Alexander Bismarck

List of Publications by Year
in descending order

325	20,816	9234 74	14156 128
papers	citations	h-index	g-index

336	336	336	18139
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Review: current international research into cellulose nanofibres and nanocomposites. Journal of Materials Science, 2010, 45, 1-33.	1.7	2,042
2	On the use of nanocellulose as reinforcement in polymer matrix composites. Composites Science and Technology, 2014, 105, 15-27.	3.8	669
3	Carbon nanotube-based hierarchical composites: a review. Journal of Materials Chemistry, 2010, 20, 4751.	6.7	643
4	Structure, morphology and thermal characteristics of banana nano fibers obtained by steam explosion. Bioresource Technology, 2011, 102, 1988-1997.	4.8	472
5	Characterisation of a soft elastomer poly(glycerol sebacate) designed to match the mechanical properties of myocardial tissue. Biomaterials, 2008, 29, 47-57.	5.7	460
6	Surface characterization of flax, hemp and cellulose fibers; Surface properties and the water uptake behavior. Polymer Composites, 2002, 23, 872-894.	2.3	350
7	More Than Meets the Eye in Bacterial Cellulose: Biosynthesis, Bioprocessing, and Applications in Advanced Fiber Composites. Macromolecular Bioscience, 2014, 14, 10-32.	2.1	316
8	Hierarchical Composites Reinforced with Carbon Nanotube Grafted Fibers: The Potential Assessed at the Single Fiber Level. Chemistry of Materials, 2008, 20, 1862-1869.	3.2	312
9	High Internal Phase Emulsions Stabilized Solely by Functionalized Silica Particles. Angewandte Chemie - International Edition, 2008, 47, 8277-8279.	7.2	304
10	Highly Permeable Macroporous Polymers Synthesized from Pickering Medium and High Internal Phase Emulsion Templates. Advanced Materials, 2010, 22, 3588-3592.	11.1	270
11	Engineered mycelium composite construction materials from fungal biorefineries: A critical review. Materials and Design, 2020, 187, 108397.	3.3	236
12	Surface Modification of Natural Fibers Using Bacteria: Depositing Bacterial Cellulose onto Natural Fibers To Create Hierarchical Fiber Reinforced Nanocomposites. Biomacromolecules, 2008, 9, 1643-1651.	2.6	226
13	High internal phase emulsion templates solely stabilised by functionalised titania nanoparticles. Chemical Communications, 2007, , 4274.	2.2	218
14	Interfacial Tension Measurements of the (H₂O + CO₂) System at Elevated Pressures and Temperatures. Journal of Chemical & Engineering Data, 2010, 55, 4168-4175.	1.0	217
15	Multifunctional Structural Supercapacitor Composites Based on Carbon Aerogel Modified High Performance Carbon Fiber Fabric. ACS Applied Materials & Interfaces, 2013, 5, 6113-6122.	4.0	209
16	Carbon nanotube grafted carbon fibres: A study of wetting and fibre fragmentation. Composites Part A: Applied Science and Manufacturing, 2010, 41, 1107-1114.	3.8	204
17	High Performance Cellulose Nanocomposites: Comparing the Reinforcing Ability of Bacterial Cellulose and Nanofibrillated Cellulose. ACS Applied Materials & Interfaces, 2012, 4, 4078-4086.	4.0	202
18	Surface functionalisation of bacterial cellulose as the route to produce green polylactide nanocomposites with improved properties. Composites Science and Technology, 2009, 69, 2724-2733.	3.8	189

#	Article	IF	Citations
19	Removal of oxidation debris from multi-walled carbon nanotubes. Chemical Communications, 2007, , 513-515.	2.2	179
20	Surface only modification of bacterial cellulose nanofibres with organic acids. Cellulose, 2011, 18, 595-605.	2.4	177
