

# Robert Joseph Young

## List of Publications by Citations

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257  
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63  
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119  
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261  
ext. papers

17,986  
ext. citations

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6.94  
L-index

#	Paper	IF	Citations
257	Mechanical properties of graphene and graphene-based nanocomposites. <i>Progress in Materials Science</i> , <b>2017</b> , 90, 75-127	42.2	1091
256	The mechanics of graphene nanocomposites: A review. <i>Composites Science and Technology</i> , <b>2012</b> , 72, 1459-1476	8.6	893
255	Graphene oxide: structural analysis and application as a highly transparent support for electron microscopy. <i>ACS Nano</i> , <b>2009</b> , 3, 2547-56	16.7	559
254	Sensitive electromechanical sensors using viscoelastic graphene-polymer nanocomposites. <i>Science</i> , <b>2016</b> , 354, 1257-1260	33.3	517
253	The real graphene oxide revealed: stripping the oxidative debris from the graphene-like sheets. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 3173-7	16.4	485
252	Interfacial stress transfer in a graphene monolayer nanocomposite. <i>Advanced Materials</i> , <b>2010</b> , 22, 2694-74	7.4	465
251	Introduction to Polymers <b>1991</b> ,		419
250	Composites with carbon nanotubes and graphene: An outlook. <i>Science</i> , <b>2018</b> , 362, 547-553	33.3	396
249	Investigation into the deformation of carbon nanotubes and their composites through the use of Raman spectroscopy. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2001</b> , 32, 401-411	8.4	362
248	Collapse of single-wall carbon nanotubes is diameter dependent. <i>Physical Review Letters</i> , <b>2004</b> , 92, 095501	9.1	303
247	Introduction to Polymers		242
246	Graphene/elastomer nanocomposites. <i>Carbon</i> , <b>2015</b> , 95, 460-484	10.4	230
245	Optimizing the reinforcement of polymer-based nanocomposites by graphene. <i>ACS Nano</i> , <b>2012</b> , 6, 2086-95	16.7	217
244	Control of the functionality of graphene oxide for its application in epoxy nanocomposites. <i>Polymer</i> , <b>2013</b> , 54, 6437-6446	3.9	211
243	Effect of fibre microstructure upon the modulus of PAN- and pitch-based carbon fibres. <i>Carbon</i> , <b>1995</b> , 33, 97-107	10.4	188
242	Electrical percolation in graphene-polymer composites. <i>2D Materials</i> , <b>2018</b> , 5, 032003	5.9	181
241	Rapidly switchable water-sensitive shape-memory cellulose/elastomer nano-composites. <i>Soft Matter</i> , <b>2012</b> , 8, 2509	3.6	176

240	Raman spectroscopy study of HM carbon fibres: effect of plasma treatment on the interfacial properties of single fibre/epoxy composites. <i>Carbon</i> , <b>2002</b> , 40, 845-855	10.4	174
239	Deoxygenation of Graphene Oxide: Reduction or Cleaning?. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 3580-3588	9.6	172
238	Effective Young's modulus of bacterial and microfibrillated cellulose fibrils in fibrous networks. <i>Biomacromolecules</i> , <b>2012</b> , 13, 1340-9	6.9	160
237	Supercapacitance from cellulose and carbon nanotube nanocomposite fibers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 9983-90	9.5	152
236	The mechanics of reinforcement of polymers by graphene nanoplatelets. <i>Composites Science and Technology</i> , <b>2018</b> , 154, 110-116	8.6	152
235	Two-Step Electrochemical Intercalation and Oxidation of Graphite for the Mass Production of Graphene Oxide. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 17446-17456	16.4	135
234	The role of functional groups on graphene oxide in epoxy nanocomposites. <i>Polymer</i> , <b>2013</b> , 54, 5821-5829	9.9	130
233	Analysis of spider silk in native and supercontracted states using Raman spectroscopy. <i>Polymer</i> , <b>1999</b> , 40, 2493-2500	3.9	130
232	Interfacial stress transfer in graphene oxide nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 456-63	9.5	129
231	Carbon nanofibres produced from electrospun cellulose nanofibres. <i>Carbon</i> , <b>2013</b> , 58, 66-75	10.4	127
230	Strain mapping in a graphene monolayer nanocomposite. <i>ACS Nano</i> , <b>2011</b> , 5, 3079-84	16.7	127
229	Analysis of structure/property relationships in silkworm ( <i>Bombyx mori</i> ) and spider dragline ( <i>Nephila edulis</i> ) silks using Raman spectroscopy. <i>Biomacromolecules</i> , <b>2003</b> , 4, 387-94	6.9	126
228	Mechanisms of mechanical reinforcement by graphene and carbon nanotubes in polymer nanocomposites. <i>Nanoscale</i> , <b>2020</b> , 12, 2228-2267	7.7	121
227	Deformation of wrinkled graphene. <i>ACS Nano</i> , <b>2015</b> , 9, 3917-25	16.7	120
226	Composite micromechanics of hemp fibres and epoxy resin microdroplets. <i>Composites Science and Technology</i> , <b>2004</b> , 64, 767-772	8.6	116
225	Effects of plasma oxidation on the surface and interfacial properties of ultra-high modulus carbon fibres. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2001</b> , 32, 361-371	8.4	115
224	Relationship between mechanical properties of and crack propagation in epoxy resin adhesives. <i>Polymer</i> , <b>1978</b> , 19, 574-582	3.9	115
223	Effect of the orientation of graphene-based nanoplatelets upon the Young's modulus of nanocomposites. <i>Composites Science and Technology</i> , <b>2016</b> , 123, 125-133	8.6	107

