Karl Schulte

List of Publications by Year in Descending Order

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

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	Anomalous water diffusion in epoxy/carbon nanoparticle composites. *Polymer Degradation and Stability*, **2019**, 164, 127-135	4.7	19
235	Processing, growth mechanism and thermodynamic calculations of carbon foam with a hollow tetrapodal morphology Aerographite. *Applied Surface Science*, **2019**, 470, 535-542	6.7	6
234	Tailored crystalline width and wall thickness of an annealed 3D carbon foam composites and their mechanical properties. *Carbon*, **2019**, 142, 60-67	10.4	4
233	6.8 Carbon Nanotube-Based Composites **2018**, 201-229		1
232	Fundamentals of the temperature-dependent electrical conductivity of a 3D carbon foamAerographite. *Synthetic Metals*, **2018**, 235, 145-152	3.6	14
231	Thermomechanical characteristics of ODF-silica Nafion nanocomposite for PEMFCs application. *Materials Today: Proceedings*, **2018**, 5, 14026-14030	1.4	1
230	Damage initiation and failure mechanisms of carbon nanoparticle modified CFRP up to very high cycle fatigue-loading **2018**, 585-606		1
229	Hierarchical Aerographite nano-microtubular tetrapodal networks based electrodes as lightweight supercapacitor. *Nano Energy*, **2017**, 34, 570-577	17.1	55
228	Nanomechanics of individual aerographite tetrapods. *Nature Communications*, **2017**, 8, 14982	17.4	26
227	Individual hollow and mesoporous aero-graphitic microtube based devices for gas sensing applications. *Applied Physics Letters*, **2017**, 110, 263109	3.4	22
226	3D carbon networks and their polymer composites: Fabrication and electromechanical investigations of neat Aerographite and Aerographite-based PNCs under compressive load. *Carbon*, **2017**, 111, 103-112	10.4	52
225	Compression Fracture of CFRP Laminates Containing Stress Intensifications. *Materials*, **2017**, 10,	3.5	8
224	Electro-mechanical piezoresistive properties of three dimensionally interconnected carbon aerogel (Aerographite)-epoxy composites. *Composites Science and Technology*, **2016**, 134, 226-233	8.6	38
223	Hierarchical analysis of the degradation of fibre-reinforced polymers under the presence of void imperfections. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2016**, 374, 20150279	3	6
222	Strong light scattering and broadband (UV to IR) photoabsorption in stretchable 3D hybrid architectures based on Aerographite decorated by ZnO nanocrystallites. *Scientific Reports*, **2016**, 6, 32913	4.9	47
221	Morphological influence of carbon nanofillers on the piezoresistive response of carbon nanoparticle/epoxy composites under mechanical load. *European Polymer Journal*, **2016**, 85, 198-210	5.2	32
220	A Tunable Scaffold of Microtubular Graphite for 3D Cell Growth. *ACS Applied Materials & Interfaces*, **2016**, 8, 14980-5	9.5	19

219	Nanostructured MWCNT/Polypyrrole Actuators with Anisotropic Strain Response . *Advanced Engineering Materials*, **2016**, 18, 597-607	3.5	10
218	Toughening mechanisms in polymer nanocomposites: From experiments to modelling. *Composites Science and Technology*, **2016**, 123, 187-204	8.6	130
217	Self-Organized Three-Dimensional Nanostructured Architectures in Bulk GaN Generated by Spatial Modulation of Doping. *ECS Journal of Solid State Science and Technology*, **2016**, 5, P218-P227	2	15
216	Fracture, failure and compression behaviour of a 3D interconnected carbon aerogel (Aerographite) epoxy composite. *Composites Science and Technology*, **2016**, 122, 50-58	8.6	25
215	Electrical conductivity of melt-spun thermoplastic poly(hydroxy ether of bisphenol A) fibres containing multi-wall carbon nanotubes. *Polymer*, **2016**, 97, 80-94	3.9	19
214	Low powered, tunable and ultra-light aerographite sensor for climate relevant gas monitoring. *Journal of Materials Chemistry A*, **2016**, 4, 16723-16730	13	38
213	Influence of voids on the compressive failure behaviour of fibre-reinforced composites. *Composites Science and Technology*, **2015**, 117, 225-233	8.6	42
212	New functions in polymer composites using a nanoparticle-modified matrix **2015**, 875-902		3
211	Strain-dependent electrical resistance of epoxy/MWCNT composite after hydrothermal aging. *Composites Science and Technology*, **2015**, 117, 107-113	8.6	23
210	Pressure and temperature induced electrical resistance change in nano-carbon/epoxy composites. *Composites Science and Technology*, **2015**, 115, 1-8	8.6	39
209	On the manufacturing and electrical and mechanical properties of ultra-high wt.% fraction aligned MWCNT and randomly oriented CNT epoxy composites. *Carbon*, **2015**, 91, 275-290	10.4	70
208	Influence of Delamination Characteristics in Carbon Fibre/Epoxy Laminates on Signal Features of Pulse Thermography. *Journal of Nondestructive Evaluation*, **2015**, 34, 1	2.1	8
207	Three-dimensional Aerographite-GaN hybrid networks: single step fabrication of porous and mechanically flexible materials for multifunctional applications. *Scientific Reports*, **2015**, 5, 8839	4.9	40
206	Voids and their effect on the strain rate dependent material properties and fatigue behaviour of non-crimp fabric composites materials. *Composites Part B: Engineering*, **2015**, 83, 346-351	10	17
205	Determining the effect of voids in GFRP on the damage behaviour under compression loading using acoustic emission. *Composites Part B: Engineering*, **2015**, 70, 184-188	10	30
204	Is It Worth the Effort to Reinforce Polymers with Carbon Nanotubes? **2015**, 207-232		4
203	Tough Alumina/Polymer Layered Composites with High Ceramic Content. *Journal of the American Ceramic Society*, **2015**, 98, 1285-1291	3.8	26
202	Evaluation of a critical impact energy in GFRP under fatigue loading. *Composites Science and Technology*, **2014**, 102, 28-34	8.6	11