21	Particle-Stabilized Surfactant-Free Medium Internal Phase Emulsions as Templates for Porous Nanocomposite Materials:Â poly-Pickering-Foams. Langmuir, 2007, 23, 2398-2403.	1.6	169
22	Structural composite supercapacitors. Composites Part A: Applied Science and Manufacturing, 2013, 46, 96-107.	3.8	169
23	Surface characterization of natural fibers; surface properties and the water up-take behavior of modified sisal and coir fibers. Green Chemistry, 2001, 3, 100-107.	4.6	167
24	High-Porosity Macroporous Polymers Sythesized from Titania-Particle-Stabilized Medium and High Internal Phase Emulsions. Langmuir, 2010, 26, 8836-8841.	1.6	160
25	Tailoring mechanical properties of highly porous polymer foams: Silica particle reinforced polymer foams via emulsion templating. Polymer, 2006, 47, 4513-4519.	1.8	155
26	In search of a standard method for the characterisation of organic solvent nanofiltration membranes. Journal of Membrane Science, 2007, 291, 120-125.	4.1	153
27	Cellulose nanopapers as tight aqueous ultra-filtration membranes. Reactive and Functional Polymers, 2015, 86, 209-214.	2.0	147
28	Structural supercapacitor electrolytes based on bicontinuous ionic liquidâ€“epoxy resin systems. Journal of Materials Chemistry A, 2013, 1, 15300.	5.2	143
29	Wetting behavior of flax fibers as reinforcement for polypropylene. Journal of Colloid and Interface Science, 2003, 263, 580-589.	5.0	136
30	Tough reinforced open porous polymer foams via concentrated emulsion templating. Polymer, 2006, 47, 7628-7635.	1.8	134
31	New Evidence for the Mechanism of the Pore Formation in Polymerising High Internal Phase Emulsions or Why polyHIPEs Have an Interconnected Pore Network Structure. Macromolecular Symposia, 2006, 242, 19-24.	0.4	129
32	Effect of iron on the surface, degradation and ion release properties of phosphate-based glass fibres. Acta Biomaterialia, 2005, 1, 553-563.	4.1	125
33	Zeta-potential and rejection rates of a polyethersulfone nanofiltration membrane in single salt solutions. Journal of Membrane Science, 2000, 165, 251-259.	4.1	121
34	Creating Hierarchical Structures in Renewable Composites by Attaching Bacterial Cellulose onto Sisal Fibers. Advanced Materials, 2008, 20, 3122-3126.	11.1	121
35	Interfacial tension measurements and modelling of (carbon dioxide+n-alkane) and (carbon) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 Fluids, 2010, 55, 743-754.	1.6	120
36	Influence of fluorination on the properties of carbon fibres. Journal of Fluorine Chemistry, 1997, 84, 127-134.	0.9	115

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37	Nanopapers for organic solvent nanofiltration. Chemical Communications, 2014, 50, 5778-5781.	2.2	114
38	Open Porous Polymer Foams via Inverse Emulsion Polymerization:Â Should the Definition of High Internal Phase (Ratio) Emulsions Be Extended?. Macromolecules, 2006, 39, 2034-2035.	2.2	112
39	Renewable nanocomposite polymer foams synthesized from Pickering emulsion templates. Green Chemistry, 2009, 11, 1321.	4.6	110
40	Multifunctional structural energy storage composite supercapacitors. Faraday Discussions, 2014, 172, 81-103.	1.6	109
41	Crab vs. Mushroom: A Review of Crustacean and Fungal Chitin in Wound Treatment. Marine Drugs, 2020, 18, 64.	2.2	106
42	Phosphorylated nanocellulose papers for copper adsorption from aqueous solutions. International Journal of Environmental Science and Technology, 2016, 13, 1861-1872.	1.8	104
43	Green Composites as Panacea? Socio-Economic Aspects of Green Materials. Environment, Development and Sustainability, 2006, 8, 445-463.	2.7	101
