

# Klaus Friedrich

## List of Publications by Year in descending order

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476  
papers

22,625  
citations

6840

81  
h-index

14779

131  
g-index

483  
all docs

483  
docs citations

483  
times ranked

12877  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the tribological properties of extremely different wood materials. European Journal of Wood and Wood Products, 2021, 79, 977-988.	1.3	11
2	Outline to tribology of polymer composites. , 2021, , 1-5.		1
3	Multifunctionality of polymer composites based on recycled carbon fibers: A review. Advanced Industrial and Engineering Polymer Research, 2021, 4, 70-81.	2.7	25
4	Tribological applications of polymer composites. , 2021, , 355-368.		1
5	Eco-friendly and sustainable processing of wood-based materials. Green Chemistry, 2021, 23, 2198-2232.	4.6	48
6	Effect of filament quality, structure, and processing parameters on the properties of fused filament fabricated short fiber-reinforced thermoplastics. , 2020, , 253-302.		4
7	High strength epoxy system modified with soft block copolymer and stiff core-shell rubber nanoparticles: Morphology, mechanical properties, and fracture mechanisms. EXPRESS Polymer Letters, 2020, 14, 384-399.	1.1	15
8	Skin-Inspired, Fully Autonomous Self-Warning and Self-Repairing Polymeric Material under Damaging Events. Chemistry of Materials, 2019, 31, 2611-2618.	3.2	47
9	Flexural and fracture mechanical properties of in situ particulate reinforced organomineral hybrid resins modified by organofunctional silanes. Composites Science and Technology, 2019, 174, 169-175.	3.8	8
10	Advances in polymer compositesâ€™ tribology. AIP Conference Proceedings, 2019, , .	0.3	0
11	Design and Synthesis of Polymer Nanocomposites. , 2019, , 47-83.		74
12	A fully biobased tribology material based on acrylic resin and short wood fibres. Tribology International, 2018, 120, 381-390.	3.0	33
13	Direct microencapsulation of pure polyamine by integrating microfluidic emulsion and interfacial polymerization for practical self-healing materials. Journal of Materials Chemistry A, 2018, 6, 24092-24099.	5.2	32
14	Tribology of innovative polybenzimidazole (PBI) coatings. AIP Conference Proceedings, 2018, , .	0.3	3
15	Characterization of mechanical properties of additively manufactured polymers and composites. AIP Conference Proceedings, 2018, , .	0.3	16
16	Polymer composites for tribological applications. Advanced Industrial and Engineering Polymer Research, 2018, 1, 3-39.	2.7	288
17	Wear Performance of High Temperature Polymers and Their Composites. , 2018, , 221-246.		1
18	Structure and mechanical/abrasive wear behavior of a purely natural composite: black-fiber palm wood. Journal of Materials Science, 2017, 52, 10217-10229.	1.7	15