201	Orientation Distribution of Vertically Aligned Multiwalled Carbon Nanotubes. *Journal of Physical Chemistry C*, **2014**, 118, 9507-9513	3.8	22
200	Degradation monitoring of impact damaged carbon fibre reinforced polymers under fatigue loading with pulse phase thermography. *Composites Part B: Engineering*, **2014**, 59, 221-229	10	22
199	Ethylene-vinyl Acetate Thermoplastic Copolymers Filled with Multiwall Carbon Nanotubes: Effect of Hydrothermal Ageing on Mechanical, Thermal, and Electrical Properties. *Macromolecular Materials and Engineering*, **2014**, 299, 41-50	3.9	8
198	Nafion /ODF-silica composite membranes for medium temperature proton exchange membrane fuel cells. *Journal of Power Sources*, **2014**, 246, 950-959	8.9	28
197	Improvement of bonding strength of scarf-bonded carbon fibre/epoxy laminates by Nd:YAG laser surface activation. *Composites Part A: Applied Science and Manufacturing*, **2014**, 67, 123-130	8.4	18
196	Automatic evaluation of non-destructive testing of composites. *Insight: Non-Destructive Testing and Condition Monitoring*, **2014**, 56, 319-325	1.3	3
195	The effect of carbon nanoparticles on the fatigue performance of carbon fibre reinforced epoxy. *Composites Part A: Applied Science and Manufacturing*, **2014**, 67, 233-240	8.4	76
194	Damage mapping of GFRP via electrical resistance measurements using nanocomposite epoxy matrix systems. *Composites Part B: Engineering*, **2014**, 65, 80-88	10	74
193	Fracture toughness and failure mechanism of graphene based epoxy composites. *Composites Science and Technology*, **2014**, 97, 90-99	8.6	354
192	Impact of Filler Functionalisation on the Crystallinity, Thermal Stability and Mechanical Properties of Thermoplastic Elastomer/Carbon Nanotube Nanocomposites. *Macromolecular Materials and Engineering*, **2013**, 298, 359-370	3.9	13
191	The production of aligned MWCNT/polypyrrole composite films. *Carbon*, **2013**, 60, 229-235	10.4	37
190	Improvement of compressive strength after impact in fibre reinforced polymer composites by matrix modification with thermally reduced graphene oxide. *Composites Science and Technology*, **2013**, 87, 36-41	8.6	59
189	Comparison of new conductive adhesives based on silver and carbon nanotubes for solar cells interconnection. *Solar Energy Materials and Solar Cells*, **2013**, 109, 155-159	6.4	29
188	Effect of filler functionalization on thermo-mechanical properties of polyamide-12/carbon nanofibers composites: a study of filler matrix molecular interactions. *Journal of Materials Science*, **2013**, 48, 8427-8437	4.3	5
187	Improvement of carbon nanotube dispersion in thermoplastic composites using a three roll mill at elevated temperatures. *Composites Science and Technology*, **2013**, 74, 78-84	8.6	36
186	Preparation and characterization of graphite nano-platelet (GNP)/epoxy nano-composite: Mechanical, electrical and thermal properties. *European Polymer Journal*, **2013**, 49, 3878-3888	5.2	218
185	Thermally reduced graphene oxide acting as a trap for multiwall carbon nanotubes in bi-filler epoxy composites. *Composites Part A: Applied Science and Manufacturing*, **2013**, 49, 51-57	8.4	33
184	Nanocomposite toughness from a pull-out mechanism. *Composites Science and Technology*, **2013**, 83, 27-31	8.6	63