44	Strong and Stiff: High-Performance Cellulose Nanocrystal/Poly(vinyl alcohol) Composite Fibers. ACS Applied Materials & Interfaces, 2016, 8, 31500-31504.	4.0	101
45	Atmospheric air pressure plasma treatment of lignocellulosic fibres: Impact on mechanical properties and adhesion to cellulose acetate butyrate. Composites Science and Technology, 2008, 68, 215-227.	3.8	99
46	Carbon nanotube grafted silica fibres: Characterising the interface at the single fibre level. Composites Science and Technology, 2010, 70, 393-399.	3.8	98
47	Emulsion and Foam Templatingâ€"Promising Routes to Tailorâ€Made Porous Polymers. Angewandte Chemie - International Edition, 2018, 57, 10024-10032.	7.2	98
48	Plant Fibers as Reinforcement for Green Composites. , 2005, , .		95
49	Carbon nanotube-enhanced polyurethane scaffolds fabricated by thermally induced phase separation. Journal of Materials Chemistry, 2008, 18, 1865.	6.7	95
50	Phase Behavior of Medium and High Internal Phase Water-in-Oil Emulsions Stabilized Solely by Hydrophobized Bacterial Cellulose Nanofibrils. Langmuir, 2014, 30, 452-460.	1.6	95
51	A Generalized Drop Lengthâ€"Height Method for Determination of Contact Angle in Drop-on-Fiber Systems. Journal of Colloid and Interface Science, 1998, 197, 68-77.	5.0	93
52	Anisotropic Surface Energetics and Wettability of Macroscopic Form I Paracetamol Crystals. Langmuir, 2006, 22, 2760-2769.	1.6	93
53	Particleâ€Stabilized Materials: Dry Oils and (Polymerized) Nonâ€Aqueous Foams. Advanced Functional Materials, 2010, 20, 732-737.	7.8	92
54	Leather-like material biofabrication using fungi. Nature Sustainability, 2021, 4, 9-16.	11.5	92

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55	Macroporous Polymers with Hierarchical Pore Structure from Emulsion Templates Stabilised by Both Particles and Surfactants. Macromolecular Rapid Communications, 2011, 32, 1563-1568.	2.0	91
56	Method for the preparation of cellulose acetate flat sheet composite membranes for forward osmosisâ€"Desalination using MgSO4 draw solution. Desalination, 2011, 273, 299-307.	4.0	91
57	Chitin Nanopaper from Mushroom Extract: Natural Composite of Nanofibers and Glucan from a Single Biobased Source. ACS Sustainable Chemistry and Engineering, 2019, 7, 6492-6496.	3.2	90
58	Influence of Oxygen Plasma Treatment of PAN-Based Carbon Fibers on Their Electrokinetic and Wetting Properties. Journal of Colloid and Interface Science, 1999, 210, 60-72.	5.0	89
59	Crosslinked integrally skinned asymmetric polyaniline membranes for use in organic solvents. Journal of Membrane Science, 2009, 326, 635-642.	4.1	88
60	Lithium iron phosphate coated carbon fiber electrodes for structural lithium ion batteries. Composites Science and Technology, 2018, 162, 235-243.	3.8	87
61	Hierarchically porous carbon foams from pickering high internal phase emulsions. Carbon, 2016, 101, 253-260.	5.4	86
62	Nanocellulose enhanced interfaces in truly green unidirectional fibre reinforced composites. Composite Interfaces, 2007, 14, 753-762.	1.3	83
63	Carbon fibre reinforced poly(vinylidene fluoride): Impact of matrix modification on fibre/polymer adhesion. Composites Science and Technology, 2008, 68, 1766-1776.	3.8	83
64	New insights into the relationship between internal phase level of emulsion templates and gasâ€"liquid permeability of interconnected macroporous polymers. Soft Matter, 2009, 5, 4780.	1.2	83
65	Interfacial Tension Measurements of the (H₂O + <i>n</i>-Decane + CO₂) Ternary System at Elevated Pressures and Temperatures. Journal of Chemical & Engineering Data, 2011, 56, 4900-4908.	1.0	83