222	The Real Graphene Oxide Revealed: Stripping the Oxidative Debris from the Graphene-like Sheets. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 3231-3235	3.6	106
221	Stability of crack propagation in epoxy resins. <i>Polymer</i> , <b>1977</b> , 18, 1075-1080	3.9	106
220	The mechanical properties of epoxy resins. <i>Journal of Materials Science</i> , <b>1980</b> , 15, 1823-1831	4.3	105
219	Identifying the fluorescence of graphene oxide. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 338-342	7.1	102
218	Wide-Area Strain Sensors based upon Graphene-Polymer Composite Coatings Probed by Raman Spectroscopy. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 2865-2874	15.6	102
217	Modeling crystal and molecular deformation in regenerated cellulose fibers. <i>Biomacromolecules</i> , <b>2005</b> , 6, 507-13	6.9	101
216	Copper/graphene composites: a review. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 12236-12289	4.3	98
215	Single-Walled Carbon Nanotube Networks Decorated with Silver Nanoparticles: A Novel Graded SERS Substrate. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 16167-16173	3.8	97
214	The mechanical properties of epoxy resins. <i>Journal of Materials Science</i> , <b>1980</b> , 15, 1814-1822	4.3	94
213	Molecular deformation processes in aromatic high modulus polymer fibres. <i>Polymer</i> , <b>1999</b> , 40, 857-870	3.9	93
212	Simultaneous SAXS/WAXS and d.s.c. analysis of the melting and recrystallization behaviour of quenched polypropylene. <i>Polymer</i> , <b>1994</b> , 35, 1352-1358	3.9	93
211	Deformation mechanisms in polymer fibres and nanocomposites. <i>Polymer</i> , <b>2007</b> , 48, 2-18	3.9	86
210	Failure of brittle polymers by slow crack growth. <i>Journal of Materials Science</i> , <b>1975</b> , 10, 1334-1342	4.3	83
209	The effective Young's modulus of carbon nanotubes in composites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 433-40	9.5	82
208	Raman spectroscopy of stressed high modulus poly(p-phenylene benzobisthiazole) fibres. <i>Polymer</i> , <b>1987</b> , 28, 1833-1840	3.9	81
207	The effect of solvents on spider silk studied by mechanical testing and single-fibre Raman spectroscopy. <i>International Journal of Biological Macromolecules</i> , <b>1999</b> , 24, 295-300	7.9	79
206	Salt-assisted direct exfoliation of graphite into high-quality, large-size, few-layer graphene sheets. <i>Nanoscale</i> , <b>2013</b> , 5, 7202-8	7.7	77
205	Raman spectroscopy study of high-modulus carbon fibres: effect of plasma-treatment on the interfacial properties of single-fibre-epoxy composites. <i>Carbon</i> , <b>2002</b> , 40, 857-875	10.4	76