#	ARTICLE	IF	CITATIONS
19	Carbon Fibers in Tribo-composites. , 2017, , 909-969.		2
20	Friction and Wear of Polymer Composites. , 2016, , .		61
21	Carbon fiber reinforced thermoplastic composites for future automotive applications. AIP Conference Proceedings, 2016, , .	0.3	26
22	Tribute to Prof. Stoyko Fakirov on the occasion of his 80th birthday. International Journal of Polymeric Materials and Polymeric Biomaterials, 2016, 65, 266-267.	1.8	0
23	Erosive and sliding wear of polybenzimidazole at elevated temperatures. Journal of Materials Science, 2016, 51, 262-270.	1.7	16
24	Tribological behavior of carbon-filled PPS composites in water lubricated contacts. Wear, 2015, 328-329, 456-463.	1.5	56
25	Mode-I fracture behavior of a shear-thickening fluid as adhesive layer under different loading rates. Journal of Materials Science, 2015, 50, 6642-6648.	1.7	2
26	Effects of graphene and CNT on mechanical, thermal, electrical and corrosion properties of vinylester based nanocomposites. Plastics, Rubber and Composites, 2015, 44, 50-62.	0.9	29
27	Routes for achieving multifunctionality in reinforced polymers and composite structures. , 2015, , 3-41.		15
28	Solid particle erosion and viscoelastic properties of thermoplastic polyurethanes. EXPRESS Polymer Letters, 2015, 9, 166-176.	1.1	25
29	Influence of counter surface topography on the tribological behavior of carbon-filled PPS composites in water. Tribology International, 2015, 88, 209-217.	3.0	20
30	Novel Liquid Crystal Polymers with Tailored Chemical Structure for High Barrier, Mechanical and Tribological Performance. , 2015, , 15-39.		3
31	Study on the Transfer Film Layer in Sliding Contact Between Polymer Composites and Steel Disks Using Nanoindentation. Journal of Tribology, 2014, 136, .	1.0	29
32	Solid particle erosion of polymers and composites. AIP Conference Proceedings, 2014, , .	0.3	1
33	Poly-para-phenylene-copolymers (PPPs). Part 3: scratch and wear resistance. Plastics, Rubber and Composites, 2014, 43, 138-144.	0.9	2
34	Anisotropy in tribological performances of long aligned carbon nanotubes/polymer composites. Carbon, 2014, 67, 38-47.	5.4	50
35	Nanosilica-toughened polymer adhesives. Materials & Design, 2014, 61, 75-86.	5.1	50
36	MFC-structured biodegradable poly(l-lactide)/poly(butylene adipate-co-terephthalate) blends with improved mechanical and barrier properties. Journal of Materials Science, 2013, 48, 6312-6330.	1.7	43

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37	Interlaminar fracture toughness and CAI strength of fibre-reinforced composites with nanoparticles â€“ A review. Composites Science and Technology, 2013, 86, 26-37.	3.8	142
38	Synergistic effects of nanoparticles and traditional tribofillers on sliding wear of polymeric hybrid composites. , 2013, , 49-89.		6
39	Significantly modified tribological performance of epoxy nanocomposites at very low graphene oxide content. Polymer, 2013, 54, 1234-1242.	1.8	214
40	Erosive wear of transparent nanocomposite coatings. Tribology International, 2013, 61, 62-69.	3.0	9
41	Manufacturing Aspects of Advanced Polymer Composites for Automotive Applications. Applied Composite Materials, 2013, 20, 107-128.	1.3	421
42	Poly- <i>para</i> -phenylene-copolymers (PPP) for extrusion and injection moulding Part 1 â€“ molecular and rheological differences. Plastics, Rubber and Composites, 2013, 42, 123-128.	0.9	5
43	Specific erosive wear rate of neat polymer films and various polymer composites. Journal of Reinforced Plastics and Composites, 2013, 32, 631-643.	1.6	13
44	Poly- <i>para</i> -phenylene-copolymers (PPP) for extrusion and injection moulding. Part 2: mechanical behaviour. Plastics, Rubber and Composites, 2013, 42, 401-406.	0.9	4
45	Effective multifunctionality of poly( <i>p</i> -phenylene sulfide) nanocomposites filled with different amounts of carbon nanotubes, graphite, and short carbon fibers. Polymer Composites, 2013, 34, 1405-1412.	2.3	23
46	Preparation and characterization of multifunctional free-standing Ni/epoxy composite films. EXPRESS Polymer Letters, 2012, 6, 903-913.	1.1	5
47	Effective multifunctionality of poly( <i>p</i> -phenylene sulfide) nanocomposites filled with different amounts of carbon nanotubes, graphite and short carbon fibers. , 2012, , .		3
48	Rolling contact fatigue of various unfilled and fiber reinforced polymers. , 2012, , .		0
49	Erosive wear properties of unidirectional carbon fiber reinforced PEEK composites. Tribology International, 2012, 55, 135-140.	3.0	45
50	Mechanical and Tribological Properties of PET/HDPE MFCs. International Journal of Polymeric Materials and Polymeric Biomaterials, 2012, 61, 963-977.	1.8	9
51	Processingâ€“Structureâ€“Property Relationships of Thermoplastic Nanocomposites used in Friction and Wear Applications. Mechanics of Composite Materials, 2012, 48, 179-192.	0.9	4
52	Sliding wear properties of PEEK, PBI and PPP. Wear, 2012, 274-275, 452-455.	1.5	47
53	Role of monodispersed nanoparticles on the tribological behavior of conventional epoxy composites filled with carbon fibers and graphite lubricants. Wear, 2012, 292-293, 176-187.	1.5	72
54	Poly lactide Based Bio-Resorbable Bone Nails: Improvements of Strength and Stiffness by Microfibrillar Reinforcement. , 2012, , 627-640.		0