183	Photoelastic study of stresses in the vicinity of a unique void in a fibre-reinforced model composite under compression. *Composites Science and Technology*, **2013**, 84, 72-77	8.6	14
182	Hydrothermally resistant thermally reduced graphene oxide and multi-wall carbon nanotube based epoxy nanocomposites. *Polymer Degradation and Stability*, **2013**, 98, 519-526	4.7	89
181	Fatigue Testing of Carbon Fibre Reinforced Polymers under VHCF Loading **2013**, 2, 18-24		22
180	Water transport in epoxy/MWCNT composites. *European Polymer Journal*, **2013**, 49, 2138-2148	5.2	121
179	Investigation of shear thinning behavior and microstructures of MWCNT/epoxy and CNF/epoxy suspensions under steady shear conditions. *European Polymer Journal*, **2012**, 48, 1042-1049	5.2	18
178	Time and temperature dependent piezoresistance of carbon nanofiller/polymer composites under dynamic load. *Journal of Materials Science*, **2012**, 47, 2648-2657	4.3	20
177	Effective Stiffness of Wavy Aligned Carbon Nanotubes for Modeling of Controlled-Morphology Polymer Nanocomposites **2012**,		3
176	The life and death of carbon nanotubes. *RSC Advances*, **2012**, 2, 2909	3.7	19
175	Creep and recovery of epoxy/MWCNT nanocomposites. *Composites Part A: Applied Science and Manufacturing*, **2012**, 43, 1212-1218	8.4	73
174	Lamb waves for non-contact fatigue state evaluation of composites under various mechanical loading conditions. *Composites Part A: Applied Science and Manufacturing*, **2012**, 43, 1203-1211	8.4	30
173	Tailoring the electrical properties of MWCNT/epoxy composites controlling processing conditions. *Composites Part A: Applied Science and Manufacturing*, **2012**, 43, 1441-1447	8.4	26
172	Rheological properties and irreversible dispersion changes in carbon nanotube/epoxy systems. *Polymer Engineering and Science*, **2012**, 52, 849-855	2.3	10
171	Aerographite: ultra lightweight, flexible nanowall, carbon microtube material with outstanding mechanical performance. *Advanced Materials*, **2012**, 24, 3486-90	24	302
170	PEBAX^{TM}-Silanized Al₂O₃Composite. Synthesis and Characterization. *Open Journal of Polymer Chemistry*, **2012**, 02, 63-69	2.9	8
169	Novel ceramic□polymer composites synthesized by compaction of polymer-encapsulated TiO2-nanoparticles. *Composites Science and Technology*, **2011**, 72, 65-71	8.6	20
168	Combined electrical and rheological properties of shear induced multiwall carbon nanotube agglomerates in epoxy suspensions. *European Polymer Journal*, **2011**, 47, 2069-2077	5.2	55
167	Comparison of rheological and electrical percolation phenomena in carbon black and carbon nanotube filled epoxy polymers. *Journal of Materials Science*, **2011**, 46, 659-669	4.3	72
166	Fast and highly efficient one-pot synthesis of polyoxadiazole/carbon nanotube nanocomposites in mild acid. *Polymer International*, **2011**, 60, 517-528	3.3	6

165	A Highly Efficient One-Pot Method for the Synthesis of Carbon Black/Poly(4,4?-Diphenylether-1,3,4-Oxadiazoles) Composites. *Macromolecular Chemistry and Physics*, **2011**, 212, 1236-1244	2.6	2
164	Is It Worth the Effort to Reinforce Polymers With Carbon Nanotubes?. *Macromolecular Theory and Simulations*, **2011**, 20, 350-362	1.5	47
163	Charakterisierung der Dispersionsgüte von Carbon Nanotubes in Polymer-Nanokompositen. *Chemie-Ingenieur-Technik*, **2011**, 83, 767-781	0.8	15
162	In situ synthesis of polyoxadiazoles (POD) and carbon black (CB) as an approach to POD/CB nanocomposites. *Composites Part B: Engineering*, **2011**, 42, 414-420	10	2
161	Simultaneous global and local strain sensing in SWCNT–epoxy composites by Raman and impedance spectroscopy. *Composites Science and Technology*, **2011**, 71, 160-166	8.6	62
160	Compressive failure of UD-CFRP containing void defects: In situ SEM microanalysis. *Composites Science and Technology*, **2011**, 71, 1242-1249	8.6	41
159	The imaging mechanism, imaging depth, and parameters influencing the visibility of carbon nanotubes in a polymer matrix using an SEM. *Carbon*, **2011**, 49, 1955-1964	10.4	37
158	Fundamental investigations of carbon nanotubes working as actuators **2011**,		1
157	Improvement of fatigue life by incorporation of nanoparticles in glass fibre reinforced epoxy. *Composites Part A: Applied Science and Manufacturing*, **2010**, 41, 1419-1424	8.4	109
156	Polyamide-12/Functionalized Carbon Nanofiber Composites: Evaluation of Thermal and Mechanical Properties. *Macromolecular Materials and Engineering*, **2010**, 295, 397-405	3.9	20
155	A comparative study of the electrical and mechanical properties of epoxy nanocomposites reinforced by CVD- and arc-grown multi-wall carbon nanotubes. *Composites Science and Technology*, **2010**, 70, 173-180	8.6	55
154	Electric field effects on CNTs/vinyl ester suspensions and the resulting electrical and thermal composite properties. *Composites Science and Technology*, **2010**, 70, 2102-2110	8.6	17
153	Dissolution of MWCNTs by using polyoxadiazoles, and highly effective reinforcement of their composite films. *Journal of Polymer Science Part A*, **2010**, 48, 5172-5179	2.5	18
152	Studies on morphology and interphase of poly(butylene terephthalate)/carbon nanotubes nanocomposites. *Polymer Engineering and Science*, **2010**, 50, 1571-1576	2.3	17
151	Enhanced Dispersion of MWCNTs and Synergistic Properties in Multiphase Epoxy Nanocomposites by Incorporation of Inorganic Nanoparticles. *Solid State Phenomena*, **2009**, 151, 176-180	0.4	5
150	SWCNT as Cure-Induced Stress Sensors in Epoxy Nanocomposites. *Solid State Phenomena*, **2009**, 151, 48-53	0.4	5
149	Combined Raman and dielectric spectroscopy on the curing behaviour and stress build up of carbon nanotube–epoxy composites. *Composites Science and Technology*, **2009**, 69, 1540-1546	8.6	22
148	Sulfonated polyoxadiazole composites containing carbon nanotubes prepared via in situ polymerization. *Composites Science and Technology*, **2009**, 69, 220-227	8.6	18

