

Sabu Thomas

List of Publications by Year in descending order

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598
papers

37,988
citations

2963

93
h-index

5806

161
g-index

610
all docs

610
docs citations

610
times ranked

24913
citing authors

#	ARTICLE	IF	CITATIONS
1	Biofibres and biocomposites. Carbohydrate Polymers, 2008, 71, 343-364.	5.1	1,866
2	A review on interface modification and characterization of natural fiber reinforced plastic composites. Polymer Engineering and Science, 2001, 41, 1471-1485.	1.5	960
3	Dynamic mechanical analysis of banana fiber reinforced polyester composites. Composites Science and Technology, 2003, 63, 283-293.	3.8	753
4	Transport phenomena through polymeric systems. Progress in Polymer Science, 2001, 26, 985-1017.	11.8	668
5	Effect of chemical treatment on the tensile properties of short sisal fibre-reinforced polyethylene composites. Polymer, 1996, 37, 5139-5149.	1.8	605
6	Mechanical properties of sisal/oil palm hybrid fiber reinforced natural rubber composites. Composites Science and Technology, 2004, 64, 955-965.	3.8	580
7	Isolation of nanocellulose from pineapple leaf fibres by steam explosion. Carbohydrate Polymers, 2010, 81, 720-725.	5.1	532
8	Supercapacitors from Activated Carbon Derived from Banana Fibers. Journal of Physical Chemistry C, 2007, 111, 7527-7531.	1.5	512
9	Effect of processing variables on the mechanical properties of sisal-fiber-reinforced polypropylene composites. Composites Science and Technology, 1999, 59, 1625-1640.	3.8	463
10	Dynamic mechanical analysis of randomly oriented intimately mixed short banana/sisal hybrid fibre reinforced polyester composites. Composites Science and Technology, 2005, 65, 1077-1087.	3.8	449
11	Miscibility, morphology, thermal, and mechanical properties of a DGEBA based epoxy resin toughened with a liquid rubber. Polymer, 2008, 49, 278-294.	1.8	418
12	Environmental effects on the degradation behaviour of sisal fibre reinforced polypropylene composites. Composites Science and Technology, 2002, 62, 1357-1372.	3.8	410
13	The mechanical performance of hybrid phenol-formaldehyde-based composites reinforced with glass and oil palm fibres. Composites Science and Technology, 2002, 62, 339-353.	3.8	408
14	Evolution from graphite to graphene elastomer composites. Progress in Polymer Science, 2014, 39, 749-780.	11.8	319
15	Effect of fiber surface modification on the mechanical and water absorption characteristics of sisal/polyester composites fabricated by resin transfer molding. Composites Part A: Applied Science and Manufacturing, 2009, 40, 1777-1784.	3.8	313
16	Effect of surface treatments on the electrical properties of low-density polyethylene composites reinforced with short sisal fibers. Composites Science and Technology, 1997, 57, 67-79.	3.8	309
17	A Novel Method for the Synthesis of Cellulose Nanofibril Whiskers from Banana Fibers and Characterization. Journal of Agricultural and Food Chemistry, 2008, 56, 5617-5627.	2.4	305
18	Cellulose nanocomposites with nanofibres isolated from pineapple leaf fibers for medical applications. Carbohydrate Polymers, 2011, 86, 1790-1798.	5.1	304

