Robert J Young

List of Publications by Year
in descending order

171 papers	15,675 citations	22153 59 h-index	19190 118 g-index
177 all docs	177 docs citations	177 times ranked	17981 citing authors

#	Article	IF	Citations
1	Mechanical properties of graphene and graphene-based nanocomposites. Progress in Materials Science, 2017, 90, 75-127.	32.8	1,682
2	The mechanics of graphene nanocomposites: A review. Composites Science and Technology, 2012, 72, 1459-1476.	7.8	1,076
3	Sensitive electromechanical sensors using viscoelastic graphene-polymer nanocomposites. Science, 2016, 354, 1257-1260.	12.6	676
4	Composites with carbon nanotubes and graphene: An outlook. Science, 2018, 362, 547-553.	12.6	662
5	Graphene Oxide: Structural Analysis and Application as a Highly Transparent Support for Electron Microscopy. ACS Nano, 2009, 3, 2547-2556.	14.6	629
6	The Real Graphene Oxide Revealed: Stripping the Oxidative Debris from the Grapheneâ€like Sheets. Angewandte Chemie - International Edition, 2011, 50, 3173-3177.	13.8	569
7	Interfacial Stress Transfer in a Graphene Monolayer Nanocomposite. Advanced Materials, 2010, 22, 2694-2697.	21.0	551
8	Introduction to Polymers. , 1991, , .		470
9	Introduction to Polymers. , 0, , .		324
10	Graphene/elastomer nanocomposites. Carbon, 2015, 95, 460-484.	10.3	308
11	Optimizing the Reinforcement of Polymer-Based Nanocomposites by Graphene. ACS Nano, 2012, 6, 2086-2095.	14.6	255
12	Control of the functionality of graphene oxide for its application inÂepoxy nanocomposites. Polymer, 2013, 54, 6437-6446.	3.8	252
13	Mechanisms of mechanical reinforcement by graphene and carbon nanotubes in polymer nanocomposites. Nanoscale, 2020, 12, 2228-2267.	5.6	222
14	The mechanics of reinforcement of polymers by graphene nanoplatelets. Composites Science and Technology, 2018, 154, 110-116.	7.8	221
15	Two-Step Electrochemical Intercalation and Oxidation of Graphite for the Mass Production of Graphene Oxide. Journal of the American Chemical Society, 2017, 139, 17446-17456.	13.7	211
16	Deoxygenation of Graphene Oxide: Reduction or Cleaning?. Chemistry of Materials, 2013, 25, 3580-3588.	6.7	198
17	Copper/graphene composites: a review. Journal of Materials Science, 2019, 54, 12236-12289.	3.7	193
18	Raman spectroscopy study of HM carbon fibres: effect of plasma treatment on the interfacial properties of single fibre/epoxy composites. Carbon, 2002, 40, 845-855.	10.3	190

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19	Effective Youngâ€™s Modulus of Bacterial and Microfibrillated Cellulose Fibrils in Fibrous Networks. Biomacromolecules, 2012, 13, 1340-1349.	5.4	189
20	Supercapacitance from Cellulose and Carbon Nanotube Nanocomposite Fibers. ACS Applied Materials & Interfaces, 2013, 5, 9983-9990.	8.0	183
21	The role of functional groups on graphene oxide in epoxy nanocomposites. Polymer, 2013, 54, 5821-5829.	3.8	163
22	Mechanisms of Liquid-Phase Exfoliation for the Production of Graphene. ACS Nano, 2020, 14, 10976-10985.	14.6	157
23	Analysis of Structure/Property Relationships in Silkworm (Bombyx mori) and Spider Dragline (Nephila) Tj ETQq1 1 0.784314 rgBT /Ove	5.4	148
24	Carbon nanofibres produced from electrospun cellulose nanofibres. Carbon, 2013, 58, 66-75.	10.3	147
25	Interfacial Stress Transfer in Graphene Oxide Nanocomposites. ACS Applied Materials & Interfaces, 2013, 5, 456-463.	8.0	144
26	Deformation of Wrinkled Graphene. ACS Nano, 2015, 9, 3917-3925.	14.6	143
27	Strain Mapping in a Graphene Monolayer Nanocomposite. ACS Nano, 2011, 5, 3079-3084.	14.6	142