66	Investigation of the influence of acidic and basic surface groups on carbon fibres on the interfacial shear strength in an epoxy matrix by means of single-fibre pull-out test. Composites Science and Technology, 2001, 61, 599-605.	3.8	82
67	Activation of structural carbon fibres for potential applications in multifunctional structural supercapacitors. Journal of Colloid and Interface Science, 2013, 395, 241-248.	5.0	81
68	Microwave curing of carbonâ€"epoxy composites: Penetration depth and material characterisation. Composites Part A: Applied Science and Manufacturing, 2015, 75, 18-27.	3.8	80
69	Towards a methodology for the effective surface modification of porous polymer scaffolds. Biomaterials, 2005, 26, 7537-7547.	5.7	79
70	Wetting behaviour, moisture up-take and electrokinetic properties of lignocellulosic fibres. Cellulose, 2007, 14, 115-127.	2.4	79
71	Hierarchical composites reinforced with robust short sisal fibre preforms utilising bacterial cellulose as binder. Composites Science and Technology, 2012, 72, 1479-1486.	3.8	79
72	Ion-responsive alginate based macroporous injectable hydrogel scaffolds prepared by emulsion templating. Journal of Materials Chemistry B, 2013, 1, 4736.	2.9	79

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73	Organic fouling behaviour of structurally and chemically different forward osmosis membranes â€“ A study of cellulose triacetate and thin film composite membranes. Journal of Membrane Science, 2016, 520, 247-261.	4.1	79
74	Thermal oxidative cutting of multi-walled carbon nanotubes. Carbon, 2007, 45, 2341-2350.	5.4	78
75	Characterization of Several Polymer Surfaces by Streaming Potential and Wetting Measurements: Some Reflections on Acidâ€“Base Interactions. Journal of Colloid and Interface Science, 1999, 217, 377-387.	5.0	75
76	Interconnected macroporous glycidyl methacrylate-grafted dextran hydrogels synthesised from hydroxyapatite nanoparticle stabilised high internal phase emulsion templates. Journal of Materials Chemistry, 2012, 22, 18824.	6.7	74
77	Hierarchical Composites Made Entirely from Renewable Resources. Journal of Biobased Materials and Bioenergy, 2011, 5, 1-16.	0.1	74
78	The development of a three-dimensional scaffold for ex vivo biomimicry of human acute myeloid leukaemia. Biomaterials, 2010, 31, 2243-2251.	5.7	73
79	Macroporous Polymers Obtained in Highly Concentrated Emulsions Stabilized Solely with Magnetic Nanoparticles. Langmuir, 2011, 27, 13342-13352.	1.6	73
80	Methods to determine surface energies of natural fibres: a review. Composite Interfaces, 2007, 14, 581-604.	1.3	71
81	Short sisal fibre reinforced bacterial cellulose polylactide nanocomposites using hairy sisal fibres as reinforcement. Composites Part A: Applied Science and Manufacturing, 2012, 43, 2065-2074.	3.8	70
82	Carbon foams from emulsion-templated reduced graphene oxide polymer composites: electrodes for supercapacitor devices. Journal of Materials Chemistry A, 2018, 6, 1840-1849.	5.2	70
83	Enhanced fracture toughness of hierarchical carbon nanotube reinforced carbon fibre epoxy composites with engineered matrix microstructure. Composites Science and Technology, 2019, 170, 85-92.	3.8	70
84	Basic surface oxides on carbon fibers. Carbon, 1999, 37, 1019-1027.	5.4	69
85	A new route to carbon black filled polyHIPEs. Soft Matter, 2006, 2, 337.	1.2	69
86	Fluorination of carbon fibres in atmospheric plasma. Carbon, 2007, 45, 775-784.	5.4	69