147	Tensile mechanical behavior and fracture toughness of MWCNT and DWCNT modified vinyl-ester/polyester hybrid nanocomposites produced by 3-roll milling. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 523, 85-92	5.3	74
146	Synergistic effects in network formation and electrical properties of hybrid epoxy nanocomposites containing multi-wall carbon nanotubes and carbon black. *Journal of Materials Science*, **2009**, 44, 3241-3247	4.3	156
145	Thermal curing behavior of MWCNT modified vinyl ester-polyester resin suspensions prepared with 3-roll milling technique. *Journal of Polymer Science, Part B: Polymer Physics*, **2009**, 47, 1511-1522	2.6	16
144	Noncovalent functionalization of multiwalled and double-walled carbon nanotubes: Positive effect of the filler functionalization on high glass transition temperature epoxy resins. *Journal of Polymer Science, Part B: Polymer Physics*, **2009**, 47, 1860-1868	2.6	10
143	Towards nitrogen-containing CNTs for fuel cell electrodes. *Composites Science and Technology*, **2009**, 69, 1570-1579	8.6	52
142	Piezoresistive response of epoxy composites with carbon nanoparticles under tensile load. *Physical Review B*, **2009**, 80,	3.3	180
141	CFRP-Recycling Following a Pyrolysis Route: Process Optimization and Potentials. *Journal of Composite Materials*, **2009**, 43, 1121-1132	2.7	174
140	On the influence of nanotube properties, processing conditions and shear forces on the electrical conductivity of carbon nanotube epoxy composites. *Nanotechnology*, **2009**, 20, 155703	3.4	37
139	Damage characterisation of fibre metal laminates under interlaminar shear load. *Composites Part A: Applied Science and Manufacturing*, **2009**, 40, 925-931	8.4	21
138	Analysis of proton-conducting organic–inorganic hybrid materials based on sulphonated poly(ether ether ketone) and phosphotungstic acid via ASAXS and WAXS. *Journal of Non-Crystalline Solids*, **2009**, 355, 6-11	3.9	4
137	Fracture behaviour of fumed silica/epoxy nanocomposites. *Composites Part A: Applied Science and Manufacturing*, **2008**, 39, 1851-1858	8.4	68
136	Load and health monitoring in glass fibre reinforced composites with an electrically conductive nanocomposite epoxy matrix. *Composites Science and Technology*, **2008**, 68, 1886-1894	8.6	269
135	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. *Journal of Polymer Science Part A*, **2008**, 46, 3326-3335	2.5	20
134	Melt processing and filler/matrix interphase in carbon nanotube reinforced poly(ether-ester) thermoplastic elastomer. *Polymer Engineering and Science*, **2008**, 48, 2033-2038	2.3	34
133	Titania-doped multi-walled carbon nanotubes epoxy composites: Enhanced dispersion and synergistic effects in multiphase nanocomposites. *Polymer*, **2008**, 49, 5105-5112	3.9	35
132	On nanocomposite toughness. *Composites Science and Technology*, **2008**, 68, 329-331	8.6	119
131	Mode I and mode II fracture toughness of E-glass non-crimp fabric/carbon nanotube (CNT) modified polymer based composites. *Engineering Fracture Mechanics*, **2008**, 75, 5151-5162	4.2	155
130	Catalytically active CNT–polymer-membrane assemblies: From synthesis to application. *Journal of Membrane Science*, **2008**, 321, 123-130	9.6	37

