

# Nanda Gopal Sahoo

## List of Publications by Citations

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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.

110 papers	6,997 citations	35 h-index	83 g-index
120 ext. papers	7,795 ext. citations	5.1 avg, IF	5.89 L-index

#	Paper	IF	Citations
110	Polymer nanocomposites based on functionalized carbon nanotubes. <i>Progress in Polymer Science</i> , <b>2010</b> , 35, 837-867	29.6	1330
109	Chitosan-functionalized graphene oxide as a nanocarrier for drug and gene delivery. <i>Small</i> , <b>2011</b> , 7, 1569-1578	17.8	694
108	Water-Soluble Poly(N-isopropylacrylamide)/Graphene Sheets Synthesized via Click Chemistry for Drug Delivery. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 2754-2763	15.6	383
107	Functionalization of carbon nanomaterials for advanced polymer nanocomposites: A comparison study between CNT and graphene. <i>Progress in Polymer Science</i> , <b>2017</b> , 67, 1-47	29.6	380
106	Graphene-based materials for energy conversion. <i>Advanced Materials</i> , <b>2012</b> , 24, 4203-10	24	265
105	Functionalized carbon nanomaterials as nanocarriers for loading and delivery of a poorly water-soluble anticancer drug: a comparative study. <i>Chemical Communications</i> , <b>2011</b> , 47, 5235-7	5.8	250
104	Poly(vinyl alcohol) nanocomposites filled with poly(vinyl alcohol)-grafted graphene oxide. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 2387-94	9.5	213
103	Influence of carbon nanotubes and polypyrrole on the thermal, mechanical and electroactive shape-memory properties of polyurethane nanocomposites. <i>Composites Science and Technology</i> , <b>2007</b> , 67, 1920-1929	8.6	176
102	Polypyrrole coated carbon nanotubes: Synthesis, characterization, and enhanced electrical properties. <i>Synthetic Metals</i> , <b>2007</b> , 157, 374-379	3.6	176
101	Improved synthesis of graphene flakes from the multiple electrochemical exfoliation of graphite rod. <i>Nano Energy</i> , <b>2013</b> , 2, 377-386	17.1	174
100	Effect of carbon nanotubes on mechanical and electrical properties of polyimide/carbon nanotubes nanocomposites. <i>European Polymer Journal</i> , <b>2007</b> , 43, 3750-3756	5.2	160
99	The application of graphene oxide in drug delivery. <i>Expert Opinion on Drug Delivery</i> , <b>2012</b> , 9, 1365-76	8	153
98	Effect of Functionalized Carbon Nanotubes on Molecular Interaction and Properties of Polyurethane Composites. <i>Macromolecular Chemistry and Physics</i> , <b>2006</b> , 207, 1773-1780	2.6	150
97	Polymeric Nanocomposites of Polyurethane Block Copolymers and Functionalized Multi-Walled Carbon Nanotubes as Crosslinkers. <i>Macromolecular Rapid Communications</i> , <b>2006</b> , 27, 126-131	4.8	121
96	A green approach to the synthesis of high-quality graphene oxide flakes via electrochemical exfoliation of pencil core. <i>RSC Advances</i> , <b>2013</b> , 3, 11745	3.7	119
95	Functionalized graphene oxide as nanocarrier for loading and delivery of ellagic Acid. <i>Current Medicinal Chemistry</i> , <b>2011</b> , 18, 4503-12	4.3	104
94	Preparation of nanoparticles of poorly water-soluble antioxidant curcumin by antisolvent precipitation methods. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 1	2.3	98