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19	Isolation and characterization of cellulose nanofibrils from <i>Helicteres isora</i> plant. <i>Industrial Crops and Products</i> , 2014, 59, 27-34.	2.5	287
20	Composite of short coir fibres and natural rubber: effect of chemical modification, loading and orientation of fibre. <i>Polymer</i> , 1998, 39, 1483-1491.	1.8	273
21	Thermophysical properties of natural fibre reinforced polyester composites. <i>Composites Science and Technology</i> , 2006, 66, 2719-2725.	3.8	271
22	Dynamic mechanical behavior of short coir fiber reinforced natural rubber composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2005, 36, 1499-1506.	3.8	263
23	Morphology, dynamic mechanical and thermal studies on poly(styrene-co-acrylonitrile) modified epoxy resin/glass fibre composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 2422-2432.	3.8	258
24	Effect of fiber loading and chemical treatments on thermophysical properties of banana fiber/polypropylene commingled composite materials. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008, 39, 1582-1588.	3.8	256
25	Dynamical mechanical analysis of sisal/oil palm hybrid fiber-reinforced natural rubber composites. <i>Polymer Composites</i> , 2006, 27, 671-680.	2.3	254
26	Improving reinforcement of natural rubber by networking of activated carbon nanotubes. <i>Carbon</i> , 2008, 46, 1037-1045.	5.4	251
27	Electrospun polycaprolactone/ZnO nanocomposite membranes as biomaterials with antibacterial and cell adhesion properties. <i>Journal of Polymer Research</i> , 2014, 21, 1.	1.2	242
28	Effect of chemical modification on properties of hybrid fiber biocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008, 39, 352-363.	3.8	231
29	Short coir fiber-reinforced natural rubber composites: Effects of fiber length, orientation, and alkali treatment. <i>Journal of Applied Polymer Science</i> , 1995, 55, 583-594.	1.3	226
30	A comparative study on mechanical properties of sisal-leaf fibre-reinforced polyester composites prepared by resin transfer and compression moulding techniques. <i>Composites Science and Technology</i> , 2007, 67, 453-461.	3.8	222
31	Cellulose Nanofiber-Based Polyaniline Flexible Papers as Sustainable Microwave Absorbers in the X-Band. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 20032-20043.	4.0	218
32	Cure kinetics, morphology and miscibility of modified DGEBA-based epoxy resin " Effects of a liquid rubber inclusion. <i>Polymer</i> , 2007, 48, 1695-1710.	1.8	217
33	Pectin/carboxymethyl cellulose/microfibrillated cellulose composite scaffolds for tissue engineering. <i>Carbohydrate Polymers</i> , 2013, 98, 877-885.	5.1	212
34	The role of fibre/matrix interactions on the dynamic mechanical properties of chemically modified banana fibre/polyester composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2006, 37, 1260-1269.	3.8	210
35	A study of the mechanical properties of randomly oriented short banana and sisal hybrid fiber reinforced polyester composites. <i>Journal of Applied Polymer Science</i> , 2005, 96, 1699-1709.	1.3	203
36	Nanocelluloses from jute fibers and their nanocomposites with natural rubber: Preparation and characterization. <i>International Journal of Biological Macromolecules</i> , 2015, 81, 768-777.	3.6	202

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37	Influence of interfacial adhesion on the mechanical properties and fracture behaviour of short sisal fibre reinforced polymer composites. <i>European Polymer Journal</i> , 1996, 32, 1243-1250.	2.6	200
38	Electrospinning tissue engineering and wound dressing scaffolds from polymer-titanium dioxide nanocomposites. <i>Chemical Engineering Journal</i> , 2019, 358, 1262-1278.	6.6	192
39	Crosslinked natural rubber nanocomposites reinforced with cellulose whiskers isolated from bamboo waste: Processing and mechanical/thermal properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 735-741.	3.8	190
40	Environment friendly green composites based on soy protein isolate – A review. <i>Food Hydrocolloids</i> , 2015, 50, 174-192.	5.6	179
41	Tensile properties of short sisal fiber-reinforced polyethylene composites. <i>Journal of Applied Polymer Science</i> , 1993, 47, 1731-1739.	1.3	177
42	Meldrum's Acid Modified Cellulose Nanofiber-Based Polyvinylidene Fluoride Microfiltration Membrane for Dye Water Treatment and Nanoparticle Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2026-2033.	3.2	177
43	Polarity parameters and dynamic mechanical behaviour of chemically modified banana fiber reinforced polyester composites. <i>Composites Science and Technology</i> , 2003, 63, 1231-1240.	3.8	174
44	Electrospun polycaprolactone membranes incorporated with ZnO nanoparticles as skin substitutes with enhanced fibroblast proliferation and wound healing. <i>RSC Advances</i> , 2014, 4, 24777.	1.7	170
45	Viscoelastic Behavior and Reinforcement Mechanism in Rubber Nanocomposites in the Vicinity of Spherical Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2013, 117, 12632-12648.	1.2	165
46	Carbon nanotube based elastomer composites – an approach towards multifunctional materials. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8446-8485.	2.7	163
47	Tetragonal BaTiO ₃ nanoparticles: An efficient photocatalyst for the degradation of organic pollutants. <i>Materials Science in Semiconductor Processing</i> , 2016, 51, 42-47.	1.9	160
48	Investigation of angiogenesis and its mechanism using zinc oxide nanoparticle-loaded electrospun tissue engineering scaffolds. <i>RSC Advances</i> , 2014, 4, 51528-51536.	1.7	159
49	Mechanical Performance of Short Banana/Sisal Hybrid Fiber Reinforced Polyester Composites. <i>Journal of Reinforced Plastics and Composites</i> , 2010, 29, 12-29.	1.6	158
50	Structural and Surface Compatibility Study of Modified Electrospun Poly(μ -caprolactone) (PCL) Composites for Skin Tissue Engineering. <i>AAPS PharmSciTech</i> , 2017, 18, 72-81.	1.5	152
51	Melt rheological behaviour of short pineapple fibre reinforced low density polyethylene composites. <i>Polymer</i> , 1996, 37, 5421-5431.	1.8	151
52	Synergistic effect of multi walled carbon nanotubes and reduced graphene oxides in natural rubber for sensing application. <i>Soft Matter</i> , 2013, 9, 10343.	1.2	150
53	Electrospun poly(vinylidene fluoride-trifluoroethylene)/zinc oxide nanocomposite tissue engineering scaffolds with enhanced cell adhesion and blood vessel formation. <i>Nano Research</i> , 2017, 10, 3358-3376.	5.8	146
54	Dielectric properties of modified graphene oxide filled polyurethane nanocomposites and its correlation with rheology. <i>Composites Science and Technology</i> , 2014, 104, 18-25.	3.8	142

