Kyong Yop Rhee

List of Publications by Year
in descending order

248 papers	10,403 citations	22099 59 h-index	42291 92 g-index
249 all docs	249 docs citations	249 times ranked	9325 citing authors

#	Article	IF	Citations
1	A review on carbon nanotubes and graphene as fillers in reinforced polymer nanocomposites. Journal of Industrial and Engineering Chemistry, 2015, 21, 11-25.	2.9	1,143
2	Epoxy clay nanocomposites â€“ processing, properties and applications: A review. Composites Part B: Engineering, 2013, 45, 308-320.	5.9	548
3	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
4	Reinforcements in multi-scale polymer composites: Processing, properties, and applications. Composites Part B: Engineering, 2018, 138, 122-139.	5.9	232
5	A Comprehensive Review of Graphene Nanocomposites: Research Status and Trends. Journal of Nanomaterials, 2013, 2013, 1-14.	1.5	190
6	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
7	Influence of dispersing medium on grafting of aminopropyltriethoxysilane in swelling clay materials. Journal of Colloid and Interface Science, 2006, 298, 854-859.	5.0	173
8	Bioactive hydroxyapatite/graphene composite coating and its corrosion stability in simulated body fluid. Journal of Alloys and Compounds, 2015, 624, 148-157.	2.8	167
9	Synthesis and characterization of graphene oxide/carboxymethylcellulose/alginate composite blend films. Carbohydrate Polymers, 2014, 110, 18-25.	5.1	158
10	A Review of Conductive Metal Nanomaterials as Conductive, Transparent, and Flexible Coatings, Thin Films, and Conductive Fillers: Different Deposition Methods and Applications. Coatings, 2018, 8, 278.	1.2	158
11	Properties of polyethylene-layered silicate nanocomposites prepared by melt intercalation with a PP-g-MA compatibilizer. Composites Science and Technology, 2005, 65, 1996-2002.	3.8	149
12	Cuscuta reflexa leaf extract mediated green synthesis of the Cu nanoparticles on graphene oxide/manganese dioxide nanocomposite and its catalytic activity toward reduction of nitroarenes and organic dyes. Journal of the Taiwan Institute of Chemical Engineers, 2018, 86, 158-173.	2.7	138
13	Electrochemical study of corrosion behavior of graphene coatings on copper and aluminum in a chloride solution. Carbon, 2014, 75, 335-344.	5.4	134
14	Mechanical properties of Fe3O4/GO/chitosan composites. Composites Part B: Engineering, 2014, 66, 89-96.	5.9	129
15	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
16	Graphene-based antibacterial composite coatings electrodeposited on titanium for biomedical applications. Progress in Organic Coatings, 2015, 83, 1-10.	1.9	108
17	Thermal characterization of erythritol/expanded graphite composites for high thermal storage capacity. Carbon, 2014, 68, 67-72.	5.4	105
18	Analysis of complex viscosity and shear thinning behavior in poly (lactic acid)/poly (ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td 102245.	2.0	97

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19	Silane modification of carbon nanotubes and its effects on the material properties of carbon/CNT/epoxy three-phase composites. Composites Part A: Applied Science and Manufacturing, 2011, 42, 478-483.	3.8	92
20	Physicoâ€“chemical and mechanical properties and antibacterial activity of silver/poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 T Engineering, 2016, 85, 102-112.	5.9	83
21	Cryomilling application of graphene to improve material properties of graphene/chitosan nanocomposites. Composites Part B: Engineering, 2013, 45, 682-687.	5.9	79
22	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
23	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
24	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
25	Study on the Effect of Silanization and Improvement in the Tensile Behavior of Graphene-Chitosan-Composite. Polymers, 2015, 7, 527-551.	2.0	73
26	The effective conductivity of polymer carbon nanotubes (CNT) nanocomposites. Journal of Physics and Chemistry of Solids, 2019, 131, 15-21.	1.9	73
27	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
28	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
29	Dependence of mechanical performances of polymer/carbon nanotubes nanocomposites on percolation threshold. Physica B: Condensed Matter, 2018, 533, 69-75.	1.3	72
30	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
31	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
32	A comprehensive review on the prospects of multi-functional carbon nano onions as an effective, high- performance energy storage material. Carbon, 2021, 175, 534-575.	5.4	72
33	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
34	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
35	Electrophoretic Deposition of Graphene Oxide on Aluminum: Characterization, Low Thermal Annealing, Surface and Anticorrosive Properties. Bulletin of the Chemical Society of Japan, 2015, 88, 722-728.	2.0	70
36	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