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55	Current and Future Applications of Polymer Composites in the Field of Tribology. , 2011, , 129-167.		27
56	Synthesis of epoxy composites with high carbon nanotube loading and effects of tubular and wavy morphology on composite strength and modulus. Polymer, 2011, 52, 6037-6045.	1.8	76
57	Shear-thickening behaviour of concentrated polymer dispersions under steady and oscillatory shear. Journal of Materials Science, 2011, 46, 339-346.	1.7	41
58	Effect of thermal treatment on hardness and fracture toughness of a poly-para-phenylene-copolymer. Journal of Materials Science, 2011, 46, 1714-1722.	1.7	5
59	Surface Damage Characteristics and Specific Wear Rates of a New Continuous Carbon Fiber (CF) / Polyetheretherketone (PEEK) Composite under Sliding and Rolling Contact Conditions. Applied Composite Materials, 2011, 18, 211-230.	1.3	29
60	Artificial neural networks for predicting sliding friction and wear properties of polyphenylene sulfide composites. Tribology International, 2011, 44, 603-609.	3.0	76
61	Scratch resistance of high performance polymers. Tribology International, 2011, 44, 1032-1046.	3.0	114
62	Tribological behavior of selected engineering polymers under rolling contact. Tribology International, 2010, 43, 635-646.	3.0	94
63	Enhancement effect of nanoparticles on the sliding wear of short fiber-reinforced polymer composites: A critical discussion of wear mechanisms. Tribology International, 2010, 43, 2355-2364.	3.0	178
64	Increased wear of aqueous lubricated short carbon fiber reinforced polyetheretherketone (PEEK/SCF) composites due to galvanic fiber corrosion. Wear, 2010, 268, 871-876.	1.5	19
65	Evaluation of residual strains in epoxy with different nano/micro-fillers using embedded fiber Bragg grating sensor. Composites Science and Technology, 2010, 70, 2168-2175.	3.8	30
66	Structure and properties of microfibrillar reinforced composites based on thermoplastic PET/LDPE blends after manufacturing by means of pultrusion. Polymer Engineering and Science, 2010, 50, 402-410.	1.5	8
67	On Sliding Wear of Nanoparticle Modified Polymer Composites. , 2010, , .		0
68	Poly-Para-Phenylene-Copolymer (PPP): A High-Strength Polymer with Interesting Mechanical and Tribological Properties. International Journal of Polymeric Materials and Polymeric Biomaterials, 2010, 59, 680-692.	1.8	27
69	Evaluation and visualization of the percolating networks in multi-wall carbon nanotube/epoxy composites. Journal of Materials Science, 2009, 44, 4003-4012.	1.7	113
70	Galvanic corrosion of polyacrylnitrile (PAN) and pitch based short carbon fibres in polyetheretherketone (PEEK) composites. Corrosion Science, 2009, 51, 2524-2528.	3.0	21
71	Study on friction and wear behavior of polyphenylene sulfide composites reinforced by short carbon fibers and sub-micro TiO <sub>2</sub> particles. Composites Science and Technology, 2008, 68, 734-742.	3.8	175
72	Fracture behaviours of in situ silica nanoparticle-filled epoxy at different temperatures. Polymer, 2008, 49, 3816-3825.	1.8	192

