Nanda Gopal Sahoo

List of Publications by Year in Descending Order

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 grafted magnetic graphene oxide as a potential nanocarrier for pH-responsive delivery of sparingly soluble quercetin against breast cancer cells.. *RSC Advances*, **2022**, 12, 2574-2588	3.7	3
109	Green and cost-effective synthesis of 2D and 3D Graphene-based nanomaterials from Drepanostachyum falcatum for Bio-imaging and Water purification applications. *Chemical Engineering Journal Advances*, **2022**, 10, 100265	3.6	2
108	Graphene nanosheets derived from waste plastic for cost-effective thermoelectric applications. *Results in Materials*, **2022**, 13, 100260	2.3	3
107	Targeting mangiferin loaded N-succinyl chitosan-alginate grafted nanoparticles against atherosclerosis - A case study against diabetes mediated hyperlipidemia in rat. *Food Chemistry*, **2022**, 370, 131376	8.5	2
106	Mechanistic insights into carbo-catalyzed persulfate treatment for simultaneous degradation of cationic and anionic dye in multicomponent mixture using plastic waste-derived carbon.. *Journal of Hazardous Materials*, **2022**, 435, 128956	12.8	1
105	Functionalized graphene oxide based nanocarrier for enhanced cytotoxicity of Juniperus squamata root essential oil against breast cancer cells. *Journal of Drug Delivery Science and Technology*, **2022**, 103370	4.5	1
104	Pd-Fe2O3 decorated nitrogen-doped reduced graphene oxide/CNT nanohybridas electrocatalyst for proton exchange membrane fuel cell. *Diamond and Related Materials*, **2022**, 126, 109115	3.5	0
103	Metal doped graphene oxide derived from Quercus ilex fruits for selective and visual detection of iron(III) in water: Experiment and theory. *Sustainable Chemistry and Pharmacy*, **2021**, 21, 100436	3.9	2
102	Effect of graphene oxide on the mechanical and thermal properties of graphene oxide/hytrel nanocomposites. *Journal of Thermoplastic Composite Materials*, **2021**, 34, 55-67	1.9	10
101	Highly conducting polymer electrolyte-ionic liquid and porous carbon material for sandwich electric double layer capacitor. *High Performance Polymers*, **2021**, 33, 469-475	1.6	5
100	Waste plastics derived graphene nanosheets for supercapacitor application. *Materials and Manufacturing Processes*, **2021**, 36, 171-177	4.1	6
99	Solid waste-derived carbon nanomaterials for supercapacitor applications: a recent overview. *Materials Advances*, **2021**, 2, 1454-1484	3.3	12
98	Mass production of metal-doped graphene from the agriculture waste of leaves for supercapacitors: inclusive DFT study.. *RSC Advances*, **2021**, 11, 10891-10901	3.7	8
97	3D graphene nanosheets from plastic waste for highly efficient HTM free perovskite solar cells. *Nanoscale Advances*, **2021**, 3, 4726-4738	5.1	4
96	The room temperature synthesis of a CuO-Bi-BiOBr ternary Z-scheme photocatalyst for enhanced sunlight driven alcohol oxidation. *Dalton Transactions*, **2021**, 50, 5001-5010	4.3	3
95	Graphene nanosheets derived from plastic waste for the application of DSSCs and supercapacitors. *Scientific Reports*, **2021**, 11, 3916	4.9	23
94	Waste plastic derived graphene sheets as nanofillers to enhance mechanical strength of concrete mixture: An inventive approach to deal with universal plastic waste. *Cleaner Engineering and Technology*, **2021**, 5, 100275	2.7	4

93	Recycling of Plastics into Advance Carbon Nanomaterials and Their Application in Energy Storage System. *Composites Science and Technology*, **2021**, 259-281		0
92	Theranostics Application of Graphene-Based Materials in Cancer Imaging, Targeting and Treatment **2020**,		1
91	Binder-free reduced graphene oxide as electrode material for efficient supercapacitor with aqueous and polymer electrolytes. *High Performance Polymers*, **2020**, 32, 175-182	1.6	14