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37	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
38	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
39	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
40	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
41	Modeling the roles of carbon nanotubes and interphase dimensions in the conductivity of nanocomposites. Results in Physics, 2019, 15, 102562.	2.0	69
42	Biosensing Applications of Polyaniline (PANI)-Based Nanocomposites: A Review. Polymer Reviews, 2021, 61, 553-597.	5.3	69
43	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
44	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
45	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
46	Tuning the work function of graphene toward application as anode and cathode. Journal of Alloys and Compounds, 2019, 805, 1117-1134.	2.8	68
47	Significances of interphase conductivity and tunneling resistance on the conductivity of carbon nanotubes nanocomposites. Polymer Composites, 2020, 41, 748-756.	2.3	68
48	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
49	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
50	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
51	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
52	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
53	Efficiency of stress transfer between polymer matrix and nanoplatelets in clay/polymer nanocomposites. Applied Clay Science, 2017, 143, 265-272.	2.6	65
54	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

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55	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
56	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
57	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
58	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
59	A catalytic, catalyst-free, and roll-to-roll production of graphene via chemical vapor deposition: Low temperature growth. Carbon, 2018, 127, 1-12.	5.4	62
60	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
61	Effect of â€œZâ€•factor for strength of interphase layers on the tensile strength of polymer nanocomposites. Polymer Composites, 2019, 40, 1117-1122.	2.3	62
62	Generation of the pores on graphene surface and their reinforcement effects on the thermal and mechanical properties of chitosan-based composites. Composites Part B: Engineering, 2017, 114, 348-355.	5.9	60
63	Chemical vapor deposition-based grafting of CNTs onto basalt fabric and their reinforcement in epoxy-based composites. Composites Science and Technology, 2018, 165, 84-94.	3.8	60
64	Silver/poly(vinyl alcohol)/chitosan/graphene hydrogels â€“ Synthesis, biological and physicochemical properties and silver release kinetics. Composites Part B: Engineering, 2018, 154, 175-185.	5.9	60
65	Effect of hydrophilic graphite flake on thermal conductivity and fracture toughness of basalt fibers/epoxy composites. Composites Part B: Engineering, 2018, 153, 9-16.	5.9	60
66	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
67	Chitosan-based hydrogel wound dressings with electrochemically incorporated silver nanoparticles â€“ In vitro study. European Polymer Journal, 2019, 121, 109257.	2.6	59
68	Gentamicin-Loaded Bioactive Hydroxyapatite/Chitosan Composite Coating Electrodeposited on Titanium. ACS Biomaterials Science and Engineering, 2018, 4, 3994-4007.	2.6	58
69	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
70	The effect of graphene loading on mechanical, thermal and biological properties of poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142	2.9	56
71	Evaluation of the Tensile Strength in Carbon Nanotube-Reinforced Nanocomposites Using the Expanded Takayanagi Model. Jom, 2019, 71, 3980-3988.	0.9	56
72	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

