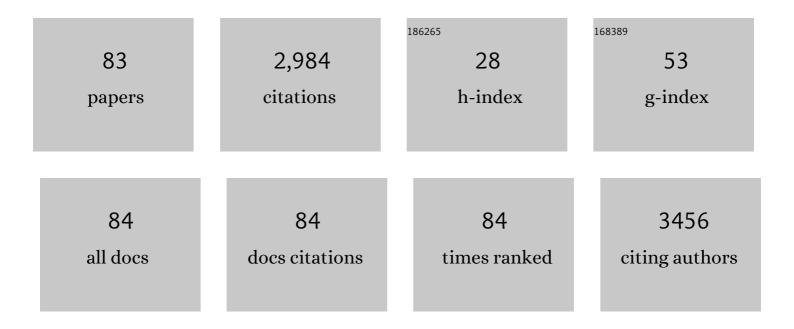
## Kalappa Prashantha

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Masterbatch-based multi-walled carbon nanotube filled polypropylene nanocomposites: Assessment of rheological and mechanical properties. Composites Science and Technology, 2009, 69, 1756-1763.	7.8	341
2	Multi-walled carbon nanotube filled polypropylene nanocomposites based on masterbatch route: Improvement of dispersion and mechanical properties through PP-g-MA addition. EXPRESS Polymer Letters, 2008, 2, 735-745.	2.1	185
3	Processing and characterization of halloysite nanotubes filled polypropylene nanocomposites based on a masterbatch route: effect of halloysites treatment on structural and mechanical properties. EXPRESS Polymer Letters, 2011, 5, 295-307.	2.1	179
4	Corrosion studies of carbon nanotubes–Zn composite coating. Surface and Coatings Technology, 2007, 201, 5836-5842.	4.8	155
5	A review on present status and future challenges of starch based polymer films and their composites in food packaging applications. Polymer Composites, 2018, 39, 2499-2522.	4.6	141
6	Multifunctional properties of 3D printed poly(lactic acid)/graphene nanocomposites by fused deposition modeling. Journal of Macromolecular Science - Pure and Applied Chemistry, 2017, 54, 24-29.	2.2	133
7	Highly Loaded Graphite–Polylactic Acid Composite-Based Filaments for Lithium-Ion Battery Three-Dimensional Printing. Chemistry of Materials, 2018, 30, 7484-7493.	6.7	129
8	Mechanical behaviour and essential work of fracture of halloysite nanotubes filled polyamide 6 nanocomposites. Composites Science and Technology, 2011, 71, 1859-1866.	7.8	117
9	Three-Dimensional Printing of a LiFePO4/Graphite Battery Cell via Fused Deposition Modeling. Scientific Reports, 2019, 9, 18031.	3.3	98
10	Studies on the effect of storage time and plasticizers on the structural variations in thermoplastic starch. Carbohydrate Polymers, 2015, 115, 364-372.	10.2	93
11	Preparation and properties of novel melt-blended halloysite nanotubes/wheat starch nanocomposites. Carbohydrate Polymers, 2012, 89, 920-927.	10.2	84
12	Effects of oxidative conditions on properties of multi-walled carbon nanotubes in polymer nanocomposites. Composites Science and Technology, 2007, 67, 1027-1034.	7.8	60
13	Proton conducting membranes based on sulfonated poly(ether ether ketone)/TiO2 nanocomposites for a direct methanol fuel cell. Polymer International, 2007, 56, 371-375.	3.1	60
14	Interpenetrating polymer networks based on polyol modified castor oil polyurethane and poly(2-hydroxyethylmethacrylate): Synthesis, chemical, mechanical and thermal properties. Bulletin of Materials Science, 2001, 24, 535-538.	1.7	56
15	Highly dispersed polyamideâ€11/halloysite nanocomposites: Thermal, rheological, optical, dielectric, and mechanical properties. Journal of Applied Polymer Science, 2013, 130, 313-321.	2.6	54
16	Plasticized-starch/poly(ethylene oxide) blends prepared by extrusion. Carbohydrate Polymers, 2013, 91, 253-261.	10.2	53
17	Poly(lactic acid)/halloysite nanotubes nanocomposites: Structure, thermal, and mechanical properties as a function of halloysite treatment. Journal of Applied Polymer Science, 2013, 128, 1895-1903.	2.6	47
18	Development of waterâ€blown bioâ€based thermoplastic polyurethane foams using bioâ€derived chain extender. Journal of Applied Polymer Science, 2013, 128, 292-303.	2.6	47

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19	A review on research and development of green composites from plant protein-based polymers. Polymer Composites, 2017, 38, 1504-1518.	4.6	47
20	Toughening of poly(lactic acid) without sacrificing stiffness and strength by melt-blending with polyamide 11 and selective localization of halloysite nanotubes. EXPRESS Polymer Letters, 2015, 9, 721-735.	2.1	44
