

Maya Jacob John

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65

papers

6,153

citations

29

h-index

67

g-index

67

ext. papers

6,919

ext. citations

4.8

avg, IF

6.31

L-index

#	Paper	IF	Citations
65	Biofibres and biocomposites. <i>Carbohydrate Polymers</i> , 2008 , 71, 343-364	10.3	1564
64	Recent developments in chemical modification and characterization of natural fiber-reinforced composites. <i>Polymer Composites</i> , 2008 , 29, 187-207	3	742
63	Mechanical properties of sisal/oil palm hybrid fiber reinforced natural rubber composites. <i>Composites Science and Technology</i> , 2004 , 64, 955-965	8.6	486
62	Extraction of nanocellulose fibrils from lignocellulosic fibres: A novel approach. <i>Carbohydrate Polymers</i> , 2011 , 86, 1468-1475	10.3	461
61	Oil Palm Fibre Reinforced Phenol Formaldehyde Composites: Influence of Fibre Surface Modifications on the Mechanical Performance. <i>Applied Composite Materials</i> , 2000 , 7, 295-329	2	306
60	Dynamical mechanical analysis of sisal/oil palm hybrid fiber-reinforced natural rubber composites. <i>Polymer Composites</i> , 2006 , 27, 671-680	3	205
59	Effect of chemical modification on properties of hybrid fiber biocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008 , 39, 352-363	8.4	190
58	Electrospun chitosan-based nanocomposite mats reinforced with chitin nanocrystals for wound dressing. <i>Carbohydrate Polymers</i> , 2014 , 109, 7-15	10.3	178
57	Environmental friendly method for the extraction of coir fibre and isolation of nanofibre. <i>Carbohydrate Polymers</i> , 2013 , 92, 1477-83	10.3	175
56	Bio-based products from xylan: A review. <i>Carbohydrate Polymers</i> , 2018 , 179, 28-41	10.3	150
55	Chemical modification of flax reinforced polypropylene composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009 , 40, 442-448	8.4	139
54	Review on flammability of biofibres and biocomposites. <i>Carbohydrate Polymers</i> , 2014 , 111, 149-82	10.3	131
53	Physicomechanical properties of nanocomposites based on cellulose nanofibre and natural rubber latex. <i>Cellulose</i> , 2013 , 20, 417-427	5.5	110
52	Review on hygroscopic aging of cellulose fibres and their biocomposites. <i>Carbohydrate Polymers</i> , 2015 , 131, 337-54	10.3	102
51	A comparative study on properties of micro and nanopapers produced from cellulose and cellulose nanofibres. <i>Carbohydrate Polymers</i> , 2015 , 118, 1-8	10.3	95
50	Water sorption studies of hybrid biofiber-reinforced natural rubber biocomposites. <i>Biomacromolecules</i> , 2005 , 6, 2969-79	6.9	80
49	Cellulose nanomaterials: new generation materials for solving global issues. <i>Cellulose</i> , 2020 , 27, 1149-1194	19.4	78

48	Natural rubber composites reinforced with sisal/oil palm hybrid fibers: Tensile and cure characteristics. <i>Journal of Applied Polymer Science</i> , 2004 , 93, 2305-2312	2.9	71
47	Thermoplastic Processing of PLA/Cellulose Nanomaterials Composites. <i>Polymers</i> , 2018 , 10,	4.5	66
46	Dynamic Mechanical and Dielectric Behavior of Banana-Glass Hybrid Fiber Reinforced Polyester Composites. <i>Journal of Reinforced Plastics and Composites</i> , 2010 , 29, 1131-1145	2.9	61
45	Investigation of surface properties of physico-chemically modified natural fibres using inverse gas chromatography. <i>Industrial Crops and Products</i> , 2011 , 33, 108-115	5.9	58
44	Kenaffpolypropylene composites: Effect of amphiphilic coupling agent on surface properties of fibres and composites. <i>Carbohydrate Polymers</i> , 2010 , 82, 549-554	10.3	58
43	A study of advances in characterization of interfaces and fiber surfaces in lignocellulosic fiber-reinforced composites. <i>Composite Interfaces</i> , 2005 , 12, 95-124	2.3	58
42	Melt-spun polylactic acid fibers: Effect of cellulose nanowhiskers on processing and properties. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 274-281	2.9	49
41	Effect of Chemical Modification on the Mechanical and Electrical Properties of Banana Fiber Polyester Composites. <i>Journal of Composite Materials</i> , 2007 , 41, 2371-2386	2.7	48
40	The Effect of Silane Coupling Agents on the Viscoelastic Properties of Rubber Biocomposites. <i>Macromolecular Materials and Engineering</i> , 2006 , 291, 1119-1126	3.9	47
39	Green Composites from Natural Fibers and Natural Rubber: Effect of Fiber Ratio on Mechanical and Swelling Characteristics. <i>Journal of Natural Fibers</i> , 2008 , 5, 47-60	1.8	41
38	Electrospun Alginate Nanofibers Toward Various Applications: A Review. <i>Materials</i> , 2020 , 13,	3.5	37
37	A study on the moisture sorption characteristics in woven sisal fabric reinforced natural rubber biocomposites. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 416-423	2.9	36
36	Natural fibre-nanocellulose composite filters for the removal of heavy metal ions from water. <i>Industrial Crops and Products</i> , 2019 , 133, 325-332	5.9	29
35	Mineralization of Poly(lactic acid) (PLA), Poly(3-hydroxybutyrate-co-valerate) (PHBV) and PLA/PHBV Blend in Compost and Soil Environments. <i>Journal of Renewable Materials</i> , 2016 , 4, 133-145	2.4	28
34	Novel Woven Sisal Fabric Reinforced Natural Rubber Composites: Tensile and Swelling Characteristics. <i>Journal of Composite Materials</i> , 2006 , 40, 1471-1485	2.7	26
33	Investigation of the degree of homogeneity and hydrogen bonding in PEG/PVP blends prepared in supercritical CO ₂ : Comparison with ethanol-cast blends and physical mixtures. <i>Journal of Supercritical Fluids</i> , 2010 , 54, 81-88	4.2	22
32	Stress Relaxation and Thermal Analysis of Hybrid Biofiber Reinforced Rubber Biocomposites. <i>Journal of Reinforced Plastics and Composites</i> , 2006 , 25, 1903-1917	2.9	19
31	Mechanical performance of hybrid woven juteBoselle-reinforced polyester composites. <i>Polymers and Polymer Composites</i> , 2019 , 27, 407-418	0.8	17

