

# Sabu Thomas

## List of Publications by Citations

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593  
papers

30,887  
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147  
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610  
ext. papers

34,022  
ext. citations

4.1  
avg, IF

7.48  
L-index

#	Paper	IF	Citations
593	Biofibres and biocomposites. <i>Carbohydrate Polymers</i> , <b>2008</b> , 71, 343-364	10.3	1564
592	A review on interface modification and characterization of natural fiber reinforced plastic composites. <i>Polymer Engineering and Science</i> , <b>2001</b> , 41, 1471-1485	2.3	817
591	Dynamic mechanical analysis of banana fiber reinforced polyester composites. <i>Composites Science and Technology</i> , <b>2003</b> , 63, 283-293	8.6	653
590	Transport phenomena through polymeric systems. <i>Progress in Polymer Science</i> , <b>2001</b> , 26, 985-1017	29.6	568
589	Effect of chemical treatment on the tensile properties of short sisal fibre-reinforced polyethylene composites. <i>Polymer</i> , <b>1996</b> , 37, 5139-5149	3.9	523
588	Mechanical properties of sisal/oil palm hybrid fiber reinforced natural rubber composites. <i>Composites Science and Technology</i> , <b>2004</b> , 64, 955-965	8.6	486
587	Isolation of nanocellulose from pineapple leaf fibres by steam explosion. <i>Carbohydrate Polymers</i> , <b>2010</b> , 81, 720-725	10.3	436
586	Supercapacitors from Activated Carbon Derived from Banana Fibers. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 7527-7531	3.8	430
585	Effect of processing variables on the mechanical properties of sisal-fiber-reinforced polypropylene composites. <i>Composites Science and Technology</i> , <b>1999</b> , 59, 1625-1640	8.6	406
584	Dynamic mechanical analysis of randomly oriented intimately mixed short banana/sisal hybrid fibre reinforced polyester composites. <i>Composites Science and Technology</i> , <b>2005</b> , 65, 1077-1087	8.6	390
583	Miscibility, morphology, thermal, and mechanical properties of a DGEBA based epoxy resin toughened with a liquid rubber. <i>Polymer</i> , <b>2008</b> , 49, 278-294	3.9	364
582	Environmental effects on the degradation behaviour of sisal fibre reinforced polypropylene composites. <i>Composites Science and Technology</i> , <b>2002</b> , 62, 1357-1372	8.6	339
581	The mechanical performance of hybrid phenol-formaldehyde-based composites reinforced with glass and oil palm fibres. <i>Composites Science and Technology</i> , <b>2002</b> , 62, 339-353	8.6	336
580	Evolution from graphite to graphene elastomer composites. <i>Progress in Polymer Science</i> , <b>2014</b> , 39, 749-780	29.6	272
579	Effect of surface treatments on the electrical properties of low-density polyethylene composites reinforced with short sisal fibers. <i>Composites Science and Technology</i> , <b>1997</b> , 57, 67-79	8.6	263
578	Effect of fiber surface modification on the mechanical and water absorption characteristics of sisal/polyester composites fabricated by resin transfer molding. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2009</b> , 40, 1777-1784	8.4	257
577	A novel method for the synthesis of cellulose nanofibril whiskers from banana fibers and characterization. <i>Journal of Agricultural and Food Chemistry</i> , <b>2008</b> , 56, 5617-27	5.7	252