204	Toughening of epoxy matrices with reduced single-walled carbon nanotubes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 2309-17	9.5	73
203	Coefficient of thermal expansion of carbon nanotubes measured by Raman spectroscopy. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 051907	3.4	72
202	Analysis of the fragmentation test for carbon-fibre/epoxy model composites by means of Raman spectroscopy. <i>Composites Science and Technology</i> , <b>1994</b> , 52, 505-517	8.6	72
201	Three techniques of interfacial bond strength estimation from direct observation of crack initiation and propagation in polymer/fibre systems. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2001</b> , 32, 435-443	8.4	71
200	The rheological behaviour of concentrated dispersions of graphene oxide. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 6311-6320	4.3	68
199	Strong dependence of mechanical properties on fiber diameter for polymer-nanotube composite fibers: differentiating defect from orientation effects. <i>ACS Nano</i> , <b>2010</b> , 4, 6989-97	16.7	68
198	Hybrid multifunctional graphene/glass-fibre polypropylene composites. <i>Composites Science and Technology</i> , <b>2016</b> , 137, 44-51	8.6	66
197	Analysis of the single-fibre pull-out test by means of Raman spectroscopy: Part II. Micromechanics of deformation for an aramid/epoxy system. <i>Composites Science and Technology</i> , <b>1995</b> , 53, 411-421	8.6	66
196	The Effect of Stress Transfer Within Double-Walled Carbon Nanotubes Upon Their Ability to Reinforce Composites. <i>Advanced Materials</i> , <b>2009</b> , 21, 3591-3595	24	64
195	Graphene oxide and base-washed graphene oxide as reinforcements in PMMA nanocomposites. <i>Composites Science and Technology</i> , <b>2013</b> , 88, 158-164	8.6	63
194	Quantitative determination of the spatial orientation of graphene by polarized Raman spectroscopy. <i>Carbon</i> , <b>2015</b> , 88, 215-224	10.4	62
193	Simultaneous global and local strain sensing in SWCNT/epoxy composites by Raman and impedance spectroscopy. <i>Composites Science and Technology</i> , <b>2011</b> , 71, 160-166	8.6	62
192	Molecular deformation in spider dragline silk subjected to stress. <i>Polymer</i> , <b>2000</b> , 41, 1223-1227	3.9	62
191	Crack propagation in and fractography of epoxy resins. <i>Journal of Materials Science</i> , <b>1979</b> , 14, 1609-1618	4.3	62
190	Crack velocity and the fracture of bone. <i>Journal of Biomechanics</i> , <b>1978</b> , 11, 473-9	2.9	62
189	Reversible loss of Bernal stacking during the deformation of few-layer graphene in nanocomposites. <i>ACS Nano</i> , <b>2013</b> , 7, 7287-94	16.7	61
188	Mechanisms of Liquid-Phase Exfoliation for the Production of Graphene. <i>ACS Nano</i> , <b>2020</b> , 14, 10976-10985	5.7	59
187	The Effect of Nanotube Content and Orientation on the Mechanical Properties of Polymer/Nanotube Composite Fibers: Separating Intrinsic Reinforcement from Orientational Effects. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 364-371	15.6	59

