming the intercalation/exfoliation of clay layers and the interphase between polymer matrix and nanoparticles. Composites Part A: Applied Science and Manufacturing, 2017, 102, 137-144.	3.8	65
158	Expansion of Kolarik model for tensile strength of polymer particulate nanocomposites as a function of matrix, nanoparticles and interphase properties. Journal of Colloid and Interface Science, 2017, 506, 582-588.	5.0	13
159	Evaluation of Mechanical Properties in Nanocomposites Containing Carbon Nanotubes Below and Above Percolation Threshold. Jom, 2017, 69, 2762-2767.	0.9	6
160	An approach to study the roles of percolation threshold and interphase in tensile modulus of polymer/clay nanocomposites. Journal of Colloid and Interface Science, 2017, 486, 249-254.	5.0	73
161	A Two-Step Methodology to Study the Influence of Aggregation/Agglomeration of Nanoparticles on Youngâ€™s Modulus of Polymer Nanocomposites. Nanoscale Research Letters, 2017, 12, 621.	3.1	67
162	A Twoâ€Step Method Based on Micromechanical Models to Predict the Young's Modulus of Polymer Nanocomposites. Macromolecular Materials and Engineering, 2016, 301, 846-852.	1.7	37

#	Article	IF	Citations
163	Development of cubic orthogonal skeleton or three perpendicular plates system for prediction of Youngâ€™s modulus in polymer nanocomposites assuming the interphase. Colloid and Polymer Science, 2016, 294, 2071-2078.	1.0	8
164	Shear, Bulk, and Youngâ€™s Moduli of Clay/Polymer Nanocomposites Containing the Stacks of Intercalated Layers as Pseudoparticles. Nanoscale Research Letters, 2016, 11, 479.	3.1	15
165	Effects of imperfect interfacial adhesion between polymer and nanoparticles on the tensile modulus of clay/polymer nanocomposites. Applied Clay Science, 2016, 129, 65-70.	2.6	72
166	Simple expressions of bulk and shear moduli of polymer/clay nanocomposites by Tandonâ€“Weng approach assuming 3D randomly oriented platelets. Journal of Reinforced Plastics and Composites, 2016, 35, 1318-1326.	1.6	1
167	The roles of nanoparticles accumulation and interphase properties in properties of polymer particulate nanocomposites by a multi-step methodology. Composites Part A: Applied Science and Manufacturing, 2016, 91, 127-132.	3.8	70
168	A model for tensile strength of polymer/clay nanocomposites assuming complete and incomplete interfacial adhesion between the polymer matrix and nanoparticles by the average normal stress in clay platelets. RSC Advances, 2016, 6, 57969-57976.	1.7	74
169	Development of Nicolaisâ€“Narkis model for yield strength of polymer nanocomposites reinforced with spherical nanoparticles. International Journal of Adhesion and Adhesives, 2016, 70, 191-195.	1.4	41
170	Modeling the yield strength of polymer nanocomposites based upon nanoparticle agglomeration and polymerâ€“filler interphase. Journal of Colloid and Interface Science, 2016, 467, 165-169.	5.0	69
171	Polymer/metal nanocomposites for biomedical applications. Materials Science and Engineering C, 2016, 60, 195-203.	3.8	202
172	Modeling the strength and thickness of the interphase in polymer nanocomposite reinforced with spherical nanoparticles by a coupling methodology. Journal of Colloid and Interface Science, 2016, 465, 342-346.	5.0	61
173	Development of Halpin-Tsai model for polymer nanocomposites assuming interphase properties and nanofiller size. Polymer Testing, 2016, 51, 69-73.	2.3	85
174	Modeling approach for tensile strength of interphase layers in polymer nanocomposites. Journal of Colloid and Interface Science, 2016, 471, 89-93.	5.0	72
175	Study of nanoparticles aggregation/agglomeration in polymer particulate nanocomposites by mechanical properties. Composites Part A: Applied Science and Manufacturing, 2016, 84, 158-164.	3.8	297
