

Karl Schulte

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236
papers

18,231
citations

62
h-index

131
g-index

246
ext. papers

19,582
ext. citations

5.6
avg. IF

6.57
L-index

#	Paper	IF	Citations
236	Development of a dispersion process for carbon nanotubes in an epoxy matrix and the resulting electrical properties. <i>Polymer</i> , 1999 , 40, 5967-5971	3.9	1230
235	Carbon nanotube-reinforced epoxy-composites: enhanced stiffness and fracture toughness at low nanotube content. <i>Composites Science and Technology</i> , 2004 , 64, 2363-2371	8.6	1197
234	Influence of different carbon nanotubes on the mechanical properties of epoxy matrix composites [A comparative study. <i>Composites Science and Technology</i> , 2005 , 65, 2300-2313	8.6	988
233	Evaluation and identification of electrical and thermal conduction mechanisms in carbon nanotube/epoxy composites. <i>Polymer</i> , 2006 , 47, 2036-2045	3.9	916
232	Formation of percolating networks in multi-wall carbon-nanotube/epoxy composites. <i>Composites Science and Technology</i> , 2004 , 64, 2309-2316	8.6	521
231	Influence of nano-modification on the mechanical and electrical properties of conventional fibre-reinforced composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2005 , 36, 1525-1535	8.4	500
230	Surface modified multi-walled carbon nanotubes in CNT/epoxy-composites. <i>Chemical Physics Letters</i> , 2003 , 370, 820-824	2.5	497
229	Fundamental aspects of nano-reinforced composites. <i>Composites Science and Technology</i> , 2006 , 66, 3115-3125	3.1	493
228	Electric field-induced aligned multi-wall carbon nanotube networks in epoxy composites. <i>Polymer</i> , 2005 , 46, 877-886	3.9	410
227	Functionalisation effect on the thermo-mechanical behaviour of multi-wall carbon nanotube/epoxy-composites. <i>Composites Science and Technology</i> , 2004 , 64, 2303-2308	8.6	406
226	Functionally graded materials for biomedical applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 362, 40-60	5.3	370
225	Load and failure analyses of CFRP laminates by means of electrical resistivity measurements. <i>Composites Science and Technology</i> , 1989 , 36, 63-76	8.6	366
224	Fracture toughness and failure mechanism of graphene based epoxy composites. <i>Composites Science and Technology</i> , 2014 , 97, 90-99	8.6	354
223	Glass-fibre-reinforced composites with enhanced mechanical and electrical properties [Benefits and limitations of a nanoparticle modified matrix. <i>Engineering Fracture Mechanics</i> , 2006 , 73, 2346-2359	4.2	307
222	Aerographite: ultra lightweight, flexible nanowall, carbon microtube material with outstanding mechanical performance. <i>Advanced Materials</i> , 2012 , 24, 3486-90	24	302
221	Thermo-mechanical properties of randomly oriented carbon/epoxy nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2005 , 36, 1555-1561	8.4	295
220	Two percolation thresholds in carbon nanotube epoxy composites. <i>Composites Science and Technology</i> , 2007 , 67, 922-928	8.6	280