28	Effect of the orientation of graphene-based nanoplatelets upon the Young's modulus of nanocomposites. Composites Science and Technology, 2016, 123, 125-133.	7.8	137
29	The mechanical properties of epoxy resins. Journal of Materials Science, 1980, 15, 1823-1831.	3.7	134
30	Wideâ€Area Strain Sensors based upon Grapheneâ€Polymer Composite Coatings Probed by Raman Spectroscopy. Advanced Functional Materials, 2014, 24, 2865-2874.	14.9	122
31	The mechanical properties of epoxy resins. Journal of Materials Science, 1980, 15, 1814-1822.	3.7	113
32	Identifying the fluorescence of graphene oxide. Journal of Materials Chemistry C, 2013, 1, 338-342.	5.5	112
33	Modeling Crystal and Molecular Deformation in Regenerated Cellulose Fibers. Biomacromolecules, 2005, 6, 507-513.	5.4	111
34	Single-Walled Carbon Nanotube Networks Decorated with Silver Nanoparticles:â€‰ A Novel Graded SERS Substrate. Journal of Physical Chemistry C, 2007, 111, 16167-16173.	3.1	100
35	Failure of brittle polymers by slow crack growth. Journal of Materials Science, 1975, 10, 1334-1342.	3.7	97
36	Coefficient of thermal expansion of carbon nanotubes measured by Raman spectroscopy. Applied Physics Letters, 2014, 104, .	3.3	97

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37	Hybrid multifunctional graphene/glass-fibre polypropylene composites. Composites Science and Technology, 2016, 137, 44-51.	7.8	93
38	The Effective Youngâ€™s Modulus of Carbon Nanotubes in Composites. ACS Applied Materials & Interfaces, 2011, 3, 433-440.	8.0	91
39	The rheological behaviour of concentrated dispersions of graphene oxide. Journal of Materials Science, 2014, 49, 6311-6320.	3.7	91
40	Investigating nanostructures in carbon fibres using Raman spectroscopy. Carbon, 2018, 130, 178-184.	10.3	91
41	Salt-assisted direct exfoliation of graphite into high-quality, large-size, few-layer graphene sheets. Nanoscale, 2013, 5, 7202.	5.6	88
42	Strain-induced phonon shifts in tungsten disulfide nanoplatelets and nanotubes. 2D Materials, 2017, 4, 015007.	4.4	85
43	Analysis of the fragmentation test for carbon-fibre/epoxy model composites by means of Raman spectroscopy. Composites Science and Technology, 1994, 52, 505-517.	7.8	84
44	Raman spectroscopy study of high-modulus carbon fibres: effect of plasma-treatment on the interfacial properties of single-fibreâ€“epoxy composites. Carbon, 2002, 40, 857-875.	10.3	84
45	The effect of solvents on spider silk studied by mechanical testing and single-fibre Raman spectroscopy. International Journal of Biological Macromolecules, 1999, 24, 295-300.	7.5	82
46	The mechanisms of reinforcement of polypropylene by graphene nanoplatelets. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2017, 216, 2-9.	3.5	81
47	Quantitative determination of the spatial orientation of graphene by polarized Raman spectroscopy. Carbon, 2015, 88, 215-224.	10.3	80
48	Toughening of Epoxy Matrices with Reduced Single-Walled Carbon Nanotubes. ACS Applied Materials & Interfaces, 2011, 3, 2309-2317.	8.0	77
49	Self-assembly of a layered two-dimensional molecularly woven fabric. Nature, 2020, 588, 429-435.	27.8	74
50	Strong Dependence of Mechanical Properties on Fiber Diameter for Polymerâ^'Nanotube Composite Fibers: Differentiating Defect from Orientation Effects. ACS Nano, 2010, 4, 6989-6997.	14.6	73
51	Crack propagation in and fractography of epoxy resins. Journal of Materials Science, 1979, 14, 1609-1618.	3.7	72
52	The Effect of Stress Transfer Within Doubleâ€Walled Carbon Nanotubes Upon Their Ability to Reinforce Composites. Advanced Materials, 2009, 21, 3591-3595.	21.0	71