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73	Influence of seawater absorption on the vibration damping characteristics and fracture behaviors of basalt/CNT/epoxy multiscale composites. Composites Part B: Engineering, 2014, 63, 61-66.	5.9	54
74	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
75	Influence of reduced graphene oxide on mechanical behaviors of sodium carboxymethyl cellulose. Composites Part B: Engineering, 2015, 83, 36-42.	5.9	53
76	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
77	Polyhydroxyalkanoates (PHAs): Biopolymers for Biofuel and Biorefineries. Polymers, 2021, 13, 253.	2.0	52
78	Reversible wettability conversion of electrodeposited graphene oxide/titania nanocomposite coating: Investigation of surface structures. Applied Surface Science, 2016, 368, 409-416.	3.1	50
79	Super paramagnetic ZIF-67 metal organic framework nanocomposite. Composites Part B: Engineering, 2019, 158, 384-389.	5.9	48
80	In vitro investigation of electrophoretically deposited bioactive hydroxyapatite/chitosan coatings reinforced by graphene. Journal of Industrial and Engineering Chemistry, 2017, 47, 336-347.	2.9	45
81	Corrosion inhibition potential of chitosan based Schiff bases: Design, performance and applications. International Journal of Biological Macromolecules, 2021, 184, 135-143.	3.6	43
82	A highly sensitive biosensor based on methacrylated graphene oxide-grafted polyaniline for ascorbic acid determination. Nanotechnology Reviews, 2020, 9, 760-767.	2.6	43
83	In situ electrochemical synthesis of silver-doped poly(vinyl alcohol)/graphene composite hydrogels and their physico-chemical and thermal properties. Composites Part B: Engineering, 2018, 140, 99-107.	5.9	42
84	The effect of carbon nanotube agglomeration on the thermal and mechanical properties of polyethylene oxide. Polymer Composites, 2008, 29, 809-817.	2.3	41
85	Processing and characterization of PMMA/PI composites reinforced with surface functionalized hexagonal boron nitride. Applied Surface Science, 2017, 415, 49-54.	3.1	39
86	A multistep methodology for effective conductivity of carbon nanotubes reinforced nanocomposites. Journal of Alloys and Compounds, 2019, 793, 1-8.	2.8	39
87	Investigation of seawater effects on the mechanical properties of untreated and treated MMT-based glass fiber/vinylester composites. Ocean Engineering, 2015, 108, 393-401.	1.9	37
88	Effects of ozonized carbon black on fracture and post-cracking toughness of carbon fiber-reinforced epoxy composites. Composites Part B: Engineering, 2019, 177, 107379.	5.9	37
89	Graphene family, and their hybrid structures for electromagnetic interference shielding applications: Recent trends and prospects. Journal of Alloys and Compounds, 2022, 900, 163176.	2.8	35
90	Fracture performance of clay/epoxy nanocomposites with clay surface-modified using 3-aminopropyltriethoxysilane. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 313-314, 112-115.	2.3	34

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91	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
92	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
93	Wear properties of 3â€aminopropyltriethoxysilaneâ€functionalized carbon nanotubes reinforced ultra high molecular weight polyethylene nanocomposites. Polymer Engineering and Science, 2010, 50, 1433-1439.	1.5	32
94	Graphene Nanoplatelet-Reinforced Poly(vinylidene fluoride)/High Density Polyethylene Blend-Based Nanocomposites with Enhanced Thermal and Electrical Properties. Nanomaterials, 2019, 9, 361.	1.9	32
95	Surface modification of MMT and its effect on fatigue and fracture behavior of basalt/epoxy based composites in a seawater environment. Applied Surface Science, 2019, 473, 55-58.	3.1	31
96	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
97	Assessing the Bioactivity of Gentamicin-Preloaded Hydroxyapatite/Chitosan Composite Coating on Titanium Substrate. ACS Omega, 2020, 5, 15433-15445.	1.6	29
98	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
99	Nanostructured multifunctional electrocatalysts for efficient energy conversion systems: Recent perspectives. Nanotechnology Reviews, 2021, 10, 137-157.	2.6	28
100	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
101	Atmospheric chemical vapor deposition of graphene on molybdenum foil at different growth temperatures. Carbon Letters, 2016, 18, 37-42.	3.3	27
102	Calculation of the Electrical Conductivity of Polymer Nanocomposites Assuming the Interphase Layer Surrounding Carbon Nanotubes. Polymers, 2020, 12, 404.	2.0	26
103	Altering the structure and properties of iron oxide nanoparticles and graphene oxide/iron oxide composites by urea. Applied Surface Science, 2016, 364, 686-693.	3.1	25
104	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
105	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
106	Investigation of corrosion behaviour of carbon nanotubes coated basalt fabric as a reinforcement material. Composites Part B: Engineering, 2019, 178, 107493.	5.9	24
107	Osteogenesis capability of three-dimensionally printed poly(lactic acid)-halloysite nanotube scaffolds containing strontium ranelate. Nanotechnology Reviews, 2022, 11, 1901-1910.	2.6	24
108	Chemical vapour deposition at atmospheric pressure of graphene on molybdenum foil: Effect of annealing time on characteristics and corrosion stability of graphene coatings. Corrosion Science, 2016, 113, 116-125.	3.0	23