87	Mechanical, electrical and microstructural characterisation of multifunctional structural power composites. Journal of Composite Materials, 2015, 49, 1823-1834.	1.2	69
88	Surface properties of PAN-based carbon fibers tuned by anodic oxidation in different alkaline electrolyte systems. Applied Surface Science, 1999, 143, 45-55.	3.1	68
89	Solid polymer electrolyte-coated carbon fibres for structural and novel micro batteries. Composites Science and Technology, 2013, 89, 149-157.	3.8	68
90	Nanomaterials Derived from Fungal Sourcesâ€"Is It the New Hype?. Biomacromolecules, 2020, 21, 30-55.	2.6	68

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91	Premature degradation of poly(Î±-hydroxyesters) during thermal processing of BioglassÂ®-containing composites. Acta Biomaterialia, 2010, 6, 756-762.	4.1	67
92	Long-term cytokine-free expansion of cord blood mononuclear cells in three-dimensional scaffolds. Biomaterials, 2011, 32, 9263-9270.	5.7	67
93	Tissue Engineering of Lung: The Effect of Extracellular Matrix on the Differentiation of Embryonic Stem Cells to Pneumocytes. Tissue Engineering - Part A, 2010, 16, 1515-1526.	1.6	66
94	Plant fibre-reinforced polymers: where do we stand in terms of tensile properties?. International Materials Reviews, 2017, 62, 441-464.	9.4	66
95	Hierarchical Polymerized High Internal Phase Emulsions Synthesized from Surfactant-Stabilized Emulsion Templates. Langmuir, 2013, 29, 5952-5961.	1.6	65
96	Study on surface and mechanical fiber characteristics and their effect on the adhesion properties to a polycarbonate matrix tuned by anodic carbon fiber oxidation. Composites Part A: Applied Science and Manufacturing, 1999, 30, 1351-1366.	3.8	64
97	Direct Measurement of the Wetting Behavior of Individual Carbon Nanotubes by Polymer Melts: The Key to Carbon Nanotubeâ^'Polymer Composites. Nano Letters, 2008, 8, 2744-2750.	4.5	64
98	Tailoring the mechanical performance of highly permeable macroporous polymers synthesized via Pickering emulsion templating. Soft Matter, 2011, 7, 6571.	1.2	64
99	Spiral-wound polyaniline membrane modules for organic solvent nanofiltration (OSN). Journal of Membrane Science, 2010, 349, 123-129.	4.1	61
100	Synthesis and characterisation of carbon nanotubes grown on silica fibres by injection CVD. Carbon, 2010, 48, 277-286.	5.4	61
101	Tough interconnected polymerized medium and high internal phase emulsions reinforced by silica particles. Journal of Polymer Science Part A, 2010, 48, 1979-1989.	2.5	61
102	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.	1.5	60
103	Aligned unidirectional PLA/bacterial cellulose nanocomposite fibre reinforced PDLLA composites. Reactive and Functional Polymers, 2014, 85, 185-192.	2.0	60
104	Effects of surface plasma treatment on tribology of thermoplastic polymers. Polymer Engineering and Science, 2008, 48, 1971-1976.	1.5	59
105	Agricultural by-product suitability for the production of chitinous composites and nanofibers utilising Trametes versicolor and Polyporus brumalis mycelial growth. Process Biochemistry, 2019, 80, 95-102.	1.8	59
106	Anisotropic Surface Chemistry of Aspirin Crystals. Journal of Pharmaceutical Sciences, 2007, 96, 2134-2144.	1.6	58
107	Multifunctional structural supercapacitors for electrical energy storage applications. Journal of Composite Materials, 2014, 48, 1409-1416.	1.2	58
108	Reactive polyurethane carbon nanotube foams and their interactions with osteoblasts. Journal of Biomedical Materials Research - Part A, 2009, 88A, 65-73.	2.1	57

