

Robert Joseph Young

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/513832/robert-joseph-young-publications-by-year.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

257
papers

15,919
citations

63
h-index

119
g-index

261
ext. papers

17,986
ext. citations

7.4
avg, IF

6.94
L-index

#	Paper	IF	Citations
257	Silane-functionalized graphene nanoplatelets for silicone rubber nanocomposites. <i>Journal of Materials Science</i> , 2022 , 57, 2683-2696	4.3	2
256	Deformation of and Interfacial Stress Transfer in TiC MXene-Polymer Composites.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	1
255	Mechanisms of reinforcement of PVA-Based nanocomposites by hBN nanosheets. <i>Composites Science and Technology</i> , 2021 , 218, 109131	8.6	0
254	Spinning conditions affect structure and properties of Nephila spider silk. <i>MRS Bulletin</i> , 2021 , 46, 915	3.2	0
253	Suspended graphene arrays for gas sensing applications. <i>2D Materials</i> , 2021 , 8, 025006	5.9	5
252	Fundamental Insights into Graphene Strain Sensing. <i>Nano Letters</i> , 2021 , 21, 833-839	11.5	6
251	Deformation and tearing of graphene-reinforced elastomer nanocomposites. <i>Composites Communications</i> , 2021 , 25, 100764	6.7	0
250	Interlayer and interfacial stress transfer in hBN nanosheets. <i>2D Materials</i> , 2021 , 8, 035058	5.9	3
249	High-performance fluoroelastomer-graphene nanocomposites for advanced sealing applications. <i>Composites Science and Technology</i> , 2021 , 202, 108592	8.6	6
248	MoS2 Nanosheet-Coated Carbon Fibers as Strain Sensors in Epoxy Composites. <i>ACS Applied Nano Materials</i> , 2021 , 4, 9181-9189	5.6	1
247	Self-assembly of a layered two-dimensional molecularly woven fabric. <i>Nature</i> , 2020 , 588, 429-435	50.4	23
246	Mechanisms of Liquid-Phase Exfoliation for the Production of Graphene. <i>ACS Nano</i> , 2020 , 14, 10976-10985	15.7	59
245	Electronic devices based on solution-processed two-dimensional materials 2020 , 351-384		2
244	Anisotropic swelling of elastomers filled with aligned 2D materials. <i>2D Materials</i> , 2020 , 7, 025031	5.9	4
243	Realising biaxial reinforcement via orientation-induced anisotropic swelling in graphene-based elastomers. <i>Nanoscale</i> , 2020 , 12, 3377-3386	7.7	4
242	Strain engineering in monolayer WS2 and WS2 nanocomposites. <i>2D Materials</i> , 2020 , 7, 045022	5.9	16
241	PMMA-grafted graphene nanoplatelets to reinforce the mechanical and thermal properties of PMMA composites. <i>Carbon</i> , 2020 , 157, 750-760	10.4	30

240	Mechanisms of mechanical reinforcement by graphene and carbon nanotubes in polymer nanocomposites. <i>Nanoscale</i> , 2020 , 12, 2228-2267	7.7	121
239	Reinforcement of Polymer-Based Nanocomposites by Thermally Conductive and Electrically Insulating Boron Nitride Nanotubes. <i>ACS Applied Nano Materials</i> , 2020 , 3, 364-374	5.6	9
238	Multifunctional Biocomposites Based on Polyhydroxyalkanoate and Graphene/Carbon Nanofiber Hybrids for Electrical and Thermal Applications. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 3525-3534	4.3	20
237	Graphene/Polyurethane Coatings for Deformable Conductors and Electromagnetic Interference Shielding. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000429	6.4	8
236	Graphene and related materials in hierarchical fiber composites: Production techniques and key industrial benefits. <i>Composites Science and Technology</i> , 2020 , 185, 107848	8.6	20
235	A Simple Method for Anchoring Silver and Copper Nanoparticles on Single Wall Carbon Nanotubes. <i>Nanomaterials</i> , 2019 , 9,	5.4	4
234	Modelling mechanical percolation in graphene-reinforced elastomer nanocomposites. <i>Composites Part B: Engineering</i> , 2019 , 178, 107506	10	14
233	Surface functionality analysis by Boehm titration of graphene nanoplatelets functionalized via a solvent-free cycloaddition reaction. <i>Nanoscale Advances</i> , 2019 , 1, 1432-1441	5.1	20
232	Hybrid hollow spheres of carbon@CoNiMoO as advanced electrodes for high-performance asymmetric supercapacitors. <i>Nanoscale</i> , 2019 , 11, 3281-3291	7.7	54
231	Copper/graphene composites: a review. <i>Journal of Materials Science</i> , 2019 , 54, 12236-12289	4.3	98
230	Negative Gauge Factor Piezoresistive Composites Based on Polymers Filled with MoS Nanosheets. <i>ACS Nano</i> , 2019 , 13, 6845-6855	16.7	37
229	Hybrid poly(ether ether ketone) composites reinforced with a combination of carbon fibres and graphene nanoplatelets. <i>Composites Science and Technology</i> , 2019 , 175, 60-68	8.6	33
228	Chitin-derived porous carbon loaded with Co, N and S with enhanced performance towards electrocatalytic oxygen reduction, oxygen evolution, and hydrogen evolution reactions. <i>Electrochimica Acta</i> , 2019 , 304, 350-359	6.7	15
227	Graphene-Based Materials as Strain Sensors in Glass Fiber/Epoxy Model Composites. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31338-31345	9.5	5
226	The strength of mechanically-exfoliated monolayer graphene deformed on a rigid polymer substrate. <i>Nanoscale</i> , 2019 , 11, 14339-14353	7.7	12
225	Interfacial stress transfer in strain engineered wrinkled and folded graphene. <i>2D Materials</i> , 2019 , 6, 045026	5.9	20
224	Graphene/Polyelectrolyte Layer-by-Layer Coatings for Electromagnetic Interference Shielding. <i>ACS Applied Nano Materials</i> , 2019 , 2, 5272-5281	5.6	23
223	Benchmarking of graphene-based materials: real commercial products versus ideal graphene. <i>2D Materials</i> , 2019 , 6, 025006	5.9	39