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73	Effect of inorganic nanoparticles on mechanical property, fracture toughness and toughening mechanism of two epoxy systems. <i>Polymer</i> , 2008, 49, 3510-3523.	1.8	238
74	Neural network based prediction on mechanical and wear properties of short fibers reinforced polyamide composites. <i>Materials &amp; Design</i> , 2008, 29, 628-637.	5.1	76
75	Computational modelling of thermal impact welded PEEK/steel single lap tensile specimens. <i>Computational Materials Science</i> , 2008, 41, 287-296.	1.4	17
76	Modelling of Mechanical Properties of Nanoparticle-Filled Polyethylene. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2008, 57, 81-100.	1.8	16
77	Synergistic effects of nanoparticles and traditional tribo-fillers on sliding wear of polymeric hybrid composites. <i>Tribology and Interface Engineering Series</i> , 2008, 55, 35-61.	0.0	12
78	Thermal and Mechanical Properties of PAN- and Pitch-Based Carbon Fiber Reinforced PEEK Composites. <i>Journal of Thermoplastic Composite Materials</i> , 2008, 21, 323-336.	2.6	10
79	NEXAFS Spectra of Polymer-nanocarbon Composites. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2008, 16, 471-474.	1.0	7
80	Polyolefin/PET Microplates-reinforced Composites with Improved Barrier Properties. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2008, 57, 33-53.	1.8	13
81	Modelling of Mechanical Properties of Nanoparticle Filled Polyethylene. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2007, 56, 945-964.	1.8	4
82	Improvements of Stiffness and Strength of Bio-Resorbable Bone Nails by the MFC-Concept. <i>Key Engineering Materials</i> , 2007, 334-335, 1181-1184.	0.4	8
83	PEEK- and PTFE- Based Composites for Tribology Applications in a Range between Liquid Helium and Room Temperature. <i>Key Engineering Materials</i> , 2007, 334-335, 597-600.	0.4	1
84	Polymer Nanocomposites as Candidates for Tribological Applications. <i>Materials Science Forum</i> , 2007, 539-543, 842-847.	0.3	3
85	Wear Analysis of Functionally Gradient Composite Materials by FE Modelling of Microhardness Measurements and Wear Tests. <i>Materials Science Forum</i> , 2007, 537-538, 519-526.	0.3	1
86	Reactive Compatibilization in Nano-Silica Filled Polypropylene Composites. <i>Solid State Phenomena</i> , 2007, 121-123, 1433-1436.	0.3	2
87	Interlaminar Fracture of CF/EP Composites Modified with Nano-Silica. <i>Solid State Phenomena</i> , 2007, 121-123, 1403-1406.	0.3	10
88	Influence of Carbon Nanofibers and Piezoelectric Particles on the Thermomechanical Behaviour of Epoxy Mixtures. <i>Solid State Phenomena</i> , 2007, 121-123, 1419-1424.	0.3	2
89	Pultrusion of a flax/polypropylene yarn. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 1431-1438.	3.8	101
90	Stamp forming of hydroxyapatite filled ethylene vinyl acetate co-polymers: Process optimization using a right angle V-mould. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 1621-1629.	3.8	4