93	Preparation and characterization of quercetin nanocrystals. <i>Journal of Pharmaceutical Sciences</i> , <b>2011</b> , 100, 2379-90	3.9	95
92	Conducting Shape Memory Polyurethane-Polypyrrole Composites for an Electroactive Actuator. <i>Macromolecular Materials and Engineering</i> , <b>2005</b> , 290, 1049-1055	3.9	93
91	Fabrication of quercetin nanocrystals: comparison of different methods. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2012</b> , 80, 113-21	5.7	92
90	Improvement of mechanical and thermal properties of carbon nanotube composites through nanotube functionalization and processing methods. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 117, 313-320	4.4	92
89	Electroactive Shape Memory Effect of Polyurethane Composites Filled with Carbon Nanotubes and Conducting Polymer. <i>Materials and Manufacturing Processes</i> , <b>2007</b> , 22, 419-423	4.1	87
88	Polyurethane-Carbon Nanotube Nanocomposites Prepared by In-Situ Polymerization with Electroactive Shape Memory. <i>Journal of Macromolecular Science - Physics</i> , <b>2006</b> , 45, 441-451	1.4	87
87	Specific Functionalization of Carbon Nanotubes for Advanced Polymer Nanocomposites. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 3962-3971	15.6	83
86	Fabrication of drug nanoparticles by evaporative precipitation of nanosuspension. <i>International Journal of Pharmaceutics</i> , <b>2010</b> , 383, 285-92	6.5	78
85	Dissolution enhancement of quercetin through nanofabrication, complexation, and solid dispersion. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2011</b> , 88, 121-30	6	76
84	Nanocomposites for bone tissue regeneration. <i>Nanomedicine</i> , <b>2013</b> , 8, 639-53	5.6	68
83	Tuning graphene surface chemistry to prepare graphene/polypyrrole supercapacitors with improved performance. <i>Nano Energy</i> , <b>2012</b> , 1, 723-731	17.1	67
82	Fabrication of quercetin nanoparticles by anti-solvent precipitation method for enhanced dissolution. <i>Powder Technology</i> , <b>2012</b> , 223, 59-64	5.2	66
81	Functionalized graphene oxide as a nanocarrier for dual drug delivery applications: The synergistic effect of quercetin and gefitinib against ovarian cancer cells. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 178, 452-459	6	65
80	Nitrogen doped graphene nanosheet supported platinum nanoparticles as high performance electrochemical homocysteine biosensors. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 4655-4666	7.3	50
79	Complementary effects of multiwalled carbon nanotubes and conductive carbon black on polyamide 6. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2010</b> , 48, 1203-1212	2.6	49
78	Current Advances in the Carbon Nanotube/Thermotropic Main-Chain Liquid Crystalline Polymer Nanocomposites and Their Blends. <i>Polymers</i> , <b>2012</b> , 4, 889-912	4.5	46
77	Functionalized graphene oxides for drug loading, release and delivery of poorly water soluble anticancer drug: A comparative study. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2018</b> , 169, 265-272	6	38
76	Bulk synthesis of graphene nanosheets from plastic waste: An invincible method of solid waste management for better tomorrow. <i>Waste Management</i> , <b>2019</b> , 88, 48-55	8.6	37

75	Improvement in properties of multiwalled carbon nanotube/polypropylene nanocomposites through homogeneous dispersion with the aid of surfactants. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 124, 1117-1127	2.9	35
74	Long-term stability of quercetin nanocrystals prepared by different methods. <i>Journal of Pharmacy and Pharmacology</i> , <b>2012</b> , 64, 1394-402	4.8	28
73	Carbon Nanotube-Based Materials for Fuel Cell Applications. <i>Australian Journal of Chemistry</i> , <b>2012</b> , 65, 1213	1.2	28
72	Covalent functionalization of carbon nanotubes for ultimate interfacial adhesion to liquid crystalline polymer. <i>Soft Matter</i> , <b>2011</b> , 7, 9505	3.6	27
71	Thermal kinetics of montmorillonite nanoclay/maleic anhydride-modified polypropylene nanocomposites. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2012</b> , 109, 17-25	4.1	25
70	Synthesis of Polyurethane Nanocomposites of Functionalized Carbon Nanotubes by in-situ Polymerization Methods. <i>Journal of the Korean Physical Society</i> , <b>2007</b> , 51, 1	0.6	25
69	Functionalized graphene oxide as a vehicle for targeted drug delivery and bioimaging applications. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 8116-8148	7.3	25
68	Dissolution enhancement of artemisinin with $\beta$ -cyclodextrin. <i>Chemical and Pharmaceutical Bulletin</i> , <b>2011</b> , 59, 646-52	1.9	24
67	Solubility enhancement of a poorly water-soluble anti-malarial drug: experimental design and use of a modified multifluid nozzle pilot spray drier. <i>Journal of Pharmaceutical Sciences</i> , <b>2009</b> , 98, 281-96	3.9	24
66	Dissolution of artemisinin/polymer composite nanoparticles fabricated by evaporative precipitation of nanosuspension. <i>Journal of Pharmacy and Pharmacology</i> , <b>2010</b> , 62, 413-21	4.8	23
65	Graphene nanosheets derived from plastic waste for the application of DSSCs and supercapacitors. <i>Scientific Reports</i> , <b>2021</b> , 11, 3916	4.9	23
64	Particle size reduction of poorly water soluble artemisinin via antisolvent precipitation with a syringe pump. <i>Powder Technology</i> , <b>2013</b> , 237, 468-476	5.2	20
63	Micro/Nanoparticle Design and Fabrication for Pharmaceutical Drug Preparation and Delivery Applications. <i>Current Drug Therapy</i> , <b>2008</b> , 3, 78-97	0.7	20
62	Nanofiller as vulcanizing aid for styrene-butadiene elastomer. <i>Macromolecular Research</i> , <b>2002</b> , 10, 369-372	1.9	20
61	Polymer nanocomposite hydrogels exhibiting both dynamic restructuring and unusual adhesive properties. <i>Langmuir</i> , <b>2013</b> , 29, 7087-95	4	19
60	Dissolution enhancement of a poorly water-soluble antimalarial drug by means of a modified multi-fluid nozzle pilot spray drier. <i>Materials Science and Engineering C</i> , <b>2011</b> , 31, 391-399	8.3	17
59	Fabrication of composite microparticles of artemisinin for dissolution enhancement. <i>Powder Technology</i> , <b>2010</b> , 203, 277-287	5.2	17
58	Schottky diodes from 2D germanane. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 023507	3.4	17