21	Functionalization of halloysite nanotube with chitosan reinforced poly (vinyl alcohol) nanocomposites for potential biomedical applications. International Journal of Biological Macromolecules, 2020, 165, 1079-1092.	7.5	39
22	Taguchi analysis of shrinkage and warpage of injection-moulded polypropylene/multiwall carbon nanotubes nanocomposites. EXPRESS Polymer Letters, 2009, 3, 630-638.	2.1	36
23	Nanosized TiO2-filled sulfonated polyethersulfone proton conducting membranes for direct methanol fuel cells. Journal of Applied Polymer Science, 2005, 98, 1875-1878.	2.6	34
24	Preparation and characterization of plasticized starch/halloysite porous nanocomposites possibly suitable for biomedical applications. Journal of Applied Polymer Science, 2015, 132, .	2.6	34
25	Study on the morphological and biocompatible properties of chitosan grafted silk fibre reinforced PVA films for tissue engineering applications. International Journal of Biological Macromolecules, 2018, 116, 45-53.	7.5	34
26	Melt-blended halloysite nanotubes/wheat starch nanocomposites as drug delivery system. Polymer Engineering and Science, 2015, 55, 573-580.	3.1	32
27	Modified halloysite nanotubes with Chitosan incorporated PVA/PVP bionanocomposite films: Thermal, mechanical properties and biocompatibility for tissue engineering. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 634, 127941.	4.7	32
28	Present Status and Key Challenges of Carbon Nanotubes Reinforced Polyolefins: A Review on Nanocomposites Manufacturing and Performance Issues. Polymers and Polymer Composites, 2009, 17, 205-245.	1.9	30
29	Corrosion Behavior of Zn-TiO2 Composite Coating. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2007, 37, 461-465.	0.6	29
30	Effect of silk fiber on the structural, thermal, and mechanical properties of PVA/PVP composite films. Polymer Engineering and Science, 2018, 58, 1923-1930.	3.1	29
31	Investigations on influence of nano and micron sized particles of SiC on performance properties of PEEK coatings. Surface and Coatings Technology, 2018, 334, 124-133.	4.8	28
32	Development of bio-based thermoplastic polyurethanes formulations using corn-derived chain extender for reactive rotational molding. EXPRESS Polymer Letters, 2013, 7, 852-862.	2.1	27
33	Effects of reinforcement of sodium alginate functionalized halloysite clay nanotubes on thermo-mechanical properties and biocompatibility of poly (vinyl alcohol) nanocomposites. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 118, 104441.	3.1	27
34	Effect of Polyaniline Functionalized Carbon Nanotubes Addition on the Positive Temperature Coefficient Behavior of Carbon Black/High-Density Polyethylene Nanocomposites. IEEE Nanotechnology Magazine, 2008, 7, 223-228.	2.0	26
35	Thermo-mechanical modeling of semi-crystalline thermoplastic shape memory polymer under large strain. Smart Materials and Structures, 2017, 26, 055009.	3.5	25
36	Electrical and Dielectric Properties of Multi-Walled Carbon Nanotube Filled Polypropylene Nanocomposites. Polymers and Polymer Composites, 2010, 18, 489-494.	1.9	21

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37	Poly (caprolactone)/sodium-alginate-functionalized halloysite clay nanotube nanocomposites: Potent biocompatible materials for wound healing applications. International Journal of Pharmaceutics, 2021, 607, 121048.	5.2	21
38	Overview on Lithium-Ion Battery 3D-Printing By Means of Material Extrusion. ECS Transactions, 2020, 98, 3-21.	0.5	21
39	Thermal degradation of epoxy resin reinforced with polypropylene fibers. Journal of Applied Polymer Science, 2007, 104, 500-503.	2.6	19