219	Load and health monitoring in glass fibre reinforced composites with an electrically conductive nanocomposite epoxy matrix. <i>Composites Science and Technology</i> , 2008 , 68, 1886-1894	8.6	269
218	A comparative study of melt spun polyamide-12 fibres reinforced with carbon nanotubes and nanofibres. <i>Polymer</i> , 2004 , 45, 2001-2015	3.9	264
217	Failure behavior of an epoxy matrix under different kinds of static loading. <i>Composites Science and Technology</i> , 2001 , 61, 1615-1624	8.6	225
216	Preparation and characterization of graphite nano-platelet (GNP)/epoxy nano-composite: Mechanical, electrical and thermal properties. <i>European Polymer Journal</i> , 2013 , 49, 3878-3888	5.2	218
215	Agglomeration and electrical percolation behavior of carbon black dispersed in epoxy resin. <i>Journal of Applied Polymer Science</i> , 1997 , 63, 1741-1746	2.9	203
214	Damage detection in CFRP by electrical conductivity mapping. <i>Composites Science and Technology</i> , 2001 , 61, 921-930	8.6	198
213	Low Percolation Threshold in Nanocomposites Based on Oxidized Single Wall Carbon Nanotubes and Poly(butylene terephthalate). <i>Macromolecules</i> , 2004 , 37, 7669-7672	5.5	183
212	Piezoresistive response of epoxy composites with carbon nanoparticles under tensile load. <i>Physical Review B</i> , 2009 , 80,	3.3	180
211	Non-destructive testing of FRP by d.c. and a.c. electrical methods. <i>Composites Science and Technology</i> , 2001 , 61, 837-847	8.6	176
210	CFRP-Recycling Following a Pyrolysis Route: Process Optimization and Potentials. <i>Journal of Composite Materials</i> , 2009 , 43, 1121-1132	2.7	174
209	Synergistic effects in network formation and electrical properties of hybrid epoxy nanocomposites containing multi-wall carbon nanotubes and carbon black. <i>Journal of Materials Science</i> , 2009 , 44, 3241-3247	4.3	156
208	Mode I and mode II fracture toughness of E-glass non-crimp fabric/carbon nanotube (CNT) modified polymer based composites. <i>Engineering Fracture Mechanics</i> , 2008 , 75, 5151-5162	4.2	155
207	Probabilistic Failure Strength Analyses of Graphite/Epoxy Cross-Ply Laminates. <i>Journal of Composite Materials</i> , 1984 , 18, 339-356	2.7	131
206	Toughening mechanisms in polymer nanocomposites: From experiments to modelling. <i>Composites Science and Technology</i> , 2016 , 123, 187-204	8.6	130
205	Water transport in epoxy/MWCNT composites. <i>European Polymer Journal</i> , 2013 , 49, 2138-2148	5.2	121
204	Polymer nanocomposite membranes for DMFC application. <i>Journal of Membrane Science</i> , 2005 , 254, 139-146	9.6	120
203	On nanocomposite toughness. <i>Composites Science and Technology</i> , 2008 , 68, 329-331	8.6	119
202	Alternating electric field induced agglomeration of carbon black filled resins. <i>Polymer</i> , 2002 , 43, 3079-3083	3.3	110

201	Improvement of fatigue life by incorporation of nanoparticles in glass fibre reinforced epoxy. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010 , 41, 1419-1424	8.4	109
200	Anomalous percolation transition in carbon-black/epoxy composite materials. <i>Physical Review B</i> , 1999 , 59, 14349-14355	3.3	108
199	Processing and assessment of poly(butylene terephthalate) nanocomposites reinforced with oxidized single wall carbon nanotubes. <i>Polymer</i> , 2005 , 46, 5860-5867	3.9	104
198	Critical aspects related to processing of carbon nanotube/unsaturated thermoset polyester nanocomposites. <i>European Polymer Journal</i> , 2007 , 43, 374-379	5.2	94
197	Rheological and dynamic-mechanical behavior of carbon nanotube/vinyl ester/polyester suspensions and their nanocomposites. <i>European Polymer Journal</i> , 2007 , 43, 2836-2847	5.2	93
196	Strain concentration factors for fibers and matrix in unidirectional composites. <i>Composites Science and Technology</i> , 1991 , 41, 237-256	8.6	91
195	Hydrothermally resistant thermally reduced graphene oxide and multi-wall carbon nanotube based epoxy nanocomposites. <i>Polymer Degradation and Stability</i> , 2013 , 98, 519-526	4.7	89
194	Nanocomposites of poly(vinyl chloride) with carbon nanotubes (CNT). <i>Composites Science and Technology</i> , 2007 , 67, 890-894	8.6	87
193	In situ observation of electric field induced agglomeration of carbon black in epoxy resin. <i>Applied Physics Letters</i> , 1998 , 72, 2903-2905	3.4	85
192	Crystallization of Carbon Nanotube and Nanofiber Polypropylene Composites. <i>Journal of Macromolecular Science - Physics</i> , 2003 , 42, 479-488	1.4	83
191	Characterization and Analysis of Damage Mechanisms in Tension-Tension Fatigue of Graphite/Epoxy Laminates	21-21-35	81
190	Analyzing the quality of carbon nanotube dispersions in polymers using scanning electron microscopy. <i>Carbon</i> , 2007 , 45, 1279-1288	10.4	79
189	Can carbon nanotubes be used to sense damage in composites?. <i>European Journal of Control</i> , 2004 , 29, 81-94	2.5	79
188	The effect of carbon nanoparticles on the fatigue performance of carbon fibre reinforced epoxy. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014 , 67, 233-240	8.4	76
187	Damage mapping of GFRP via electrical resistance measurements using nanocomposite epoxy matrix systems. <i>Composites Part B: Engineering</i> , 2014 , 65, 80-88	10	74
186	Tensile mechanical behavior and fracture toughness of MWCNT and DWCNT modified vinyl-ester/polyester hybrid nanocomposites produced by 3-roll milling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 523, 85-92	5.3	74
185	Creep and recovery of epoxy/MWCNT nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012 , 43, 1212-1218	8.4	73
184	Finite-element modeling of initial matrix failure in CFRP under static transverse tensile load. <i>Composites Science and Technology</i> , 2001 , 61, 95-105	8.6	73