53	Graphene oxide and base-washed graphene oxide as reinforcements in PMMA nanocomposites. Composites Science and Technology, 2013, 88, 158-164.	7.8	71
54	The Effect of Nanotube Content and Orientation on the Mechanical Properties of Polymer-Nanotube Composite Fibers: Separating Intrinsic Reinforcement from Orientational Effects. Advanced Functional Materials, 2011, 21, 364-371.	14.9	70

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55	Reversible Loss of Bernal Stacking during the Deformation of Few-Layer Graphene in Nanocomposites. ACS Nano, 2013, 7, 7287-7294.	14.6	68
56	Benchmarking of graphene-based materials: real commercial products versus ideal graphene. 2D Materials, 2019, 6, 025006.	4.4	68
57	Factors controlling the strength of carbon fibres in tension. Composites Part A: Applied Science and Manufacturing, 2014, 57, 88-94.	7.6	67
58	Deformation of isolated single-wall carbon nanotubes in electrospun polymer nanofibres. Nanotechnology, 2007, 18, 235707.	2.6	64
59	Production of carbon fibres from a pyrolysed and graphitised liquid crystalline cellulose fibre precursor. Journal of Materials Science, 2012, 47, 5402-5410.	3.7	62
60	A microstructural study of silicon carbide fibres through the use of Raman microscopy. Journal of Materials Science, 2001, 36, 55-66.	3.7	60
61	Enhanced thermal and fire retardancy properties of polypropylene reinforced with a hybrid graphene/glass-fibre filler. Composites Science and Technology, 2018, 156, 95-102.	7.8	59
62	The effect of flake diameter on the reinforcement of few-layer grapheneâ€“PMMA composites. Composites Science and Technology, 2015, 111, 17-22.	7.8	58
63	The effect of nanostructure upon the deformation micromechanics of carbon fibres. Carbon, 2013, 52, 372-378.	10.3	57
64	Mechanical Stability of Flexible Graphene-Based Displays. ACS Applied Materials & Interfaces, 2016, 8, 22605-22614.	8.0	56
65	PMMA-grafted graphene nanoplatelets to reinforce the mechanical and thermal properties of PMMA composites. Carbon, 2020, 157, 750-760.	10.3	56
66	Micromechanics of reinforcement of a graphene-based thermoplastic elastomer nanocomposite. Composites Part A: Applied Science and Manufacturing, 2018, 110, 84-92.	7.6	53
67	Electrically conductive GNP/epoxy composites for out-of-autoclave thermoset curing through Joule heating. Composites Science and Technology, 2018, 164, 304-312.	7.8	52
68	Negative Gauge Factor Piezoresistive Composites Based on Polymers Filled with MoS₂ Nanosheets. ACS Nano, 2019, 13, 6845-6855.	14.6	52
69	Hybrid poly(ether ether ketone) composites reinforced with a combination of carbon fibres and graphene nanoplatelets. Composites Science and Technology, 2019, 175, 60-68.	7.8	52
70	Effect of functional groups on the agglomeration of graphene in nanocomposites. Composites Science and Technology, 2018, 163, 116-122.	7.8	51
71	High thermal conductivity through simultaneously aligned polyethylene lamellae and graphene nanoplatelets. Nanoscale, 2017, 9, 12867-12873.	5.6	50
72	Photonic Crystals for Enhanced Light Extraction from 2D Materials. ACS Photonics, 2016, 3, 2515-2520.	6.6	48

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73	Microstructure and mechanical behaviour of aluminium matrix composites reinforced with graphene oxide and carbon nanotubes. Journal of Materials Science, 2017, 52, 13466-13477.	3.7	48
74	Effect of the <scp>C/O</scp> ratio in graphene oxide materials on the reinforcement of epoxyâ€based nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 281-291.	2.1	47