576	Cellulose nanocomposites with nanofibres isolated from pineapple leaf fibers for medical applications. <i>Carbohydrate Polymers</i> , <b>2011</b> , 86, 1790-1798	10.3	247
575	Composite of short coir fibres and natural rubber: effect of chemical modification, loading and orientation of fibre. <i>Polymer</i> , <b>1998</b> , 39, 1483-1491	3.9	235
574	Thermophysical properties of natural fibre reinforced polyester composites. <i>Composites Science and Technology</i> , <b>2006</b> , 66, 2719-2725	8.6	235
573	Improving reinforcement of natural rubber by networking of activated carbon nanotubes. <i>Carbon</i> , <b>2008</b> , 46, 1037-1045	10.4	226
572	Dynamic mechanical behavior of short coir fiber reinforced natural rubber composites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2005</b> , 36, 1499-1506	8.4	218
571	Isolation and characterization of cellulose nanofibrils from <i>Helicteres isora</i> plant. <i>Industrial Crops and Products</i> , <b>2014</b> , 59, 27-34	5.9	214
570	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> , <b>2007</b> , 38, 2422-2432	8.4	214
569	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> , <b>2008</b> , 39, 1582-1588	8.4	210
568	Dynamical mechanical analysis of sisal/oil palm hybrid fiber-reinforced natural rubber composites. <i>Polymer Composites</i> , <b>2006</b> , 27, 671-680	3	205
567	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> , <b>2007</b> , 67, 453-461	8.6	198
566	Short coir fiber-reinforced natural rubber composites: Effects of fiber length, orientation, and alkali treatment. <i>Journal of Applied Polymer Science</i> , <b>1995</b> , 55, 583-594	2.9	195
565	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> , <b>2006</b> , 37, 1260-1269	8.4	192
564	Effect of chemical modification on properties of hybrid fiber biocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2008</b> , 39, 352-363	8.4	190
563	Cure kinetics, morphology and miscibility of modified DGEBA-based epoxy resin [Effects of a liquid rubber inclusion. <i>Polymer</i> , <b>2007</b> , 48, 1695-1710	3.9	189
562	Electrospun polycaprolactone/ZnO nanocomposite membranes as biomaterials with antibacterial and cell adhesion properties. <i>Journal of Polymer Research</i> , <b>2014</b> , 21, 1	2.7	182
561	Influence of interfacial adhesion on the mechanical properties and fracture behaviour of short sisal fibre reinforced polymer composites. <i>European Polymer Journal</i> , <b>1996</b> , 32, 1243-1250	5.2	178
560	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> , <b>2005</b> , 96, 1699-1709	2.9	168
559	Pectin/carboxymethyl cellulose/microfibrillated cellulose composite scaffolds for tissue engineering. <i>Carbohydrate Polymers</i> , <b>2013</b> , 98, 877-85	10.3	167

558	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> , <b>2012</b> , 43, 735-741	8.4	157
557	Tensile properties of short sisal fiber-reinforced polyethylene composites. <i>Journal of Applied Polymer Science</i> , <b>1993</b> , 47, 1731-1739	2.9	157
556	Polarity parameters and dynamic mechanical behaviour of chemically modified banana fiber reinforced polyester composites. <i>Composites Science and Technology</i> , <b>2003</b> , 63, 1231-1240	8.6	152
555	Nanocelluloses from jute fibers and their nanocomposites with natural rubber: Preparation and characterization. <i>International Journal of Biological Macromolecules</i> , <b>2015</b> , 81, 768-77	7.9	151
554	Cellulose Nanofiber-Based Polyaniline Flexible Papers as Sustainable Microwave Absorbers in the X-Band. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 20032-20043	9.5	149
553	Electrospun polycaprolactone membranes incorporated with ZnO nanoparticles as skin substitutes with enhanced fibroblast proliferation and wound healing. <i>RSC Advances</i> , <b>2014</b> , 4, 24777	3.7	140
552	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> , <b>2017</b> , 5, 2026-2033	8.3	139
551	Carbon nanotube based elastomer composites – an approach towards multifunctional materials. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 8446-8485	7.1	139
550	Environment friendly green composites based on soy protein isolate – A review. <i>Food Hydrocolloids</i> , <b>2015</b> , 50, 174-192	10.6	135
549	Melt rheological behaviour of short pineapple fibre reinforced low density polyethylene composites. <i>Polymer</i> , <b>1996</b> , 37, 5421-5431	3.9	131
548	Synergistic effect of multi walled carbon nanotubes and reduced graphene oxides in natural rubber for sensing application. <i>Soft Matter</i> , <b>2013</b> , 9, 10343	3.6	129
547	Mechanical Performance of Short Banana/Sisal Hybrid Fiber Reinforced Polyester Composites. <i>Journal of Reinforced Plastics and Composites</i> , <b>2010</b> , 29, 12-29	2.9	129
546	Investigation of angiogenesis and its mechanism using zinc oxide nanoparticle-loaded electrospun tissue engineering scaffolds. <i>RSC Advances</i> , <b>2014</b> , 4, 51528-51536	3.7	127
545	Dielectric properties of modified graphene oxide filled polyurethane nanocomposites and its correlation with rheology. <i>Composites Science and Technology</i> , <b>2014</b> , 104, 18-25	8.6	122
544	Viscoelastic behavior and reinforcement mechanism in rubber nanocomposites in the vicinity of spherical nanoparticles. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 12632-48	3.4	122
543	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> , <b>2000</b> , 60, 2967-2977	8.6	122
542	Electrospinning tissue engineering and wound dressing scaffolds from polymer-titanium dioxide nanocomposites. <i>Chemical Engineering Journal</i> , <b>2019</b> , 358, 1262-1278	14.7	121
541	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> , <b>2004</b> , 53, 1624-1638	3.3	113