222	The taxonomy of graphite nanoplatelets and the influence of nanocomposite processing. <i>Carbon</i> , 2019 , 142, 99-106	10.4	11
221	Micromechanics of reinforcement of a graphene-based thermoplastic elastomer nanocomposite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 110, 84-92	8.4	34
220	Investigating nanostructures in carbon fibres using Raman spectroscopy. <i>Carbon</i> , 2018 , 130, 178-184	10.4	50
219	Enhanced thermal and fire retardancy properties of polypropylene reinforced with a hybrid graphene/glass-fibre filler. <i>Composites Science and Technology</i> , 2018 , 156, 95-102	8.6	43
218	Electrical percolation in graphene-polymer composites. <i>2D Materials</i> , 2018 , 5, 032003	5.9	181
217	Realizing the theoretical stiffness of graphene in composites through confinement between carbon fibers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 113, 311-317	8.4	17
216	The Effect of Network Formation on the Mechanical Properties of 1D:2D Nano:Nano Composites. <i>Chemistry of Materials</i> , 2018 , 30, 5245-5255	9.6	27
215	Water Dispersible Few-Layer Graphene Stabilized by a Novel Pyrene Derivative at Micromolar Concentration. <i>Nanomaterials</i> , 2018 , 8,	5.4	6
214	The mechanics of reinforcement of polymers by graphene nanoplatelets. <i>Composites Science and Technology</i> , 2018 , 154, 110-116	8.6	152
213	Long-range oriented graphene-like nanosheets with corrugated structure. <i>Chemical Communications</i> , 2018 , 54, 13543-13546	5.8	2
212	The chemical functionalization of graphene nanoplatelets through solvent-free reaction.. <i>RSC Advances</i> , 2018 , 8, 33564-33573	3.7	11
211	Composites with carbon nanotubes and graphene: An outlook. <i>Science</i> , 2018 , 362, 547-553	33.3	396
210	Nanocomposites of graphene nanoplatelets in natural rubber: microstructure and mechanisms of reinforcement. <i>Journal of Materials Science</i> , 2017 , 52, 9558-9572	4.3	35
209	Strain-induced phonon shifts in tungsten disulfide nanoplatelets and nanotubes. <i>2D Materials</i> , 2017 , 4, 015007	5.9	57
208	Two-Step Electrochemical Intercalation and Oxidation of Graphite for the Mass Production of Graphene Oxide. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17446-17456	16.4	135
207	Mechanical properties of graphene and graphene-based nanocomposites. <i>Progress in Materials Science</i> , 2017 , 90, 75-127	42.2	1091
206	Microstructure and mechanical behaviour of aluminium matrix composites reinforced with graphene oxide and carbon nanotubes. <i>Journal of Materials Science</i> , 2017 , 52, 13466-13477	4.3	32
205	The mechanisms of reinforcement of polypropylene by graphene nanoplatelets. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017 , 216, 2-9	3.1	55