183	Comparison of rheological and electrical percolation phenomena in carbon black and carbon nanotube filled epoxy polymers. <i>Journal of Materials Science</i> , 2011 , 46, 659-669	4.3	72
182	Direction sensitive bending sensors based on multi-wall carbon nanotube/epoxy nanocomposites. <i>Nanotechnology</i> , 2008 , 19, 475503	3.4	72
181	On the manufacturing and electrical and mechanical properties of ultra-high wt.% fraction aligned MWCNT and randomly oriented CNT epoxy composites. <i>Carbon</i> , 2015 , 91, 275-290	10.4	70
180	Fracture behaviour of fumed silica/epoxy nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008 , 39, 1851-1858	8.4	68
179	Advanced Calculation of the Room-Temperature Shapes of Unsymmetric Laminates. <i>Journal of Composite Materials</i> , 1999 , 33, 1472-1490	2.7	68
178	Microscopic yielding of CF/epoxy composites and the effect on the formation of thermal residual stresses. <i>Composites Science and Technology</i> , 2005 , 65, 1626-1635	8.6	67
177	Nanocomposite toughness from a pull-out mechanism. <i>Composites Science and Technology</i> , 2013 , 83, 27-31	8.6	63
176	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
175	Multiwall carbon nanotube/epoxy composites produced by a masterbatch process. <i>Mechanics of Composite Materials</i> , 2006 , 42, 395-406	1.1	62
174	Morphological investigations of polyethylene fibre reinforced polyethylene. <i>Polymer</i> , 1999 , 40, 843-847	3.9	62
173	Advanced calculation of the room-temperature shapes of thin unsymmetric composite laminates. <i>Composite Structures</i> , 1995 , 32, 627-633	5.3	61
172	On the relation between crack densities, stiffness degradation, and surface temperature distribution of tensile fatigue loaded glass-fibre non-crimp-fabric reinforced epoxy. <i>Composites Part A: Applied Science and Manufacturing</i> , 2006 , 37, 222-228	8.4	60
171	Synthesis and Properties of Syndiotactic Poly(propylene)/Carbon Nanofiber and Nanotube Composites Prepared by in situ Polymerization with Metallocene/MAO Catalysts. <i>Macromolecular Chemistry and Physics</i> , 2005 , 206, 1472-1478	2.6	60
170	Improvement of compressive strength after impact in fibre reinforced polymer composites by matrix modification with thermally reduced graphene oxide. <i>Composites Science and Technology</i> , 2013 , 87, 36-41	8.6	59
169	Long-Term Fatigue Behavior of Composite Materials	136-136-24	59
168	Solution impregnation of polyethylene fibre/polyethylene matrix composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 1998 , 29, 371-376	8.4	58
167	The effects of creep and fatigue stress ratio on the long-term behaviour of angle-ply CFRP. <i>Composite Structures</i> , 2002 , 57, 205-210	5.3	56
166	Hierarchical Aerographite nano-microtubular tetrapodal networks based electrodes as lightweight supercapacitor. <i>Nano Energy</i> , 2017 , 34, 570-577	17.1	55

