

# Senthil Muthu Kumar Thiagamani

## List of Publications by Citations

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44  
papers

548  
citations

14  
h-index

23  
g-index

55  
ext. papers

793  
ext. citations

3.6  
avg, IF

4.34  
L-index

#	Paper	IF	Citations
44	A comprehensive review of electrospun nanofibers: Food and packaging perspective. <i>Composites Part B: Engineering</i> , <b>2019</b> , 175, 107074	10	74
43	Investigation into mechanical, absorption and swelling behaviour of hemp/sisal fibre reinforced bioepoxy hybrid composites: Effects of stacking sequences. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 140, 637-646	7.9	53
42	All-cellulose composite films with cellulose matrix and Napier grass cellulose fibril fillers. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 112, 1310-1315	7.9	45
41	Recent advances in thermal properties of hybrid cellulosic fiber reinforced polymer composites. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 141, 1-13	7.9	41
40	Influence of silver nanoparticles on the mechanical, thermal and antimicrobial properties of cellulose-based hybrid nanocomposites. <i>Composites Part B: Engineering</i> , <b>2019</b> , 165, 516-525	10	36
39	Flax and sugar palm reinforced epoxy composites: effect of hybridization on physical, mechanical, morphological and dynamic mechanical properties. <i>Materials Research Express</i> , <b>2019</b> , 6, 105331	1.7	33
38	Utilization of chemically treated municipal solid waste (spent coffee bean powder) as reinforcement in cellulose matrix for packaging applications. <i>Waste Management</i> , <b>2017</b> , 69, 445-454	8.6	30
37	Preparation and Properties of Cellulose/Tamarind Nut Powder Green Composites. <i>Journal of Natural Fibers</i> , <b>2018</b> , 15, 11-20	1.8	27
36	Development and analysis of biodegradable poly(propylene carbonate)/tamarind nut powder composite films. <i>International Journal of Polymer Analysis and Characterization</i> , <b>2017</b> , 22, 415-423	1.7	23
35	Effects of stacking sequences on static, dynamic mechanical and thermal properties of completely biodegradable green epoxy hybrid composites. <i>Materials Research Express</i> , <b>2019</b> , 6, 105351	1.7	18
34	Performance of Sisal/Hemp Bio-based Epoxy Composites Under Accelerated Weathering. <i>Journal of Polymers and the Environment</i> , <b>2021</b> , 29, 624-636	4.5	18
33	Characterization, Thermal and Antimicrobial Properties of Hybrid Cellulose Nanocomposite Films with in-Situ Generated Copper Nanoparticles in Tamarindus indica Nut Powder. <i>Journal of Polymers and the Environment</i> , <b>2021</b> , 29, 1134-1142	4.5	18
32	Effect of fibre loading and Ca(OH) <sub>2</sub> treatment on thermal, mechanical, and physical properties of pineapple leaf fibre/polyester reinforced composites. <i>Materials Research Express</i> , <b>2019</b> , 6, 085545	1.7	17
31	Influence of Fillers on the Thermal and Mechanical Properties of Biocomposites: An Overview <b>2020</b> , 111-133		14
30	Mechanical and thermal properties of spent coffee bean filler/poly(3-hydroxybutyrate-co-3-hydroxyvalerate) biocomposites: Effect of recycling. <i>Chemical Engineering Research and Design</i> , <b>2019</b> , 124, 187-195	5.5	13
29	Influence of Fibre Inter-ply Orientation on the Mechanical and Free Vibration Properties of Banana Fibre Reinforced Polyester Composite Laminates. <i>Journal of Polymers and the Environment</i> , <b>2020</b> , 28, 2789-2800	4.5	12
28	Challenges of Biodegradable Polymers: An Environmental Perspective <b>2019</b> ,		11