204	Deformation Mechanisms of Carbon Fibres and Carbon Fibre Composites 2017 , 341-357		
203	Interfacial and internal stress transfer in carbon nanotube based nanocomposites. <i>Journal of Materials Science</i> , 2016 , 51, 344-352	4.3	20
202	Hybrid multifunctional graphene/glass-fibre polypropylene composites. <i>Composites Science and Technology</i> , 2016 , 137, 44-51	8.6	66
201	The role of interlayer adhesion in graphene oxide upon its reinforcement of nanocomposites. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016 , 374, 20150283		18
200	Tensile failure phenomena in carbon fibres. <i>Carbon</i> , 2016 , 107, 474-481	10.4	23
199	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> , 2016 , 54, 281-291	2.6	37
198	Effect of the orientation of graphene-based nanoplatelets upon the Young's modulus of nanocomposites. <i>Composites Science and Technology</i> , 2016 , 123, 125-133	8.6	107
197	Carbon Nanotubes and Nanotube-Based Composites: Deformation Micromechanics. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2016 , 51-74	0.6	
196	Graphene and Graphene-Based Nanocomposites. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2016 , 75-98	0.6	1
195	The microstructure of a graphene-reinforced tennis racquet. <i>Journal of Materials Science</i> , 2016 , 51, 3861-3867	4.5	19
194	Carbon Fibre Composites: Deformation Micromechanics Analysed using Raman Spectroscopy. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2016 , 29-50	0.6	1
193	Sensitive electromechanical sensors using viscoelastic graphene-polymer nanocomposites. <i>Science</i> , 2016 , 354, 1257-1260	33.3	517
192	Mechanical Stability of Flexible Graphene-Based Displays. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22605-14	9.5	40
191	Deformation of wrinkled graphene. <i>ACS Nano</i> , 2015 , 9, 3917-25	16.7	120
190	Quantitative determination of the spatial orientation of graphene by polarized Raman spectroscopy. <i>Carbon</i> , 2015 , 88, 215-224	10.4	62
189	Graphene/elastomer nanocomposites. <i>Carbon</i> , 2015 , 95, 460-484	10.4	230
188	A numerical study of ply orientation on ballistic impact resistance of multi-ply fabric panels. <i>Composites Part B: Engineering</i> , 2015 , 68, 259-265	10	49
187	Electrochemical exfoliation of graphite in quaternary ammonium-based deep eutectic solvents: a route for the mass production of graphane. <i>Nanoscale</i> , 2015 , 7, 11386-92	7.7	43

186	The effect of flake diameter on the reinforcement of few-layer graphene/BMMA composites. <i>Composites Science and Technology</i> , 2015 , 111, 17-22	8.6	51
185	Raman Spectra and Mechanical Properties of Graphene/Polypropylene Nanocomposites. <i>International Journal of Chemical Engineering and Applications (IJCEA)</i> , 2015 , 6, 1-5	0.2	19
184	Factors controlling the strength of carbon fibres in tension. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014 , 57, 88-94	8.4	52
183	Few layer graphene-polypropylene nanocomposites: the role of flake diameter. <i>Faraday Discussions</i> , 2014 , 173, 379-90	3.6	36
182	Controlling and mapping interfacial stress transfer in fragmented hybrid carbon fibre/Carbon nanotube composites. <i>Composites Science and Technology</i> , 2014 , 100, 121-127	8.6	17
181	Coefficient of thermal expansion of carbon nanotubes measured by Raman spectroscopy. <i>Applied Physics Letters</i> , 2014 , 104, 051907	3.4	72
180	Unique Identification of Single-Walled Carbon Nanotubes in Electrospun Fibers. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 24025-24033	3.8	3
179	The rheological behaviour of concentrated dispersions of graphene oxide. <i>Journal of Materials Science</i> , 2014 , 49, 6311-6320	4.3	68
178	An investigation into the relationship between processing, structure and properties for high-modulus PBO fibres: part 3: analysis of fibre microstructure using transmission electron microscopy. <i>Journal of Materials Science</i> , 2014 , 49, 6467-6474	4.3	12
177	Dynamic microstructural evolution of graphite under displacing irradiation. <i>Carbon</i> , 2014 , 68, 273-284	10.4	22
176	Multimodal microscopy using 'half and half' contact mode and ultrasonic force microscopy. <i>Nanotechnology</i> , 2014 , 25, 335708	3.4	2
175	Wide-Area Strain Sensors based upon Graphene-Polymer Composite Coatings Probed by Raman Spectroscopy. <i>Advanced Functional Materials</i> , 2014 , 24, 2865-2874	15.6	102
174	Catalytic graphitization of electrospun cellulose nanofibres using silica nanoparticles. <i>Reactive and Functional Polymers</i> , 2014 , 85, 235-238	4.6	7
173	Hybrid carbon fibre/Carbon nanotube composite interfaces. <i>Composites Science and Technology</i> , 2014 , 95, 114-120	8.6	38
172	Raman Spectroscopy: Graphene and Steel Interaction 2014 , 1-6		
171	Reversible loss of Bernal stacking during the deformation of few-layer graphene in nanocomposites. <i>ACS Nano</i> , 2013 , 7, 7287-94	16.7	61
170	The role of functional groups on graphene oxide in epoxy nanocomposites. <i>Polymer</i> , 2013 , 54, 5821-5829	9.9	130
169	Deoxygenation of Graphene Oxide: Reduction or Cleaning?. <i>Chemistry of Materials</i> , 2013 , 25, 3580-3588	9.6	172