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91	Enhancement of the mechanical performance of an epoxy resin and fiber reinforced epoxy resin composites by the introduction of CNF and PZT particles at the microscale. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 1076-1081.	3.8	48
92	On the improvement of toughness of CFRPs with resin doped with CNF and PZT particles. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 1159-1162.	3.8	63
93	Resistance to time-dependent deformation of nanoparticle/polymer composites. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	12
94	Contribution of Coalescence to Microfibril Formation in Polymer Blends during Cold Drawing. <i>Journal of Macromolecular Science - Physics</i> , 2007, 46, 183-194.	0.4	108
95	Swelling of the Zwitterionic Copolymer Networks and Dehydration of their Hydrogels. <i>Macromolecular Symposia</i> , 2007, 254, 122-127.	0.4	10
96	Processability of Pultrusion Using Natural Fiber and Thermoplastic Matrix. <i>Research Letters in Materials Science</i> , 2007, 2007, 1-5.	0.2	9
97	Microstructural Analysis of SiO <sub>2</sub> /Polyethylene Nanocomposites on Local and Macroscopic Scales. <i>Advanced Composites Letters</i> , 2007, 16, 096369350701600.	1.3	0
98	Creep Resistant Polymer Nanocomposites Reinforced with Multiwalled Carbon Nanotubes. <i>Macromolecular Rapid Communications</i> , 2007, 28, 955-961.	2.0	100
99	Integration von Verwertungsstrategien in die Materialforschung – Modellwerkstoffe in der Medizin. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2007, 38, 821-828.	0.5	2
100	Tribological properties of epoxy nanocomposites. <i>Wear</i> , 2007, 262, 699-706.	1.5	108
101	Tribological properties of high temperature resistant polymer composites with fine particles. <i>Tribology International</i> , 2007, 40, 1170-1178.	3.0	182
102	Mode I interlaminar fracture of CNF or/and PZT doped CFRPs via acoustic emission monitoring. <i>Composites Science and Technology</i> , 2007, 67, 822-828.	3.8	57
103	Prediction on wear properties of polymer composites with artificial neural networks. <i>Composites Science and Technology</i> , 2007, 67, 168-176.	3.8	134
104	Effect of fiber length on the wear resistance of short carbon fiber reinforced epoxy composites. <i>Composites Science and Technology</i> , 2007, 67, 222-230.	3.8	121
105	Role of reactive compatibilization in preparation of nanosilica/polypropylene composites. <i>Polymer Engineering and Science</i> , 2007, 47, 499-509.	1.5	43
106	Effect of composition on transcrystallization with reorientation of polypropylene in drawn PET/PP blend. <i>Journal of Materials Science</i> , 2007, 42, 1245-1250.	1.7	9
107	Fracture behaviours of epoxy nanocomposites with nano-silica at low and elevated temperatures. <i>Journal of Materials Science</i> , 2007, 42, 2766-2774.	1.7	112
108	Nanosilica-Reinforced Polypropylene Composites: Microstructural Analysis and Crystallization Behavior. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2006, 55, 577-594.	1.8	12

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109	Property improvements of in situ epoxy nanocomposites with reduced interparticle distance at high nanosilica content. <i>Acta Materialia</i> , 2006, 54, 1833-1842.	3.8	406
110	Epoxy nanocomposites – fracture and toughening mechanisms. <i>Engineering Fracture Mechanics</i> , 2006, 73, 2375-2398.	2.0	711
111	Temperature dependence of crack initiation fracture toughness of various nanoparticles filled polyamide 66. <i>Polymer</i> , 2006, 47, 679-689.	1.8	57
112	On the characterization of tensile creep resistance of polyamide 66 nanocomposites. Part I. Experimental results and general discussions. <i>Polymer</i> , 2006, 47, 2791-2801.	1.8	123
113	On the characterization of tensile creep resistance of polyamide 66 nanocomposites. Part II: Modeling and prediction of long-term performance. <i>Polymer</i> , 2006, 47, 6745-6758.	1.8	158
114	Sliding wear behavior of stainless steel parts made by metal injection molding (MIM). <i>Wear</i> , 2006, 260, 674-686.	1.5	15
115	The influence of residual stresses implicated via cure volume shrinkage on CF/VEUH – composites. <i>Journal of Materials Science</i> , 2006, 41, 383-388.	1.7	12
116	Compression of homogeneous and graded SiC/EP rings: experimental results and FE modelling. <i>Journal of Materials Science</i> , 2006, 41, 3349-3355.	1.7	2
117	Effects of reactive compatibilization on the performance of nano-silica filled polypropylene composites. <i>Journal of Materials Science</i> , 2006, 41, 5767-5770.	1.7	29
118	Tribological properties of micro- and nanoparticles-filled poly(etherimide) composites. <i>Journal of Applied Polymer Science</i> , 2006, 101, 1678-1686.	1.3	33
119	A toughened epoxy resin by silica nanoparticle reinforcement. <i>Journal of Applied Polymer Science</i> , 2006, 100, 1849-1855.	1.3	220
120	Epoxy/alumina nanoparticle composites. II. Influence of silane coupling agent treatment on mechanical performance and wear resistance. <i>Journal of Applied Polymer Science</i> , 2006, 101, 4410-4417.	1.3	42
121	Surface functionalization of Si <sub>3</sub> N <sub>4</sub> nanoparticles by graft polymerization of glycidyl methacrylate and styrene. <i>Journal of Applied Polymer Science</i> , 2006, 102, 992-999.	1.3	4
122	Preparation of Nano-Silica/Polypropylene Composites Using Reactive Compatibilization. <i>Key Engineering Materials</i> , 2006, 312, 229-232.	0.4	7
123	Synthesis and some Mechanical Properties of Polysulfobetaine – Polyacrylamide Double Networks. <i>E-Polymers</i> , 2006, 6, .	1.3	2
124	Application of Halpin – Tsai equation to microfibril reinforced polypropylene/poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 T	1.3	29
125	Wear resisting polymer nanocomposites: preparation and properties. , 2006, , 540-577.		3
126	Structure/Property Relationships for Polyamide 6 / Organoclay Nanocomposites in the Melt and in the Solid State. <i>Macromolecular Symposia</i> , 2005, 221, 85-94.	0.4	3