186	A Raman spectroscopic investigation of heating effects and the deformation behaviour of epoxy/SWNT composites. <i>Composites Science and Technology</i> , <b>2004</b> , 64, 2291-2295	8.6	59
185	Deformation of isolated single-wall carbon nanotubes in electrospun polymer nanofibres. <i>Nanotechnology</i> , <b>2007</b> , 18, 235707	3.4	58
184	Deformation micromechanics of natural cellulose fibre networks and composites. <i>Composites Science and Technology</i> , <b>2003</b> , 63, 1225-1230	8.6	58
183	Strain-induced phonon shifts in tungsten disulfide nanoplatelets and nanotubes. <i>2D Materials</i> , <b>2017</b> , 4, 015007	5.9	57
182	Interfacial behaviour in high temperature cured carbon fibre/epoxy resin model composite. <i>Composites</i> , <b>1995</b> , 26, 541-550		57
181	Production of carbon fibres from a pyrolysed and graphitised liquid crystalline cellulose fibre precursor. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 5402-5410	4.3	56
180	The mechanisms of reinforcement of polypropylene by graphene nanoplatelets. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2017</b> , 216, 2-9	3.1	55
179	Hybrid hollow spheres of carbon@CoNiMoO as advanced electrodes for high-performance asymmetric supercapacitors. <i>Nanoscale</i> , <b>2019</b> , 11, 3281-3291	7.7	54
178	Structure of and stress transfer in fibres spun from carbon nanotubes produced by chemical vapour deposition. <i>Carbon</i> , <b>2011</b> , 49, 4149-4158	10.4	54
177	Factors controlling the strength of carbon fibres in tension. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2014</b> , 57, 88-94	8.4	52
176	Characterization and micromechanical testing of the interphase of aramid-reinforced epoxy composites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2001</b> , 32, 331-342	8.4	52
175	Tensile and compressive deformation of polypyridobisimidazole (PIPD)-based 'M5' rigid-rod polymer fibres. <i>Polymer</i> , <b>1999</b> , 40, 3421-3431	3.9	52
174	The effect of flake diameter on the reinforcement of few-layer graphene/BMMA composites. <i>Composites Science and Technology</i> , <b>2015</b> , 111, 17-22	8.6	51
173	A microstructural study of silicon carbide fibres through the use of Raman microscopy. <i>Journal of Materials Science</i> , <b>2001</b> , 36, 55-66	4.3	51
172	Investigating nanostructures in carbon fibres using Raman spectroscopy. <i>Carbon</i> , <b>2018</b> , 130, 178-184	10.4	50
171	A numerical study of ply orientation on ballistic impact resistance of multi-ply fabric panels. <i>Composites Part B: Engineering</i> , <b>2015</b> , 68, 259-265	10	49
170	Characterisation of the microstructure and deformation of high modulus cellulose fibres. <i>Polymer</i> , <b>2003</b> , 44, 5901-5908	3.9	49
169	Studies of rubber-toughened poly(methyl methacrylate): 1. Preparation and thermal properties of blends of poly(methyl methacrylate) with multiple-layer toughening particles. <i>Polymer</i> , <b>1993</b> , 34, 61-69	3.9	48

168	The effect of nanostructure upon the deformation micromechanics of carbon fibres. <i>Carbon</i> , <b>2013</b> , 52, 372-378	10.4	44
167	Crystal lattice deformation in single poly(p-phenylene benzobisoxazole) fibres. <i>Polymer</i> , <b>2004</b> , 45, 7693-7704	8.6	44
166	Enhanced thermal and fire retardancy properties of polypropylene reinforced with a hybrid graphene/glass-fibre filler. <i>Composites Science and Technology</i> , <b>2018</b> , 156, 95-102	8.6	43
165	Electrochemical exfoliation of graphite in quaternary ammonium-based deep eutectic solvents: a route for the mass production of graphene. <i>Nanoscale</i> , <b>2015</b> , 7, 11386-92	7.7	43
164	Failure phenomena in fibre-reinforced composites. Part 6: a finite element study of stress concentrations in unidirectional carbon fibre-reinforced epoxy composites. <i>Composites Science and Technology</i> , <b>2004</b> , 64, 645-656	8.6	43
163	Fibre deformation and residual thermal stresses in carbon fibre reinforced PEEK. <i>Composites Science and Technology</i> , <b>1989</b> , 34, 243-258	8.6	42
162	Thermal residual stresses and their toughening effect in Al <sub>2</sub> O <sub>3</sub> platelet reinforced glass. <i>Acta Materialia</i> , <b>1999</b> , 47, 3233-3240	8.4	41
161	Controlled interfacial adhesion of Twaron <sup>®</sup> aramid fibres in composites by the finish formulation. <i>Composites Science and Technology</i> , <b>2007</b> , 67, 2027-2035	8.6	40
160	Mechanical Stability of Flexible Graphene-Based Displays. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 22605-14	9.5	40
159	Crack propagation and arrest in epoxy resins. <i>Journal of Materials Science</i> , <b>1976</b> , 11, 776-779	4.3	39
158	Benchmarking of graphene-based materials: real commercial products versus ideal graphene. <i>2D Materials</i> , <b>2019</b> , 6, 025006	5.9	39
157	Hybrid carbon fibre-carbon nanotube composite interfaces. <i>Composites Science and Technology</i> , <b>2014</b> , 95, 114-120	8.6	38
156	Negative Gauge Factor Piezoresistive Composites Based on Polymers Filled with MoS <sub>2</sub> Nanosheets. <i>ACS Nano</i> , <b>2019</b> , 13, 6845-6855	16.7	37
155	Effect of the C/O ratio in graphene oxide materials on the reinforcement of epoxy-based nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2016</b> , 54, 281-291	2.6	37
154	Characterization of the adhesion of single-walled carbon nanotubes in poly(p-phenylene terephthalamide) composite fibres. <i>Polymer</i> , <b>2010</b> , 51, 2033-2039	3.9	37
153	Interfacial failure in poly(p-phenylene benzobisoxazole) (PBO)/epoxy single fibre pull-out specimens. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2001</b> , 32, 445-455	8.4	37
152	Deformation micromechanics in high-modulus fibres and composites. <i>Composites Science and Technology</i> , <b>1993</b> , 48, 255-261	8.6	37
151	The solid-state polymerization and physical properties of bis(ethyl urethane) of 2,4-hexadiyne-1,6-diol: 3. Mechanical properties. <i>Polymer</i> , <b>1983</b> , 24, 1023-1030	3.9	37