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55	Biodegradable Nanocomposite Films Based on Sodium Alginate and Cellulose Nanofibrils. <i>Materials</i> , 2016, 9, 50.	1.3	142
56	Electrospun PCL membranes incorporated with biosynthesized silver nanoparticles as antibacterial wound dressings. <i>Applied Nanoscience (Switzerland)</i> , 2016, 6, 337-344.	1.6	138
57	Thermal conductivity and thermal diffusivity analyses of low-density polyethylene composites reinforced with sisal, glass and intimately mixed sisal/glass fibres. <i>Composites Science and Technology</i> , 2000, 60, 2967-2977.	3.8	134
58	Hydroxyl terminated poly(ether ether ketone) with pendent methyl group toughened epoxy resin: miscibility, morphology and mechanical properties. <i>Polymer</i> , 2005, 46, 12372-12385.	1.8	133
59	Effect of fibre length and chemical modifications on the tensile properties of intimately mixed short sisal/glass hybrid fibre reinforced low density polyethylene composites. <i>Polymer International</i> , 2004, 53, 1624-1638.	1.6	131
60	Morphology, transport characteristics and viscoelastic polymer chain confinement in nanocomposites based on thermoplastic potato starch and cellulose nanofibers from pineapple leaf. <i>Carbohydrate Polymers</i> , 2017, 169, 176-188.	5.1	130
61	Short pineapple-leaf-fiber-reinforced low-density polyethylene composites. <i>Journal of Applied Polymer Science</i> , 1995, 57, 843-854.	1.3	128
62	Effect of ageing on the physical and mechanical properties of sisal-fiber-reinforced polyethylene composites. <i>Composites Science and Technology</i> , 1995, 53, 99-110.	3.8	128
63	Recent advances in electrospun polycaprolactone based scaffolds for wound healing and skin bioengineering applications. <i>Materials Today Communications</i> , 2019, 19, 319-335.	0.9	122
64	Investigation into dielectric behaviour and electromagnetic interference shielding effectiveness of conducting styrene butadiene rubber composites containing ionic liquid modified MWCNT. <i>Polymer</i> , 2017, 112, 102-115.	1.8	121
65	Morphology, static and dynamic mechanical properties of in situ microfibrillar composites based on polypropylene/poly (ethylene terephthalate) blends. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008, 39, 164-175.	3.8	119
66	Pyrolytic carbon from biomass precursors as anode materials for lithium batteries. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 430, 132-137.	2.6	118
67	Studies on Tensile and Flexural Properties of Short Banana/Glass Hybrid Fiber Reinforced Polystyrene Composites. <i>Journal of Composite Materials</i> , 2008, 42, 1471-1489.	1.2	117
68	Rapid methylene blue adsorption using modified lignocellulosic materials. <i>Chemical Engineering Research and Design</i> , 2017, 107, 346-356.	2.7	117
69	Cutting edge development on graphene derivatives modified by liquid crystal and CdS/TiO ₂ hybrid matrix: optoelectronics and biotechnological aspects. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2021, 46, 385-449.	6.8	117
70	Rheological behaviour of thermoplastic elastomers from polypropylene/acrylonitrile-butadiene rubber blends: effect of blend ratio, reactive compatibilization and dynamic vulcanization. <i>Polymer</i> , 1999, 40, 4325-4344.	1.8	114
71	Preparation of Bionanomaterials and their Polymer Nanocomposites from Waste and Biomass. <i>Waste and Biomass Valorization</i> , 2010, 1, 121-134.	1.8	113
72	UV protective poly(lactic acid)/rosin films for sustainable packaging. <i>International Journal of Biological Macromolecules</i> , 2017, 99, 37-45.	3.6	113