40	Chitosan functionalized halloysite nanotube/poly (caprolactone) nanocomposites for wound healing application. Applied Surface Science Advances, 2021, 6, 100158.	6.8	19
41	Processing and Characterization of Polypropylene Filled with Multiwalled Carbon Nanotube and Clay Hybrid Nanocomposites. International Journal of Polymer Analysis and Characterization, 2014, 19, 363-371.	1.9	18
42	Scalable Production of Multifunctional Bioâ€Based Polyamide 11/Graphene Nanocomposites by Melt Extrusion Processes Via Masterbatch Approach. Advances in Polymer Technology, 2018, 37, 1067-1075.	1.7	18
43	Thermomechanical modeling of halloysite nanotube-filled shape memory polymer nanocomposites. Mechanics of Advanced Materials and Structures, 2019, 26, 1209-1217.	2.6	17
44	Bioâ€based thermoplastic polyurethane and polyamide 11 bioalloys with excellent shape memory behavior. Journal of Applied Polymer Science, 2017, 134, .	2.6	16
45	Surface-treated short sisal fibers and halloysite nanotubes for synergistically enhanced performance of polypropylene hybrid composites. Journal of Thermoplastic Composite Materials, 2022, 35, 2089-2104.	4.2	15
46	Spectral characterization of apatite formation on poly(2-hydroxyethylmethacrylate)–TiO2 nanocomposite film prepared by sol–gel process. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2006, 65, 340-344.	3.9	13
47	Star-shaped sucrose-capped CaO nanoparticles from <i>Azadirachta indica</i> : A novel green synthesis. Inorganic and Nano-Metal Chemistry, 2017, 47, 708-712.	1.6	12
48	Preparation and characterization of carbon nanotube filled poly (2-hydroxyethylmethacrylate) nanocomposites. High Performance Polymers, 2013, 25, 97-103.	1.8	11
49	High temperature performance of composite adhesives based on PEEK and boron carbide particles. Polymer Composites, 2019, 40, 2473-2481.	4.6	10
50	Enhanced (thermo)mechanical properties in biobased poly( <scp>l</scp> â€ <scp>lactide</scp> )/poly(amideâ€12) blends using high shear extrusion processing without compatibilizers. Polymer Engineering and Science, 2020, 60, 1902-1916.	3.1	10
51	Parallel finite volume method-based fluid flow computations using OpenMP and CUDA applying different schemes. Journal of Thermal Analysis and Calorimetry, 2021, 145, 1891-1909.	3.6	10
52	Mechanical, thermal and flame-retardant properties of epoxy–nylon fabric–clay hybrid laminates. High Performance Polymers, 2013, 25, 559-565.	1.8	9
53	Study of partial shape memory effect of polymers by multicycle tests. Polymer Composites, 2015, 36, 1145-1151.	4.6	9
54	Role of Compatibilizer in Improving the Properties of PLA/PA12 Blends. Frontiers in Materials, 2020, 7, .	2.4	9

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55	Thermal resistance and mechanical stability of tungsten oxide filled polymer composite radiation shields. International Journal of Polymer Analysis and Characterization, 2020, 25, 431-443.	1.9	9
56	Toughening of poly(lactic acid) without sacrificing stiffness and strength by melt-blending with polyamide 11 and selective localization of halloysite nanotubes. AIP Conference Proceedings, 2016, , .	0.4	8
57	Recent advances in aggregation-induced emission of mechanochromic luminescent organic materials. Emergent Materials, 2021, 4, 673-724.	5.7	8
58	Compatibility in biobased poly(Lâ€lactide)/polyamide binary blends: From meltâ€state interfacial tensions to (thermo)mechanical properties. Journal of Applied Polymer Science, 2020, 137, 48440.	2.6	7
59	Electrochemical synthesis of poly[2-hydroxyethylmethacrylate] hydrogel: Kinetics and mechanism. Journal of Applied Polymer Science, 2002, 84, 983-992.	2.6	6
60	Studies on thermal behavior, moisture absorption, and biodegradability of ginger spent incorporated polyurethane green composites. Journal of Applied Polymer Science, 2015, 132, .	2.6	6