150	Few layer graphene-polypropylene nanocomposites: the role of flake diameter. <i>Faraday Discussions</i> , <b>2014</b> , 173, 379-90	3.6	36
149	Evaluation of interface fracture energy for single-fibre composites. <i>Composites Science and Technology</i> , <b>1998</b> , 58, 1907-1916	8.6	36
148	Nanocomposites of graphene nanoplatelets in natural rubber: microstructure and mechanisms of reinforcement. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 9558-9572	4.3	35
147	Raman spectroscopic study of the effect of strain on the radial breathing modes of carbon nanotubes in epoxy/SWNT composites. <i>Composites Science and Technology</i> , <b>2004</b> , 64, 2297-2302	8.6	35
146	Model ceramic fibre-reinforced glass composites: residual thermal stresses. <i>Composites</i> , <b>1994</b> , 25, 488-493		35
145	Application of raman microscopy to the analysis of high modulus polymer fibres and composites. <i>British Polymer Journal</i> , <b>1989</b> , 21, 17-21		35
144	Micromechanics of reinforcement of a graphene-based thermoplastic elastomer nanocomposite. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2018</b> , 110, 84-92	8.4	34
143	Interfacial micromechanics in thermoplastic and thermosetting matrix carbon fibre composites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>1996</b> , 27, 973-980	8.4	34
142	Hybrid poly(ether ether ketone) composites reinforced with a combination of carbon fibres and graphene nanoplatelets. <i>Composites Science and Technology</i> , <b>2019</b> , 175, 60-68	8.6	33
141	Failure phenomena in two-dimensional multi-fibre microcomposites. Part 4: a Raman spectroscopic study on the influence of the matrix yield stress on stress concentrations. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2000</b> , 31, 165-171	8.4	33
140	Microstructure and mechanical behaviour of aluminium matrix composites reinforced with graphene oxide and carbon nanotubes. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 13466-13477	4.3	32
139	SWNT composite coatings as a strain sensor on glass fibres in model epoxy composites. <i>Composites Science and Technology</i> , <b>2009</b> , 69, 1547-1552	8.6	32
138	PMMA-grafted graphene nanoplatelets to reinforce the mechanical and thermal properties of PMMA composites. <i>Carbon</i> , <b>2020</b> , 157, 750-760	10.4	30
137	Effect of temperature on the graphitization process of a semianthracite. <i>Fuel Processing Technology</i> , <b>2002</b> , 79, 245-250	7.2	29
136	Formation mechanism of peapod-derived double-walled carbon nanotubes. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	28
135	Unique identification of single-walled carbon nanotubes in composites. <i>Composites Science and Technology</i> , <b>2007</b> , 67, 2135-2149	8.6	28
134	Time-dependent failure of poly(methyl methacrylate). <i>Polymer</i> , <b>1976</b> , 17, 717-722	3.9	28
133	The Effect of Network Formation on the Mechanical Properties of 1D:2D Nano:Nano Composites. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5245-5255	9.6	27



