

Srikanth Pilla

List of Publications by Year in Descending Order

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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.

96 papers	3,964 citations	33 h-index	62 g-index
104 ext. papers	4,466 ext. citations	6 avg, IF	5.61 L-index

#	Paper	IF	Citations
96	Design and manufacturing of roller bearing polymeric cages and development of a theoretical model for predicting the roller push-out force.. <i>Scientific Reports</i> , 2022 , 12, 1017	4.9	1
95	Effect of silane-treated pine wood fiber (PWF) on thermal and mechanical properties of partially biobased composite foams. <i>Composites Part C: Open Access</i> , 2022 , 8, 100278	1.6	
94	Polydopamine coating improves electromagnetic interference shielding of delignified wood-derived carbon scaffold. <i>Journal of Materials Science</i> , 2021 , 56, 10915-10925	4.3	5
93	Polymer-Derived Nitrogen-Doped Carbon Nanosheet Cluster and Its Application for Water Purification. <i>Macromol</i> , 2021 , 1, 84-93		0
92	Environmental profile of thermoelectrics for applications with continuous waste heat generation via life cycle assessment. <i>Science of the Total Environment</i> , 2021 , 752, 141674	10.2	3
91	Green chemistry design in polymers derived from lignin: review and perspective. <i>Progress in Polymer Science</i> , 2021 , 113, 101344	29.6	26
90	Engineering of Electron Affinity and Interfacial Charge Transfer of Graphene for Self-Powered Nonenzymatic Biosensor Applications. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 40731-40741	9.5	7
89	Grafting PEG on cellulose nanocrystals via polydopamine chemistry and the effects of PEG graft length on the mechanical performance of composite film. <i>Carbohydrate Polymers</i> , 2021 , 271, 118405	10.3	3
88	Porous effects on heat transfer and ions distribution in YSZ using molecular dynamics simulation. <i>Chemical Physics Letters</i> , 2020 , 747, 137339	2.5	1
87	Sorption behavior of real microplastics (MPs): Insights for organic micropollutants adsorption on a large set of well-characterized MPs. <i>Science of the Total Environment</i> , 2020 , 720, 137634	10.2	46
86	Melt Processing of Cellulose Nanocrystal-Filled Composites: Toward Reinforcement and Foam Nucleation. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 8511-8531	3.9	15
85	Integration Concept of Injection, Forming and Foaming: A Practical Approach to Manufacture Hybrid Structures 2020 , 205-218		1
84	Optimization of a mono-composite leaf spring using a hybrid fiber-layup approach. <i>International Journal on Interactive Design and Manufacturing</i> , 2020 , 14, 407-421	1.9	5
83	Analysis of a hybrid process for manufacturing sheet metal-polymer structures using a conceptual tool design and an analytical-numerical modelling. <i>Journal of Materials Processing Technology</i> , 2020 , 279, 116533	5.3	6
82	Comparative Study of Direct Compounding, Coupling Agent-Aided and Initiator-Aided Reactive Extrusion to Prepare Cellulose Nanocrystal/PHBV (CNC/PHBV) Nanocomposite. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 814-822	8.3	16
81	The effects of interface layer in LZ/YSZ coupled system during thermal transportation at elevated temperatures: A molecular dynamics simulation study. <i>Chemical Physics Letters</i> , 2020 , 755, 137788	2.5	0
80	Tailoring the Interfacial Interactions of van der Waals 1T-MoS/C Heterostructures for High-Performance Hydrogen Evolution Reaction Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17923-17927	16.4	53