168	Control of the functionality of graphene oxide for its application in epoxy nanocomposites. <i>Polymer</i> , 2013 , 54, 6437-6446	3.9	211
167	Supercapacitance from cellulose and carbon nanotube nanocomposite fibers. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 9983-90	9.5	152
166	Carbon nanofibres produced from electrospun cellulose nanofibres. <i>Carbon</i> , 2013 , 58, 66-75	10.4	127
165	Graphene oxide and base-washed graphene oxide as reinforcements in PMMA nanocomposites. <i>Composites Science and Technology</i> , 2013 , 88, 158-164	8.6	63
164	The effect of nanostructure upon the deformation micromechanics of carbon fibres. <i>Carbon</i> , 2013 , 52, 372-378	10.4	44
163	The effect of nanostructure upon the compressive strength of carbon fibres. <i>Journal of Materials Science</i> , 2013 , 48, 2104-2110	4.3	18
162	Identifying the fluorescence of graphene oxide. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 338-342	7.1	102
161	Investigation of the sp ³ structure of carbon fibres using UV-Raman spectroscopy. <i>Tanso</i> , 2013 , 2013, 243-247	0.1	2
160	Two-Dimensional Nanocrystals: Structure, Properties and Applications. <i>Arabian Journal for Science and Engineering</i> , 2013 , 38, 1289-1304		6
159	Salt-assisted direct exfoliation of graphite into high-quality, large-size, few-layer graphene sheets. <i>Nanoscale</i> , 2013 , 5, 7202-8	7.7	77
158	Interfacial stress transfer in graphene oxide nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 456-63	9.5	129
157	Carbon in Polymer 2013 , 695-728		1
156	Optimizing the reinforcement of polymer-based nanocomposites by graphene. <i>ACS Nano</i> , 2012 , 6, 2086-95	16.7	217
155	The mechanics of graphene nanocomposites: A review. <i>Composites Science and Technology</i> , 2012 , 72, 1459-1476	8.6	893
154	Effective Young's modulus of bacterial and microfibrillated cellulose fibrils in fibrous networks. <i>Biomacromolecules</i> , 2012 , 13, 1340-9	6.9	160
153	Rapidly switchable water-sensitive shape-memory cellulose/elastomer nano-composites. <i>Soft Matter</i> , 2012 , 8, 2509	3.6	176
152	Production of carbon fibres from a pyrolysed and graphitised liquid crystalline cellulose fibre precursor. <i>Journal of Materials Science</i> , 2012 , 47, 5402-5410	4.3	56
151	Strain mapping in a graphene monolayer nanocomposite. <i>ACS Nano</i> , 2011 , 5, 3079-84	16.7	127

150	The effective Young's modulus of carbon nanotubes in composites. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 433-40	9.5	82
149	Graphene Composites 2011 ,		4
148	Toughening of epoxy matrices with reduced single-walled carbon nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 2309-17	9.5	73
147	Silver-decorated carbon nanotube networks as SERS substrates. <i>Journal of Raman Spectroscopy</i> , 2011 , 42, 1255-1262	2.3	18
146	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> , 2011 , 21, 364-371	15.6	59
145	The Real Graphene Oxide Revealed: Stripping the Oxidative Debris from the Graphene-like Sheets. <i>Angewandte Chemie</i> , 2011 , 123, 3231-3235	3.6	106
144	The real graphene oxide revealed: stripping the oxidative debris from the graphene-like sheets. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3173-7	16.4	485
143	Structure of and stress transfer in fibres spun from carbon nanotubes produced by chemical vapour deposition. <i>Carbon</i> , 2011 , 49, 4149-4158	10.4	54
142	Simultaneous global and local strain sensing in SWCNT/epoxy composites by Raman and impedance spectroscopy. <i>Composites Science and Technology</i> , 2011 , 71, 160-166	8.6	62
141	Formation mechanism of peapod-derived double-walled carbon nanotubes. <i>Physical Review B</i> , 2010 , 82,	3.3	28
140	Strong dependence of mechanical properties on fiber diameter for polymer-nanotube composite fibers: differentiating defect from orientation effects. <i>ACS Nano</i> , 2010 , 4, 6989-97	16.7	68
139	Comparing single-walled carbon nanotubes and samarium oxide as strain sensors for model glass-fibre/epoxy composites. <i>Composites Science and Technology</i> , 2010 , 70, 88-93	8.6	27
138	Assessment of interface damage during the deformation of carbon nanotube composites. <i>Journal of Materials Science</i> , 2010 , 45, 1425-1431	4.3	24
137	The influence of the lateral filament texture on the compressive properties of PpPTA aramid filaments. <i>Journal of Materials Science</i> , 2010 , 45, 2708-2714	4.3	2
136	Response to Comment on the Effect of Stress Transfer Within Double-Walled Carbon Nanotubes upon Their Ability to Reinforce Composites. <i>Advanced Materials</i> , 2010 , 22, 1180-1181	24	3
135	Interfacial stress transfer in a graphene monolayer nanocomposite. <i>Advanced Materials</i> , 2010 , 22, 2694-2704	24	465
134	Characterization of the adhesion of single-walled carbon nanotubes in poly(p-phenylene terephthalamide) composite fibres. <i>Polymer</i> , 2010 , 51, 2033-2039	3.9	37
133	Micromechanical analysis of the kink-band performance at the interface of a thermoplastic composite under tensile deformation. <i>Polymer Composites</i> , 2010 , 31, 1817-1821	3	7