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73	Studies on the thermal stability of natural rubber/polystyrene interpenetrating polymer networks: thermogravimetric analysis. <i>Polymer Degradation and Stability</i> , 2001, 72, 423-439.	2.7	112
74	Electrical properties of natural-fiber-reinforced low density polyethylene composites: A comparison with carbon black and glass-fiber-filled low density polyethylene composites. <i>Journal of Applied Polymer Science</i> , 1997, 63, 247-266.	1.3	110
75	Development of poly(isobutylene-co-isoprene)/reduced graphene oxide nanocomposites for barrier, dielectric and sensing applications. <i>Materials Letters</i> , 2013, 96, 109-112.	1.3	110
76	Nonlinear Viscoelastic Behavior of Silica-Filled Natural Rubber Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2009, 113, 17997-18002.	1.5	109
77	Stress relaxation in short sisal-fiber-reinforced natural rubber composites. <i>Journal of Applied Polymer Science</i> , 1994, 53, 1051-1060.	1.3	107
78	Functionalized theranostic nanocarriers with bio-inspired polydopamine for tumor imaging and chemo-photothermal therapy. <i>Journal of Controlled Release</i> , 2019, 309, 203-219.	4.8	107
79	Cure kinetics and morphology of blends of epoxy resin with poly (ether ether ketone) containing pendant tertiary butyl groups. <i>Polymer</i> , 2003, 44, 3687-3699.	1.8	106
80	Dynamic Mechanical Properties of Short Sisal Fiber Reinforced Low Density Polyethylene Composites. <i>Journal of Reinforced Plastics and Composites</i> , 1993, 12, 139-155.	1.6	105
81	Completely green synthesis of dextrose reduced silver nanoparticles, its antimicrobial and sensing properties. <i>Carbohydrate Polymers</i> , 2014, 106, 469-474.	5.1	105
82	Effect of hybridization and chemical modification on the water-absorption behavior of banana fiber-reinforced polyester composites. <i>Journal of Applied Polymer Science</i> , 2004, 91, 3856-3865.	1.3	104
83	Short sisal fiber reinforced polypropylene composites: the role of interface modification on ultimate properties. <i>Composite Interfaces</i> , 2002, 9, 171-205.	1.3	102
84	Reactive compatibilisation of heterogeneous ethylene propylene rubber (EPM)/nylon 6 blends by the addition of compatibiliser precursor EPM-g-MA. <i>Polymer</i> , 1999, 40, 5799-5819.	1.8	101
85	Thermoplastic elastomers from blends of polystyrene and natural rubber: morphology and mechanical properties. <i>European Polymer Journal</i> , 1999, 35, 253-271.	2.6	101
86	Gas transport through nano and micro composites of natural rubber (NR) and their blends with carboxylated styrene butadiene rubber (XSBR) latex membranes. <i>Polymer</i> , 2006, 47, 858-870.	1.8	100
87	Stress relaxation behavior of organically modified montmorillonite filled natural rubber/nitrile rubber nanocomposites. <i>Applied Clay Science</i> , 2014, 87, 120-128.	2.6	100
88	Electrospun polycaprolactone (PCL) scaffolds embedded with europium hydroxide nanorods (EHNs) with enhanced vascularization and cell proliferation for tissue engineering applications. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4660-4672.	2.9	100
89	Compatibilizing effect of block copolymers in heterogeneous polystyrene/poly(methyl methacrylate) blends. <i>Polymer</i> , 1992, 33, 4260-4268.	1.8	99
90	Effect of fiber surface treatments on the fiber-matrix interaction in banana fiber reinforced polyester composites. <i>Composite Interfaces</i> , 2002, 9, 335-353.	1.3	99