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127	Wear modelling of polymer composites * *Partly presented at the 6th International Tribology Conference, AUSTRIB 2002, Perth, Australia, December 2002.. , 2005, , 374-400.		0
128	Tribological properties of epoxy nanocomposites. <i>Wear</i> , 2005, 258, 141-148.	1.5	258
129	Prof. Dr Lin Ye, an AvH Friedrich Wilhelm Bessel Award Winner. <i>Tribology International</i> , 2005, 38, 783.	3.0	0
130	Effect of nanoparticles on the tribological behaviour of short carbon fibre reinforced poly(etherimide) composites. <i>Tribology International</i> , 2005, 38, 966-973.	3.0	93
131	Microfibrillar reinforced composites from PET/PP blends: processing, morphology and mechanical properties. <i>Composites Science and Technology</i> , 2005, 65, 107-116.	3.8	205
132	Silica nanoparticles filled polypropylene: effects of particle surface treatment, matrix ductility and particle species on mechanical performance of the composites. <i>Composites Science and Technology</i> , 2005, 65, 635-645.	3.8	236
133	Sliding wear performance of polymer composites under abrasive and water lubricated conditions for pump applications. <i>Wear</i> , 2005, 259, 693-696.	1.5	74
134	Dynamic mechanical properties of hydroxyapatite-ethylene vinyl acetate copolymer composites. <i>Materials Chemistry and Physics</i> , 2005, 89, 454-460.	2.0	25
135	Morphological Studies of Epoxy/Polyaniline Blends. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 787-793.	1.1	26
136	Polypropylene hybrid composites reinforced with long glass fibres and particulate filler. <i>Composites Science and Technology</i> , 2005, 65, 257-267.	3.8	70
137	Effects of various fillers on the sliding wear of polymer composites. <i>Composites Science and Technology</i> , 2005, 65, 2329-2343.	3.8	550
138	Friction and Wear of Epoxy Composites Containing Surface Modified SiC Nanoparticles. <i>Tribology Letters</i> , 2005, 20, 115-123.	1.2	38
139	Electrical and dielectric properties of epoxy resin/polyaniline-DBSA blends. <i>Journal of Materials Science</i> , 2005, 40, 4415-4417.	1.7	19
140	Hardener type as critical parameter for the electrical properties of epoxy resin/polyaniline blends. <i>Journal of Materials Science</i> , 2005, 40, 569-574.	1.7	17
141	Irradiation-induced surface graft polymerization onto calcium carbonate nanoparticles and its toughening effects on polypropylene composites. <i>Polymer Engineering and Science</i> , 2005, 45, 529-538.	1.5	41
142	Fracture Toughness of Discontinuous Long Glass Fiber Reinforced Polypropylene: An Approach Based on a Numerical Prediction of Fiber Orientation in Injection Molding. <i>Polymers and Polymer Composites</i> , 2005, 13, 121-130.	1.0	5
143	Effects of Piezoceramic Particle Addition on the Fracture Toughness Behaviour of CF/EP “ Composites. <i>Advanced Composites Letters</i> , 2005, 14, 096369350501400.	1.3	0
144	A Novel Polyamide 12 Polymerization System and its Use for a LCM-process to Produce CFRP. <i>Journal of Thermoplastic Composite Materials</i> , 2005, 18, 77-90.	2.6	15