132	The Effect of Stress Transfer Within Double-Walled Carbon Nanotubes Upon Their Ability to Reinforce Composites. <i>Advanced Materials</i> , 2009 , 21, 3591-3595	24	64
131	SWNT composite coatings as a strain sensor on glass fibres in model epoxy composites. <i>Composites Science and Technology</i> , 2009 , 69, 1547-1552	8.6	32
130	Imaging microstructure and stress fields within a cross-ply composite laminate. <i>Composites Science and Technology</i> , 2009 , 69, 567-574	8.6	
129	Deformation micromechanics of a model cellulose/glass fibre hybrid composite. <i>Composites Science and Technology</i> , 2009 , 69, 2218-2224	8.6	22
128	Graphene oxide: structural analysis and application as a highly transparent support for electron microscopy. <i>ACS Nano</i> , 2009 , 3, 2547-56	16.7	559
127	Meso-scale strain mapping in UD woven composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009 , 40, 1838-1845	8.4	19
126	Molecular and Crystal Deformation in Poly(aryl ether ether ketone) Fibers. <i>Macromolecules</i> , 2008 , 41, 7519-7524	5.5	14
125	Raman Applications in Synthetic and Natural Polymer Fibers and Their Composites 2008 , 63-94		4
124	Deformation micromechanics of model glass fibre composites. <i>Composites Science and Technology</i> , 2008 , 68, 848-853	8.6	9
123	Deformation micromechanics of spider silk. <i>Journal of Materials Science</i> , 2008 , 43, 3728-3732	4.3	21
122	Analysis of the structure and deformation of a woven composite lamina using X-ray microdiffraction. <i>Journal of Materials Science</i> , 2008 , 43, 6724-6733	4.3	3
121	Debundling, isolation, and identification of carbon nanotubes in electrospun nanofibers. <i>Small</i> , 2008 , 4, 930-3	11	17
120	A strength based criterion for the prediction of stable fibre crack-bridging. <i>Composites Science and Technology</i> , 2008 , 68, 1282-1296	8.6	8
119	Influence of domain orientation on the mechanical properties of regenerated cellulose fibers. <i>Biomacromolecules</i> , 2007 , 8, 624-30	6.9	25
118	Effect of residual stresses upon the Raman radial breathing modes of nanotubes in epoxy composites. <i>Composites Science and Technology</i> , 2007 , 67, 840-843	8.6	19
117	Unique identification of single-walled carbon nanotubes in composites. <i>Composites Science and Technology</i> , 2007 , 67, 2135-2149	8.6	28
116	Controlled interfacial adhesion of Twaron [®] aramid fibres in composites by the finish formulation. <i>Composites Science and Technology</i> , 2007 , 67, 2027-2035	8.6	40
115	Deformation mechanisms in polymer fibres and nanocomposites. <i>Polymer</i> , 2007 , 48, 2-18	3.9	86

114	Single-Walled Carbon Nanotube Networks Decorated with Silver Nanoparticles: A Novel Graded SERS Substrate. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 16167-16173	3.8	97
113	Characterization of carbon coatings on SiC monofilaments using Raman spectroscopy. <i>Journal of Materials Science</i> , 2007 , 42, 5135-5141	4.3	5
112	Deformation of isolated single-wall carbon nanotubes in electrospun polymer nanofibres. <i>Nanotechnology</i> , 2007 , 18, 235707	3.4	58
111	Investigation of interfacial stress transfer in a PBO/polypropylene microdroplet composite using synchrotron microfocus X-ray diffraction. <i>Composite Interfaces</i> , 2007 , 14, 351-359	2.3	1
110	Deformation Micromechanics of a Thermoplastic/Thermoset Fiber/Matrix Interface using the Single Fiber Composite Test. <i>Journal of Composite Materials</i> , 2007 , 41, 1087-1099	2.7	1
109	Effect of excitation wavelength on the Raman scattering from optical phonons in silicon carbide monofilaments. <i>Journal of Applied Physics</i> , 2007 , 102, 023512	2.5	14
108	Probing the internal geometry of a woven composite during deformation using an x-ray microdiffraction imaging technique. <i>Applied Physics Letters</i> , 2007 , 91, 044102	3.4	7
107	Molecular orientation distributions in a biaxially oriented poly(L-lactic acid) film determined by polarized Raman spectroscopy. <i>Biomacromolecules</i> , 2006 , 7, 2575-82	6.9	12
106	Molecular Orientation Distributions in Uniaxially Oriented Poly(L-lactic acid) Films Determined by Polarized Raman Spectroscopy. <i>Macromolecules</i> , 2006 , 39, 3312-3321	5.5	21
105	Analysis of interfacial micromechanics in microdroplet model composites using synchrotron microfocus X-ray diffraction. <i>Composites Science and Technology</i> , 2006 , 66, 2197-2205	8.6	18
104	Molecular Orientation Distributions in the Crystalline and Amorphous Regions of Uniaxially Oriented Isotactic Polypropylene Films Determined by Polarized Raman Spectroscopy. <i>Journal of Macromolecular Science - Physics</i> , 2005 , 44, 967-991	1.4	14
103	Modeling crystal and molecular deformation in regenerated cellulose fibers. <i>Biomacromolecules</i> , 2005 , 6, 507-13	6.9	101
102	Micromechanical phenomena during hygrothermal ageing of model composites investigated by Raman spectroscopy. Part I: Twaron fibres with different surface treatments. <i>Composites Part A: Applied Science and Manufacturing</i> , 2005 , 36, 1011-1019	8.4	4
101	Micromechanical phenomena during hygrothermal ageing of model composites investigated by Raman spectroscopy. Part II: comparison of the behaviour of PBO and M5 fibres compared with Twaron. <i>Composites Part A: Applied Science and Manufacturing</i> , 2005 , 36, 1020-1026	8.4	8
100	Crystallographic texturing in single poly(p-phenylene benzobisoxazole) fibres investigated using synchrotron radiation. <i>Polymer</i> , 2005 , 46, 1935-1942	3.9	22
99	The Manchester Conference Centre, Manchester, UK, 14-16 July 2004. <i>Journal of Materials Science</i> , 2005 , 40, 5339-5340	4.3	
98	Interfacial micromechanics of technora fibre/epoxy composites. <i>Journal of Materials Science</i> , 2005 , 40, 5381-5386	4.3	6
97	Chemically Engineered Carbon Nanotube-Polymer Composite Coatings for use as Remote Strain-Sensors. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 858, 265		1