176	â€œ a â€•interfacial parameter in Nicolaisâ€“Narkis model for yield strength of polymer particulate nanocomposites as a function of material and interphase properties. Journal of Colloid and Interface Science, 2016, 470, 245-249.	5.0	73
177	Study on interfacial properties in polymer blend ternary nanocomposites: Role of nanofiller content. Computational Materials Science, 2016, 111, 334-338.	1.4	67
178	Assumption of interphase properties in classical Christensenâ€“Lo model for Young's modulus of polymer nanocomposites reinforced with spherical nanoparticles. RSC Advances, 2015, 5, 95532-95538.	1.7	75
179	Thickness, modulus and strength of interphase in clay/polymer nanocomposites. Applied Clay Science, 2015, 105-106, 66-70.	2.6	80
180	New models for yield strength of polymer/clay nanocomposites. Composites Part B: Engineering, 2015, 73, 111-117.	5.9	62

#	Article	IF	Citations
181	Modeling of tensile modulus in polymer/carbon nanotubes (CNT) nanocomposites. Synthetic Metals, 2015, 202, 68-72.	2.1	61
182	A developed model to assume the interphase properties in a ternary polymer nanocomposite reinforced with two nanofillers. Composites Part B: Engineering, 2015, 75, 29-35.	5.9	76
183	Effects of interphase on tensile strength of polymer/CNT nanocomposites by Kellyâ€“Tyson theory. Mechanics of Materials, 2015, 85, 1-6.	1.7	128
184	Estimation of material and interfacial/interphase properties in clay/polymer nanocomposites by yield strength data. Applied Clay Science, 2015, 115, 61-66.	2.6	61
185	A simple technique for determination of interphase properties in polymer nanocomposites reinforced with spherical nanoparticles. Polymer, 2015, 72, 93-97.	1.8	67
186	Nanoparticles as Effective Flame Retardants for Natural and Synthetic Textile Polymers: Application, Mechanism, and Optimization. Polymer Reviews, 2015, 55, 531-560.	5.3	116
187	An analysis of interfacial adhesion in nanocomposites from recycled polymers. Computational Materials Science, 2014, 81, 612-616.	1.4	65
188	Determination of polymerâ€“nanoparticles interfacial adhesion and its role in shape memory behavior of shape memory polymer nanocomposites. International Journal of Adhesion and Adhesives, 2014, 54, 67-71.	1.4	61
189	Attempts to Simulate the Modulus of Polymer/Carbon Nanotube Nanocomposites and Future Trends. Polymer Reviews, 2014, 54, 377-400.	5.3	61
190	Modeling of interfacial bonding between two nanofillers (montmorillonite and CaCO3) and a polymer matrix (PP) in a ternary polymer nanocomposite. Applied Surface Science, 2014, 321, 219-225.	3.1	69
191	Recent progress on preparation and properties of nanocomposites from recycled polymers: A review. Waste Management, 2013, 33, 598-604.	3.7	124
192	Analysis of tensile modulus of PP/nanoclay/CaCO₃ ternary nanocomposite using composite theories. Journal of Applied Polymer Science, 2012, 123, 2309-2319.	1.3	68
193	Nonisothermal crystallization and melting behavior of PP/nanoclay/CaCO₃ ternary nanocomposite. Journal of Applied Polymer Science, 2012, 124, 1225-1233.	1.3	64
194	Optimization of mechanical properties of PP/Nanoclay/CaCO₃ ternary nanocomposite using response surface methodology. Journal of Applied Polymer Science, 2011, 122, 3188-3200.	1.3	86
195	Advanced Kolarik model for the modulus of a nanocomposite system reinforced by halloysite nanotubes and interphase zone. Polymer Composites, 0, , .	2.3	0
196	The least length of halloysite nanotubes allowing the operative stress shifting via imperfect interphase after percolation onset for the strength of nanocomposites applicable in the biomedical products. Polymer Composites, 0, , .	2.3	0
197	Progression of <scp>O</scp> uali model by the strengthening and percolating efficacies of interphase for polymer halloysite nanotubes composites applicable in the biomedical products. Polymer Composites, 0, , .	2.3	0