Gerhard Kalinka

List of Publications by Year
in descending order

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32 papers	1,840 citations	394421 19 h-index	434195 31 g-index
32 all docs	32 docs citations	32 times ranked	2014 citing authors

#	Article	IF	Citations
1	Hierarchical Composites Reinforced with Carbon Nanotube Grafted Fibers: The Potential Assessed at the Single Fiber Level. Chemistry of Materials, 2008, 20, 1862-1869.	6.7	312
2	Interfacial shear strength of a glass fiber/epoxy bonding in composites modified with carbon nanotubes. Composites Science and Technology, 2010, 70, 1346-1352.	7.8	260
3	Surface Modification of Natural Fibers Using Bacteria: Depositing Bacterial Cellulose onto Natural Fibers To Create Hierarchical Fiber Reinforced Nanocomposites. Biomacromolecules, 2008, 9, 1643-1651.	5.4	226
4	Structural supercapacitor electrolytes based on bicontinuous ionic liquidâ€“epoxy resin systems. Journal of Materials Chemistry A, 2013, 1, 15300.	10.3	143
5	Creating Hierarchical Structures in Renewable Composites by Attaching Bacterial Cellulose onto Sisal Fibers. Advanced Materials, 2008, 20, 3122-3126.	21.0	121
6	Carbon fibre reinforced poly(vinylidene fluoride): Impact of matrix modification on fibre/polymer adhesion. Composites Science and Technology, 2008, 68, 1766-1776.	7.8	83
7	An advanced equipment for single-fibre pull-out test designed to monitor the fracture process. Composites, 1995, 26, 40-46.	0.7	73
8	Mechanical, electrical and microstructural characterisation of multifunctional structural power composites. Journal of Composite Materials, 2015, 49, 1823-1834.	2.4	69
9	Composition as a Means To Control Morphology and Properties of Epoxy Based Dual-Phase Structural Electrolytes. Journal of Physical Chemistry C, 2014, 118, 28377-28387.	3.1	60
10	Interfacial behavior between atmospheric-plasma-fluorinated carbon fibers and poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38	9.4	56
11	Crystallization kinetics of pure and fiber-reinforced poly(phenylene sulfide). Journal of Applied Polymer Science, 1994, 51, 407-413.	2.6	54
12	Fluorinated carbon fibres and their suitability as reinforcement for fluoropolymers. Composites Science and Technology, 2007, 67, 2699-2706.	7.8	42
13	Mapping local microstructure and mechanical performance around carbon nanotube grafted silica fibres: Methodologies for hierarchical composites. Nanoscale, 2011, 3, 4759.	5.6	41
14	Cellulose hydrogels physically crosslinked by glycine: Synthesis, characterization, thermal and mechanical properties. Journal of Applied Polymer Science, 2020, 137, 48380.	2.6	41
15	Characterisation of the fibre/matrix interface in reinforced polymers by the push-in technique. Composites Science and Technology, 1997, 57, 845-851.	7.8	39
16	A technique for the measurement of reinforcement fibre tensile strength at sub-millimetre gauge lengths. Composites Part A: Applied Science and Manufacturing, 2001, 32, 85-90.	7.6	31
17	Computer simulation of crystallization kinetics in fiber-reinforced composites. Journal of Applied Polymer Science, 1994, 51, 399-406.	2.6	30
18	Investigation of interfacial strength parameters in polymer matrix composites: Compatibility and reproducibility. Advanced Industrial and Engineering Polymer Research, 2018, 1, 82-92.	4.7	28

#	Article	IF	Citations
19	Influence of cooling rate on the properties of carbon fiber unidirectional composites with polypropylene, polyamide 6, and polyphenylene sulfide matrices. Advanced Composite Materials, 2020, 29, 101-113.	1.9	23
20	Photocleavable epoxy based materials. Polymer, 2015, 69, 159-168.	3.8	19
21	Tailoring the interfaces in glass fiber-reinforced photopolymer composites. Polymer, 2018, 141, 221-231.	3.8	19
22	Coating of carbon fibers with adhesion-promoting thin poly(acrylic acid) and poly(hydroxyethylmethacrylate) layers using electrospray ionization. Journal of Adhesion Science and Technology, 2015, 29, 1628-1650.	2.6	11
23	Property and Shape Modulation of Carbon Fibers Using Lasers. ACS Applied Materials & Interfaces, 2016, 8, 16351-16358.	8.0	10
24	Reducing the raw material usage for room temperature infusible and polymerisable thermoplastic CFRPs through reuse of recycled waste matrix material. Composites Part B: Engineering, 2021, 216, 108877.	12.0	9
25	Investigations on the cold crystallization of pure and filled PETP by dielectric measurements. Acta Polymerica, 1993, 44, 25-28.	0.9	8
26	Field Deployable Fiber Bragg Grating Strain Patch for Long-Term Stable Health Monitoring Applications. Applied Sciences (Switzerland), 2013, 3, 39-54.	2.5	8
27	The Adhesion of Plasma Nanocoatings Controls the Shear Properties of GF/Polyester Composite. Polymers, 2021, 13, 593.	4.5	8
28	Two-dimensional computer simulation of spherulite formation by branching lamellae. Acta Polymerica, 1997, 48, 256-261.	0.9	6
29	Experimental and numerical multiscale approach to thermally cycled FRP. Composite Structures, 2020, 244, 112303.	5.8	6
30	Circumventing boundary effects while characterizing epoxy/copper interphases using nanoindentation. Composite Interfaces, 2017, 24, 833-848.	2.3	3
31	Re-use potential of carbon fibre fabric recovered from infusible thermoplastic CFRPs in 2nd generation thermosetting-matrix composites. Composites Communications, 2021, 28, 100974.	6.3	1
32	Viscoelastic properties of the interphase in fibre reinforced polymers - measurement and simulation. Composite Interfaces, 1998, 6, 93-101.	2.3	0