165	Combined electrical and rheological properties of shear induced multiwall carbon nanotube agglomerates in epoxy suspensions. <i>European Polymer Journal</i> , 2011 , 47, 2069-2077	5.2	55
164	A comparative study of the electrical and mechanical properties of epoxy nanocomposites reinforced by CVD- and arc-grown multi-wall carbon nanotubes. <i>Composites Science and Technology</i> , 2010 , 70, 173-180	8.6	55
163	Nanocomposites based on multiblock polyester elastomers (PEE) and carbon nanotubes (CNT). <i>Composite Interfaces</i> , 2003 , 10, 95-102	2.3	55
162	3D carbon networks and their polymer composites: Fabrication and electromechanical investigations of neat Aerographite and Aerographite-based PNCs under compressive load. <i>Carbon</i> , 2017 , 111, 103-112	10.4	52
161	Towards nitrogen-containing CNTs for fuel cell electrodes. <i>Composites Science and Technology</i> , 2009 , 69, 1570-1579	8.6	52
160	A comparative investigation of electrical resistance and acoustic emission during cyclic loading of CFRP laminates. <i>Composites Science and Technology</i> , 2001 , 61, 831-835	8.6	52
159	Influence of surface treatment on mechanical behaviour of fumed silica/epoxy resin nanocomposites. <i>Composite Interfaces</i> , 2006 , 13, 699-715	2.3	50
158	Percolation in carbon black filled epoxy resin. <i>Macromolecular Symposia</i> , 1996 , 104, 261-268	0.8	48
157	Strong light scattering and broadband (UV to IR) photoabsorption in stretchable 3D hybrid architectures based on Aerographite decorated by ZnO nanocrystallites. <i>Scientific Reports</i> , 2016 , 6, 32913-9	13.9	47
156	Is It Worth the Effort to Reinforce Polymers With Carbon Nanotubes?. <i>Macromolecular Theory and Simulations</i> , 2011 , 20, 350-362	1.5	47
155	Fretting wear performance of glass-, carbon-, and aramid-fibre/epoxy and peek composites. <i>Wear</i> , 1990 , 135, 207-216	3.5	46
154	Electrical conductivity of carbon black/fibres filled glass-fibre-reinforced thermoplastic composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2006 , 37, 1390-1395	8.4	44
153	Wet powder impregnation for polyethylene composites: preparation and mechanical properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 1999 , 30, 369-373	8.4	43
152	Influence of voids on the compressive failure behaviour of fibre-reinforced composites. <i>Composites Science and Technology</i> , 2015 , 117, 225-233	8.6	42
151	Compressive failure of UD-CFRP containing void defects: In situ SEM microanalysis. <i>Composites Science and Technology</i> , 2011 , 71, 1242-1249	8.6	41
150	Templating of crystallization and shear-induced self-assembly of single-wall carbon nanotubes in a polymer-nanocomposite. <i>Polymer</i> , 2006 , 47, 341-345	3.9	41
149	On modelling the mechanical degradation of fatigue loaded glass-fibre non-crimp fabric reinforced epoxy laminates. <i>Composites Science and Technology</i> , 2006 , 66, 657-664	8.6	41
148	Sliding wear performance of HD-PE reinforced by continuous UHMWPE fibres. <i>Wear</i> , 2000 , 244, 20-28	3.5	41