540	Effect of ageing on the physical and mechanical properties of sisal-fiber-reinforced polyethylene composites. <i>Composites Science and Technology</i> , <b>1995</b> , 53, 99-110	8.6	112
539	Short pineapple-leaf-fiber-reinforced low-density polyethylene composites. <i>Journal of Applied Polymer Science</i> , <b>1995</b> , 57, 843-854	2.9	111
538	Hydroxyl terminated poly(ether ether ketone) with pendent methyl group toughened epoxy resin: miscibility, morphology and mechanical properties. <i>Polymer</i> , <b>2005</b> , 46, 12372-12385	3.9	110
537	Electrospun poly(vinylidene fluoride-trifluoroethylene)/zinc oxide nanocomposite tissue engineering scaffolds with enhanced cell adhesion and blood vessel formation. <i>Nano Research</i> , <b>2017</b> , 10, 3358-3376	10	107
536	Structural and Surface Compatibility Study of Modified Electrospun Poly(ε-caprolactone) (PCL) Composites for Skin Tissue Engineering. <i>AAPS PharmSciTech</i> , <b>2017</b> , 18, 72-81	3.9	105
535	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> , <b>1997</b> , 63, 247-266	2.9	102
534	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> , <b>2008</b> , 39, 164-175	8.4	99
533	Rheological behaviour of thermoplastic elastomers from polypropylene/acrylonitrileButadiene rubber blends: effect of blend ratio, reactive compatibilization and dynamic vulcanization. <i>Polymer</i> , <b>1999</b> , 40, 4325-4344	3.9	99
532	Tetragonal BaTiO <sub>3</sub> nanoparticles: An efficient photocatalyst for the degradation of organic pollutants. <i>Materials Science in Semiconductor Processing</i> , <b>2016</b> , 51, 42-47	4.3	99
531	Studies on the thermal stability of natural rubber/polystyrene interpenetrating polymer networks: thermogravimetric analysis. <i>Polymer Degradation and Stability</i> , <b>2001</b> , 72, 423-439	4.7	98
530	Cure kinetics and morphology of blends of epoxy resin with poly (ether ether ketone) containing pendant tertiary butyl groups. <i>Polymer</i> , <b>2003</b> , 44, 3687-3699	3.9	97
529	Electrospun PCL membranes incorporated with biosynthesized silver nanoparticles as antibacterial wound dressings. <i>Applied Nanoscience (Switzerland)</i> , <b>2016</b> , 6, 337-344	3.3	96
528	Development of poly(isobutylene-co-isoprene)/reduced graphene oxide nanocomposites for barrier, dielectric and sensing applications. <i>Materials Letters</i> , <b>2013</b> , 96, 109-112	3.3	95
527	Preparation of Bionanomaterials and their Polymer Nanocomposites from Waste and Biomass. <i>Waste and Biomass Valorization</i> , <b>2010</b> , 1, 121-134	3.2	93
526	Reactive compatibilisation of heterogeneous ethylene propylene rubber (EPM)/nylon 6 blends by the addition of compatibiliser precursor EPM-g-MA. <i>Polymer</i> , <b>1999</b> , 40, 5799-5819	3.9	93
525	Studies on Tensile and Flexural Properties of Short Banana/Glass Hybrid Fiber Reinforced Polystyrene Composites. <i>Journal of Composite Materials</i> , <b>2008</b> , 42, 1471-1489	2.7	92
524	Pyrolytic carbon from biomass precursors as anode materials for lithium batteries. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2006</b> , 430, 132-137	5.3	92
523	Compatibilizing effect of block copolymers in heterogeneous polystyrene/poly(methyl methacrylate) blends. <i>Polymer</i> , <b>1992</b> , 33, 4260-4268	3.9	91