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91	Elastomer/thermoplastic modified epoxy nanocomposites: The hybrid effect of micro™ and nano™ scale. Materials Science and Engineering Reports, 2017, 116, 1-29.	14.8	99
92	Influence of carboxyl-terminated (butadiene-co-acrylonitrile) loading on the mechanical and thermal properties of cured epoxy blends. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 2531-2544.	2.4	98
93	Influence of polarity parameters on the mechanical properties of composites from polypropylene fiber and short banana fiber. Composites Part A: Applied Science and Manufacturing, 2010, 41, 1380-1387.	3.8	98
94	Graphene and graphitic derivative filled polymer composites as potential sensors. Physical Chemistry Chemical Physics, 2015, 17, 3954-3981.	1.3	98
95	Effect of organically modified nanoclay on the miscibility, rheology, morphology and properties of epoxy/carboxyl-terminated (butadiene-co-acrylonitrile) blend. Soft Matter, 2013, 9, 2899.	1.2	96
96	Growth factor loaded in situ photocrosslinkable poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/gelatin methacryloyl hybrid patch for diabetic wound healing. Materials Science and Engineering C, 2021, 118, 111519.	3.8	94
97	Diffusion and transport of aromatic hydrocarbons through natural rubber. Polymer, 1994, 35, 5504-5510.	1.8	93
98	Water Sorption Studies of Hybrid Biofiber-Reinforced Natural Rubber Biocomposites. Biomacromolecules, 2005, 6, 2969-2979.	2.6	92
99	Dynamic mechanical properties of isotactic polypropylene/nitrile rubber blends: Effects of blend ratio, reactive compatibilization, and dynamic vulcanization. Journal of Polymer Science, Part B: Polymer Physics, 1997, 35, 2309-2327.	2.4	91
100	Dynamic mechanical behavior of high-density polyethylene/ethylene vinyl acetate copolymer blends: The effects of the blend ratio, reactive compatibilization, and dynamic vulcanization. Journal of Applied Polymer Science, 2003, 87, 2083-2099.	1.3	91
101	Excellent Electromagnetic Interference Shielding and High Electrical Conductivity of Compatibilized Polycarbonate/Polypropylene Carbon Nanotube Blend Nanocomposites. Industrial & Engineering Chemistry Research, 2018, 57, 4287-4297.	1.8	90
102	Dynamic mechanical and thermal properties of physically compatibilized natural rubber/poly(methyl methacrylate) blends. Journal of Polymer Science, Part B: Polymer Physics, 2000, 38, 525-536.	2.4	89
103	Thermal behaviour of polymer blends: a comparison of the thermal properties of miscible and immiscible systems. Polymer Degradation and Stability, 1993, 41, 59-64.	2.7	88
104	Interrelated shape memory and Payne effect in polyurethane/graphene oxide nanocomposites. RSC Advances, 2013, 3, 16068.	1.7	88
105	Selective localisation of multi walled carbon nanotubes in polypropylene/natural rubber blends to reduce the percolation threshold. Composites Science and Technology, 2015, 116, 9-17.	3.8	86
106	Polymer sutures for simultaneous wound healing and drug delivery – A review. International Journal of Pharmaceutics, 2017, 524, 454-466.	2.6	86
107	Natural rubber composites reinforced with sisal/oil palm hybrid fibers: Tensile and cure characteristics. Journal of Applied Polymer Science, 2004, 93, 2305-2312.	1.3	85
108	Diffusion and transport through nanocomposites of natural rubber (NR), carboxylated styrene butadiene rubber (XSBR) and their blends. Journal of Membrane Science, 2006, 282, 162-170.	4.1	85