147	Three-dimensional Aerographite-GaN hybrid networks: single step fabrication of porous and mechanically flexible materials for multifunctional applications. <i>Scientific Reports</i> , 2015 , 5, 8839	4.9	40
146	Temperature dependence of electrical conductivity in double-wall and multi-wall carbon nanotube/polyester nanocomposites. <i>Journal of Materials Science</i> , 2007 , 42, 9689-9695	4.3	40
145	Pressure and temperature induced electrical resistance change in nano-carbon/epoxy composites. <i>Composites Science and Technology</i> , 2015 , 115, 1-8	8.6	39
144	Electro-mechanical piezoresistive properties of three dimensionally interconnected carbon aerogel (Aerographite)-epoxy composites. <i>Composites Science and Technology</i> , 2016 , 134, 226-233	8.6	38
143	Low powered, tunable and ultra-light aerographite sensor for climate relevant gas monitoring. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16723-16730	13	38
142	The production of aligned MWCNT/polypyrrole composite films. <i>Carbon</i> , 2013 , 60, 229-235	10.4	37
141	On the influence of nanotube properties, processing conditions and shear forces on the electrical conductivity of carbon nanotube epoxy composites. <i>Nanotechnology</i> , 2009 , 20, 155703	3.4	37
140	The imaging mechanism, imaging depth, and parameters influencing the visibility of carbon nanotubes in a polymer matrix using an SEM. <i>Carbon</i> , 2011 , 49, 1955-1964	10.4	37
139	Catalytically active CNT/polymer-membrane assemblies: From synthesis to application. <i>Journal of Membrane Science</i> , 2008 , 321, 123-130	9.6	37
138	Improvement of carbon nanotube dispersion in thermoplastic composites using a three roll mill at elevated temperatures. <i>Composites Science and Technology</i> , 2013 , 74, 78-84	8.6	36
137	Titania-doped multi-walled carbon nanotubes epoxy composites: Enhanced dispersion and synergistic effects in multiphase nanocomposites. <i>Polymer</i> , 2008 , 49, 5105-5112	3.9	35
136	Electrically conductive glass fibre reinforced epoxy resin. <i>Materials Research Innovations</i> , 1998 , 2, 164-169	9	34
135	Melt processing and filler/matrix interphase in carbon nanotube reinforced poly(ether-ester) thermoplastic elastomer. <i>Polymer Engineering and Science</i> , 2008 , 48, 2033-2038	2.3	34
134	Thermally reduced graphene oxide acting as a trap for multiwall carbon nanotubes in bi-filler epoxy composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013 , 49, 51-57	8.4	33
133	Morphological influence of carbon nanofillers on the piezoresistive response of carbon nanoparticle/epoxy composites under mechanical load. <i>European Polymer Journal</i> , 2016 , 85, 198-210	5.2	32
132	Anomalous small-angle X-ray scattering characterization of composites based on sulfonated poly(ether ether ketone), zirconium phosphates, and zirconium oxide. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004 , 42, 567-575	2.6	32
131	Determining the effect of voids in GFRP on the damage behaviour under compression loading using acoustic emission. <i>Composites Part B: Engineering</i> , 2015 , 70, 184-188	10	30
130	Lamb waves for non-contact fatigue state evaluation of composites under various mechanical loading conditions. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012 , 43, 1203-1211	8.4	30