522	Nonlinear Viscoelastic Behavior of Silica-Filled Natural Rubber Nanocomposites. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 17997-18002	3.8	90
521	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> , <b>2006</b> , 47, 858-870	3.9	90
520	Biodegradable Nanocomposite Films Based on Sodium Alginate and Cellulose Nanofibrils. <i>Materials</i> , <b>2016</b> , 9,	3.5	90
519	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> , <b>2017</b> , 169, 176-188	10.3	89
518	Effect of hybridization and chemical modification on the water-absorption behavior of banana fiber reinforced polyester composites. <i>Journal of Applied Polymer Science</i> , <b>2004</b> , 91, 3856-3865	2.9	89
517	Dynamic Mechanical Properties of Short Sisal Fiber Reinforced Low Density Polyethylene Composites. <i>Journal of Reinforced Plastics and Composites</i> , <b>1993</b> , 12, 139-155	2.9	89
516	Graphene and graphitic derivative filled polymer composites as potential sensors. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 3954-81	3.6	88
515	Effect of organically modified nanoclay on the miscibility, rheology, morphology and properties of epoxy/carboxyl-terminated (butadiene-co-acrylonitrile) blend. <i>Soft Matter</i> , <b>2013</b> , 9, 2899	3.6	87
514	Influence of carboxyl-terminated (butadiene-co-acrylonitrile) loading on the mechanical and thermal properties of cured epoxy blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2004</b> , 42, 2531-2544	2.6	87
513	Short sisal fiber reinforced polypropylene composites: the role of interface modification on ultimate properties. <i>Composite Interfaces</i> , <b>2002</b> , 9, 171-205	2.3	87
512	Stress relaxation behavior of organically modified montmorillonite filled natural rubber/nitrile rubber nanocomposites. <i>Applied Clay Science</i> , <b>2014</b> , 87, 120-128	5.2	86
511	Completely green synthesis of dextrose reduced silver nanoparticles, its antimicrobial and sensing properties. <i>Carbohydrate Polymers</i> , <b>2014</b> , 106, 469-74	10.3	85
510	Stress relaxation in short sisal-fiber-reinforced natural rubber composites. <i>Journal of Applied Polymer Science</i> , <b>1994</b> , 53, 1051-1060	2.9	85
509	Investigation into dielectric behaviour and electromagnetic interference shielding effectiveness of conducting styrene butadiene rubber composites containing ionic liquid modified MWCNT. <i>Polymer</i> , <b>2017</b> , 112, 102-115	3.9	84
508	Dynamic mechanical properties of isotactic polypropylene/nitrile rubber blends: Effects of blend ratio, reactive compatibilization, and dynamic vulcanization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1997</b> , 35, 2309-2327	2.6	84
507	Influence of polarity parameters on the mechanical properties of composites from polypropylene fiber and short banana fiber. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2010</b> , 41, 1380-1387	8.4	82
506	Thermoplastic elastomers from blends of polystyrene and natural rubber: morphology and mechanical properties. <i>European Polymer Journal</i> , <b>1999</b> , 35, 253-271	5.2	82
505	Thermal behaviour of polymer blends: a comparison of the thermal properties of miscible and immiscible systems. <i>Polymer Degradation and Stability</i> , <b>1993</b> , 41, 59-64	4.7	81