90	Ionic liquid (1-hexyl-3-methylimidazolium iodide)-incorporated biopolymer electrolyte for efficient supercapacitor. *High Performance Polymers*, **2020**, 32, 220-225	1.6	10
89	Disulfide exchange assisted self-healing epoxy/PDMS/graphene oxide nanocomposites. *Nanoscale Advances*, **2020**, 2, 2726-2730	5.1	16
88	Spray dryer processed graphene oxide/reduced graphene oxide for high-performance supercapacitor. *International Journal of Applied Ceramic Technology*, **2020**, 17, 1899-1908	2	0
87	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. *Journal of Nanoscience and Nanotechnology*, **2020**, 20, 3888-3895	1.3	6
86	Graphene oxide supported Pd-Fe nanohybrid as an efficient electrocatalyst for proton exchange membrane fuel cells. *International Journal of Hydrogen Energy*, **2020**, 45, 18704-18715	6.7	7
85	Functionalized graphene oxide as a vehicle for targeted drug delivery and bioimaging applications. *Journal of Materials Chemistry B*, **2020**, 8, 8116-8148	7.3	25
84	Functionalized graphene oxide as a nanocarrier for dual drug delivery applications: The synergistic effect of quercetin and gefitinib against ovarian cancer cells. *Colloids and Surfaces B: Biointerfaces*, **2019**, 178, 452-459	6	65
83	Bulk synthesis of graphene nanosheets from plastic waste: An invincible method of solid waste management for better tomorrow. *Waste Management*, **2019**, 88, 48-55	8.6	37
82	A simple, eco-friendly and green approach to synthesis of blue photoluminescent potassium-doped graphene oxide from agriculture waste for bio-imaging applications. *Materials Science and Engineering C*, **2019**, 104, 109970	8.3	16
81	Effect of Ag, Fe, Cu tri-metal loading in bismuth oxybromide to develop a novel nanocomposite for the sunlight driven photocatalytic oxidation of alcohols. *Catalysis Science and Technology*, **2019**, 9, 3923-3932	5.5	14
80	Elaborative Studies on Non-Porous Carbon Material for Super Capacitor Application. *Macromolecular Symposia*, **2019**, 388, 1900035	0.8	2
79	Genome mining, in silico validation and phase selection of a novel aldo-keto reductase from Candida glabrata for biotransformation. *Bioengineered*, **2018**, 9, 186-195	5.7	2
78	Electrical, thermal, and dielectric studies of ionic liquid-based polymer electrolyte for photoelectrochemical device. *High Performance Polymers*, **2018**, 30, 1002-1008	1.6	13
77	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. *Current Analytical Chemistry*, **2018**, 14, 604-614	1.7	1
76	Non-approximated series resistance evaluation by considering high ideality factor in organic solar cell. *AIP Advances*, **2018**, 8, 125121	1.5	6

75	Dispersion and stability study of carbon nanotubes in pH and temperature responsive polymeric matrix: Experiment and dispersion-corrected DFT study. *Materials Today Communications*, **2018**, 17, 187-193	2.5	5
74	Functionalized graphene oxides for drug loading, release and delivery of poorly water soluble anticancer drug: A comparative study. *Colloids and Surfaces B: Biointerfaces*, **2018**, 169, 265-272	6	38
73	An experimental modeling of trinomial bioengineering- crp, rDNA, and transporter engineering within single cell factory for maximizing two-phase bioreduction. *International Journal of Biological Macromolecules*, **2017**, 95, 818-825	7.9	2
72	Functionalization of carbon nanomaterials for advanced polymer nanocomposites: A comparison study between CNT and graphene. *Progress in Polymer Science*, **2017**, 67, 1-47	29.6	380
71	Fabrication of Ecyclodextrin-mediated single bimolecular inclusion complex: characterization, molecular docking, in-vitro release and bioavailability studies for gefitinib and simvastatin conjugate. *Journal of Pharmacy and Pharmacology*, **2017**, 69, 1304-1317	4.8	7