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109	Kinetic models of swelling and thermal stability of silver/poly(vinyl alcohol)/chitosan/graphene hydrogels. Journal of Industrial and Engineering Chemistry, 2019, 77, 83-96.	2.9	23
110	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
111	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
112	Comprehensive electrochemical study on corrosion performance of graphene coatings deposited by chemical vapour deposition at atmospheric pressure on platinum-coated molybdenum foil. Corrosion Science, 2018, 130, 31-44.	3.0	22
113	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
114	Effect of Triblock Copolymer on Carbon-Based Boron Nitride Whiskers for Efficient CO2 Adsorption. Polymers, 2019, 11, 913.	2.0	22
115	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
116	Hierarchical structures of CNT@basalt fabric for tribological and electrical applications: Impact of growth temperature and time during synthesis. Composites Part A: Applied Science and Manufacturing, 2018, 115, 8-21.	3.8	21
117	Study on the Effects of the Interphase Region on the Network Properties in Polymer Carbon Nanotube Nanocomposites. Polymers, 2020, 12, 182.	2.0	21
118	An experimental study on one-step and two-step foaming of natural rubber/silica nanocomposites. Nanotechnology Reviews, 2020, 9, 427-435.	2.6	21
119	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
120	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
121	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
122	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
123	Enhanced isosteric heat of adsorption and gravimetric storage density of hydrogen in GNP incorporated Cu based core-shell metal-organic framework. International Journal of Hydrogen Energy, 2020, 45, 33818-33831.	3.8	18
124	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
125	The Effects of Cryomilling CNTs on the Thermal and Electrical Properties of CNT/PMMA Composites. Polymers, 2016, 8, 169.	2.0	17
126	Synthesis and comparison of different spinel ferrites and their catalytic activity during chemical vapor deposition of polymorphic nanocarbons. International Journal of Precision Engineering and Manufacturing - Green Technology, 2017, 4, 441-451.	2.7	17

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127	Electrochemical synthesis of nanosized hydroxyapatite/graphene composite powder. Carbon Letters, 2015, 16, 233-240.	3.3	17
128	The E.T.PACK project: Towards a fully passive and consumable-less deorbit kit based on low-work-function tether technology. Acta Astronautica, 2020, 177, 821-827.	1.7	16
129	Advances in layered double hydroxide-based ternary nanocomposites for photocatalysis of contaminants in water. Nanotechnology Reviews, 2020, 9, 1381-1396.	2.6	16
130	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
131	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
132	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
133	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
134	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
135	Electrophoretic deposition of graphene on basalt fiber for composite applications. Nanotechnology Reviews, 2021, 10, 158-165.	2.6	15
136	Electronic and Thermal Properties of Graphene. Nanomaterials, 2020, 10, 926.	1.9	14
137	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
138	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
139	Facile, soot free approach toward synthesis of carbon nanoropes via chemical vapor deposition of acetylene in the presence of MnFe2O4 coated on stainless steel. Applied Surface Science, 2015, 359, 797-804.	3.1	13
140	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
141	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
142	Electrochemical Synthesis and Characterization of Silver Doped Poly(vinyl alcohol)/Chitosan Hydrogels. Corrosion, 2017, 73, 1437-1447.	0.5	13
143	Transfer-free chemical vapor deposition of graphene on silicon substrate at atmospheric pressure: A sacrificial catalyst. Thin Solid Films, 2018, 657, 55-60.	0.8	13
144	Degradation biosensing performance of polymer blend carbon nanotubes (CNTs) nanocomposites. Sensors and Actuators A: Physical, 2019, 295, 113-124.	2.0	13

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145	Synergistic Tribo-Activity of Nanohybrids of Zirconia/Cerium-Doped Zirconia Nanoparticles with Nano Lamellar Reduced Graphene Oxide and Molybdenum Disulfide. Nanomaterials, 2020, 10, 707.	1.9	13
146	A study on interfacial behaviors of epoxy/graphene oxide derived from pitch-based graphite fibers. Nanotechnology Reviews, 2021, 10, 1827-1837.	2.6	13
147	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
148	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
149	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
150	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
151	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
152	Microfluidic-assisted synthesis and modelling of monodispersed magnetic nanocomposites for biomedical applications. Nanotechnology Reviews, 2020, 9, 1397-1407.	2.6	11
153	Reviewâ€"A Review of the Corrosion Behaviour of Graphene Coatings on Metal Surfaces Obtained by Chemical Vapour Deposition. Journal of the Electrochemical Society, 2022, 169, 021505.	1.3	11
154	Fabrication of Modified MMT/Glass/Vinylester Multiscale Composites and Their Mechanical Properties. Journal of Nanomaterials, 2015, 2015, 1-9.	1.5	10
155	Modeling of tensile strength in polymer particulate nanocomposites based on material and interphase properties. Journal of Applied Polymer Science, 2017, 134, .	1.3	10
156	Engineering the electrical and optical properties of graphene oxide via simultaneous alkali metal doping and thermal annealing. Journal of Materials Research and Technology, 2020, 9, 15824-15837.	2.6	10
157	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
158	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
159	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
160	Effect of silane modified smectite clay on the hydration, intercalation of PCE superplasticizers, and mechanical strength of cement composites. Cement and Concrete Composites, 2021, 123, 104210.	4.6	10
161	Carbon nanospheres synthesized via solution combustion method: their application as an anode material and catalyst for hydrogen production. Carbon Letters, 2014, 15, 198-202.	3.3	10
162	Detection of microfracture processes in composite laminates by thermo-acoustic emission. Journal of Materials Science, 2003, 38, 1013-1019.	1.7	9