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109	UV resistant transparent bionanocomposite films based on potato starch/cellulose for sustainable packaging. <i>Starch/Staerke</i> , 2018, 70, 1700139.	1.1	85
110	Collagen coated electrospun polycaprolactone (PCL) with titanium dioxide (TiO ₂) from an environmentally benign solvent: preliminary physico-chemical studies for skin substitute. <i>Journal of Polymer Research</i> , 2014, 21, 1.	1.2	84
111	Mechanical and viscoelastic properties of short fiber reinforced natural rubber composites: effects of interfacial adhesion, fiber loading, and orientation. <i>Journal of Adhesion Science and Technology</i> , 1994, 8, 235-248.	1.4	83
112	Dynamic mechanical properties of thermoplastic elastomers from blends of polypropylene with copolymers of ethylene with vinyl acetate. <i>European Polymer Journal</i> , 1992, 28, 1451-1458.	2.6	82
113	Effect of nature and extent of crosslinking on swelling and mechanical behavior of styrene-butadiene rubber membranes. <i>Journal of Membrane Science</i> , 1999, 163, 1-17.	4.1	82
114	The Static and Dynamic Mechanical Properties of Banana and Glass Fiber Woven Fabric-Reinforced Polyester Composite. <i>Journal of Composite Materials</i> , 2005, 39, 1007-1025.	1.2	82
115	Dielectric characteristics of sisal-oil palm hybrid biofibre reinforced natural rubber biocomposites. <i>Journal of Materials Science</i> , 2006, 41, 5538-5547.	1.7	82
116	Dielectric properties of isotactic polypropylene/nitrile rubber blends: Effects of blend ratio, filler addition, and dynamic vulcanization. <i>Journal of Applied Polymer Science</i> , 1999, 73, 255-270.	1.3	81
117	Recent Developments in Crosslinking of Elastomers. <i>Rubber Chemistry and Technology</i> , 2005, 78, 458-488.	0.6	80
118	Nanofibril reinforced unsaturated polyester nanocomposites: Morphology, mechanical and barrier properties, viscoelastic behavior and polymer chain confinement. <i>Industrial Crops and Products</i> , 2014, 56, 246-254.	2.5	80
119	Electrospun polyvinyl alcohol membranes incorporated with green synthesized silver nanoparticles for wound dressing applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2018, 29, 163.	1.7	80
120	Electrospun poly(ϵ -caprolactone)-based skin substitutes: <i>in vivo</i> evaluation of wound healing and the mechanism of cell proliferation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015, 103, 1445-1454.	1.6	78
121	Effect of Bentonite Clay on the Mechanical, Thermal, and Pervaporation Performance of the Poly(vinyl alcohol) Nanocomposite Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 16820-16831.	1.8	77
122	Rheological behaviour of nanocellulose reinforced unsaturated polyester nanocomposites. <i>International Journal of Biological Macromolecules</i> , 2014, 69, 274-281.	3.6	76
123	Electrochemical and mechanical properties of nanochitin-incorporated PVDF-HFP-based polymer electrolytes for lithium batteries. <i>Ionics</i> , 2011, 17, 407-414.	1.2	74
124	A facile and rapid method for the black pepper leaf mediated green synthesis of silver nanoparticles and the antimicrobial study. <i>Applied Nanoscience (Switzerland)</i> , 2014, 4, 809-818.	1.6	74
125	Flexible EMI shielding materials derived by melt blending PVDF and ionic liquid modified MWNTs. <i>Materials Research Express</i> , 2014, 1, 035003.	0.8	74
126	Transport characteristics of organic solvents through carbon nanotube filled styrene butadiene rubber nanocomposites: the influence of rubber-filler interaction, the degree of reinforcement and morphology. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 11217-11228.	1.3	74