132	Comparing single-walled carbon nanotubes and samarium oxide as strain sensors for model glass-fibre/epoxy composites. <i>Composites Science and Technology</i> , <b>2010</b> , 70, 88-93	8.6	27
131	Fragmentation analysis of glass fibres in model composites through the use of Raman spectroscopy. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2001</b> , 32, 253-269	8.4	26
130	Tensile properties of biaxially drawn polyethylene. <i>Polymer</i> , <b>1990</b> , 31, 231-236	3.9	26
129	Influence of domain orientation on the mechanical properties of regenerated cellulose fibers. <i>Biomacromolecules</i> , <b>2007</b> , 8, 624-30	6.9	25
128	A study of transcrystalline polypropylene/ single-aramid-fibre pull-out behaviour using Raman spectroscopy. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>1996</b> , 27, 833-838	8.4	25
127	Analysis of the single-fibre pull-out test by the use of Raman spectroscopy. Part I: pull-out of aramid fibres from an epoxy resin. <i>Composites Science and Technology</i> , <b>1994</b> , 52, 387-396	8.6	25
126	Assessment of interface damage during the deformation of carbon nanotube composites. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 1425-1431	4.3	24
125	Self-assembly of a layered two-dimensional molecularly woven fabric. <i>Nature</i> , <b>2020</b> , 588, 429-435	50.4	23
124	Tensile failure phenomena in carbon fibres. <i>Carbon</i> , <b>2016</b> , 107, 474-481	10.4	23
123	Graphene/Polyelectrolyte Layer-by-Layer Coatings for Electromagnetic Interference Shielding. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 5272-5281	5.6	23
122	Chain stretching in a poly(ethylene terephthalate) fibre. <i>Polymer</i> , <b>1994</b> , 35, 3844-3847	3.9	23
121	Dynamic microstructural evolution of graphite under displacing irradiation. <i>Carbon</i> , <b>2014</b> , 68, 273-284	10.4	22
120	Deformation micromechanics of a model cellulose/glass fibre hybrid composite. <i>Composites Science and Technology</i> , <b>2009</b> , 69, 2218-2224	8.6	22
119	Measurement of micro stress fields in epoxy matrix around a fibre using phase-stepping automated photoelasticity. <i>Composites Science and Technology</i> , <b>2003</b> , 63, 1783-1787	8.6	22
118	Crystallographic texturing in single poly(p-phenylene benzobisoxazole) fibres investigated using synchrotron radiation. <i>Polymer</i> , <b>2005</b> , 46, 1935-1942	3.9	22
117	Dependence of fibre strain on orientation angle for off-axis fibres in composites. <i>Journal of Materials Science Letters</i> , <b>1992</b> , 11, 1344-1346		22
116	Deformation micromechanics of spider silk. <i>Journal of Materials Science</i> , <b>2008</b> , 43, 3728-3732	4.3	21
115	Molecular Orientation Distributions in Uniaxially Oriented Poly(L-lactic acid) Films Determined by Polarized Raman Spectroscopy. <i>Macromolecules</i> , <b>2006</b> , 39, 3312-3321	5.5	21

114	Analysis of Stress Transfer in Two-Phase Polymer Systems Using Synchrotron Microfocus X-ray Diffraction. <i>Macromolecules</i> , <b>2004</b> , 37, 9503-9509	5.5	21
113	Determination of residual strains in ceramic-fibre reinforced composites using fluorescence spectroscopy. <i>Acta Metallurgica Et Materialia</i> , <b>1995</b> , 43, 2407-2416		21
112	Interfacial and internal stress transfer in carbon nanotube based nanocomposites. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 344-352	4.3	20
111	Surface functionality analysis by Boehm titration of graphene nanoplatelets functionalized via a solvent-free cycloaddition reaction. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 1432-1441	5.1	20
110	Interfacial stress transfer in strain engineered wrinkled and folded graphene. <i>2D Materials</i> , <b>2019</b> , 6, 045026	3.9	20
109	Deformation studies of single rigid-rod polymer-based fibres. Part 1. Determination of crystal modulus. <i>Polymer</i> , <b>2002</b> , 43, 5219-5226	3.9	20
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