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109	High Internal Phase Emulsion Templating with Self-Emulsifying and Thermoresponsive Chitosan-<i>graft</i>-PNIPAM-<i>graft</i>-Oligoproline. Biomacromolecules, 2014, 15, 1777-1787.	2.6	57
110	Interfacial behavior between atmospheric-plasma-fluorinated carbon fibers and poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	5.0	56
111	Polymerised high internal phase ionic liquid-in-oil emulsions as potential separators for lithium ion batteries. Journal of Materials Chemistry A, 2013, 1, 9612.	5.2	56
112	Polymerised high internal phase emulsions for fluid separation applications. Current Opinion in Chemical Engineering, 2014, 4, 114-120.	3.8	56
113	Nanocomposite foams obtained by polymerization of high internal phase emulsions. Journal of Polymer Science Part A, 2008, 46, 5708-5714.	2.5	55
114	Microstructuring of Glasses. Springer Series in Materials Science, 2008, , .	0.4	55
115	Nanoporous asymmetric polyaniline films for filtration of organic solvents. Journal of Membrane Science, 2009, 330, 166-174.	4.1	55
116	Susceptibility of never-dried and freeze-dried bacterial cellulose towards esterification with organic acid. Cellulose, 2012, 19, 891-900.	2.4	54
117	Bio-based macroporous polymer nanocomposites made by mechanical frothing of acrylated epoxidised soybean oil. Green Chemistry, 2011, 13, 3117.	4.6	53
118	Injectable, Interconnected, Highâ€Porosity Macroporous Biocompatible Gelatin Scaffolds Made by Surfactantâ€Free Emulsion Templating. Macromolecular Rapid Communications, 2015, 36, 364-372.	2.0	53
119	Inverse Gas Chromatography of As-Received and Modified Carbon Nanotubes. Langmuir, 2009, 25, 8340-8348.	1.6	52
120	Self-reinforced cellulose nanocomposites. Cellulose, 2010, 17, 779-791.	2.4	52
121	Green polyurethane nanocomposites from soy polyol and bacterial cellulose. Journal of Materials Science, 2013, 48, 2167-2175.	1.7	52
122	Tailored for simplicity: creating high porosity, high performance bio-based macroporous polymers from foam templates. Green Chemistry, 2014, 16, 1931-1940.	4.6	52
123	â€œBrick-and-Mortarâ€• Nanostructured Interphase for Glass-Fiber-Reinforced Polymer Composites. ACS Applied Materials & Interfaces, 2018, 10, 7352-7361.	4.0	52
124	Cellulose nanocrystals by acid vapour: towards more effortless isolation of cellulose nanocrystals. Faraday Discussions, 2017, 202, 315-330.	1.6	51
125	Waste-Derived Low-Cost Mycelium Nanopapers with Tunable Mechanical and Surface Properties. Biomacromolecules, 2019, 20, 3513-3523.	2.6	51
126	Continuous atmospheric plasma fluorination of carbon fibres. Composites Part A: Applied Science and Manufacturing, 2008, 39, 364-373.	3.8	50

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127	Recombinant biosynthesis of bacterial cellulose in genetically modified Escherichia coli. Bioprocess and Biosystems Engineering, 2018, 41, 265-279.	1.7	50
128	Anisotropic surface chemistry of crystalline pharmaceutical solids. AAPS PharmSciTech, 2006, 7, E12-E20.	1.5	49
129	Cross-Linked Bacterial Cellulose Networks Using Glyoxalization. ACS Applied Materials & Interfaces, 2011, 3, 490-499.	4.0	49
130	Bacterial cellulose as source for activated nanosized carbon for electric double layer capacitors. Journal of Materials Science, 2013, 48, 367-376.	1.7	48
131	Porous Bioactive Nanofibers via Cryogenic Solution Blow Spinning and Their Formation into 3D Macroporous Scaffolds. ACS Biomaterials Science and Engineering, 2016, 2, 1442-1449.	2.6	48
