

# Nandika DSouza

## List of Publications by Year in descending order

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51  
papers

1,115  
citations

471509

17  
h-index

414414

32  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1506  
citing authors

#	ARTICLE	IF	CITATIONS
1	Maleated and non-maleated polyethylene/montmorillonite layered silicate blown films: creep, dispersion and crystallinity. <i>Polymer</i> , 2005, 46, 7323-7333.	3.8	120
2	Exfoliated and intercalated polyamide-imide nanocomposites with montmorillonite. <i>Polymer</i> , 2002, 43, 3759-3766.	3.8	109
3	The effect of Zn, Al layered double hydroxide on thermal decomposition of poly(vinyl chloride). <i>Polymer Degradation and Stability</i> , 2006, 91, 3237-3244.	5.8	69
4	Poly(L-lactic acid) nanocomposites with layered double hydroxides functionalized with ibuprofen. <i>Journal of Applied Polymer Science</i> , 2009, 113, 1905-1915.	2.6	56
5	Superior plant based carbon fibers from electrospun poly-(caffeyl alcohol) lignin. <i>Carbon</i> , 2016, 103, 372-383.	10.3	56
6	Crystallization, mechanical, and rheological behavior of polyvinylidene fluoride/carbon nanofiber composites. <i>Journal of Applied Polymer Science</i> , 2009, 112, 254-260.	2.6	54
7	Poly[(3-hydroxybutyrate)-co-(3-hydroxyvalerate)]/layered double hydroxide nanocomposites. <i>Polymer International</i> , 2009, 58, 133-141.	3.1	53
8	Mechanical and electrical multifunctional poly(3-hydroxybutyrate-co-3-hydroxyvalerate)/multiwall carbon nanotube nanocomposites. <i>Polymer Engineering and Science</i> , 2012, 52, 1367-1374.	3.1	53
9	Polymer nanocomposites for improved drug delivery efficiency. <i>Materials Chemistry and Physics</i> , 2012, 132, 409-415.	4.0	47
10	Water soluble levan polysaccharide biopolymer electrospun fibers. <i>Carbohydrate Polymers</i> , 2009, 78, 794-798.	10.2	41
11	Electrosynthesis of nanocrystalline cerium oxide/layered silicate powders. <i>Journal of Materials Chemistry</i> , 2006, 16, 481-488.	6.7	35
12	Modification of cement mortar with recycled ABS. <i>Cement and Concrete Research</i> , 2001, 31, 1003-1007.	11.0	30
13	Time dependent piezoresistive behavior of polyvinylidene fluoride/carbon nanotube conductive composite. <i>Materials Letters</i> , 2009, 63, 1771-1773.	2.6	29
14	Compostable, fully biobased foams using PLA and micro cellulose for zero energy buildings. <i>Scientific Reports</i> , 2020, 10, 17771.	3.3	24
15	Benefits of low kenaf loading in biobased composites of poly(L-lactide) and kenaf fiber. <i>Journal of Applied Polymer Science</i> , 2009, 112, 1294-1301.	2.6	22
16	Dynamic mechanical analysis, surface chemistry and morphology of alkali and enzymatic retted kenaf fibers. <i>Textile Reseach Journal</i> , 2015, 85, 2059-2070.	2.2	21
17	Effects of chemical versus enzymatic processing of kenaf fibers on poly(hydroxybutyrate-co-valerate)/poly(butylene adipate-co-terephthalate) composite properties. <i>Composites Part B: Engineering</i> , 2014, 56, 926-933.	12.0	19
18	Electrospun Fe <sub>3</sub> O <sub>4</sub> -PVDF Nanofiber Composite Mats for Cryogenic Magnetic Sensor Applications. <i>Textiles</i> , 2021, 1, 227-238.	4.1	18