129	Comparison of new conductive adhesives based on silver and carbon nanotubes for solar cells interconnection. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 109, 155-159	6.4	29
128	Organic modification of layered silicates: structural and thermal characterizations. <i>Journal of Non-Crystalline Solids</i> , 2005 , 351, 970-975	3.9	29
127	Nafion [®] /ODF-silica composite membranes for medium temperature proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2014 , 246, 950-959	8.9	28
126	Fatigue behaviour and rate-dependent properties of aramid fibre/carbon fibre hybrid composites. <i>Composites</i> , 1989 , 20, 537-544		27
125	Nanomechanics of individual aerographite tetrapods. <i>Nature Communications</i> , 2017 , 8, 14982	17.4	26
124	Tough Alumina/Polymer Layered Composites with High Ceramic Content. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 1285-1291	3.8	26
123	Tailoring the electrical properties of MWCNT/epoxy composites controlling processing conditions. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012 , 43, 1441-1447	8.4	26
122	Influence of fibre and matrix failure strain on static and fatigue properties of carbon fibre-reinforced plastics. <i>Composites Science and Technology</i> , 1987 , 29, 257-272	8.6	26
121	Fracture, failure and compression behaviour of a 3D interconnected carbon aerogel (Aerographite) epoxy composite. <i>Composites Science and Technology</i> , 2016 , 122, 50-58	8.6	25
120	Photo-elastic analysis of fibre-reinforced model composite materials. <i>Composites Science and Technology</i> , 1997 , 57, 859-867	8.6	25
119	Strain-dependent electrical resistance of epoxy/MWCNT composite after hydrothermal aging. <i>Composites Science and Technology</i> , 2015 , 117, 107-113	8.6	23
118	Permeability and Conductivity Studies on Ionomer-Polysilsesquioxane Hybrid Materials. <i>Macromolecular Chemistry and Physics</i> , 2006 , 207, 336-341	2.6	23
117	Orientation Distribution of Vertically Aligned Multiwalled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 9507-9513	3.8	22
116	Degradation monitoring of impact damaged carbon fibre reinforced polymers under fatigue loading with pulse phase thermography. <i>Composites Part B: Engineering</i> , 2014 , 59, 221-229	10	22
115	Individual hollow and mesoporous aero-graphitic microtube based devices for gas sensing applications. <i>Applied Physics Letters</i> , 2017 , 110, 263109	3.4	22
114	Fatigue Testing of Carbon Fibre Reinforced Polymers under VHCF Loading 2013 , 2, 18-24		22
113	Combined Raman and dielectric spectroscopy on the curing behaviour and stress build up of carbon nanotube-epoxy composites. <i>Composites Science and Technology</i> , 2009 , 69, 1540-1546	8.6	22
112	X-ray microdiffraction and micro-Raman study on an injection moulding SWCNT-polymer nanocomposite. <i>Composites Science and Technology</i> , 2007 , 67, 798-805	8.6	22

111	Damage Mechanisms - Including Edge Effects - in Carbon Fibre-reinforced Composite Materials. <i>Composite Materials Series, 1989, 273-324</i>		22
110	Damage characterisation of fibre metal laminates under interlaminar shear load. <i>Composites Part A: Applied Science and Manufacturing, 2009, 40, 925-931</i>	8.4	21
109	. <i>Composites Science and Technology, 2007, 67, 777</i>	8.6	21
108	Micromechanical properties of poly(butylene terephthalate) nanocomposites with single- and multi-walled carbon nanotubes. <i>Composite Interfaces, 2006, 13, 33-45</i>	2.3	21
107	Time and temperature dependent piezoresistance of carbon nanofiller/polymer composites under dynamic load. <i>Journal of Materials Science, 2012, 47, 2648-2657</i>	4.3	20
106	Novel ceramic/polymer composites synthesized by compaction of polymer-encapsulated TiO ₂ -nanoparticles. <i>Composites Science and Technology, 2011, 72, 65-71</i>	8.6	20
105	Polyamide-12/Functionalized Carbon Nanofiber Composites: Evaluation of Thermal and Mechanical Properties. <i>Macromolecular Materials and Engineering, 2010, 295, 397-405</i>	3.9	20
104	Functionalization of carbon nanofibers (CNFs) through atom transfer radical polymerization for the preparation of poly(tert-butyl acrylate)/CNF materials: Spectroscopic, thermal, morphological, and physical characterizations. <i>Journal of Polymer Science Part A, 2008, 46, 3326-3335</i>	2.5	20
103	Damage mechanisms under tensile and fatigue loading of continuous fibre-reinforced metal-matrix composites. <i>Composites, 1993, 24, 197-208</i>		20
102	Anomalous water diffusion in epoxy/carbon nanoparticle composites. <i>Polymer Degradation and Stability, 2019, 164, 127-135</i>	4.7	19
101	A Tunable Scaffold of Microtubular Graphite for 3D Cell Growth. <i>ACS Applied Materials & Interfaces, 2016, 8, 14980-5</i>	9.5	19
100	The life and death of carbon nanotubes. <i>RSC Advances, 2012, 2, 2909</i>	3.7	19
99	Electrical conductivity of melt-spun thermoplastic poly(hydroxy ether of bisphenol A) fibres containing multi-wall carbon nanotubes. <i>Polymer, 2016, 97, 80-94</i>	3.9	19
98	Investigation of shear thinning behavior and microstructures of MWCNT/epoxy and CNF/epoxy suspensions under steady shear conditions. <i>European Polymer Journal, 2012, 48, 1042-1049</i>	5.2	18
97	Improvement of bonding strength of scarf-bonded carbon fibre/epoxy laminates by Nd:YAG laser surface activation. <i>Composites Part A: Applied Science and Manufacturing, 2014, 67, 123-130</i>	8.4	18
96	Sulfonated polyoxadiazole composites containing carbon nanotubes prepared via in situ polymerization. <i>Composites Science and Technology, 2009, 69, 220-227</i>	8.6	18
95	Dissolution of MWCNTs by using polyoxadiazoles, and highly effective reinforcement of their composite films. <i>Journal of Polymer Science Part A, 2010, 48, 5172-5179</i>	2.5	18
94	Thermomechanical Analysis of Micromechanical Formation of Residual Stresses and Initial Matrix Failure in CFRP. <i>JSME International Journal Series A-Solid Mechanics and Material Engineering, 2004, 47, 349-356</i>		18