79	Materials for the biorefinery: high bio-content, shape memory Kraft lignin-derived non-isocyanate polyurethane foams using a non-toxic protocol. <i>Green Chemistry</i> , 2020 , 22, 6922-6935	10	11
78	In Situ Doping-Enabled Metal and Nonmetal Codoping in Graphene Quantum Dots: Synthesis and Application for Contaminant Sensing. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 16565-16576	8.3	9
77	Evaluation of in-mold sensors and machine data towards enhancing product quality and process monitoring via Industry 4.0. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 105, 1374-1389	2.2	23
76	Feasibility Study for Manufacturing CF/Epoxy Thermoplastic Hybrid Structures in a Single Operation. <i>Procedia Manufacturing</i> , 2019 , 33, 232-239	1.5	10
75	Epoxidation Kinetics of High-Linolenic Triglyceride Catalyzed by Solid Acidic-Ion Exchange Resin. <i>Scientific Reports</i> , 2019 , 9, 8987	4.9	7
74	Biobased thermosetting cellular blends: Exploiting the ecological advantage of epoxidized soybean oil in structural foams. <i>Polymer</i> , 2019 , 177, 111-119	3.9	6
73	On the Inter-Laminar Shear Strength of Composites Manufactured via a Stepped-Concurrent UV Curing and Layering Process. <i>Journal of Composite Materials</i> , 2019 , 53, 4149-4159	2.7	2
72	Degree of cure, mechanical properties, and morphology of carbon fiber/epoxy- PP hybrids manufactured by a novel single shot method. <i>Materials Today Communications</i> , 2019 , 19, 441-449	2.5	12
71	Polymer-Derived Ceramics: A Novel Inorganic Thermoelectric Material System 2019 , 229-252		
70	Photopolymerization of Acrylated Epoxidized Soybean Oil: A Photocalorimetry-Based Kinetic Study. <i>ACS Omega</i> , 2019 , 4, 21799-21808	3.9	13
69	PHBV-graft-GMA via reactive extrusion and its use in PHBV/nanocellulose crystal composites. <i>Carbohydrate Polymers</i> , 2019 , 205, 27-34	10.3	30
68	Encapsulation of hydrophilic payload by PU-PMF capsule: Effect of melamine-formaldehyde pre-polymer content, pH and temperature on capsule morphology. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 542, 59-67	5.1	6
67	Encapsulating Hydrophilic Solution by PU-PMF Double-Component Capsule Based on Water-In-Oil-In-Oil Emulsion Template. <i>Macromolecular Chemistry and Physics</i> , 2018 , 219, 1700418	2.6	4
66	Polymer-Derived Silicon Oxycarbide Ceramics as Promising Next-Generation Sustainable Thermoelectrics. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2236-2241	9.5	22
65	Poly(lactic acid)/areca fiber laminate composites processed via film stacking technique. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45795	2.9	5
64	Porosity effects on oxygen ions diffusion in the yttria-stabilized zirconia (YSZ) by molecular dynamics simulation. <i>Journal of Molecular Liquids</i> , 2018 , 265, 31-35	6	3
63	Sustainable Animal Protein-Intermeshed Epoxy Hybrid Polymers: From Conquering Challenges to Engineering Properties. <i>ACS Omega</i> , 2018 , 3, 14361-14370	3.9	2
62	Delayed Addition Foaming of Bio-epoxy Blends: Balancing Performance Requirements and Sustainability. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 17051-17058	8.3	3

61	An Analytical Model for Nonhydrostatic Sheet Metal Bulging Process by Means of Polymer Melt Pressure. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2018 , 140,	3.3	9
60	Green epoxy synthesized from Perilla frutescens: A study on epoxidation and oxirane cleavage kinetics of high-linolenic oil. <i>Industrial Crops and Products</i> , 2018 , 123, 25-34	5.9	22
59	Model-Based Robust Optimal Control for Layer-By-Layer Ultraviolet Processing of Composite Laminates. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2017 , 139,	1.6	4
58	Investigation of Thermal and Thermomechanical Properties of Biodegradable PLA/PBSA Composites Processed via Supercritical Fluid-Assisted Foam Injection Molding. <i>Polymers</i> , 2017 , 9,	4.5	25
57	Design and Development of a Composite A-Pillar to Reduce Obstruction Angle in Passenger Cars. <i>SAE International Journal of Passenger Cars - Mechanical Systems</i> , 2017 , 10, 150-156	0.3	1
56	Investigation of thermal transport behavior in YSZ and LZ/YSZ coupled system between 1273 and 1473 K using molecular dynamics simulation. <i>Journal of Molecular Liquids</i> , 2017 , 244, 464-468	6	3
55	The influence of nanocellulosic fiber, extracted from Helicteres isora, on thermal, wetting and viscoelastic properties of poly(butylene succinate) composites. <i>Cellulose</i> , 2017 , 24, 4313-4323	5.5	25
54	Ascorbic acid tethered polymeric nanoparticles enable efficient brain delivery of galantamine: An in vitro-in vivo study. <i>Scientific Reports</i> , 2017 , 7, 11086	4.9	19
53	The Power of Processing: Creating High Strength Foams from Epoxidized Pine Oil. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 8641-8647	8.3	10
52	Automotive Applications of Plastics: Past, Present, and Future 2017 , 651-673		22
51	Mechanical and moisture sensitivity of fully bio-based dialdehyde carboxymethyl cellulose cross-linked soy protein isolate films. <i>Carbohydrate Polymers</i> , 2017 , 157, 1333-1340	10.3	50
50	IIoT-Enabled Production System for Composite Intensive Vehicle Manufacturing. <i>SAE International Journal of Engines</i> , 2017 , 10, 209-214	2.4	9
49	Understanding the effect of porosity on thermal properties of yttria-stabilized zirconia using molecular dynamics simulation. <i>Journal of Molecular Liquids</i> , 2016 , 222, 88-93	6	2
48	Preparation and Characterization of Poly(butylene succinate) Bionanocomposites Reinforced with Cellulose Nanofiber Extracted from Helicteres isora Plant. <i>Journal of Renewable Materials</i> , 2016 , 4, 351-364	2.4	24
47	Conceptual Development of a Multi-Material Composite Structure for an Urban Utility/Activity Vehicle. <i>SAE International Journal of Passenger Cars - Mechanical Systems</i> , 2016 , 9, 253-270	0.3	0
46	Impacts of Adding Photovoltaic Solar System On-Board to Internal Combustion Engine Vehicles Towards Meeting 2025 Fuel Economy CAFE Standards. <i>SAE International Journal of Alternative Powertrains</i> , 2016 , 5, 237-248	2	8
45	A comprehensive optimized model for on-board solar photovoltaic system for plug-in electric vehicles: energy and economic impacts. <i>International Journal of Energy Research</i> , 2016 , 40, 1489-1508	4.5	22
44	Effects of incremental depth and tool rotation on failure modes and microstructural properties in Single Point Incremental Forming of polymers. <i>Journal of Materials Processing Technology</i> , 2015 , 222, 287-300	5.3	55