129	Direction sensitive bending sensors based on multi-wall carbon nanotube/epoxy nanocomposites. *Nanotechnology*, **2008**, 19, 475503	3.4	72
128	Peroxide Assisted Coupling and Characterization of Carbon-Nanofiber-Reinforced Poly(propylene) Composites. *Macromolecular Materials and Engineering*, **2007**, 292, 1095-1102	3.9	10
127	X-ray microdiffraction and micro-Raman study on an injection moulding SWCNT-polymer nanocomposite. *Composites Science and Technology*, **2007**, 67, 798-805	8.6	22
126	Critical aspects related to processing of carbon nanotube/unsaturated thermoset polyester nanocomposites. *European Polymer Journal*, **2007**, 43, 374-379	5.2	94
125	Rheological and dynamic-mechanical behavior of carbon nanotube/vinyl ester polyester suspensions and their nanocomposites. *European Polymer Journal*, **2007**, 43, 2836-2847	5.2	93
124	Temperature dependence of electrical conductivity in double-wall and multi-wall carbon nanotube/polyester nanocomposites. *Journal of Materials Science*, **2007**, 42, 9689-9695	4.3	40
123	Nanocomposites of poly(vinyl chloride) with carbon nanotubes (CNT). *Composites Science and Technology*, **2007**, 67, 890-894	8.6	87
122	Two percolation thresholds in carbon nanotube epoxy composites. *Composites Science and Technology*, **2007**, 67, 922-928	8.6	280
121	. *Composites Science and Technology*, **2007**, 67, 777	8.6	21
120	Synergistic Physical Properties of Multiphase Nanocomposites with Carbon Nanotubes and Inorganic Particles. *Materials Research Society Symposia Proceedings*, **2007**, 1056, 1		
119	Micromechanical modelling of shear deformation of a 90°-ply in Glare® at elevated temperatures. *Computational Materials Science*, **2007**, 39, 142-148	3.2	8
118	Analyzing the quality of carbon nanotube dispersions in polymers using scanning electron microscopy. *Carbon*, **2007**, 45, 1279-1288	10.4	79
117	Templating of crystallization and shear-induced self-assembly of single-wall carbon nanotubes in a polymer-nanocomposite. *Polymer*, **2006**, 47, 341-345	3.9	41
116	Permeability and Conductivity Studies on Ionomer-Polysilsesquioxane Hybrid Materials. *Macromolecular Chemistry and Physics*, **2006**, 207, 336-341	2.6	23
115	Polymere Nanoverbundwerkstoffe: Chancen, Risiken und Potenzial zur Verbesserung der mechanischen und physikalischen Eigenschaften. *Materialwissenschaft Und Werkstofftechnik*, **2006**, 37, 698-703	0.9	12
114	Barrier Properties of Poly(benzimidazole)-Layered Silicates Nanocomposite Materials. *Advanced Engineering Materials*, **2006**, 8, 1010-1015	3.5	12
113	Influence of surface treatment on mechanical behaviour of fumed silica/epoxy resin nanocomposites. *Composite Interfaces*, **2006**, 13, 699-715	2.3	50
112	Micromechanical properties of poly(butylene terephthalate) nanocomposites with single- and multi-walled carbon nanotubes. *Composite Interfaces*, **2006**, 13, 33-45	2.3	21

111	On the relation between crack densities, stiffness degradation, and surface temperature distribution of tensile fatigue loaded glass-fibre non-crimp-fabric reinforced epoxy. *Composites Part A: Applied Science and Manufacturing*, **2006**, 37, 222-228	8.4	60
110	Electrical conductivity of carbon black/fibres filled glass-fibre-reinforced thermoplastic composites. *Composites Part A: Applied Science and Manufacturing*, **2006**, 37, 1390-1395	8.4	44
109	Fundamental aspects of nano-reinforced composites. *Composites Science and Technology*, **2006**, 66, 3115-3125	8.6	493
108	On modelling the mechanical degradation of fatigue loaded glass-fibre non-crimp fabric reinforced epoxy laminates. *Composites Science and Technology*, **2006**, 66, 657-664	8.6	41
107	Glass-fibre-reinforced composites with enhanced mechanical and electrical properties – Benefits and limitations of a nanoparticle modified matrix. *Engineering Fracture Mechanics*, **2006**, 73, 2346-2359	4.2	307
106	Evaluation and identification of electrical and thermal conduction mechanisms in carbon nanotube/epoxy composites. *Polymer*, **2006**, 47, 2036-2045	3.9	916
105	The influence of residual stresses implicated via cure volume shrinkage on CF/VEUH-composites. *Journal of Materials Science*, **2006**, 41, 383-388	4.3	12
104	Micro/macro-mechanical approach of first ply failure in CFRP. *Journal of Materials Science*, **2006**, 41, 6760-6767	4.3	15
103	Multiwall carbon nanotube/epoxy composites produced by a masterbatch process. *Mechanics of Composite Materials*, **2006**, 42, 395-406	1.1	62
102	Organic modification of layered silicates: structural and thermal characterizations. *Journal of Non-Crystalline Solids*, **2005**, 351, 970-975	3.9	29
101	SAXS/WAXS characterization of proton-conducting polymer membranes containing phosphomolybdic acid. *Journal of Non-Crystalline Solids*, **2005**, 351, 2194-2199	3.9	12
100	Thermo-mechanical properties of randomly oriented carbon/epoxy nanocomposites. *Composites Part A: Applied Science and Manufacturing*, **2005**, 36, 1555-1561	8.4	295
99	Influence of nano-modification on the mechanical and electrical properties of conventional fibre-reinforced composites. *Composites Part A: Applied Science and Manufacturing*, **2005**, 36, 1525-1535	8.4	500
98	Carbon Nanotube-Reinforced Polymers: a State of the Art Review **2005**, 3-23		6
97	Processing and assessment of poly(butylene terephthalate) nanocomposites reinforced with oxidized single wall carbon nanotubes. *Polymer*, **2005**, 46, 5860-5867	3.9	104
96	Polymer nanocomposite membranes for DMFC application. *Journal of Membrane Science*, **2005**, 254, 139-146	9.6	120
95	Ionomer-silicates composite membranes: Permeability and conductivity studies. *European Polymer Journal*, **2005**, 41, 1350-1356	5.2	13
94	Microscopic yielding of CF/epoxy composites and the effect on the formation of thermal residual stresses. *Composites Science and Technology*, **2005**, 65, 1626-1635	8.6	67