70	Schottky diodes from 2D germanane. *Applied Physics Letters*, **2016**, 109, 023507	3.4	17
69	Development and Characterization of Biocompatible Fullerene [C60]/Amphiphilic Block Copolymer Nanocomposite. *Journal of Spectroscopy*, **2015**, 2015, 1-8	1.5	3
68	Recent Trends of Polymer-Protein Conjugate Application in Biocatalysis: A Review. *Polymer Reviews* , **2015**, 55, 163-198	14	13
67	Fundamentals of Polymers and Polymer Composite **2015**, 3-42		2
66	Nitrogen doped graphene nanosheet supported platinum nanoparticles as high performance electrochemical homocysteine biosensors. *Journal of Materials Chemistry B*, **2013**, 1, 4655-4666	7.3	50
65	Particle size reduction of poorly water soluble artemisinin via antisolvent precipitation with a syringe pump. *Powder Technology*, **2013**, 237, 468-476	5.2	20
64	Modified supercritical antisolvent method with enhanced mass transfer to fabricate drug nanoparticles. *Materials Science and Engineering C*, **2013**, 33, 2864-70	8.3	8
63	Improved synthesis of graphene flakes from the multiple electrochemical exfoliation of graphite rod. *Nano Energy*, **2013**, 2, 377-386	17.1	174
62	Nanocomposites for bone tissue regeneration. *Nanomedicine*, **2013**, 8, 639-53	5.6	68
61	A green approach to the synthesis of high-quality graphene oxide flakes via electrochemical exfoliation of pencil core. *RSC Advances*, **2013**, 3, 11745	3.7	119
60	Polymer nanocomposite hydrogels exhibiting both dynamic restructuring and unusual adhesive properties. *Langmuir*, **2013**, 29, 7087-95	4	19
59	Ternary dispersions to enhance solubility of poorly water soluble antioxidants. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2013**, 433, 111-121	5.1	10
58	Fundamentals of Polymers and Polymer Composite **2013**, 1-33		0

57	Fabrication of quercetin nanoparticles by anti-solvent precipitation method for enhanced dissolution. *Powder Technology*, **2012**, 223, 59-64	5.2	66
56	Improvement in properties of multiwalled carbon nanotube/polypropylene nanocomposites through homogeneous dispersion with the aid of surfactants. *Journal of Applied Polymer Science*, **2012**, 124, 1117-1127	2.9	35
55	Preparation of nanoparticles of poorly water-soluble antioxidant curcumin by antisolvent precipitation methods. *Journal of Nanoparticle Research*, **2012**, 14, 1	2.3	98
54	Long-term stability of quercetin nanocrystals prepared by different methods. *Journal of Pharmacy and Pharmacology*, **2012**, 64, 1394-402	4.8	28
53	Tuning graphene surface chemistry to prepare graphene/polypyrrole supercapacitors with improved performance. *Nano Energy*, **2012**, 1, 723-731	17.1	67
52	Fabrication of quercetin nanocrystals: comparison of different methods. *European Journal of Pharmaceutics and Biopharmaceutics*, **2012**, 80, 113-21	5.7	92
51	Carbon Nanotube-Based Materials for Fuel Cell Applications. *Australian Journal of Chemistry*, **2012**, 65, 1213	1.2	28
50	The application of graphene oxide in drug delivery. *Expert Opinion on Drug Delivery*, **2012**, 9, 1365-76	8	153
49	Poly(vinyl alcohol) nanocomposites filled with poly(vinyl alcohol)-grafted graphene oxide. *ACS Applied Materials & Interfaces*, **2012**, 4, 2387-94	9.5	213
48	Graphene-based materials for energy conversion. *Advanced Materials*, **2012**, 24, 4203-10	24	265
47	Thermal kinetics of montmorillonite nanoclay/maleic anhydride-modified polypropylene nanocomposites. *Journal of Thermal Analysis and Calorimetry*, **2012**, 109, 17-25	4.1	25
46	Current Advances in the Carbon Nanotube/Thermotropic Main-Chain Liquid Crystalline Polymer Nanocomposites and Their Blends. *Polymers*, **2012**, 4, 889-912	4.5	46