43	Multifunctional drug nanocarriers formed by cRGD-conjugated β -CD-PAMAM-PEG for targeted cancer therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 126, 590-597	6	32
42	Periadventitial application of rapamycin-loaded nanoparticles produces sustained inhibition of vascular restenosis. <i>PLoS ONE</i> , 2014 , 9, e89227	3.7	31
41	Octreotide-functionalized and resveratrol-loaded unimolecular micelles for targeted neuroendocrine cancer therapy. <i>Nanoscale</i> , 2013 , 5, 9924-33	7.7	39
40	Melt compounding of poly (3-hydroxybutyrate-co-3-hydroxyvalerate)/nanofibrillated cellulose nanocomposites. <i>Polymer Degradation and Stability</i> , 2013 , 98, 1439-1449	4.7	98
39	Aptamer-conjugated and doxorubicin-loaded unimolecular micelles for targeted therapy of prostate cancer. <i>Biomaterials</i> , 2013 , 34, 5244-53	15.6	174
38	Fabrication and characterization of injection molded poly (ϵ -caprolactone) and poly (ϵ -caprolactone)/hydroxyapatite scaffolds for tissue engineering. <i>Materials Science and Engineering C</i> , 2012 , 32, 1674-81	8.3	35
37	Mechanisms and impact of fiber/matrix compatibilization techniques on the material characterization of PHBV/oak wood flour engineered biobased composites. <i>Composites Science and Technology</i> , 2012 , 72, 708-715	8.6	93
36	Bioplastics and Vegetal Fiber Reinforced Bioplastics for Automotive Applications 2011 , 397-449		13
35	Biobased and Biodegradable PHBV-Based Polymer Blends and Biocomposites: Properties and Applications 2011 , 372-396		3
34	Poly(lactic Acid (PLA) Foams for Packaging Applications 2011 , 161-175		10
33	Long Biofibers and Engineered Pulps for High Performance Bioplastics and Biocomposites 2011 , 555-579		1
32	Processing and characterization of recycled poly(ethylene terephthalate) blends with chain extenders, thermoplastic elastomer, and/or poly(butylene adipate-co-terephthalate). <i>Polymer Engineering and Science</i> , 2011 , 51, 1023-1032	2.3	47
31	Microcellular poly(hydroxybutyrate-co-hydroxyvalerate)-hyperbranched polymer/nanoclay nanocomposites. <i>Polymer Engineering and Science</i> , 2011 , 51, 1815-1826	2.3	14
30	Processing and characterization of solid and microcellular PHBV/PBAT blend and its RWF/nanoclay composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2010 , 41, 982-990	8.4	78
29	Multifunctional polymeric vesicles for targeted drug delivery and imaging. <i>Biofabrication</i> , 2010 , 2, 025004	4.5	16
28	Tumor-targeting, pH-responsive, and stable unimolecular micelles as drug nanocarriers for targeted cancer therapy. <i>Bioconjugate Chemistry</i> , 2010 , 21, 496-504	6.3	183
27	Microcellular processing of polylactide/hyperbranched polyester/nanoclay composites. <i>Journal of Materials Science</i> , 2010 , 45, 2732-2746	4.3	69
26	Microcellular extrusion foaming of poly(lactide)/poly(butylene adipate-co-terephthalate) blends. <i>Materials Science and Engineering C</i> , 2010 , 30, 255-262	8.3	55