93	Influence of different carbon nanotubes on the mechanical properties of epoxy matrix composites – A comparative study. *Composites Science and Technology*, **2005**, 65, 2300-2313	8.6	988
92	Synthesis and Properties of Syndiotactic Poly(propylene)/Carbon Nanofiber and Nanotube Composites Prepared by in situ Polymerization with Metallocene/MAO Catalysts. *Macromolecular Chemistry and Physics*, **2005**, 206, 1472-1478	2.6	60
91	Electric field-induced aligned multi-wall carbon nanotube networks in epoxy composites. *Polymer*, **2005**, 46, 877-886	3.9	410
90	Characterization of proton-conducting organic–inorganic polymeric materials by ASAXS. *Journal of Polymer Science, Part B: Polymer Physics*, **2005**, 43, 2981-2992	2.6	6
89	Damage Evaluation of GLARE® 4B under Interlaminar Shear Loading at Different Temperature Conditions. *Advanced Composites Letters*, **2005**, 14, 096369350501400	1.2	10
88	Modelling of the transverse strength of fibre reinforced epoxy composite at low and high temperature. *Composite Interfaces*, **2005**, 12, 379-394	2.3	8
87	Production and properties of glass fibre-reinforced polymer composites with nanoparticle modified epoxy matrix. *Materials Research Society Symposia Proceedings*, **2005**, 901, 1		1
86	Modelling the strength of fibre-reinforced composites **2005**, 99-123		
85	Modelling of the Initial Failure of Cfrp Structures by Partial Discretisation: Amicro / Macro-Mechanical Approach of First Ply Failure. *Advanced Composites Letters*, **2004**, 13, 096369350401300	1.2	3
84	Nondimensional simulation of tensile behavior of UD microcomposite under energy release rate and shear stress criteria for interfacial debonding. *Composite Interfaces*, **2004**, 11, 169-194	2.3	2
83	Anomalous small-angle X-ray scattering characterization of composites based on sulfonated poly(ether ether ketone), zirconium phosphates, and zirconium oxide. *Journal of Polymer Science, Part B: Polymer Physics*, **2004**, 42, 567-575	2.6	32
82	A comparative study of melt spun polyamide-12 fibres reinforced with carbon nanotubes and nanofibres. *Polymer*, **2004**, 45, 2001-2015	3.9	264
81	Functionalisation effect on the thermo-mechanical behaviour of multi-wall carbon nanotube/epoxy-composites. *Composites Science and Technology*, **2004**, 64, 2303-2308	8.6	406
80	Formation of percolating networks in multi-wall carbon-nanotube–epoxy composites. *Composites Science and Technology*, **2004**, 64, 2309-2316	8.6	521
79	Carbon nanotube-reinforced epoxy-composites: enhanced stiffness and fracture toughness at low nanotube content. *Composites Science and Technology*, **2004**, 64, 2363-2371	8.6	1197
78	Low Percolation Threshold in Nanocomposites Based on Oxidized Single Wall Carbon Nanotubes and Poly(butylene terephthalate). *Macromolecules*, **2004**, 37, 7669-7672	5.5	183
77	Thermomechanical Analysis of Micromechanical Formation of Residual Stresses and Initial Matrix Failure in CFRP. *JSME International Journal Series A-Solid Mechanics and Material Engineering*, **2004**, 47, 349-356		18
76	Can carbon nanotubes be used to sense damage in composites?. *European Journal of Control*, **2004**, 29, 81-94	2.5	79

75	Nanocomposites based on multiblock polyester elastomers (PEE) and carbon nanotubes (CNT). *Composite Interfaces*, **2003**, 10, 95-102	2.3	55
74	Aligned Nafion Nanocomposites: Preparation and Morphological Characterization. *Macromolecular Materials and Engineering*, **2003**, 288, 175-180	3.9	1
73	Surface modified multi-walled carbon nanotubes in CNT/epoxy-composites. *Chemical Physics Letters*, **2003**, 370, 820-824	2.5	497
72	Functionally graded materials for biomedical applications. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2003**, 362, 40-60	5.3	370
71	Crystallization of Carbon Nanotube and Nanofiber Polypropylene Composites. *Journal of Macromolecular Science - Physics*, **2003**, 42, 479-488	1.4	83
70	Percolation in Multi-Wall Carbon Nanotube-Epoxy Composites Influence of processing parameters, nanotube aspect ratio and electric fields on the bulk conductivity. *Materials Research Society Symposia Proceedings*, **2003**, 788, 2101		1
69	The effects of creep and fatigue stress ratio on the long-term behaviour of angle-ply CFRP. *Composite Structures*, **2002**, 57, 205-210	5.3	56
68	Strain based service time estimation for angle-ply laminates. *Composites Science and Technology*, **2002**, 62, 1043-1050	8.6	10
67	Relaxation behavior of poly(ethylene terephthalate)/poly(ethylene naphthalene 2,6-dicarboxylate) blends prepared by cryogenic blending. *Journal of Polymer Science, Part B: Polymer Physics*, **2002**, 40, 2570-2578	2.6	10
66	Alternating electric field induced agglomeration of carbon black filled resins. *Polymer*, **2002**, 43, 3079-3083	3.9	110
65	Effects of surface treatment and weave structure on interlaminar fracture behaviour of plain glass woven fabric composites: Part II. Report of the 2nd round robin test results. *Composite Interfaces*, **2002**, 9, 207-218	2.3	4
64	An Analytical Model to Predict Fracture of Off-Axis Unidirectional Composites. *Advanced Composites Letters*, **2002**, 11, 096369350201100	1.2	
63	Damage detection in CFRP by electrical conductivity mapping. *Composites Science and Technology*, **2001**, 61, 921-930	8.6	198
62	A comparative investigation of electrical resistance and acoustic emission during cyclic loading of CFRP laminates. *Composites Science and Technology*, **2001**, 61, 831-835	8.6	52
61	Non-destructive testing of FRP by d.c. and a.c. electrical methods. *Composites Science and Technology*, **2001**, 61, 837-847	8.6	176
60	Finite-element modeling of initial matrix failure in CFRP under static transverse tensile load. *Composites Science and Technology*, **2001**, 61, 95-105	8.6	73
59	Failure behavior of an epoxy matrix under different kinds of static loading. *Composites Science and Technology*, **2001**, 61, 1615-1624	8.6	225
58	The interaction of epoxy resin and an additional electrolyte with non-oxidised carbon black in colloidal dispersions. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2001**, 189, 183-188	5.1	10