#	Article	IF	Citations
163	Physical origin of residual thermal stresses in a multilayer ceramic capacitor. Journal of Applied Physics, 2007, 101, 063527.	1.1	9
164	The effect of cesium dopant on APCVD graphene coating on copper. Journal of Materials Research and Technology, 2020, 9, 9798-9812.	2.6	9
165	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
166	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
167	Simulation of tensile strength for halloysite nanotubes/polymer composites. Applied Clay Science, 2021, 205, 106055.	2.6	9
168	Facile fabrication of Poly(vinyl alcohol)/Silica composites for removal of Hg(II) from water. Macromolecular Research, 2015, 23, 21-29.	1.0	8
169	Oxidation resistance of graphene-coated molybdenum: Effects of pre-washing and hydrogen flow rate. International Journal of Refractory Metals and Hard Materials, 2017, 65, 29-33.	1.7	8
170	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
171	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
172	The chitosan-based bioactive composite coating on titanium. Journal of Materials Research and Technology, 2021, 15, 4461-4474.	2.6	8
173	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
174	Surface treatment of CFRP composites by Ar+ irradiation to improve bonding strength between aluminum and CFRP composites. Polymer Composites, 2002, 23, 1151-1161.	2.3	7
175	Synthesis, characterization, and KOH activation of nanoporous carbon for increasing CO2 adsorption capacity. Research on Chemical Intermediates, 2014, 40, 2535-2542.	1.3	7
176	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
177	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
178	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
179	Poly(vinyl alcohol)/chitosan hydrogels with electrochemically synthesized silver nanoparticles for wound dressing applications. Journal of Electrochemical Science and Engineering, 2020, 10, 185-198.	1.6	7
180	Delamination characteristics of multi-directional carbon fiber/epoxy composites under high pressure. Polymer Composites, 2001, 22, 793-802.	2.3	6

#	Article	IF	Citations
181	Fatigue behavior characterization of laser-welded cold rolled sheet metal (SPCEN). Journal of Materials Science, 2002, 37, 1019-1025.	1.7	6
182	Deflection criterion of a crack approaching a bi-material interface obliquely. Archive of Applied Mechanics, 2008, 78, 811-819.	1.2	6
183	Synthesis of lithiumâ€“graphite nanotubes â€“ An in-situ CVD approach using organo-lithium as a precursor in the presence of copper. Current Applied Physics, 2015, 15, 265-273.	1.1	6
184	Evaluation of Mechanical Properties in Nanocomposites Containing Carbon Nanotubes Below and Above Percolation Threshold. Jom, 2017, 69, 2762-2767.	0.9	6
185	Effect of interfacial/interphase conductivity on the electrical conductivity of polymer carbon nanotubes nanocomposites. Engineering With Computers, 2022, 38, 315-324.	3.5	6
186	Acrylic Pressure-Sensitive Adhesive Reinforced with Aluminum Nitride and Its Thermal Properties: Effect of Surface Treatment and Particle Size. Coatings, 2020, 10, 188.	1.2	6
187	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
188	Effect of Atmospheric-Pressure Plasma Treatments on Fracture Toughness of Carbon Fibers-Reinforced Composites. Molecules, 2021, 26, 3698.	1.7	6
189	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
190	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
191	An experimental investigation on the conductive behavior of carbon nanotube-reinforced natural polymer nanocomposites. Research on Chemical Intermediates, 2014, 40, 2487-2493.	1.3	5
192	Effect of urethane functionality and number of epoxide groups on cure and mechanical behaviors of epoxy resins. Macromolecular Research, 2015, 23, 134-138.	1.0	5
193	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
194	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
195	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
196	Polymer tunneling resistivity between adjacent carbon nanotubes (CNT) in polymer nanocomposites. Journal of Physics and Chemistry of Solids, 2020, 147, 109664.	1.9	5
197	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
198	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