504	Water sorption studies of hybrid biofiber-reinforced natural rubber biocomposites. <i>Biomacromolecules</i> , <b>2005</b> , 6, 2969-79	6.9	80
503	Dynamic mechanical behavior of high-density polyethylene/ethylene vinyl acetate copolymer blends: The effects of the blend ratio, reactive compatibilization, and dynamic vulcanization. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 87, 2083-2099	2.9	80
502	Effect of fiber surface treatments on the fiber/matrix interaction in banana fiber reinforced polyester composites. <i>Composite Interfaces</i> , <b>2002</b> , 9, 335-353	2.3	80
501	Diffusion and transport of aromatic hydrocarbons through natural rubber. <i>Polymer</i> , <b>1994</b> , 35, 5504-5510	3.9	80
500	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> , <b>2017</b> , 5, 4660-4672	7.3	79
499	Interrelated shape memory and Payne effect in polyurethane/graphene oxide nanocomposites. <i>RSC Advances</i> , <b>2013</b> , 3, 16068	3.7	79
498	Dynamic mechanical and thermal properties of physically compatibilized natural rubber/poly(methyl methacrylate) blends by the addition of natural rubber-graft- poly(methyl methacrylate). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2000</b> , 38, 525-536	2.6	79
497	Rapid methylene blue adsorption using modified lignocellulosic materials. <i>Chemical Engineering Research and Design</i> , <b>2017</b> , 107, 346-356	5.5	76
496	Dynamic mechanical properties of thermoplastic elastomers from blends of polypropylene with copolymers of ethylene with vinyl acetate. <i>European Polymer Journal</i> , <b>1992</b> , 28, 1451-1458	5.2	74
495	UV protective poly(lactic acid)/rosin films for sustainable packaging. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 99, 37-45	7.9	73
494	Collagen coated electrospun polycaprolactone (PCL) with titanium dioxide (TiO <sub>2</sub> ) from an environmentally benign solvent: preliminary physico-chemical studies for skin substitute. <i>Journal of Polymer Research</i> , <b>2014</b> , 21, 1	2.7	72
493	Dielectric characteristics of sisal/palm hybrid biofibre reinforced natural rubber biocomposites. <i>Journal of Materials Science</i> , <b>2006</b> , 41, 5538-5547	4.3	72
492	The Static and Dynamic Mechanical Properties of Banana and Glass Fiber Woven Fabric-Reinforced Polyester Composite. <i>Journal of Composite Materials</i> , <b>2005</b> , 39, 1007-1025	2.7	71
491	Natural rubber composites reinforced with sisal/oil palm hybrid fibers: Tensile and cure characteristics. <i>Journal of Applied Polymer Science</i> , <b>2004</b> , 93, 2305-2312	2.9	71
490	Effect of nature and extent of crosslinking on swelling and mechanical behavior of styrene-butadiene rubber membranes. <i>Journal of Membrane Science</i> , <b>1999</b> , 163, 1-17	9.6	71
489	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> , <b>1994</b> , 8, 235-248	2	70
488	Recent advances in electrospun polycaprolactone based scaffolds for wound healing and skin bioengineering applications. <i>Materials Today Communications</i> , <b>2019</b> , 19, 319-335	2.5	69
487	Excellent Electromagnetic Interference Shielding and High Electrical Conductivity of Compatibilized Polycarbonate/Polypropylene Carbon Nanotube Blend Nanocomposites. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 4287-4297	3.9	69