57	Disulfide exchange assisted self-healing epoxy/PDMS/graphene oxide nanocomposites. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 2726-2730	5.1	16
56	A simple, eco-friendly and green approach to synthesis of blue photoluminescent potassium-doped graphene oxide from agriculture waste for bio-imaging applications. <i>Materials Science and Engineering C</i> , <b>2019</b> , 104, 109970	8.3	16
55	Effect of carbon nanotubes and processing methods on the properties of carbon nanotube/polypropylene composites. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 5910-9	1.3	16
54	The role of functionalized carbon nanotubes in a PA6/LCP blend. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 5242-51	1.3	15
53	Binder-free reduced graphene oxide as electrode material for efficient supercapacitor with aqueous and polymer electrolytes. <i>High Performance Polymers</i> , <b>2020</b> , 32, 175-182	1.6	14
52	Effect of Ag <sup>+</sup> , Fe <sup>3+</sup> , Cu <sup>2+</sup> tri-metal loading in bismuth oxybromide to develop a novel nanocomposite for the sunlight driven photocatalytic oxidation of alcohols. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 3923-3932	5.5	14
51	Molecular interaction and properties of poly(ether ether ketone)/liquid crystalline polymer blends incorporated with functionalized carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2011</b> , 11, 10408-16	1.3	14
50	Electrical, thermal, and dielectric studies of ionic liquid-based polymer electrolyte for photoelectrochemical device. <i>High Performance Polymers</i> , <b>2018</b> , 30, 1002-1008	1.6	13
49	Recent Trends of Polymer-Protein Conjugate Application in Biocatalysis: A Review. <i>Polymer Reviews</i> , <b>2015</b> , 55, 163-198	14	13
48	Nitrophenyl functionalization of carbon nanotubes and its effect on properties of MWCNT/LCP composites. <i>Macromolecular Research</i> , <b>2011</b> , 19, 660-667	1.9	12
47	Self-reinforcing elastomer composites based on ethylene-propylene-diene monomer rubber and liquid-crystalline polymer. <i>Journal of Applied Polymer Science</i> , <b>2004</b> , 93, 711-718	2.9	12
46	Solid waste-derived carbon nanomaterials for supercapacitor applications: a recent overview. <i>Materials Advances</i> , <b>2021</b> , 2, 1454-1484	3.3	12
45	Strengthening of liquid crystalline polymer by functionalized carbon nanotubes through interfacial interaction and homogeneous dispersion. <i>Polymers for Advanced Technologies</i> , <b>2011</b> , 22, 1452-1458	3.2	11
44	Structural characterization of PBT/LCP blends. <i>Materials Letters</i> , <b>2002</b> , 56, 194-199	3.3	11
43	Ionic liquid (1-hexyl-3-methylimidazolium iodide)-incorporated biopolymer electrolyte for efficient supercapacitor. <i>High Performance Polymers</i> , <b>2020</b> , 32, 220-225	1.6	10
42	Ternary dispersions to enhance solubility of poorly water soluble antioxidants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2013</b> , 433, 111-121	5.1	10
41	Effect of graphene oxide on the mechanical and thermal properties of graphene oxide/hytrel nanocomposites. <i>Journal of Thermoplastic Composite Materials</i> , <b>2021</b> , 34, 55-67	1.9	10
40	Modified supercritical antisolvent method with enhanced mass transfer to fabricate drug nanoparticles. <i>Materials Science and Engineering C</i> , <b>2013</b> , 33, 2864-70	8.3	8