#	Article	IF	Citations
199	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
200	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
201	Facile Preparation and Characterization of Carbon Fibers with Core-Shell Structure from Graphene-Dispersed Isotropic Pitch Compounds. Nanomaterials, 2019, 9, 521.	1.9	4
202	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
203	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
204	Tensile modulus of clayâ€reinforced system supposing the interphase effectiveness for load transferring. Polymer Composites, 2021, 42, 5465.	2.3	4
205	Roles of Small Polyetherimide Moieties on Thermal Stability and Fracture Toughness of Epoxy Blends. Polymers, 2021, 13, 3310.	2.0	4
206	Reduced graphene oxide coating on basalt fabric using electrophoretic deposition and its role in the mechanical and tribological performance of epoxy/basalt fiber composites. Nanotechnology Reviews, 2021, 10, 1383-1394.	2.6	4
207	A simple model for determining the strength of polymer halloysite nanotube systems. Composites Part B: Engineering, 2021, 227, 109411.	5.9	4
208	Simple models for tensile modulus of shape memory polymer nanocomposites at ambient temperature. Nanotechnology Reviews, 2022, 11, 874-882.	2.6	4
209	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
210	Influence of KMnO4 oxidation on the electrochemical performance of pitch-based activated carbons. Research on Chemical Intermediates, 2014, 40, 2527-2534.	1.3	3
211	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
212	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
213	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
214	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
215	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
216	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

#	Article	IF	Citations
217	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
218	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
219	Trade-off analysis of C12A7:eâ˜ deposition techniques applied to Low Work Function Tethers. Acta Astronautica, 2020, 177, 806-812.	1.7	3
220	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
221	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
222	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
223	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
224	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
225	Intelligent modeling and optimization of titanium surface etching for dental implant application. Scientific Reports, 2022, 12, 7184.	1.6	3
226	Penetration direction of a crack terminating at a bi-material interface obliquely. Meccanica, 2009, 44, 449-455.	1.2	2
227	Shape-Dependent Magnetic Properties and Phase Transformation of Annealed Iron Oxide Nanoparticles. Jom, 2017, 69, 1415-1421.	0.9	2
228	The complex viscosity of polymer carbon nanotubes nanocomposites as a function of networks properties. Carbon Letters, 2019, 29, 535-545.	3.3	2
229	Interfacial factors affecting the strengthening efficacy of nanoclay in nanocomposites. Construction and Building Materials, 2020, 260, 119868.	3.2	2
230	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
231	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
232	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
233	INFLUENCE OF DEAGGLOMERATION STATES OF CARBON NANOTUBES ON THE THERMAL AND MECHANICAL PROPERTIES OF CARBON NANOTUBE-REINFORCED POLYETHYLENE OXIDE. International Journal of Nanoscience, 2009, 08, 23-27.	0.4	1
234	Development of Ji Micromechanics Model for Electrical Conductivity of Carbon Nanotubes-reinforced Samples. Fibers and Polymers, 2021, 22, 1889-1898.	1.1	1

#	Article	IF	Citations
235	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
236	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
237	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
238	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
239	Interfacial stress transfer factor and tensile strength of polymer halloysite nanotubes systems. Polymer Composites, 2022, 43, 2064-2072.	2.3	1
240	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
241	Tensile Modulus of Polymer Halloysite Nanotube Systems Containing Fillerâ€“Interphase Networks for Biomedical Requests. Materials, 2022, 15, 4715.	1.3	1
242	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
243	Development and simplification of a micromechanic model for conductivity of carbon nanotubes-reinforced nanocomposites. Journal of Polymer Research, 2021, 28, 1.	1.2	0
244	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
245	Advanced Kolarik model for the modulus of a nanocomposite system reinforced by halloysite nanotubes and interphase zone. Polymer Composites, 0, , .	2.3	0
246	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
247	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
248	Effective Conductivity of Carbon-Nanotube-Filled Systems by Interfacial Conductivity to Optimize Breast Cancer Cell Sensors. Nanomaterials, 2022, 12, 2383.	1.9	0