132	Carbon fibre-reinforced poly(ethylene glycol) diglycidylether based multifunctional structural supercapacitor composites for electrical energy storage applications. Journal of Composite Materials, 2016, 50, 2155-2163.	1.2	48
133	Hypercrosslinked polyHIPEs as precursors to designable, hierarchically porous carbon foams. Polymer, 2017, 115, 146-153.	1.8	48
134	Direct Interfacial Modification of Nanocellulose Films for Thermoresponsive Membrane Templates. ACS Applied Materials & Interfaces, 2016, 8, 2923-2927.	4.0	47
135	Continuous carbon nanotube synthesis on charged carbon fibers. Composites Part A: Applied Science and Manufacturing, 2018, 112, 525-538.	3.8	47
136	Inflatable Elastomeric Macroporous Polymers Synthesized from Medium Internal Phase Emulsion Templates. ACS Applied Materials & Interfaces, 2015, 7, 19243-19250.	4.0	46
137	Nitrate removal from water using a nanopaper ion-exchanger. Environmental Science: Water Research and Technology, 2016, 2, 117-124.	1.2	46
138	Nondestructive Technique for the Characterization of the Pore Size Distribution of Soft Porous Constructs for Tissue Engineering. Langmuir, 2006, 22, 3235-3242.	1.6	45
139	Surface and bulk properties of severely fluorinated carbon fibres. Journal of Fluorine Chemistry, 2007, 128, 1359-1368.	0.9	45
140	Macroporous polymers made from medium internal phase emulsion templates: Effect of emulsion formulation on the pore structure of polyMIPEs. Polymer, 2013, 54, 5511-5517.	1.8	45
141	Natural fibre-nanocellulose composite filters for the removal of heavy metal ions from water. Industrial Crops and Products, 2019, 133, 325-332.	2.5	44
142	Recent progress of 3D printed continuous fiber reinforced polymer composites based on fused deposition modeling: a review. Journal of Materials Science, 2021, 56, 12999.	1.7	44
143	Basic and acidic surface oxides on carbon fiber and their influence on the expected adhesion to polyamide. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 159, 341-350.	2.3	43
144	Characterization of several modified jute fibers using zeta-potential measurements. Colloid and Polymer Science, 2000, 278, 229-235.	1.0	43

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145	Noncovalent Surface Modification of Cellulose Nanopapers by Adsorption of Polymers from Aprotic Solvents. Langmuir, 2017, 33, 5707-5712.	1.6	43
146	Fungal chitin-glucan nanopapers with heavy metal adsorption properties for ultrafiltration of organic solvents and water. Carbohydrate Polymers, 2021, 253, 117273.	5.1	43
147	Fluorinated carbon fibres and their suitability as reinforcement for fluoropolymers. Composites Science and Technology, 2007, 67, 2699-2706.	3.8	42
148	Surface modification of lignocellulosic fibres in atmospheric air pressure plasma. Green Chemistry, 2007, 9, 1057.	4.6	41
149	Mapping local microstructure and mechanical performance around carbon nanotube grafted silica fibres: Methodologies for hierarchical composites. Nanoscale, 2011, 3, 4759.	2.8	41
150	Carbohydrate derived copoly(lactide) as the compatibilizer for bacterial cellulose reinforced polylactide nanocomposites. Composites Science and Technology, 2012, 72, 1646-1650.	3.8	41
151	Antagonistic Effects between Magnetite Nanoparticles and a Hydrophobic Surfactant in Highly Concentrated Pickering Emulsions. Langmuir, 2014, 30, 5064-5074.	1.6	40
152	Electrografting of thiophene, carbazole, pyrrole and their copolymers onto carbon fibers: electrokinetic measurements, surface composition and morphology. Synthetic Metals, 2001, 123, 391-401.	2.1	39