27	Biodegradable poly(propylene) carbonate using in-situ generated CuNPs coated Tamarindus indica filler for biomedical applications. <i>Materials Today Communications</i> , <b>2019</b> , 19, 106-113	2.5	11
26	Influence of Musa acuminate bio-filler on the thermal, mechanical and visco-elastic behavior of poly (propylene) carbonate biocomposites. <i>International Journal of Polymer Analysis and Characterization</i> , <b>2019</b> , 24, 439-446	1.7	9
25	Antimicrobial properties of poly(propylene) carbonate/Ag nanoparticle-modified tamarind seed polysaccharide with composite films. <i>Ionics</i> , <b>2019</b> , 25, 3461-3471	2.7	8
24	Dual cantilever creep and recovery behavior of sisal/hemp fibre reinforced hybrid biocomposites: Effects of layering sequence, accelerated weathering and temperature. <i>Journal of Industrial Textiles</i> , <b>2020</b> , 152808372096141	1.6	5
23	Improved mechanical and thermal properties of spent coffee bean particulate reinforced poly(propylene carbonate) composites. <i>Particulate Science and Technology</i> , <b>2019</b> , 37, 643-650	2	5
22	Thermal and structural characterization of acrylonitrile butadiene styrene (ABS) copolymer blended with polytetrafluoroethylene (PTFE) particulate composite. <i>Materials Research Express</i> , <b>2019</b> , 6, 085330	1.7	4
21	Characterization, thermal and dynamic mechanical properties of poly(propylene carbonate) lignocellulosic Cocos nucifera shell particulate biocomposites. <i>Materials Research Express</i> , <b>2019</b> , 6, 096426	1.7	4
20	Influence of Titanium Dioxide Particles on the Filtration of 1,4-Dioxane and Antibacterial Properties of Electrospun Cellulose Acetate and Polyvinylidene Fluoride Nanofibrous Membranes. <i>Journal of Polymers and the Environment</i> , <b>2021</b> , 29, 775-784	4.5	4
19	Emerging Developments on Nanocellulose as Liquid Crystals: A Biomimetic Approach.. <i>Polymers</i> , <b>2022</b> , 14,	4.5	4
18	Mechanical, Interfacial and Thermal Properties of Silica Aerogel-Infused Flax/Epoxy Composites. <i>International Polymer Processing</i> , <b>2021</b> , 36, 53-59	1	3
17	Biomedical Applications of Polymer/Layered Double Hydroxide Bionanocomposites <b>2019</b> , 315-322		2
16	Fracture Toughness of the Natural Fiber-Reinforced Composites: A Review <b>2021</b> , 293-304		2
15	Water Hyacinth for Biocomposites An Overview <b>2020</b> , 171-179		1
14	Effect of adding sisal fiber on the sliding wear behavior of the coconut sheath fiber-reinforced composite <b>2021</b> , 115-125		1
13	Thermal Properties of the Natural Fiber-Reinforced Hybrid Polymer Composites: An Overview <b>2022</b> , 31-51		1
12	Tribological characterization of cellulose fiber-reinforced polymer composites <b>2021</b> , 95-113		0
11	Thermal Characterization of the Natural Fiber-Based Hybrid Composites: An Overview <b>2022</b> , 1-15		0
10	An artificial neural network prediction on physical, mechanical, and thermal characteristics of giant reed fiber reinforced polyethylene terephthalate composite. <i>Journal of Industrial Textiles</i> , 152808372110648	1.6	0

- 9 Chitosan-Based Hybrid Nanocomposites for Food Packaging Applications **2020**, 327-346
- 8 Dynamic Mechanical Behavior of Hybrid Flax/Basalt Fiber Polymer Composites **2021**, 305-312
- 7 Mechanical Behaviors of Natural Fiber-Reinforced Polymer Hybrid Composites **2021**, 1-26
- 6 Influence of Fiber Loading on the Mechanical Properties and Moisture Absorption of the Sisal Fiber-Reinforced Epoxy Composites **2021**, 265-273
- 5 Graphene and Silver Nanoparticle Based Hybrid Nanocomposites for Anti-bacterial Applications. *Composites Science and Technology*, **2021**, 183-196
- 4 Synthesis and characterization of graphene derived from biomass for optical sensing of milk proteins. *Biomass Conversion and Biorefinery*, **1** 2.3
- 3 Effect of CNT Fillers on Thermal Properties of the Bamboo Fiber-Based Hybrid Composites **2022**, 255-272
- 2 Thermal Properties of Sugar Palm Fiber-Based Hybrid Composites **2022**, 53-83
- 1 Thermal Properties of the Banana Fiber-Based Hybrid Composites **2022**, 153-165