25	Processing and characterization of solid and microcellular PHBV/coir fiber composites. <i>Materials Science and Engineering C</i> , 2010 , 30, 749-757	8.3	65
24	Novel chitosan/gold-MPA nanocomposite for sequence-specific oligonucleotide detection. <i>Carbohydrate Polymers</i> , 2010 , 82, 189-194	10.3	29
23	Processing and characterization of microcellular PHBV/PBAT blends. <i>Polymer Engineering and Science</i> , 2010 , 50, 1440-1448	2.3	77
22	Multifunctional nano-micelles formed by amphiphilic gold-polycaprolactone-methoxy poly(ethylene glycol) (Au-PCL-MPEG) nanoparticles for potential drug delivery applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 5701-8	1.3	22
21	Amphiphilic multi-arm block copolymer based on hyperbranched polyester, poly(L-lactide) and poly(ethylene glycol) as a drug delivery carrier. <i>Macromolecular Bioscience</i> , 2009 , 9, 515-24	5.5	83
20	Polylactide-recycled wood fiber composites. <i>Journal of Applied Polymer Science</i> , 2009 , 111, 37-47	2.9	93
19	Biodegradable hydrogels based on novel photopolymerizable guar gum-methacrylate macromonomers for in situ fabrication of tissue engineering scaffolds. <i>Acta Biomaterialia</i> , 2009 , 5, 3441-52	10.8	60
18	Folate-conjugated amphiphilic hyperbranched block copolymers based on Boltorn H40, poly(L-lactide) and poly(ethylene glycol) for tumor-targeted drug delivery. <i>Biomaterials</i> , 2009 , 30, 3009-19	15.6	294
17	Fabrication of biodegradable poly(trimethylene carbonate) networks for potential tissue engineering scaffold applications. <i>Polymers for Advanced Technologies</i> , 2009 , 20, 742-747	3.2	14
16	Microcellular extrusion-foaming of polylactide with chain-extender. <i>Polymer Engineering and Science</i> , 2009 , 49, 1653-1660	2.3	125
15	Modulated molecular recognition by a temperature-sensitive molecularly-imprinted polymer. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 2352-2360	2.5	35
14	Gold nanoparticles with a monolayer of doxorubicin-conjugated amphiphilic block copolymer for tumor-targeted drug delivery. <i>Biomaterials</i> , 2009 , 30, 6065-75	15.6	273
13	Microcellular injection-molding of polylactide with chain-extender. <i>Materials Science and Engineering C</i> , 2009 , 29, 1258-1265	8.3	93
12	Amphiphilic multi-arm-block copolymer conjugated with doxorubicin via pH-sensitive hydrazone bond for tumor-targeted drug delivery. <i>Biomaterials</i> , 2009 , 30, 5757-66	15.6	329
11	Electrical and Dielectric Properties of Hydroxylated Carbon Nanotube/Elastomer Composites. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 17626-17629	3.8	95
10	An amperometric urea biosensor based on covalently immobilized urease on an electrode made of hyperbranched polyester functionalized gold nanoparticles. <i>Talanta</i> , 2009 , 78, 1401-7	6.2	87
9	Biodegradable and biocompatible multi-arm star amphiphilic block copolymer as a carrier for hydrophobic drug delivery. <i>International Journal of Biological Macromolecules</i> , 2009 , 44, 346-52	7.9	86
8	Doxorubicin conjugated gold nanoparticles as water-soluble and pH-responsive anticancer drug nanocarriers. <i>Journal of Materials Chemistry</i> , 2009 , 19, 7879		166

7	Microcellular and Solid Polylactide/Flax Fiber Composites. <i>Composite Interfaces</i> , 2009 , 16, 869-890	2.3	39
6	Tumor-targeting, superparamagnetic polymeric vesicles as highly efficient MRI contrast probes. <i>Journal of Materials Chemistry</i> , 2009 , 19, 5812		39
5	Polybenzoxazine-core shell rubber/carbon nanotube nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2008 , 39, 1653-1659	8.4	61
4	Polylactide-pine wood flour composites. <i>Polymer Engineering and Science</i> , 2008 , 48, 578-587	2.3	136
3	A methodology for strength and reliability analysis of carbon nanotube/nanofibre and conventional composite plates. <i>International Journal of Reliability and Safety</i> , 2007 , 1, 290	0.9	
2	Experimental analysis on the bonding conditions of thermoset-thermoplastic composite parts manufactured by the hybrid single shot method. <i>Journal of Composite Materials</i> , 002199832110507	2.7	1
1	A machine learning approach to quality monitoring of injection molding process using regression models. <i>International Journal of Computer Integrated Manufacturing</i> , 1-14	4.3	1