96	Determination of the axial and radial fibre stress distributions for the Broutman test. <i>Composites Science and Technology</i> , 2004 , 64, 181-189	8.6	9
95	Gravimetric determination of the diffusion characteristics of polymers using small specimens. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004 , 42, 2122-2128	2.6	6
94	Smart Nanostructured Polymeric Coatings for Use as Remote optical Strain Sensors. <i>Advanced Engineering Materials</i> , 2004 , 6, 729-733	3.5	6
93	Crystal lattice deformation in single poly(p-phenylene benzobisoxazole) fibres. <i>Polymer</i> , 2004 , 45, 7693-7704	3.7	44
92	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> , 2004 , 64, 645-656	8.6	43
91	Composite micromechanics of hemp fibres and epoxy resin microdroplets. <i>Composites Science and Technology</i> , 2004 , 64, 767-772	8.6	116
90	A Raman spectroscopic investigation of heating effects and the deformation behaviour of epoxy/SWNT composites. <i>Composites Science and Technology</i> , 2004 , 64, 2291-2295	8.6	59
89	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> , 2004 , 64, 2297-2302	8.6	35
88	Analysis of Stress Transfer in Two-Phase Polymer Systems Using Synchrotron Microfocus X-ray Diffraction. <i>Macromolecules</i> , 2004 , 37, 9503-9509	5.5	21
87	Collapse of single-wall carbon nanotubes is diameter dependent. <i>Physical Review Letters</i> , 2004 , 92, 095501	5.1	303
86	Deformation micromechanics of natural cellulose fibre networks and composites. <i>Composites Science and Technology</i> , 2003 , 63, 1225-1230	8.6	58
85	Measurement of micro stress fields in epoxy matrix around a fibre using phase-stepping automated photoelasticity. <i>Composites Science and Technology</i> , 2003 , 63, 1783-1787	8.6	22
84	Characterisation of the microstructure and deformation of high modulus cellulose fibres. <i>Polymer</i> , 2003 , 44, 5901-5908	3.9	49
83	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> , 2003 , 4, 387-94	6.9	126
82	Raman-Active Nanostructured Materials for Use as Novel Stress-Sensitive Polymeric Coatings. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 791, 1		3
81	Deformation Behavior of the Raman Radial Breathing Modes of Single-Wall Carbon Nanotubes in Composites. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 791, 359		
80	Investigation of elastic property relationships for flake and spheroidal cast irons using Raman spectroscopy. <i>Acta Materialia</i> , 2002 , 50, 4037-4046	8.4	18
79	Effect of temperature on the graphitization process of a semianthracite. <i>Fuel Processing Technology</i> , 2002 , 79, 245-250	7.2	29

78	Deformation studies of single rigid-rod polymer-based fibres. Part 1. Determination of crystal modulus. <i>Polymer</i> , 2002 , 43, 5219-5226	3.9	20
77	Raman spectroscopy study of high-modulus carbon fibres: effect of plasma-treatment on the interfacial properties of single-fibre/epoxy composites. <i>Carbon</i> , 2002 , 40, 857-875	10.4	76
76	Raman spectroscopy study of HM carbon fibres: effect of plasma treatment on the interfacial properties of single fibre/epoxy composites. <i>Carbon</i> , 2002 , 40, 845-855	10.4	174
75	An investigation into the relationship between processing, structure, and properties for high-modulus PBO fibers. II. Hysteresis of stress-induced Raman band shifts and peak broadening, and skin-core structure. <i>Journal of Macromolecular Science - Physics</i> , 2002 , 41, 61-76	1.4	20
74	Determination of residual stresses in SiC monofilament reinforced metal-matrix composites using Raman spectroscopy. <i>Composites Part A: Applied Science and Manufacturing</i> , 2002 , 33, 1409-1416	8.4	19
73	Microstructural analysis of silicon carbide monofilaments. <i>Journal of Microscopy</i> , 2001 , 201, 179-188	1.9	12
72	A microstructural study of silicon carbide fibres through the use of Raman microscopy. <i>Journal of Materials Science</i> , 2001 , 36, 55-66	4.3	51
71	Deformation studies of thermotropic aromatic copolyesters using NIR Raman spectroscopy. <i>Polymer</i> , 2001 , 42, 7857-7863	3.9	9
70	Other high modulus-high tenacity (HM-HT) fibres from linear polymers 2001 , 93-155		8
69	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> , 2001 , 32, 435-443	8.4	71
68	Characterization and micromechanical testing of the interphase of aramid-reinforced epoxy composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2001 , 32, 331-342	8.4	52
67	Fragmentation analysis of glass fibres in model composites through the use of Raman spectroscopy. <i>Composites Part A: Applied Science and Manufacturing</i> , 2001 , 32, 253-269	8.4	26
66	Interfacial failure in poly(p-phenylene benzobisoxazole) (PBO)/epoxy single fibre pull-out specimens. <i>Composites Part A: Applied Science and Manufacturing</i> , 2001 , 32, 445-455	8.4	37
65	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> , 2001 , 32, 401-411	8.4	362
64	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> , 2001 , 32, 361-371	8.4	115
63	Deformation of PBO/epoxy plain weave fabric laminae followed using Raman spectroscopy. <i>Composites Part A: Applied Science and Manufacturing</i> , 2001 , 32, 499-509	8.4	18
62	Deformation Mechanisms in Natural Polymer Fibers and Composites. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 711, 1		
61	Molecular deformation in spider dragline silk subjected to stress. <i>Polymer</i> , 2000 , 41, 1223-1227	3.9	62