75	Controlled interfacial adhesion of TwaronÂ® aramid fibres in composites by the finish formulation. Composites Science and Technology, 2007, 67, 2027-2035.	7.8	46
76	Characterization of the adhesion of single-walled carbon nanotubes in poly(p-phenylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (t	3.8	44
77	Multifunctional Biocomposites Based on Polyhydroxyalkanoate and Graphene/Carbon Nanofiber Hybrids for Electrical and Thermal Applications. ACS Applied Polymer Materials, 2020, 2, 3525-3534.	4.4	44
78	Nanocomposites of graphene nanoplatelets in natural rubber: microstructure and mechanisms of reinforcement. Journal of Materials Science, 2017, 52, 9558-9572.	3.7	41
79	Crack propagation and arrest in epoxy resins. Journal of Materials Science, 1976, 11, 776-779.	3.7	40
80	Graphene/Polyelectrolyte Layer-by-Layer Coatings for Electromagnetic Interference Shielding. ACS Applied Nano Materials, 2019, 2, 5272-5281.	5.0	40
81	Strain engineering in monolayer WS₂ and WS₂ nanocomposites. 2D Materials, 2020, 7, 045022.	4.4	40
82	Interfacial micromechanics in thermoplastic and thermosetting matrix carbon fibre composites. Composites Part A: Applied Science and Manufacturing, 1996, 27, 973-980.	7.6	39
83	Few layer grapheneâ€“polypropylene nanocomposites: the role of flake diameter. Faraday Discussions, 2014, 173, 379-390.	3.2	39
84	Slow crack growth in acrylic bone cement. Journal of Biomedical Materials Research Part B, 1975, 9, 423-439.	3.1	38
85	Application of raman microscopy to the analysis of high modulus polymer fibres and composites. British Polymer Journal, 1989, 21, 17-21.	0.7	38
86	Molecular Orientation Distributions in Uniaxially Oriented Poly(l-lactic acid) Films Determined by Polarized Raman Spectroscopy. Macromolecules, 2006, 39, 3312-3321.	4.8	36
87	SWNT composite coatings as a strain sensor on glass fibres in model epoxy composites. Composites Science and Technology, 2009, 69, 1547-1552.	7.8	36
88	Tensile failure phenomena in carbon fibres. Carbon, 2016, 107, 474-481.	10.3	36
89	Graphene and related materials in hierarchical fiber composites: Production techniques and key industrial benefits. Composites Science and Technology, 2020, 185, 107848.	7.8	36
90	The Effect of Network Formation on the Mechanical Properties of 1D:2D Nano:Nano Composites. Chemistry of Materials, 2018, 30, 5245-5255.	6.7	33

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91	Time-dependent failure of poly(methyl methacrylate). Polymer, 1976, 17, 717-722.	3.8	32
92	Interfacial stress transfer in strain engineered wrinkled and folded graphene. 2D Materials, 2019, 6, 045026.	4.4	32
93	Tensile properties of biaxially drawn polyethylene. Polymer, 1990, 31, 231-236.	3.8	31
94	Synthesis, characterization, and structure of glassy diacetylene-containing segmented block copolyurethanes. Macromolecules, 1992, 25, 672-683.	4.8	31
95	Comparing single-walled carbon nanotubes and samarium oxide as strain sensors for model glass-fibre/epoxy composites. Composites Science and Technology, 2010, 70, 88-93.	7.8	30
96	Surface functionality analysis by Boehm titration of graphene nanoplatelets functionalizedviaa solvent-free cycloaddition reaction. Nanoscale Advances, 2019, 1, 1432-1441.	4.6	30
97	Formation mechanism of peapod-derived double-walled carbon nanotubes. Physical Review B, 2010, 82, .	3.2	29
98	Interfacial and internal stress transfer in carbon nanotube based nanocomposites. Journal of Materials Science, 2016, 51, 344-352.	3.7	28