57	Imaging of conductive filler networks in heterogeneous materials by scanning Kelvin microscopy. *Journal of Applied Polymer Science*, **2001**, 82, 3381-3386	2.9	15
56	Nondimensional simulation of influence of toughness of interface on tensile stress–strain behavior of unidirectional microcomposite. *Composites Part A: Applied Science and Manufacturing*, **2001**, 32, 749-761	8.4	18
55	EVIDENCE OF A TRANSCRYSTALLINE INTERPHASE IN FIBER PE HOMOCOMPOSITES AS REVEALED BY MICRODIFFRACTION EXPERIMENTS USING SYNCHROTRON RADIATION. *Journal of Macromolecular Science - Physics*, **2001**, 40, 749-761	1.4	14
54	Sliding wear performance of HD-PE reinforced by continuous UHMWPE fibres. *Wear*, **2000**, 244, 20-28	3.5	41
53	High-density Polyethylene Fiber/Polyethylene Matrix Composites **2000**, 231-248		4
52	Growth of interfacial debonding in notched two-dimensional unidirectional composite under stress and displacement controls. *Composite Interfaces*, **2000**, 7, 459-477	2.3	2
51	Effect of surface treatment on mode I interlaminar fracture behaviour of plain glass woven fabric composites: Part I. Report of the 2nd round-robin test results. *Composite Interfaces*, **2000**, 7, 227-242	2.3	14
50	Advanced Calculation of the Room-Temperature Shapes of Unsymmetric Laminates. *Journal of Composite Materials*, **1999**, 33, 1472-1490	2.7	68
49	Polyethylene Gradient Material, Processing and Properties. *Materials Science Forum*, **1999**, 308-311, 101-106	0.4	5
48	Cyclic mechanical loading **1999**, 151-185		1
47	Morphological investigations of polyethylene fibre reinforced polyethylene. *Polymer*, **1999**, 40, 843-847	3.9	62
46	Development of a dispersion process for carbon nanotubes in an epoxy matrix and the resulting electrical properties. *Polymer*, **1999**, 40, 5967-5971	3.9	1230
45	Anomalous percolation transition in carbon-black–epoxy composite materials. *Physical Review B*, **1999**, 59, 14349-14355	3.3	108
44	Wet powder impregnation for polyethylene composites: preparation and mechanical properties. *Composites Part A: Applied Science and Manufacturing*, **1999**, 30, 369-373	8.4	43
43	Electrically conductive glass fibre reinforced epoxy resin. *Materials Research Innovations*, **1998**, 2, 164-169	2.9	34
42	Solution impregnation of polyethylene fibre/polyethylene matrix composites. *Composites Part A: Applied Science and Manufacturing*, **1998**, 29, 371-376	8.4	58
41	In situ observation of electric field induced agglomeration of carbon black in epoxy resin. *Applied Physics Letters*, **1998**, 72, 2903-2905	3.4	85
40	Photo-elastic analysis of fibre-reinforced model composite materials. *Composites Science and Technology*, **1997**, 57, 859-867	8.6	25