60	Experimental studies on the interfacial shear-transfer mechanism in discontinuous glass-fibre composites. <i>Composites Science and Technology</i> , 2000 , 60, 361-365	8.6	19
59	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> , 2000 , 31, 165-171	8.4	33
58	Molecular deformation processes in aromatic high modulus polymer fibres. <i>Polymer</i> , 1999 , 40, 857-870	3.9	93
57	Analysis of spider silk in native and supercontracted states using Raman spectroscopy. <i>Polymer</i> , 1999 , 40, 2493-2500	3.9	130
56	Tensile and compressive deformation of polypyridobisimidazole (PIPD)-based 'M5' rigid-rod polymer fibres. <i>Polymer</i> , 1999 , 40, 3421-3431	3.9	52
55	Thermal residual stresses and their toughening effect in Al ₂ O ₃ platelet reinforced glass. <i>Acta Materialia</i> , 1999 , 47, 3233-3240	8.4	41
54	The effect of solvents on spider silk studied by mechanical testing and single-fibre Raman spectroscopy. <i>International Journal of Biological Macromolecules</i> , 1999 , 24, 295-300	7.9	79
53	Evaluation of interface fracture energy for single-fibre composites. <i>Composites Science and Technology</i> , 1998 , 58, 1907-1916	8.6	36
52	Preparation and use of diacetylene-containing polyesters for studying deformation micromechanics in model polyester-polyolefin blends. <i>Macromolecular Symposia</i> , 1997 , 118, 395-400	0.8	2
51	Interfacial failure in ceramic fibre/glass composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 1996 , 27, 737-741	8.4	15
50	Deformation micromechanics in high-volume-fraction aramid/epoxy composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 1996 , 27, 889-894	8.4	6
49	A study of transcrystalline polypropylene/ single-aramid-fibre pull-out behaviour using Raman spectroscopy. <i>Composites Part A: Applied Science and Manufacturing</i> , 1996 , 27, 833-838	8.4	25
48	Interfacial micromechanics in thermoplastic and thermosetting matrix carbon fibre composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 1996 , 27, 973-980	8.4	34
47	Analysis of the Single-Fiber Pullout Test Using Raman Spectroscopy: Part III, Pullout of Nicalon Fibers from a Pyrex Matrix. <i>Journal of the American Ceramic Society</i> , 1996 , 79, 1868-1874	3.8	13
46	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> , 1995 , 53, 411-421	8.6	66
45	Measurement of thermal strains during compressive fragmentation in single-fibre composites by Raman spectroscopy. <i>Composites Science and Technology</i> , 1995 , 55, 223-229	8.6	16
44	Interfacial behaviour in high temperature cured carbon fibre/epoxy resin model composite. <i>Composites</i> , 1995 , 26, 541-550		57
43	Determination of residual strains in ceramic-fibre reinforced composites using fluorescence spectroscopy. <i>Acta Metallurgica Et Materialia</i> , 1995 , 43, 2407-2416		21