99	Chain stretching in a poly(ethylene terephthalate) fibre. Polymer, 1994, 35, 3844-3847.	3.8	27
100	Influence of Domain Orientation on the Mechanical Properties of Regenerated Cellulose Fibers. Biomacromolecules, 2007, 8, 624-630.	5.4	27
101	Assessment of interface damage during the deformation of carbon nanotube composites. Journal of Materials Science, 2010, 45, 1425-1431.	3.7	27
102	Modelling mechanical percolation in graphene-reinforced elastomer nanocomposites. Composites Part B: Engineering, 2019, 178, 107506.	12.0	27
103	Determination of residual stresses in SiC monofilament reinforced metal-matrix composites using Raman spectroscopy. Composites Part A: Applied Science and Manufacturing, 2002, 33, 1409-1416.	7.6	26
104	The effect of nanostructure upon the compressive strength of carbon fibres. Journal of Materials Science, 2013, 48, 2104-2110.	3.7	25
105	Grapheneâ€“Polyurethane Coatings for Deformable Conductors and Electromagnetic Interference Shielding. Advanced Electronic Materials, 2020, 6, 2000429.	5.1	25
106	Formation and properties of urethane-diacetylene segmented block copolymers. Polymer, 1991, 32, 1713-1725.	3.8	24
107	Deformation micromechanics of a model cellulose/glass fibre hybrid composite. Composites Science and Technology, 2009, 69, 2218-2224.	7.8	24
108	The microstructure of a graphene-reinforced tennis racquet. Journal of Materials Science, 2016, 51, 3861-3867.	3.7	24

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109	Raman Spectra and Mechanical Properties of Graphene/Polypropylene Nanocomposites. International Journal of Chemical Engineering and Applications (IJCEA), 2015, 6, 1-5.	0.3	24
110	Deformation micromechanics of spider silk. Journal of Materials Science, 2008, 43, 3728-3732.	3.7	23
111	The role of interlayer adhesion in graphene oxide upon its reinforcement of nanocomposites. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150283.	3.4	23
112	Deformation mechanisms in biaxially drawn polyethylene. Journal of Polymer Science, Part B: Polymer Physics, 1991, 29, 825-835.	2.1	22
113	Analysis of Stress Transfer in Two-Phase Polymer Systems Using Synchrotron Microfocus X-ray Diffraction. Macromolecules, 2004, 37, 9503-9509.	4.8	22
114	Realizing the theoretical stiffness of graphene in composites through confinement between carbon fibers. Composites Part A: Applied Science and Manufacturing, 2018, 113, 311-317.	7.6	22
115	Molecular deformation and optomechanical behavior of glassy diacetylene-containing segmented block copolyurethanes. Macromolecules, 1992, 25, 684-691.	4.8	21
116	Effect of residual stresses upon the Raman radial breathing modes of nanotubes in epoxy composites. Composites Science and Technology, 2007, 67, 840-843.	7.8	21
117	Silverâ€decorated carbon nanotube networks as SERS substrates. Journal of Raman Spectroscopy, 2011, 42, 1255-1262.	2.5	21
118	Visible Spectrum Quantum Light Sources Based on In_xGa_{1â€“x}N/GaN Quantum Dots. ACS Photonics, 2015, 2, 958-963.	6.6	20
119	Stress memory materials and their fundamental platform. Journal of Materials Chemistry A, 2017, 5, 503-511.	10.3	19
120	Deformation of and Interfacial Stress Transfer in Ti₃C₂ MXeneâ€“Polymer Composites. ACS Applied Materials & Interfaces, 2022, 14, 10681-10690.	8.0	19
121	Debundling, Isolation, and Identification of Carbon Nanotubes in Electrospun Nanofibers. Small, 2008, 4, 930-933.	10.0	18
122	Molecular and Crystal Deformation in Poly(aryl ether ether ketone) Fibers. Macromolecules, 2008, 41, 7519-7524.	4.8	18