39	Improvement of properties of polyetherimide/liquid crystalline polymer blends in the presence of functionalized carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 1928-34	1.3	8
38	Mass production of metal-doped graphene from the agriculture waste of leaves for supercapacitors: inclusive DFT study.. <i>RSC Advances</i> , <b>2021</b> , 11, 10891-10901	3.7	8
37	Fabrication of $\beta$ -cyclodextrin-mediated single bimolecular inclusion complex: characterization, molecular docking, in-vitro release and bioavailability studies for gefitinib and simvastatin conjugate. <i>Journal of Pharmacy and Pharmacology</i> , <b>2017</b> , 69, 1304-1317	4.8	7
36	Graphene oxide supported Pd-Fe nanohybrid as an efficient electrocatalyst for proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 18704-18715	6.7	7
35	Artemisinin-Polyvinylpyrrolidone Composites Prepared by Evaporative Precipitation of Nanosuspension for Dissolution Enhancement. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2011</b> , 22, 363-78	3.5	6
34	Structure -properties relations of polypropylene/ liquid crystalline polymer blends. <i>Macromolecular Research</i> , <b>2003</b> , 11, 224-230	1.9	6
33	Single Step Blending of PEDOT:PSS/SPGO Nanocomposite via Low Temperature Solid Phase Addition of Graphene Oxide for Effective Hole Transport Layer in Organic Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2020</b> , 20, 3888-3895	1.3	6
32	Waste plastics derived graphene nanosheets for supercapacitor application. <i>Materials and Manufacturing Processes</i> , <b>2021</b> , 36, 171-177	4.1	6
31	Non-approximated series resistance evaluation by considering high ideality factor in organic solar cell. <i>AIP Advances</i> , <b>2018</b> , 8, 125121	1.5	6
30	Preparation, characterization and dissolution behavior of artemisinin microparticles. <i>Advanced Powder Technology</i> , <b>2011</b> , 22, 458-463	4.6	5
29	Highly conducting polymer electrolyte-ionic liquid and porous carbon material for sandwich electric double layer capacitor. <i>High Performance Polymers</i> , <b>2021</b> , 33, 469-475	1.6	5
28	Dispersion and stability study of carbon nanotubes in pH and temperature responsive polymeric matrix: Experiment and dispersion-corrected DFT study. <i>Materials Today Communications</i> , <b>2018</b> , 17, 187-193	2.5	5
27	Nanofiller as crosslinker for halogen-containing elastomers. <i>Macromolecular Research</i> , <b>2003</b> , 11, 506-510	1.9	4
26	Effect of ethylene/propylene ratio on reinforcing characteristics of liquid crystalline polymer (LCP) in EPDM-LCP composites. <i>Plastics, Rubber and Composites</i> , <b>2002</b> , 31, 443-448	1.5	4
25	3D graphene nanosheets from plastic waste for highly efficient HTM free perovskite solar cells. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 4726-4738	5.1	4
24	Waste plastic derived graphene sheets as nanofillers to enhance mechanical strength of concrete mixture: An inventive approach to deal with universal plastic waste. <i>Cleaner Engineering and Technology</i> , <b>2021</b> , 5, 100275	2.7	4
23	Development and Characterization of Biocompatible Fullerene [C60]/Amphiphilic Block Copolymer Nanocomposite. <i>Journal of Spectroscopy</i> , <b>2015</b> , 2015, 1-8	1.5	3
22	Molecular Interactions in PA6, LCP and their Blend Incorporated with Functionalized Carbon Nanotubes. <i>Key Engineering Materials</i> , <b>2010</b> , 447-448, 634-638	0.4	3