45	Functionalized carbon nanomaterials as nanocarriers for loading and delivery of a poorly water-soluble anticancer drug: a comparative study. *Chemical Communications*, **2011**, 47, 5235-7	5.8	250
44	Dissolution enhancement of artemisinin with β-cyclodextrin. *Chemical and Pharmaceutical Bulletin*, **2011**, 59, 646-52	1.9	24
43	Dissolution enhancement of quercetin through nanofabrication, complexation, and solid dispersion. *Colloids and Surfaces B: Biointerfaces*, **2011**, 88, 121-30	6	76
42	Nitrophenyl functionalization of carbon nanotubes and its effect on properties of MWCNT/LCP composites. *Macromolecular Research*, **2011**, 19, 660-667	1.9	12
41	Strengthening of liquid crystalline polymer by functionalized carbon nanotubes through interfacial interaction and homogeneous dispersion. *Polymers for Advanced Technologies*, **2011**, 22, 1452-1458	3.2	11
40	Chitosan-functionalized graphene oxide as a nanocarrier for drug and gene delivery. *Small*, **2011**, 7, 1569-78	8	694

39	Preparation and characterization of quercetin nanocrystals. *Journal of Pharmaceutical Sciences*, **2011**, 100, 2379-90	3.9	95
38	Water-Soluble Poly(N-isopropylacrylamide)–Graphene Sheets Synthesized via Click Chemistry for Drug Delivery. *Advanced Functional Materials*, **2011**, 21, 2754-2763	15.6	383
37	Covalent functionalization of carbon nanotubes for ultimate interfacial adhesion to liquid crystalline polymer. *Soft Matter*, **2011**, 7, 9505	3.6	27
36	Artemisinin-Polyvinylpyrrolidone Composites Prepared by Evaporative Precipitation of Nanosuspension for Dissolution Enhancement. *Journal of Biomaterials Science, Polymer Edition*, **2011**, 22, 363-78	3.5	6
35	Dissolution enhancement of a poorly water-soluble antimalarial drug by means of a modified multi-fluid nozzle pilot spray drier. *Materials Science and Engineering C*, **2011**, 31, 391-399	8.3	17
34	Preparation, characterization and dissolution behavior of artemisinin microparticles. *Advanced Powder Technology*, **2011**, 22, 458-463	4.6	5
33	Functionalized graphene oxide as nanocarrier for loading and delivery of ellagic Acid. *Current Medicinal Chemistry*, **2011**, 18, 4503-12	4.3	104
32	Molecular interaction and properties of poly(ether ether ketone)/liquid crystalline polymer blends incorporated with functionalized carbon nanotubes. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 10408-16	1.3	14
31	Molecular Interactions in PA6, LCP and their Blend Incorporated with Functionalized Carbon Nanotubes. *Key Engineering Materials*, **2010**, 447-448, 634-638	0.4	3
30	The role of functionalized carbon nanotubes in a PA6/LCP blend. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 5242-51	1.3	15
29	Dissolution of artemisinin/polymer composite nanoparticles fabricated by evaporative precipitation of nanosuspension. *Journal of Pharmacy and Pharmacology*, **2010**, 62, 413-21	4.8	23
28	Polymer nanocomposites based on functionalized carbon nanotubes. *Progress in Polymer Science*, **2010**, 35, 837-867	29.6	1330
27	Fabrication of composite microparticles of artemisinin for dissolution enhancement. *Powder Technology*, **2010**, 203, 277-287	5.2	17
26	Fabrication of drug nanoparticles by evaporative precipitation of nanosuspension. *International Journal of Pharmaceutics*, **2010**, 383, 285-92	6.5	78
25	Complementary effects of multiwalled carbon nanotubes and conductive carbon black on polyamide 6. *Journal of Polymer Science, Part B: Polymer Physics*, **2010**, 48, 1203-1212	2.6	49
24	An innovative approach for the fabrication of highly conductive nanocomposites with different carbon **2010**, 9-13		1
23	Improvement of mechanical and thermal properties of carbon nanotube composites through nanotube functionalization and processing methods. *Materials Chemistry and Physics*, **2009**, 117, 313-320	4.4	92