30	Pultrusion of flax/poly(lactic acid) commingled yarns and nonwoven fabrics. <i>Journal of Thermoplastic Composite Materials</i> , 2014 , 27, 1553-1572	1.9	16
29	Effect of amphiphilic coupling agent on heat flow and dielectric properties of flax/polypropylene composites. <i>Composites Part B: Engineering</i> , 2012 , 43, 526-532	10	16
28	Optimization of pyrolysis conditions for char production from rice husks and its characterization as a precursor for production of activated carbon. <i>Biomass Conversion and Biorefinery</i> , 2020 , 10, 57-72	2.3	15
27	Cellulosic fibre-reinforced green composites. <i>Composite Interfaces</i> , 2007 , 14, 733-751	2.3	14
26	Effect of Clay Nanofillers on the Mechanical and Water Vapor Permeability Properties of Xylan-Alginate Films. <i>Polymers</i> , 2020 , 12,	4.5	14
25	Morphology, thermal and dynamic mechanical properties of poly(lactic acid)/expandable graphite (PLA/EG) flame retardant composites. <i>Journal of Thermoplastic Composite Materials</i> , 2019 , 32, 89-107	1.9	13
24	Flame retardant treated flax fibre reinforced phenolic composites: Ageing and thermal characteristics. <i>Fire and Materials</i> , 2018 , 42, 50-58	1.8	12
23	Fabrication and Characterization of Various Engineered Nanomaterials 2018 , 151-171		12
22	Aging studies on flame retardant treated lignocellulosic fibers. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	12
21	Interaction of n-alkanes with crosslinked cis-1,4-polybutadiene. <i>Journal of Applied Polymer Science</i> , 2001 , 82, 2404-2413	2.9	8
20	Flammability performance of biocomposites 2019 , 43-58		8
19	Effect of expandable graphite on thermal and flammability properties of poly(lactic acid)-starch/poly(ϵ -caprolactone) blend systems. <i>Polymer Engineering and Science</i> , 2018 , 58, 1619-1629	2.3	7
18	Poly(lactic acid)-starch/Expandable Graphite (PLA-starch/EG) Flame Retardant Composites. <i>Journal of Renewable Materials</i> , 2018 , 6, 26-37	2.4	6
17	Biopolymer blends based on polylactic acid and polyhydroxy butyrate-co-valerate: Effect of clay on mechanical and thermal properties. <i>Polymer Composites</i> , 2015 , 36, 2042-2050	3	5
16	Cellulose nanofibrils reinforced xylan-alginate composites: Mechanical, thermal and barrier properties. <i>International Journal of Biological Macromolecules</i> , 2021 , 179, 448-456	7.9	5
15	Bio-Based Fillers for Environmentally Friendly Composites 2017 , 243-270		4
14	Esterified cellulose nanofibres from saw dust using vegetable oil. <i>International Journal of Biological Macromolecules</i> , 2020 , 148, 1109-1117	7.9	4
13	Mechanical properties of cellulose nanofibril papers and their bionanocomposites: A review. <i>Carbohydrate Polymers</i> , 2021 , 273, 118507	10.3	4

12	Agave nonwovens in polypropylene composites [Mechanical and thermal studies. <i>Journal of Composite Materials</i> , 2015 , 49, 669-676	2.7	3
11	Biodegradability of Biobased Polymeric Materials in Natural Environments 2017 , 625-653		3
10	Thermoset Cellulose Nanocomposites: Flammability Characteristics 2017 , 235-272		2
9	Chapter 11: Mechanical, Rheological and Viscoelastic Properties of Polysaccharide and Protein Based Aerogels. <i>RSC Green Chemistry</i> , 2018 , 177-200	0.9	2
8	Lignin fractionation and conversion to bio-based functional products. <i>Sustainable Chemistry and Pharmacy</i> , 2022 , 25, 100594	3.9	1
7	Mechanical Properties and Water Sorption of Chemically Modified Natural Fiber-Based Composites 2021 , 159-167		1
6	Biobased alginate treatments on flax fibre reinforced PLA and PHBV composites. <i>Current Research in Green and Sustainable Chemistry</i> , 2022 , 5, 100319	4.1	1
5	Structure and Properties of Lignin-Based Biopolymers in Polymer Production 2019 , 375-392		0
4	Design and Manufacturing of Bio-Based Sandwich Structures 2017 , 93-110		
3	Rubber Compounding and Processing. <i>Materials and Energy</i> , 2014 , 233-244		
2	Comparison of Interaction of Aromatic Solvents in Hybrid and Textile Biocomposites. <i>Journal of Elastomers and Plastics</i> , 2009 , 41, 523-541	1.6	
1	Cellulose Nanocrystals-Based Composites 2019 , 283-306		