93	Nondimensional simulation of influence of toughness of interface on tensile stress-strain behavior of unidirectional microcomposite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2001 , 32, 749-761	8.4	18
92	Voids and their effect on the strain rate dependent material properties and fatigue behaviour of non-crimp fabric composites materials. <i>Composites Part B: Engineering</i> , 2015 , 83, 346-351	10	17
91	Electric field effects on CNTs/vinyl ester suspensions and the resulting electrical and thermal composite properties. <i>Composites Science and Technology</i> , 2010 , 70, 2102-2110	8.6	17
90	Studies on morphology and interphase of poly(butylene terephthalate)/carbon nanotubes nanocomposites. <i>Polymer Engineering and Science</i> , 2010 , 50, 1571-1576	2.3	17
89	Influence of artificial pre-stressing during curing of CFRP laminates on interfibre transverse cracking. <i>Composites Science and Technology</i> , 1992 , 44, 361-367	8.6	17
88	Thermal curing behavior of MWCNT modified vinyl ester-polyester resin suspensions prepared with 3-roll milling technique. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009 , 47, 1511-1522	2.6	16
87	Fatigue behaviour of aligned short carbon-fibre reinforced polyimide and polyethersulphone composites. <i>Journal of Materials Science</i> , 1985 , 20, 3353-3364	4.3	16
86	Self-Organized Three-Dimensional Nanostructured Architectures in Bulk GaN Generated by Spatial Modulation of Doping. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, P218-P227	2	15
85	Charakterisierung der Dispersionsgrade von Carbon Nanotubes in Polymer-Nanokompositen. <i>Chemie-Ingenieur-Technik</i> , 2011 , 83, 767-781	0.8	15
84	Micro/macro-mechanical approach of first ply failure in CFRP. <i>Journal of Materials Science</i> , 2006 , 41, 6760-6767	4.5	15
83	Imaging of conductive filler networks in heterogeneous materials by scanning Kelvin microscopy. <i>Journal of Applied Polymer Science</i> , 2001 , 82, 3381-3386	2.9	15
82	Fundamentals of the temperature-dependent electrical conductivity of a 3D carbon foam/aerographite. <i>Synthetic Metals</i> , 2018 , 235, 145-152	3.6	14
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