61	Synergistic effect of clay and polypropylene short fibers in epoxy based ternary composite hybrids. Advances in Materials Research (South Korea), 2015, 4, 97-111.	0.6	6
62	Studies on the Miscibility of Poly(2â€hydroxyethyl methacrylate) and Poly(ethylene oxide) Blends. Journal of Macromolecular Science - Pure and Applied Chemistry, 2008, 45, 238-241.	2.2	5
63	Vibrational energy-harvesting performance of bio-sourced flexible polyamide 11/layered silicate nanocomposite films. International Journal of Polymer Analysis and Characterization, 2017, 22, 72-82.	1.9	5
64	Simultaneous plasticization and blending of isolate soy protein with poly[(butylene) Tj ETQq0 0 0 rgBT /Overlock 46442.	2 10 Tf 50 2.6	387 Td (succ 5
65	Synergistic Enhancement on the Conductivity of Polyaniline via Copolymerization and Carbon Nanotubes. Journal of Macromolecular Science - Pure and Applied Chemistry, 2006, 43, 1477-1484.	2.2	4
66	Rheology and mechanical properties enhancement of polymerization-filled polyethylene-based composites prepared with kaolin-supported metallocene catalyst. Composite Interfaces, 2007, 14, 153-164.	2.3	4
67	Positive Temperature Coefficient Characteristics of Multi-walled Carbon Nanotube Filled Polyvinylidene Fluoride Nanocomposites. Journal of Macromolecular Science - Pure and Applied Chemistry, 2011, 48, 737-741.	2.2	4
68	Processing and Mechanical Behaviour of Halloysite Filled Starch Based Nanocomposites. Advanced Materials Research, 0, 584, 445-449.	0.3	4
69	Qualifying Dispersion and Distribution of Carbon Nanotubes in Polyamide Matrix during Melt-Mixing by Flow Simulation. Polymers and Polymer Composites, 2015, 23, 305-316.	1.9	4
70	Overview on Lithium-Ion Battery 3D-Printing By Means of Material Extrusion. ECS Meeting Abstracts, 2020, MA2020-02, 3690-3690.	0.0	4
71	Polyurethane and its composites derived from bio-sources: Synthesis, characterization and adsorption studies. Polymers and Polymer Composites, 2022, 30, 096739112211103.	1.9	4
72	STUDIES ON THE MISCIBILITY OF POLY(2-HYDROXYETHYLMETHACRYLATE) AND HYDRODY PROPYL METHYL CELLULOSE BLENDS. International Journal of Polymeric Materials and Polymeric Biomaterials, 2004, 53, 499-506.	3.4	3

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73	Studies on flocculation of clay suspension by polyacrylamide. E-Polymers, 2004, 4, .	3.0	2
74	Sharkskin Mechanism of LDPE and the Dispersion of Inorganic Fillers in Flow. Journal of Macromolecular Science - Physics, 2006, 45, 777-788.	1.0	2
75	Preparation and Characterization of Poly(2-Hydroxyethyl Methacrylate) and Castor Oil Based Uralkyds Interpenetrating Polymer Networks. Polymers and Polymer Composites, 2015, 23, 223-228.	1.9	2
76	Development of Water Blown Bio-Based Thermoplastic Polyurethane Foams. Advanced Materials Research, 0, 584, 361-365.	0.3	1
77	Effect of Organo Modified Clays Reinforcement on Thermal Expansion and Degradation Kinetics in Unsaturated Polyester Composites. Asian Journal of Chemistry, 2013, 25, 5431-5436.	0.3	1
78	Investigation of unsaturated polyester based polymer composite radiation shields. AIP Conference Proceedings, 2020, , .	0.4	1
79	Highly Loaded Graphite Composite PLA-Based Filaments for Lithium-Ion Battery 3D-Printing. ECS Meeting Abstracts, 2018, , .	0.0	1
80	Effect of Functionalized Copolymer on Titanium Dioxide Pigment Dispersion. Journal of Dispersion Science and Technology, 2006, 27, 511-516.	2.4	0
81	Preparation Methods and Properties of Polypropylene/Layered Silicate Nanocomposites. , 2006, , 359-418.		0
82	Rotational molding of thermoplastic polyurethane. , 2020, , .		0

83 Effect of chain extender on structural and mechanical properties of poly(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 342