21	Polymer grafted magnetic graphene oxide as a potential nanocarrier for pH-responsive delivery of sparingly soluble quercetin against breast cancer cells.. <i>RSC Advances</i> , <b>2022</b> , 12, 2574-2588	3.7	3
20	Graphene nanosheets derived from waste plastic for cost-effective thermoelectric applications. <i>Results in Materials</i> , <b>2022</b> , 13, 100260	2.3	3
19	The room temperature synthesis of a CuO-Bi-BiOBr ternary Z-scheme photocatalyst for enhanced sunlight driven alcohol oxidation. <i>Dalton Transactions</i> , <b>2021</b> , 50, 5001-5010	4.3	3
18	An experimental modeling of trinomial bioengineering- crp, rDNA, and transporter engineering within single cell factory for maximizing two-phase bioreduction. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 95, 818-825	7.9	2
17	Genome mining, in silico validation and phase selection of a novel aldo-keto reductase from <i>Candida glabrata</i> for biotransformation. <i>Bioengineered</i> , <b>2018</b> , 9, 186-195	5.7	2
16	Fundamentals of Polymers and Polymer Composite <b>2015</b> , 3-42		2
15	Blends of low-density polyethylene and liquid crystalline polymer. <i>Polymer Composites</i> , <b>2003</b> , 24, 716-723		2
14	A waste to energy approach for the effective conversion of solid waste plastics into graphene nanosheets using different catalysts for high performance supercapacitors: a comparative study. <i>Materials Advances</i> ,	3.3	2
13	Green and cost-effective synthesis of 2D and 3D Graphene-based nanomaterials from <i>Drepanostachyum falcatum</i> for Bio-imaging and Water purification applications. <i>Chemical Engineering Journal Advances</i> , <b>2022</b> , 10, 100265	3.6	2
12	Targeting mangiferin loaded N-succinyl chitosan-alginate grafted nanoparticles against atherosclerosis - A case study against diabetes mediated hyperlipidemia in rat. <i>Food Chemistry</i> , <b>2022</b> , 370, 131376	8.5	2
11	Metal doped graphene oxide derived from <i>Quercus ilex</i> fruits for selective and visual detection of iron(III) in water: Experiment and theory. <i>Sustainable Chemistry and Pharmacy</i> , <b>2021</b> , 21, 100436	3.9	2
10	Elaborative Studies on Non-Porous Carbon Material for Super Capacitor Application. <i>Macromolecular Symposia</i> , <b>2019</b> , 388, 1900035	0.8	2
9	Theranostics Application of Graphene-Based Materials in Cancer Imaging, Targeting and Treatment <b>2020</b> ,		1
8	A Novel, Quick Column Switching RP-HPLC Guided Metabolite Profiling of Albendazole-Praziquantel in Rat Plasma: Designing New Combination Dosage Regimen with Higher Therapeutic Window. <i>Current Analytical Chemistry</i> , <b>2018</b> , 14, 604-614	1.7	1
7	An innovative approach for the fabrication of highly conductive nanocomposites with different carbon <b>2010</b> , 9-13		1
6	Mechanistic insights into carbo-catalyzed persulfate treatment for simultaneous degradation of cationic and anionic dye in multicomponent mixture using plastic waste-derived carbon.. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 435, 128956	12.8	1
5	Functionalized graphene oxide based nanocarrier for enhanced cytotoxicity of <i>Juniperus squamata</i> root essential oil against breast cancer cells. <i>Journal of Drug Delivery Science and Technology</i> , <b>2022</b> , 103370	4.5	1
4	Spray dryer processed graphene oxide/reduced graphene oxide for high-performance supercapacitor. <i>International Journal of Applied Ceramic Technology</i> , <b>2020</b> , 17, 1899-1908	2	0

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|---|--|-----|---|
| 3 | Fundamentals of Polymers and Polymer Composite <b>2013</b> , 1-33  |     | o |
| 2 | Recycling of Plastics into Advance Carbon Nanomaterials and Their Application in Energy Storage System. <i>Composites Science and Technology</i> , <b>2021</b> , 259-281   |     | o |
| 1 | Pd-Fe <sub>2</sub> O <sub>3</sub> decorated nitrogen-doped reduced graphene oxide/CNT nanohybrids electrocatalyst for proton exchange membrane fuel cell. <i>Diamond and Related Materials</i> , <b>2022</b> , 126, 109115 | 3.5 | o |