486	Diffusion and transport through nanocomposites of natural rubber (NR), carboxylated styrene butadiene rubber (XSBR) and their blends. <i>Journal of Membrane Science</i> , <b>2006</b> , 282, 162-170	9.6	69
485	Dielectric properties of isotactic polypropylene/nitrile rubber blends: Effects of blend ratio, filler addition, and dynamic vulcanization. <i>Journal of Applied Polymer Science</i> , <b>1999</b> , 73, 255-270	2.9	69
484	Morphology, mechanical and viscoelastic behaviour of blends of nitrile rubber and ethylene-vinyl acetate copolymer. <i>European Polymer Journal</i> , <b>1995</b> , 31, 957-967	5.2	69
483	Elastomer/thermoplastic modified epoxy nanocomposites: The hybrid effect of micro and nano scale. <i>Materials Science and Engineering Reports</i> , <b>2017</b> , 116, 1-29	30.9	68
482	Effect of Bentonite Clay on the Mechanical, Thermal, and Pervaporation Performance of the Poly(vinyl alcohol) Nanocomposite Membranes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 16820-16831	3.9	68
481	Selective localisation of multi walled carbon nanotubes in polypropylene/natural rubber blends to reduce the percolation threshold. <i>Composites Science and Technology</i> , <b>2015</b> , 116, 9-17	8.6	68
480	Short sisal fiber reinforced styrene-butadiene rubber composites. <i>Journal of Applied Polymer Science</i> , <b>1995</b> , 58, 597-612	2.9	66
479	Nanofibril reinforced unsaturated polyester nanocomposites: Morphology, mechanical and barrier properties, viscoelastic behavior and polymer chain confinement. <i>Industrial Crops and Products</i> , <b>2014</b> , 56, 246-254	5.9	65
478	Polymer sutures for simultaneous wound healing and drug delivery - A review. <i>International Journal of Pharmaceutics</i> , <b>2017</b> , 524, 454-466	6.5	64
477	Rheological behaviour of nanocellulose reinforced unsaturated polyester nanocomposites. <i>International Journal of Biological Macromolecules</i> , <b>2014</b> , 69, 274-81	7.9	64
476	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. <i>Polymer</i> , <b>2006</b> , 47, 5411-5419	3.9	64
475	Electrospun poly( $\epsilon$ -caprolactone)-based skin substitutes: In vivo evaluation of wound healing and the mechanism of cell proliferation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2015</b> , 103, 1445-54	3.5	63
474	Functionalized theranostic nanocarriers with bio-inspired polydopamine for tumor imaging and chemo-photothermal therapy. <i>Journal of Controlled Release</i> , <b>2019</b> , 309, 203-219	11.7	63
473	Effect of molecular interactions on the performance of poly(isobutylene-co-isoprene)/graphene and clay nanocomposites. <i>Colloid and Polymer Science</i> , <b>2013</b> , 291, 1729-1740	2.4	63
472	Complex phase separation in poly(acrylonitrile-butadiene-styrene)-modified epoxy/4,4'-diaminodiphenyl sulfone blends: generation of new micro- and nanosubstructures. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 5418-30	3.4	63
471	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> , <b>2015</b> , 17, 11217-28	3.6	62
470	Flexible EMI shielding materials derived by melt blending PVDF and ionic liquid modified MWNTs. <i>Materials Research Express</i> , <b>2014</b> , 1, 035003	1.7	61
469	Dynamic Mechanical and Dielectric Behavior of Banana-Glass Hybrid Fiber Reinforced Polyester Composites. <i>Journal of Reinforced Plastics and Composites</i> , <b>2010</b> , 29, 1131-1145	2.9	61



468	UV resistant transparent bionanocomposite films based on potato starch/cellulose for sustainable packaging. <i>Starch/Staerke</i> , <b>2018</b> , 70, 1700139	2.3	60
467	Nylon 6/ethylene propylene rubber (EPM) blends: Phase morphology development during processing and comparison with literature data. <i>Journal of Applied Polymer Science</i> , <b>1999</b> , 71, 1405-1429 <sup>2.9</sup>	2.9	60
466	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> , <b>2014</b> , 4, 809-818	3.3	59
465	Thermal behaviour of natural rubber/polystyrene blends: thermogravimetric and differential scanning calorimetric analysis. <i>Polymer Degradation and Stability</i> , <b>1998</b> , 61, 431-439	4.7	59
464	Chemistry associated with natural rubber-graphene nanocomposites and its effect on physical and structural properties. <i>Industrial Crops and Products</i> , <b>2015</b> , 74, 792-802	5.9	58
463	Influence of non-covalent functionalization of carbon nanotubes on the rheological behavior of natural rubber latex nanocomposites. <i>European Polymer Journal</i> , <b>2014</b> , 53, 147-159	5.2	58
462	Faujasites incorporated tissue engineering scaffolds for wound healing: in vitro and in vivo analysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 11194-206	9.5	58
461	Enhanced lithium storage in ZnFe <sub>2</sub> O <sub>4</sub> nanocomposite produced by a low-energy ball milling. <i>Journal of Power Sources</i> , <b>2015</b> , 282, 462-470	8.9	58
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458	Epoxy resin/liquid natural rubber system: secondary phase separation and its impact on mechanical properties. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 1769-1781	4.3	58
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