123	The strength of mechanically-exfoliated monolayer graphene deformed on a rigid polymer substrate. Nanoscale, 2019, 11, 14339-14353.	5.6	18
124	Reinforcement of Polymer-Based Nanocomposites by Thermally Conductive and Electrically Insulating Boron Nitride Nanotubes. ACS Applied Nano Materials, 2020, 3, 364-374.	5.0	18
125	High-performance fluoroelastomer-graphene nanocomposites for advanced sealing applications. Composites Science and Technology, 2021, 202, 108592.	7.8	18
126	Measurement of thermal strains during compressive fragmentation in single-fibre composites by Raman spectroscopy. Composites Science and Technology, 1995, 55, 223-229.	7.8	17

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127	The taxonomy of graphite nanoplatelets and the influence of nanocomposite processing. Carbon, 2019, 142, 99-106.	10.3	16
128	Molecular Orientation Distributions in the Crystalline and Amorphous Regions of Uniaxially Oriented Isotactic Polypropylene Films Determined by Polarized Raman Spectroscopy. Journal of Macromolecular Science - Physics, 2005, 44, 967-991.	1.0	15
129	Molecular Orientation Distributions in a Biaxially oriented Poly(l-lactic Acid) Film Determined by Polarized Raman Spectroscopy. Biomacromolecules, 2006, 7, 2575-2582.	5.4	15
130	The chemical functionalization of graphene nanoplatelets through solvent-free reaction. RSC Advances, 2018, 8, 33564-33573.	3.6	15
131	Suspended graphene arrays for gas sensing applications. 2D Materials, 2021, 8, 025006.	4.4	15
132	Graphene-Based Materials as Strain Sensors in Glass Fiber/Epoxy Model Composites. ACS Applied Materials & Interfaces, 2019, 11, 31338-31345.	8.0	14
133	Interlayer and interfacial stress transfer in hBN nanosheets. 2D Materials, 2021, 8, 035058.	4.4	13
134	Fundamental Insights into Graphene Strain Sensing. Nano Letters, 2021, 21, 833-839.	9.1	13
135	Dynamic modulation of the Fermi energy in suspended graphene backgated devices. Science and Technology of Advanced Materials, 2019, 20, 568-579.	6.1	12
136	Silane-functionalized graphene nanoplatelets for silicone rubber nanocomposites. Journal of Materials Science, 2022, 57, 2683-2696.	3.7	11
137	Graphene and graphene-based nanocomposites. SPR Nanoscience, 2012, , 145-179.	0.6	10
138	Multilayer stacking and metal deposition effects on large area graphene on GaAs. Carbon, 2016, 96, 83-90.	10.3	10
139	A Simple Method for Anchoring Silver and Copper Nanoparticles on Single Wall Carbon Nanotubes. Nanomaterials, 2019, 9, 1416.	4.1	10
140	Mechanisms of reinforcement of PVA-Based nanocomposites by hBN nanosheets. Composites Science and Technology, 2022, 218, 109131.	7.8	10
141	Spinning conditions affect structure and properties of Nephila spider silk. MRS Bulletin, 2021, 46, 915-924.	3.5	10
142	Graphene Nanoplatelets as a Replacement for Carbon Black in Rubber Compounds. Polymers, 2022, 14, 1204.	4.5	10
143	Other high modulus-high tenacity (HM-HT) fibres from linear polymers. , 2001, , 93-155.		9
144	Deformation micromechanics of model glass fibre composites. Composites Science and Technology, 2008, 68, 848-853.	7.8	9

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145	Water Dispersible Few-Layer Graphene Stabilized by a Novel Pyrene Derivative at Micromolar Concentration. Nanomaterials, 2018, 8, 675.	4.1	9
146	Interfacial energy dissipation in bio-inspired graphene nanocomposites. Composites Science and Technology, 2022, 219, 109216.	7.8	9
147	Probing the internal geometry of a woven composite during deformation using an x-ray microdiffraction imaging technique. Applied Physics Letters, 2007, 91, .	3.3	8