22	Specific Functionalization of Carbon Nanotubes for Advanced Polymer Nanocomposites. *Advanced Functional Materials*, **2009**, 19, 3962-3971	15.6	83

21	Solubility enhancement of a poorly water-soluble anti-malarial drug: experimental design and use of a modified multifluid nozzle pilot spray drier. *Journal of Pharmaceutical Sciences*, **2009**, 98, 281-96	3.9	24
20	Improvement of properties of polyetherimide/liquid crystalline polymer blends in the presence of functionalized carbon nanotubes. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 1928-34	1.3	8
19	Effect of carbon nanotubes and processing methods on the properties of carbon nanotube/polypropylene composites. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 5910-9	1.3	16
18	Micro/Nanoparticle Design and Fabrication for Pharmaceutical Drug Preparation and Delivery Applications. *Current Drug Therapy*, **2008**, 3, 78-97	0.7	20
17	Electroactive Shape Memory Effect of Polyurethane Composites Filled with Carbon Nanotubes and Conducting Polymer. *Materials and Manufacturing Processes*, **2007**, 22, 419-423	4.1	87
16	Influence of carbon nanotubes and polypyrrole on the thermal, mechanical and electroactive shape-memory properties of polyurethane nanocomposites. *Composites Science and Technology*, **2007**, 67, 1920-1929	8.6	176
15	Effect of carbon nanotubes on mechanical and electrical properties of polyimide/carbon nanotubes nanocomposites. *European Polymer Journal*, **2007**, 43, 3750-3756	5.2	160
14	Polypyrrole coated carbon nanotubes: Synthesis, characterization, and enhanced electrical properties. *Synthetic Metals*, **2007**, 157, 374-379	3.6	176
13	Synthesis of Polyurethane Nanocomposites of Functionalized Carbon Nanotubes by in-situ Polymerization Methods. *Journal of the Korean Physical Society*, **2007**, 51, 1	0.6	25
12	Effect of Functionalized Carbon Nanotubes on Molecular Interaction and Properties of Polyurethane Composites. *Macromolecular Chemistry and Physics*, **2006**, 207, 1773-1780	2.6	150
11	Polymeric Nanocomposites of Polyurethane Block Copolymers and Functionalized Multi-Walled Carbon Nanotubes as Crosslinkers. *Macromolecular Rapid Communications*, **2006**, 27, 126-131	4.8	121
10	Polyurethane-Carbon Nanotube Nanocomposites Prepared by In-Situ Polymerization with Electroactive Shape Memory. *Journal of Macromolecular Science - Physics*, **2006**, 45, 441-451	1.4	87
9	Conducting Shape Memory Polyurethane-Polypyrrole Composites for an Electroactive Actuator. *Macromolecular Materials and Engineering*, **2005**, 290, 1049-1055	3.9	93
8	Self-reinforcing elastomer composites based on ethylene□propylene□diene monomer rubber and liquid-crystalline polymer. *Journal of Applied Polymer Science*, **2004**, 93, 711-718	2.9	12
7	Structure -properties relations of polypropylene/ liquid crystalline polymer blends. *Macromolecular Research*, **2003**, 11, 224-230	1.9	6
6	Nanofiller as crosslinker for halogen-containing elastomers. *Macromolecular Research*, **2003**, 11, 506-510	1.9	4
5	Blends of low-density polyethylene and liquid crystalline polymer. *Polymer Composites*, **2003**, 24, 716-723	3	2
4	Nanofiller as vulcanizing aid for styrene-butadiene elastomer. *Macromolecular Research*, **2002**, 10, 369-372	1.9	20

3	Effect of ethylene/propylene ratio on reinforcing characteristics of liquid crystalline polymer (LCP) in EPDM-LCP composites. *Plastics, Rubber and Composites*, **2002**, 31, 443-448	1.5	4
2	Structural characterization of PBT/LCP blends. *Materials Letters*, **2002**, 56, 194-199	3.3	11
1	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. *Materials Advances*,	3.3	2