Maya Jacob John

List of Publications by Year in Descending Order

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	Lignin fractionation and conversion to bio-based functional products. *Sustainable Chemistry and Pharmacy*, **2022**, 25, 100594	3.9	1
64	Biobased alginate treatments on flax fibre reinforced PLA and PHBV composites. *Current Research in Green and Sustainable Chemistry*, **2022**, 5, 100319	4.1	1
63	Cellulose nanofibrils reinforced xylan-alginate composites: Mechanical, thermal and barrier properties. *International Journal of Biological Macromolecules*, **2021**, 179, 448-456	7.9	5
62	Mechanical Properties and Water Sorption of Chemically Modified Natural Fiber-Based Composites **2021**, 159-167		1
61	Mechanical properties of cellulose nanofibril papers and their bionanocomposites: A review. *Carbohydrate Polymers*, **2021**, 273, 118507	10.3	4
60	Electrospun Alginate Nanofibers Toward Various Applications: A Review. *Materials*, **2020**, 13,	3.5	37
59	Cellulose nanomaterials: new generation materials for solving global issues. *Cellulose*, **2020**, 27, 1149-1194	3.9	78
58	Effect of Clay Nanofillers on the Mechanical and Water Vapor Permeability Properties of Xylan-Alginate Films. *Polymers*, **2020**, 12,	4.5	14
57	Esterified cellulose nanofibres from saw dust using vegetable oil. *International Journal of Biological Macromolecules*, **2020**, 148, 1109-1117	7.9	4
56	Optimization of pyrolysis conditions for char production from rice husks and its characterization as a precursor for production of activated carbon. *Biomass Conversion and Biorefinery*, **2020**, 10, 57-72	2.3	15
55	Mechanical performance of hybrid woven jute□oselle-reinforced polyester composites. *Polymers and Polymer Composites*, **2019**, 27, 407-418	0.8	17
54	Natural fibre-nanocellulose composite filters for the removal of heavy metal ions from water. *Industrial Crops and Products*, **2019**, 133, 325-332	5.9	29
53	Structure and Properties of Lignin-Based Biopolymers in Polymer Production **2019**, 375-392		0
52	Cellulose Nanocrystals-Based Composites **2019**, 283-306		
51	Flammability performance of□biocomposites **2019**, 43-58		8
50	Morphology, thermal and dynamic mechanical properties of poly(lactic acid)/expandable graphite (PLA/EG) flame retardant composites. *Journal of Thermoplastic Composite Materials*, **2019**, 32, 89-107	1.9	13
49	Flame retardant treated flax fibre reinforced phenolic composites: Ageing and thermal characteristics. *Fire and Materials*, **2018**, 42, 50-58	1.8	12

48	Effect of expandable graphite on thermal and flammability properties of poly(lactic acid)-starch/poly(e-caprolactone) blend systems. *Polymer Engineering and Science*, **2018**, 58, 1619-1629	2.3	7
47	Bio-based products from xylan: A review. *Carbohydrate Polymers*, **2018**, 179, 28-41	10.3	150
46	Fabrication and Characterization of Various Engineered Nanomaterials **2018**, 151-171		12
45	Chapter 11:Mechanical, Rheological and Viscoelastic Properties of Polysaccharide and Protein Based Aerogels. *RSC Green Chemistry*, **2018**, 177-200	0.9	2
44	Thermoplastic Processing of PLA/Cellulose Nanomaterials Composites. *Polymers*, **2018**, 10,	4.5	66
43	Poly(lactic acid)-starch/Expandable Graphite (PLA-starch/EG) Flame Retardant Composites. *Journal of Renewable Materials*, **2018**, 6, 26-37	2.4	6
42	Thermoset Cellulose Nanocomposites: Flammability Characteristics **2017**, 235-272		2
41	Biodegradability of Biobased Polymeric Materials in Natural Environments **2017**, 625-653		3
40	Bio-Based Fillers for Environmentally Friendly Composites **2017**, 243-270		4
39	Design and Manufacturing of Bio-Based Sandwich Structures **2017**, 93-110		
38	Mineralization of Poly(lactic acid) (PLA), Poly(3-hydroxybutyrate-co-valerate) (PHBV) and PLA/PHBV Blend in Compost and Soil Environments. *Journal of Renewable Materials*, **2016**, 4, 133-145	2.4	28
37	Aging studies on flame retardant treated lignocellulosic fibers. *Journal of Applied Polymer Science*, **2016**, 133,	2.9	12
36	Review on hygroscopic aging of cellulose fibres and their biocomposites. *Carbohydrate Polymers*, **2015**, 131, 337-54	10.3	102
35	Agave nonwovens in polypropylene composites Mechanical and thermal studies. *Journal of Composite Materials*, **2015**, 49, 669-676	2.7	3
34	A comparative study on properties of micro and nanopapers produced from cellulose and cellulose nanofibres. *Carbohydrate Polymers*, **2015**, 118, 1-8	10.3	95
33	Biopolymer blends based on polylactic acid and polyhydroxy butyrate-co-valerate: Effect of clay on mechanical and thermal properties. *Polymer Composites*, **2015**, 36, 2042-2050	3	5
32	Review on flammability of biofibres and biocomposites. *Carbohydrate Polymers*, **2014**, 111, 149-82	10.3	131
31	Electrospun chitosan-based nanocomposite mats reinforced with chitin nanocrystals for wound dressing. *Carbohydrate Polymers*, **2014**, 109, 7-15	10.3	178