153	Interfaces in Cross-Linked and Grafted Bacterial Cellulose/Poly(Lactic Acid) Resin Composites. Journal of Polymers and the Environment, 2012, 20, 916-925.	2.4	39
154	Macroporous polymer nanocomposites synthesised from high internal phase emulsion templates stabilised by reduced graphene oxide. Polymer, 2014, 55, 395-402.	1.8	39
155	On the drag reduction effect and shear stability of improved acrylamide copolymers for enhanced hydraulic fracturing. Chemical Engineering Science, 2016, 146, 135-143.	1.9	39
156	Atmospheric Plasma Treatment of Porous Polymer Constructs for Tissue Engineering Applications. Macromolecular Bioscience, 2007, 7, 315-327.	2.1	38
157	Improving the multifunctional behaviour of structural supercapacitors by incorporating chemically activated carbon fibres and mesoporous silica particles as reinforcement. Journal of Composite Materials, 2018, 52, 3085-3097.	1.2	38
158	Increasing carbon fiber composite strength with a nanostructured â€œbrick-and-mortarâ€•interphase. Materials Horizons, 2018, 5, 668-674.	6.4	38
159	Hybrid Nanomaterial Complexes for Advanced Phage-guided Gene Delivery. Molecular Therapy - Nucleic Acids, 2014, 3, e185.	2.3	37
160	Thermosetting hierarchical composites with high carbon nanotube loadings: En route to high performance. Composites Science and Technology, 2016, 127, 134-141.	3.8	37
161	Polyaniline hollow fibres for organic solvent nanofiltration. Chemical Communications, 2008, , 6324.	2.2	36
162	A versatile, solvent-free methodology for the functionalisation of carbon nanotubes. Chemical Science, 2010, 1, 603.	3.7	36

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163	High Performance Composites with Active Stiffness Control. ACS Applied Materials & Interfaces, 2013, 5, 9111-9119.	4.0	36
164	Porous Copolymers of Îµ-Caprolactone as Scaffolds for Tissue Engineering. Macromolecules, 2013, 46, 8136-8143.	2.2	35
165	Mushroom-derived chitosan-glucan nanopaper filters for the treatment of water. Reactive and Functional Polymers, 2020, 146, 104428.	2.0	35
166	Electrografting of poly(carbazole-co-acrylamide) onto several carbon fibers. Synthetic Metals, 2001, 123, 411-423.	2.1	34
167	Effect of hot water immersion on the performance of carbon reinforced unidirectional poly(ether) Tj ETQq1 1 0.784314 rgBT /Overlock Science and Manufacturing, 2007, 38, 407-426.	3.8	34
168	Manufacturing Carbon Nanotube/PVDF Nanocomposite Powders. Macromolecular Materials and Engineering, 2008, 293, 188-193.	1.7	33
169	Ice-microsphere templating to produce highly porous nanocomposite PLA matrix scaffolds with pores selectively lined by bacterial cellulose nano-whiskers. Composites Science and Technology, 2010, 70, 1879-1888.	3.8	33
170	The use of a single-fibre pull-out test to investigate the influence of acidic and basic surface groups on carbon fibres on the adhesion to poly(phenylene sulfide) and matrix-morphology-dependent fracture behaviour. Composites Science and Technology, 2001, 61, 1703-1710.	3.8	32
171	Title is missing!. Journal of Materials Science, 2002, 37, 461-471.	1.7	32
172	Adhesion and friction behavior between fluorinated carbon fibers and poly (vinylidene fluoride). Journal of Materials Science, 2003, 38, 4965-4972.	1.7	32
173	Continuous Atmospheric Plasma Oxidation of Carbon Fibres: Influence on the Fibre Surface and Bulk Properties and Adhesion to Polyamide 12. Plasma Chemistry and Plasma Processing, 2010, 30, 471-487.	1.1	31
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