39	A shear-lag approach to the early stage of interfacial failure in the fiber direction in notched two-dimensional unidirectional composites. *Composites Science and Technology*, **1997**, 57, 775-785	8.6	10
38	Agglomeration and electrical percolation behavior of carbon black dispersed in epoxy resin. *Journal of Applied Polymer Science*, **1997**, 63, 1741-1746	2.9	203
37	Some aspects of health monitoring in composite materials **1996**, 2779, 90		
36	Percolation in carbon black filled epoxy resin. *Macromolecular Symposia*, **1996**, 104, 261-268	0.8	48
35	A comparative study for the calculation of the temperature dependent shapes of unsymmetric laminates based on finite element analysis and extended classical lamination theory. *Mechanics of Composite Materials*, **1995**, 31, 247-254	1.1	11
34	Advanced calculation of the room-temperature shapes of thin unsymmetric composite laminates. *Composite Structures*, **1995**, 32, 627-633	5.3	61
33	S-glass/Kevlar-149 hybrid microcomposites in stress-rupture: A Monte Carlo simulation. *Composites Science and Technology*, **1995**, 54, 211-221	8.6	7
32	Damage monitoring in polymer matrix structures. *European Physical Journal Special Topics*, **1993**, 03, C7-1629-C7-1636		7
31	Damage mechanisms under tensile and fatigue loading of continuous fibre-reinforced metal-matrix composites. *Composites*, **1993**, 24, 197-208		20
30	Fretting and Fretting Fatigue of Advanced Composite Laminates. *Composite Materials Series*, **1993**, 8, 669-722		9
29	Estimation of the 90□ply strength distribution and shear lag parameter from multiple transverse cracking in graphite-epoxy cross-ply laminates. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1992**, 158, 65-70	5.3	3
28	Influence of artificial pre-stressing during curing of CFRP laminates on interfibre transverse cracking. *Composites Science and Technology*, **1992**, 44, 361-367	8.6	17
27	Characterization of a C?Al metal matrix composite precursor. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **1991**, 135, 59-63	5.3	9
26	Strain concentration factors for fibers and matrix in unidirectional composites. *Composites Science and Technology*, **1991**, 41, 237-256	8.6	91
25	Fretting fatigue of continuous carbon fibre reinforced polymer composites. *Wear*, **1991**, 145, 167-188	3.5	13
24	Monte-Carlo simulation of multiple fracture in the transverse ply of cross-ply graphite-epoxy laminates. *Journal of Materials Science*, **1991**, 26, 5433-5444	4.3	14
23	Monte-Carlo simulation of multiple fracture in the transverse ply of cross-ply graphite-epoxy laminates. *Journal of Materials Science*, **1991**, 26, 5433-5444	4.3	
22	The Continuous Monitoring of Fatigue Damage in Composite Materials **1991**, 234-243		

21	Fretting wear performance of glass-, carbon-, and aramid-fibre/epoxy and peek composites. *Wear*, **1990**, 135, 207-216	3.5	46
20	Rate-dependent fatigue of aramid-fibre/carbon-fibre hybrids. *Journal of Materials Science*, **1990**, 25, 1313-1317	4.3	10
19	Load and Damage Dependent Thermal Effects in CFRP-Laminates. *Lecture Notes in Engineering*, **1990**, 178-187		
18	Load and failure analyses of CFRP laminates by means of electrical resistivity measurements. *Composites Science and Technology*, **1989**, 36, 63-76	8.6	366
17	Fatigue behaviour and rate-dependent properties of aramid fibre/carbon fibre hybrid composites. *Composites*, **1989**, 20, 537-544		27
16	Damage Mechanisms - Including Edge Effects - in Carbon Fibre-reinforced Composite Materials. *Composite Materials Series*, **1989**, 273-324		22
15	Systematic Fretting Wear and Fretting Fatigue Studies on Carbon Fibre/Epoxy Laminates **1989**, 615-620		1
14	Fretting fatigue studies on carbon fibre/epoxy resin laminates: III. Microscopy of fretting fatigue failure mechanisms. *Composites Science and Technology*, **1988**, 33, 155-176	8.6	8
13	Influence of fibre and matrix failure strain on static and fatigue properties of carbon fibre-reinforced plastics. *Composites Science and Technology*, **1987**, 29, 257-272	8.6	26
12	Fretting fatigue studies of carbon fibre/epoxy resin laminates. Part II: Effects of a fretting component on fatigue life. *Composites Science and Technology*, **1987**, 30, 203-219	8.6	9
11	Fretting fatigue studies on carbon fibre/epoxy resin laminates: I. Design of a fretting fatigue test apparatus. *Composites Science and Technology*, **1987**, 30, 19-34	8.6	9
10	Temperature-dependent mechanical behaviour of PI and PES resins used as matrices for short-fibre reinforced laminates. *Journal of Materials Science*, **1986**, 21, 3561-3570	4.3	8
9	Fatigue behaviour of aligned short carbon-fibre reinforced polyimide and polyethersulphone composites. *Journal of Materials Science*, **1985**, 20, 3353-3364	4.3	16
8	Probabilistic Failure Strength Analyses of Graphite/Epoxy Cross-Ply Laminates. *Journal of Composite Materials*, **1984**, 18, 339-356	2.7	131
7	A Contribution to the Evaluation of Sequence Effects under Variable Amplitude Loading by Applying Defined Predeformations **1984**, 777-785		
6	Influence of monotonic and cyclic predeformation on fatigue crack propagation of high-strength aluminum alloys. *Engineering Fracture Mechanics*, **1980**, 13, 1009-1021	4.2	7
5	Compressive Static and Fatigue Loading of Continuous Fiber-Reinforced Composites278-278-28		7
4	Characterization and Analysis of Damage Mechanisms in Tension-Tension Fatigue of Graphite/Epoxy Laminates21-21-35		81

3	Long-Term Fatigue Behavior of Composite Materials136-136-24	59
2	Non-Scalar Approach to Simulate the Mechanical Degradation Process in Fibre-Reinforced-Polymers (FRPs)238-238-14	2
1	Shear Lag-Monte Carlo Simulation of Tensile Behavior of Unidirectional Ceramic Matrix Composites. *Ceramic Transactions*,221-232	0.1