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19	Surfactant concentration effects on amorphous PETG-montmorillonite layered silicate (MLS) nanocomposite films. <i>Polymer International</i> , 2005, 54, 875-881.	3.1	14
20	Resistiveâ€“conductive transitions in the time-dependent piezoresponse of PVDF-MWCNT nanocomposites. <i>Polymer Journal</i> , 2010, 42, 567-574.	2.7	14
21	Influence of Bath Composition at Acidic pH on Electrodeposition of Nickel-Layered Silicate Nanocomposites for Corrosion Protection. <i>International Journal of Electrochemistry</i> , 2013, 2013, 1-8.	2.4	14
22	Osteoconductive bio-based meshes based on Poly(hydroxybutyrate-co-hydroxyvalerate) and poly(butylene adipate-co-terephthalate) blends. <i>Materials Science and Engineering C</i> , 2014, 38, 315-324.	7.3	14
23	Salt water corrosion resistance of electrodeposited Ni-layered silicate nanocomposite coatings from Watts' type solution. <i>Surface and Coatings Technology</i> , 2014, 242, 170-176.	4.8	13
24	Metal Matrix Composite Coatings of Cupronickel Embedded with Nanoplatelets for Improved Corrosion Resistant Properties. <i>International Journal of Corrosion</i> , 2018, 2018, 1-11.	1.1	13
25	Rigid polyurethane and kenaf core composite foams. <i>Polymer Engineering and Science</i> , 2015, 55, 132-144.	3.1	12
26	Thermal expansivity and thermal conductivity of amorphous thermoplastic polyimide and polymer liquid crystal blends. <i>Polymer Engineering and Science</i> , 2000, 40, 490-498.	3.1	10
27	Cowoven polypropylene/glass composites with polypropylene + polymer liquid crystal interlayers: Dynamic mechanical and thermal analysis. <i>Polymer Composites</i> , 1998, 19, 107-115.	4.6	9
28	Mechanical properties of glass fiber composites with an epoxy resin modified by a liquid crystalline epoxy. <i>Polymer Composites</i> , 2002, 23, 564-573.	4.6	9
29	Multi-Fold Enhancement in Compressive Properties of Polystyrene Foam Using Pre-delaminated Stearate Functionalized Layer Double Hydroxides. <i>Polymers</i> , 2020, 12, 8.	4.5	9
30	Embedded Corrosion Sensing with ZnO-PVDF Sensor Textiles. <i>Sensors</i> , 2020, 20, 3053.	3.8	9
31	Nonisothermal thermophysical evaluation of a polypropylene + ethylene propylene diene (EPDM) blend. <i>Polymer Engineering and Science</i> , 1996, 36, 1101-1106.	3.1	8
32	Ethylene maleated amorphous propylene compatibilized polyethylene nanocomposites: Stress and temperature effects on nonlinear creep. <i>Polymer Engineering and Science</i> , 2010, 50, 1633-1645.	3.1	8
33	Semicrystalline thermoplastic polyimide + polymer liquid crystal blends: Nonisothermal calorimetry and thermogravimetry. <i>Polymer Engineering and Science</i> , 1998, 38, 204-212.	3.1	7
34	Maleated amorphous ethylene propylene compatibilized polyethylene nanocomposites: Room temperature nonlinear creep response. <i>Polymer Engineering and Science</i> , 2010, 50, 1620-1632.	3.1	6
35	Layer double hydroxides for enhanced poly(3â€“hydroxybutyrateâ€“co- <i>i&gt;</i> â€“3â€“hydroxyvalerate) crystallization. <i>Journal of Applied Polymer Science</i> , 2013, 127, 3395-3406.	2.6	6
36	Effect of kenaf fiber age on PLLA composite properties. <i>Polymer Composites</i> , 2014, 35, 915-924.	4.6	6

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37	Reliability of High-Voltage Molding Compounds: Particle Size, Curing Time, Sample Thickness, and Voltage Impact on Polarization. IEEE Transactions on Industrial Electronics, 2016, 63, 7104-7111.	7.9	5
38	Separating stress and time dependent effects in the temperature dependent creep of polyethylene nanocomposites. Polymer Engineering and Science, 2010, 50, 1646-1657.	3.1	4
39	Circuits, Systems, and Technologies for Detecting the Onset of Sudden Cardiac Death Through EKG Analysis. IEEE Circuits and Systems Magazine, 2013, 13, 10-25.	2.3	4
40	Bioinspired cellular sheath-core electrospun non-woven mesh. Emergent Materials, 2019, 2, 127-140.	5.7	4
41	Low-Cost Reliable Corrosion Sensors Using ZnO-PVDF Nanocomposite Textiles. Sensors, 2021, 21, 4147.	3.8	4
42	Preface. International forum on polymersâ€™1995: Part II. Polymer Engineering and Science, 1996, 36, 1029-1031.	3.1	3
43	Thermally Stimulated Depolarization Current. International Journal of Polymeric Materials and Polymeric Biomaterials, 2000, 45, 277-306.	3.4	3
44	Effects of glass fibers and polypropylene/glass fiber hybrid fibers on the kinetics and mechanical properties of epoxy composites. Polymer Composites, 2001, 22, 32-41.	4.6	3
45	Experimental and computational investigation of PVDFâ€™s $\text{BaTiO}_3$ interface for impact sensing and energy harvesting applications. SN Applied Sciences, 2020, 2, 1.	2.9	3
46	Carbon Capture Utilization for Biopolymer Foam Manufacture: Thermal, Mechanical and Acoustic Performance of PCL/PHBV CO <sub>2</sub> Foams. Polymers, 2021, 13, 2559.	4.5	3
47	Treatment with Coated Layer Double Hydroxide Clays Decreases the Toxicity of Copper-Contaminated Water. Archives of Environmental Contamination and Toxicology, 2014, 66, 549-556.	4.1	2
48	Effect of supercritical CO <sub>2</sub> on salt water corrosion and wear resistance of bismaleimide coating filled with organophilic montmorillonite clay. Journal of Adhesion Science and Technology, 2021, 35, 2301-2318.	2.6	2
49	Preface. International forum on polymers: Status report 1996. Polymer Engineering and Science, 1997, 37, 925-927.	3.1	1
50	Thermally stimulated depolarization currents in poly (ethyleneterephthalate-ran-p-hydroxybenzoates). Polymer Engineering and Science, 2001, 41, 962-970.	3.1	1
51	Evaluation of Potential Printed Wiring Board Materials: Thermoplastic Polyimide + Polymer Liquid Crystal Blends. Materials Research Society Symposia Proceedings, 1998, 515, 125.	0.1	0