148	Anisotropic swelling of elastomers filled with aligned 2D materials. 2D Materials, 2020, 7, 025031.	4.4	8
149	Catalytic graphitization of electrospun cellulose nanofibres using silica nanoparticles. Reactive and Functional Polymers, 2014, 85, 235-238.	4.1	7
150	Realising biaxial reinforcement via orientation-induced anisotropic swelling in graphene-based elastomers. Nanoscale, 2020, 12, 3377-3386.	5.6	7
151	Interfacial micromechanics of technora fibre/epoxy composites. Journal of Materials Science, 2005, 40, 5381-5386.	3.7	6
152	Characterization of carbon coatings on SiC monofilaments using Raman spectroscopy. Journal of Materials Science, 2007, 42, 5135-5141.	3.7	6
153	Two-Dimensional Nanocrystals: Structure, Properties and Applications. Arabian Journal for Science and Engineering, 2013, 38, 1289-1304.	1.1	6
154	Elucidation of the hard segment transition in a diacetylene-containing copolyurethane using modulated differential scanning calorimetry. Polymer, 1997, 38, 981-983.	3.8	5
155	Raman spectroscopic study of reinforcement mechanisms of electron beam radiation crosslinking of natural rubber composites filled with graphene and silica/graphene mixture prepared by latex mixing. Composites Part C: Open Access, 2020, 3, 100049.	3.2	5
156	Deformation and tearing of graphene-reinforced elastomer nanocomposites. Composites Communications, 2021, 25, 100764.	6.3	5
157	Investigation of the sp3 structure of carbon fibres using UV-Raman spectroscopy. Tanso, 2013, 2013, 243-247.	0.1	4
158	Unique Identification of Single-Walled Carbon Nanotubes in Electrospun Fibers. Journal of Physical Chemistry C, 2014, 118, 24025-24033.	3.1	4
159	Controlling and Monitoring Crack Propagation in Monolayer Graphene Single Crystals. Advanced Functional Materials, 2022, 32, .	14.9	4
160	Raman-Active Nanostructured Materials for Use as Novel Stress-Sensitive Polymeric Coatings. Materials Research Society Symposia Proceedings, 2003, 791, 1.	0.1	3
161	Analysis of the structure and deformation of a woven composite lamina using X-ray microdiffraction. Journal of Materials Science, 2008, 43, 6724-6733.	3.7	3
162	Response to â€œComment on the Effect of Stress Transfer Within Doubleâ€Walled Carbon Nanotubes upon Their Ability to Reinforce Compositesâ€• Advanced Materials, 2010, 22, 1180-1181.	21.0	3

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163	MoS2 Nanosheet-Coated Carbon Fibers as Strain Sensors in Epoxy Composites. ACS Applied Nano Materials, 2021, 4, 9181-9189.	5.0	3
164	Preparation and use of diacetylene-containing polyesters for studying deformation micromechanics in model polyester-polyolefin blends. Macromolecular Symposia, 1997, 118, 395-400.	0.7	2
165	Predicted bandgap opening in highly-oriented wrinkles formed in chemical vapour deposition grown graphene. Materials Research Express, 2019, 6, 026311.	1.6	2
166	Imaging microstructure and stress fields within a cross-ply composite laminate. Composites Science and Technology, 2009, 69, 567-574.	7.8	1
167	Carbon Fibre Composites: Deformation Micromechanics Analysed using Raman Spectroscopy. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2016, , 29-50.	0.6	1
168	Carbon in Polymer. , 2013, , 695-728.		1
169	Carbon Nanotubes and Nanotube-Based Composites: Deformation Micromechanics. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2016, , 51-74.	0.6	0
170	Raman Spectroscopy: Graphene and Steel Interaction. , 2014, , 1-6.		0
171	Deformation Mechanisms of Carbon Fibres and Carbon Fibre Composites. , 2017, , 341-357.		0