30	Rubber Compounding and Processing. *Materials and Energy*, **2014**, 233-244		
29	Pultrusion of flax/poly(lactic acid) commingled yarns and nonwoven fabrics. *Journal of Thermoplastic Composite Materials*, **2014**, 27, 1553-1572	1.9	16
28	Melt-spun polylactic acid fibers: Effect of cellulose nanowhiskers on processing and properties. *Journal of Applied Polymer Science*, **2013**, 127, 274-281	2.9	49
27	Environmental friendly method for the extraction of coir fibre and isolation of nanofibre. *Carbohydrate Polymers*, **2013**, 92, 1477-83	10.3	175
26	Physicomechanical properties of nanocomposites based on cellulose nanofibre and natural rubber latex. *Cellulose*, **2013**, 20, 417-427	5.5	110
25	Effect of amphiphilic coupling agent on heat flow and dielectric properties of flax□polypropylene composites. *Composites Part B: Engineering*, **2012**, 43, 526-532	10	16
24	Investigation of surface properties of physico-chemically modified natural fibres using inverse gas chromatography. *Industrial Crops and Products*, **2011**, 33, 108-115	5.9	58
23	Extraction of nanocellulose fibrils from lignocellulosic fibres: A novel approach. *Carbohydrate Polymers*, **2011**, 86, 1468-1475	10.3	461
22	Dynamic Mechanical and Dielectric Behavior of Banana-Glass Hybrid Fiber Reinforced Polyester Composites. *Journal of Reinforced Plastics and Composites*, **2010**, 29, 1131-1145	2.9	61
21	Kenaf□polypropylene composites: Effect of amphiphilic coupling agent on surface properties of fibres and composites. *Carbohydrate Polymers*, **2010**, 82, 549-554	10.3	58
20	Investigation of the degree of homogeneity and hydrogen bonding in PEG/PVP blends prepared in supercritical CO2: Comparison with ethanol-cast blends and physical mixtures. *Journal of Supercritical Fluids*, **2010**, 54, 81-88	4.2	22
19	Comparison of Interaction of Aromatic Solvents in Hybrid and Textile Biocomposites. *Journal of Elastomers and Plastics*, **2009**, 41, 523-541	1.6	
18	Chemical modification of flax reinforced polypropylene composites. *Composites Part A: Applied Science and Manufacturing*, **2009**, 40, 442-448	8.4	139
17	Effect of chemical modification on properties of hybrid fiber biocomposites. *Composites Part A: Applied Science and Manufacturing*, **2008**, 39, 352-363	8.4	190
16	Green Composites from Natural Fibers and Natural Rubber: Effect of Fiber Ratio on Mechanical and Swelling Characteristics. *Journal of Natural Fibers*, **2008**, 5, 47-60	1.8	41
15	Recent developments in chemical modification and characterization of natural fiber-reinforced composites. *Polymer Composites*, **2008**, 29, 187-207	3	742
14	Biofibres and biocomposites. *Carbohydrate Polymers*, **2008**, 71, 343-364	10.3	1564
13	Cellulosic fibre-reinforced green composites. *Composite Interfaces*, **2007**, 14, 733-751	2.3	14

12	Effect of Chemical Modification on the Mechanical and Electrical Properties of Banana Fiber Polyester Composites. *Journal of Composite Materials*, **2007**, 41, 2371-2386	2.7	48
11	A study on the moisture sorption characteristics in woven sisal fabric reinforced natural rubber biocomposites. *Journal of Applied Polymer Science*, **2006**, 102, 416-423	2.9	36
10	The Effect of Silane Coupling Agents on the Viscoelastic Properties of Rubber Biocomposites. *Macromolecular Materials and Engineering*, **2006**, 291, 1119-1126	3.9	47
9	Stress Relaxation and Thermal Analysis of Hybrid Biofiber Reinforced Rubber Biocomposites. *Journal of Reinforced Plastics and Composites*, **2006**, 25, 1903-1917	2.9	19
8	Novel Woven Sisal Fabric Reinforced Natural Rubber Composites: Tensile and Swelling Characteristics. *Journal of Composite Materials*, **2006**, 40, 1471-1485	2.7	26
7	Dynamical mechanical analysis of sisal/oil palm hybrid fiber-reinforced natural rubber composites. *Polymer Composites*, **2006**, 27, 671-680	3	205
6	Water sorption studies of hybrid biofiber-reinforced natural rubber biocomposites. *Biomacromolecules*, **2005**, 6, 2969-79	6.9	80
5	A study of advances in characterization of interfaces and fiber surfaces in lignocellulosic fiber-reinforced composites. *Composite Interfaces*, **2005**, 12, 95-124	2.3	58
4	Mechanical properties of sisal/oil palm hybrid fiber reinforced natural rubber composites. *Composites Science and Technology*, **2004**, 64, 955-965	8.6	486
3	Natural rubber composites reinforced with sisal/oil palm hybrid fibers: Tensile and cure characteristics. *Journal of Applied Polymer Science*, **2004**, 93, 2305-2312	2.9	71
2	Interaction of n-alkanes with crosslinked cis-1,4-polybutadiene. *Journal of Applied Polymer Science*, **2001**, 82, 2404-2413	2.9	8
1	Oil Palm Fibre Reinforced Phenol Formaldehyde Composites: Influence of Fibre Surface Modifications on the Mechanical Performance. *Applied Composite Materials*, **2000**, 7, 295-329	2	306