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127	Dopamine functionalization of BaTiO ₃ : an effective strategy for the enhancement of electrical, magnetoelectric and thermal properties of BaTiO ₃ -PVDF-TrFE nanocomposites. Dalton Transactions, 2018, 47, 2039-2051.	1.6	74
128	Short sisal fiber reinforced styrene-butadiene rubber composites. Journal of Applied Polymer Science, 1995, 58, 597-612.	1.3	73
129	Morphology, mechanical and viscoelastic behaviour of blends of nitrile rubber and ethylene-vinyl acetate copolymer. European Polymer Journal, 1995, 31, 957-967.	2.6	73
130	A critical review on multifunctional smart materials ~ nanographene™ emerging avenue: nano-imaging and biosensor applications. Critical Reviews in Solid State and Materials Sciences, 2022, 47, 691-707.	6.8	73
131	Cure kinetics, morphological and dynamic mechanical analysis of diglycidyl ether of bisphenol-A epoxy resin modified with hydroxyl terminated poly(ether ether ketone) containing pendent tertiary butyl groups. Polymer, 2006, 47, 5411-5419.	1.8	72
132	Dynamic Mechanical and Dielectric Behavior of Banana-Glass Hybrid Fiber Reinforced Polyester Composites. Journal of Reinforced Plastics and Composites, 2010, 29, 1131-1145.	1.6	72
133	Electrical properties of short sisal fiber reinforced polyester composites fabricated by resin transfer molding. Composites Part A: Applied Science and Manufacturing, 2012, 43, 507-511.	3.8	72
134	Chemistry associated with natural rubber~ graphene nanocomposites and its effect on physical and structural properties. Industrial Crops and Products, 2015, 74, 792-802.	2.5	72
135	Chitin nanowhisker (ChNW)-functionalized electrospun PVDF membrane for enhanced removal of Indigo carmine. Carbohydrate Polymers, 2017, 165, 115-122.	5.1	72
136	Effect of molecular interactions on the performance of poly(isobutylene-co-isoprene)/graphene and clay nanocomposites. Colloid and Polymer Science, 2013, 291, 1729-1740.	1.0	71
137	Influence of non-covalent functionalization of carbon nanotubes on the rheological behavior of natural rubber latex nanocomposites. European Polymer Journal, 2014, 53, 147-159.	2.6	71
138	Antibacterial and wound healing analysis of gelatin/zeolite scaffolds. Colloids and Surfaces B: Biointerfaces, 2014, 115, 244-252.	2.5	70
139	Effect of filler loading on polymer chain confinement and thermomechanical properties of epoxy/boron nitride (h-BN) nanocomposites. New Journal of Chemistry, 2020, 44, 4494-4503.	1.4	70
140	A study of advances in characterization of interfaces and fiber surfaces in lignocellulosic fiber-reinforced composites. Composite Interfaces, 2005, 12, 95-124.	1.3	69
141	Electrical properties of banana fiber~reinforced phenol formaldehyde composites. Journal of Applied Polymer Science, 2008, 109, 256-263.	1.3	69
142	Effect of zinc oxide nanoparticles on the <i>in vitro</i> degradation of electrospun polycaprolactone membranes in simulated body fluid. International Journal of Polymeric Materials and Polymeric Biomaterials, 2016, 65, 28-37.	1.8	69
143	Dynamic mechanical properties of oil palm fiber/phenol formaldehyde and oil palm fiber/glass hybrid phenol formaldehyde composites. Polymer Composites, 2005, 26, 388-400.	2.3	68
144	Complex Phase Separation in Poly(acrylonitrile~butadiene~styrene)-Modified Epoxy/4,4~Diaminodiphenyl Sulfone Blends: Generation of New Micro- and Nanosubstructures. Journal of Physical Chemistry B, 2009, 113, 5418-5430.	1.2	68

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145	Thermal behaviour of natural rubber/polystyrene blends: thermogravimetric and differential scanning calorimetric analysis. <i>Polymer Degradation and Stability</i> , 1998, 61, 431-439.	2.7	67
146	Nitrogen/oxygen permeability of natural rubber, epoxidised natural rubber and natural rubber/epoxidised natural rubber blends. <i>Polymer</i> , 1999, 40, 3223-3228.	1.8	67
147	Faujasites Incorporated Tissue Engineering Scaffolds for Wound Healing: In Vitro and In Vivo Analysis. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 11194-11206.	4.0	67
148	Enhanced lithium storage in ZnFe ₂ O ₄ @C nanocomposite produced by a low-energy ball milling. <i>Journal of Power Sources</i> , 2015, 282, 462-470.	4.0	67
149	Effect of draw ratio on the microstructure, thermal, tensile and dynamic rheological properties of insitu microfibrillar composites. <i>European Polymer Journal</i> , 2009, 45, 1738-1747.	2.6	66
150	Epoxy resin/liquid natural rubber system: secondary phase separation and its impact on mechanical properties. <i>Journal of Materials Science</i> , 2010, 45, 1769-1781.	1.7	66
151	Nano ZnO as cure activator and reinforcing filler in natural rubber. <i>Polymer Engineering and Science</i> , 2013, 53, 1337-1346.	1.5	66
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