42	Effect of fibre microstructure upon the modulus of PAN- and pitch-based carbon fibres. <i>Carbon</i> , 1995 , 33, 97-107	10.4	188
41	Strain measurement and deformation analysis in a diacetylene-containing urethane copolymer using Raman spectroscopy. <i>Polymer</i> , 1994 , 35, 80-85	3.9	11
40	Deformation micromechanics in high-performance polymer fibres and composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994 , 184, 197-205	5.3	18
39	Analysis of the fragmentation test for carbon-fibre/epoxy model composites by means of Raman spectroscopy. <i>Composites Science and Technology</i> , 1994 , 52, 505-517	8.6	72
38	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> , 1994 , 52, 387-396	8.6	25
37	Chain stretching in a poly(ethylene terephthalate) fibre. <i>Polymer</i> , 1994 , 35, 3844-3847	3.9	23
36	Simultaneous SAXS/WAXS and d.s.c. analysis of the melting and recrystallization behaviour of quenched polypropylene. <i>Polymer</i> , 1994 , 35, 1352-1358	3.9	93
35	Model ceramic fibre-reinforced glass composites: residual thermal stresses. <i>Composites</i> , 1994 , 25, 488-493		35
34	Deformation micromechanics in aramid/epoxy composites. <i>Composites</i> , 1994 , 25, 745-751		18
33	Deformation micromechanics in high-modulus fibres and composites. <i>Composites Science and Technology</i> , 1993 , 48, 255-261	8.6	37
32	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> , 1993 , 34, 61-69	3.9	48
31	Structure-property relationships in novel polydiacetylene-containing oligoester: Polyolefin blends. <i>Polymer Bulletin</i> , 1993 , 30, 347-352	2.4	6
30	The relationship between structure and properties in titanium dioxide filled polypropylene. <i>Polymer Bulletin</i> , 1993 , 30, 361-368	2.4	16
29	The formation, structure and properties of urethane-diacetylene copolymers as optical strain-sensitive surface coatings. <i>Progress in Organic Coatings</i> , 1992 , 20, 425-446	4.8	6
28	Dependence of fibre strain on orientation angle for off-axis fibres in composites. <i>Journal of Materials Science Letters</i> , 1992 , 11, 1344-1346		22
27	Relationship between structure and mechanical properties in high-modulus poly(2,5(6)-benzoxazole) (ABPBO) fibres. <i>Polymer</i> , 1992 , 33, 975-982	3.9	17
26	Introduction to Polymers 1992 ,		9
25	Formation and properties of urethane-diacetylene segmented block copolymers. <i>Polymer</i> , 1991 , 32, 1713-1725	3.9	20

24	Deformation mechanisms in biaxially drawn polyethylene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1991 , 29, 825-835	2.6	19
23	The opto-mechanical behaviour of diacetylene-containing segmented block copolymers. <i>Polymer Bulletin</i> , 1991 , 27, 353-359	2.4	8
22	Introduction to Polymers 1991 ,		419
21	Tensile properties of biaxially drawn polyethylene. <i>Polymer</i> , 1990 , 31, 231-236	3.9	26
20	Fibre deformation and residual thermal stresses in carbon fibre reinforced PEEK. <i>Composites Science and Technology</i> , 1989 , 34, 243-258	8.6	42
19	Application of raman microscopy to the analysis of high modulus polymer fibres and composites. <i>British Polymer Journal</i> , 1989 , 21, 17-21		35
18	Raman spectroscopy of stressed high modulus poly(p-phenylene benzobisthiazole) fibres. <i>Polymer</i> , 1987 , 28, 1833-1840	3.9	81
17	Direct imaging of molecules in polydiacetylene single crystals. <i>Polymer</i> , 1986 , 27, 202-210	3.9	19
16	The solid-state polymerization and physical properties of bis(ethyl urethane) of 2,4-hexadiyne-1,6-diol: 3. Mechanical properties. <i>Polymer</i> , 1983 , 24, 1023-1030	3.9	37
15	The mechanical properties of epoxy resins. <i>Journal of Materials Science</i> , 1980 , 15, 1814-1822	4.3	94
14	The mechanical properties of epoxy resins. <i>Journal of Materials Science</i> , 1980 , 15, 1823-1831	4.3	105
13	Crack Propagation in Thermosetting Polymers 1980 , 257-283		5
12	Crack propagation in and fractography of epoxy resins. <i>Journal of Materials Science</i> , 1979 , 14, 1609-1618	4.3	62
11	Structure and morphology of polydiacetylene single crystals. <i>Faraday Discussions of the Chemical Society</i> , 1979 , 68, 509		7
10	Relationship between mechanical properties of and crack progogation in epoxy resin adhesives. <i>Polymer</i> , 1978 , 19, 574-582	3.9	115
9	Crack velocity and the fracture of bone. <i>Journal of Biomechanics</i> , 1978 , 11, 473-9	2.9	62
8	Stability of crack propagation in epoxy resins. <i>Polymer</i> , 1977 , 18, 1075-1080	3.9	106
7	The fracture stress of poly(methylmethacrylate). <i>Materials Science and Engineering</i> , 1977 , 30, 181-185		4

6	Crack propagation and arrest in epoxy resins. <i>Journal of Materials Science</i> , 1976 , 11, 776-779	4.3	39
5	Time-dependent failure of poly(methyl methacrylate). <i>Polymer</i> , 1976 , 17, 717-722	3.9	28
4	Deformation mechanisms in polytetrafluoroethylene. <i>Polymer</i> , 1975 , 16, 450-458	3.9	7
3	Failure of brittle polymers by slow crack growth. <i>Journal of Materials Science</i> , 1975 , 10, 1334-1342	4.3	83
2	Introduction to Polymers		242
1	Controlling and Monitoring Crack Propagation in Monolayer Graphene Single Crystals. <i>Advanced Functional Materials</i> , 2202373	15.6	