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145	Effect of electron-beam radiation on thermoplastic composites. <i>Plastics, Rubber and Composites</i> , 2005, 34, 76-84.	0.9	12
146	Micro-Scratch Testing and Finite Element Simulation of Wear Mechanisms of Polymer Composites. , 2005, , 109-131.		0
147	Tribological Characteristics of Micro- and Nanoparticle Filled Polymer Composites. , 2005, , 169-185.		16
148	Manufacturing and Characterization of Microfibrillar Reinforced Composites from Polymer Blends. , 2005, , 149-167.		27
149	Grafting of Poly(glycidyl methacrylate) onto Nano-SiO <sub>2</sub> and Its Reactivity in Polymers. <i>Polymer Journal</i> , 2005, 37, 677-685.	1.3	9
150	Application of Non-Layered Nanoparticles in Polymer Modification. , 2005, , 25-44.		11
151	Mechanical Properties of Nanocomposites from Ball Milling Grafted Nano-Silica/Polypropylene Block Copolymer. <i>Polymers and Polymer Composites</i> , 2004, 12, 257-268.	1.0	14
152	Microfibrillar Reinforced Composites from PET/LDPE Blends: Morphology and Mechanical Properties. <i>Journal of Macromolecular Science - Physics</i> , 2004, 43, 775-789.	0.4	69
153	Finite Element Simulation of the Fiberâ€™ Matrix Debonding in Polymer Composites Produced by a Sliding Indentor: Part I â€™ Normally Oriented Fibers. <i>Journal of Composite Materials</i> , 2004, 38, 1583-1606.	1.2	14
154	Finite Element Simulation of the Fiberâ€™ Matrix Debonding in Polymer Composites Produced by a Sliding Indentor: Part II â€™ Parallel and Anti-Parallel Fiber Orientation. <i>Journal of Composite Materials</i> , 2004, 38, 1607-1618.	1.2	8
155	Functionalisation of polypropylene by solid phase graft polymerisation and its effect on mechanical properties of silica nanocomposites. <i>Plastics, Rubber and Composites</i> , 2004, 33, 71-76.	0.9	7
156	Mechanical properties of polypropylene composites reinforced with long glass fibres and mineral fillers. <i>Plastics, Rubber and Composites</i> , 2004, 33, 77-84.	0.9	17
157	TRANSCRYSTALLIZATION WITH REORIENTATION OF POLYETHYLENE IN A DRAWN PET/PE BLEND AS REVEALED BY WAXS OF SYNCHROTRON RADIATION. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2004, 53, 847-857.	1.8	8
158	Manufacturing and characterisation of microfibrillar reinforced composites from liquid crystalline polymers and poly(phenylene ether). <i>Plastics, Rubber and Composites</i> , 2004, 33, 353-364.	0.9	5
159	ON THE TRIBOLOGICAL BEHAVIOUR OF MICRO-FIBRILLAR REINFORCED COMPOSITES FROM POLYCONDENSATE/POLYOLEFIN-BLENDS. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2004, 53, 1071-1083.	1.8	7
160	Sliding wear behavior of epoxy containing nano-Al <sub>2</sub> O <sub>3</sub> particles with different pretreatments. <i>Wear</i> , 2004, 256, 1072-1081.	1.5	162
161	Polypropylene composites filled with in-situ grafting polymerization modified nano-silica particles. <i>Journal of Materials Science</i> , 2004, 39, 3475-3478.	1.7	36
162	Thermal stability of frictional surface layer and wear debris of epoxy nanocomposites in relation to the mechanism of tribological performance improvement. <i>Journal of Materials Science</i> , 2004, 39, 3817-3820.	1.7	12

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163	Tribological properties of surface modified nano-alumina/epoxy composites. Journal of Materials Science, 2004, 39, 6487-6493.	1.7	58
164	Short carbon fiber reinforced epoxy resin/polyaniline blends: their electrical and mechanical properties. Composites Science and Technology, 2004, 64, 2385-2391.	3.8	50
165	Analysis of the interfacial interactions in polypropylene/silica nanocomposites. Polymer International, 2004, 53, 176-183.	1.6	137
166	Surface grafting onto SiC nanoparticles with glycidyl methacrylate in emulsion. Journal of Polymer Science Part A, 2004, 42, 3842-3852.	2.5	30
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