

Nanda Gopal Sahoo

List of Publications by Year in descending order

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119
papers

8,726
citations

81900

39
h-index

42399

92
g-index

120
all docs

120
docs citations

120
times ranked

11681
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymer nanocomposites based on functionalized carbon nanotubes. <i>Progress in Polymer Science</i> , 2010, 35, 837-867.	24.7	1,482
2	Chitosan-Functionalized Graphene Oxide as a Nanocarrier for Drug and Gene Delivery. <i>Small</i> , 2011, 7, 1569-1578.	10.0	800
3	Functionalization of carbon nanomaterials for advanced polymer nanocomposites: A comparison study between CNT and graphene. <i>Progress in Polymer Science</i> , 2017, 67, 1-47.	24.7	491
4	Water-Soluble Poly(<i>N</i> -isopropylacrylamide)-Graphene Sheets Synthesized via Click Chemistry for Drug Delivery. <i>Advanced Functional Materials</i> , 2011, 21, 2754-2763.	14.9	426
5	Graphene-Based Materials for Energy Conversion. <i>Advanced Materials</i> , 2012, 24, 4203-4210.	21.0	303
6	Functionalized carbon nanomaterials as nanocarriers for loading and delivery of a poorly water-soluble anticancer drug: a comparative study. <i>Chemical Communications</i> , 2011, 47, 5235.	4.1	298
7	Poly(vinyl alcohol) Nanocomposites Filled with Poly(vinyl alcohol)-Grafted Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 2387-2394.	8.0	240
8	The application of graphene oxide in drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2012, 9, 1365-1376.	5.0	200
9	Improved synthesis of graphene flakes from the multiple electrochemical exfoliation of graphite rod. <i>Nano Energy</i> , 2013, 2, 377-386.	16.0	200
10	Influence of carbon nanotubes and polypyrrole on the thermal, mechanical and electroactive shape-memory properties of polyurethane nanocomposites. <i>Composites Science and Technology</i> , 2007, 67, 1920-1929.	7.8	199
11	Polypyrrole coated carbon nanotubes: Synthesis, characterization, and enhanced electrical properties. <i>Synthetic Metals</i> , 2007, 157, 374-379.	3.9	198
12	Effect of carbon nanotubes on mechanical and electrical properties of polyimide/carbon nanotubes nanocomposites. <i>European Polymer Journal</i> , 2007, 43, 3750-3756.	5.4	180
13	Effect of Functionalized Carbon Nanotubes on Molecular Interaction and Properties of Polyurethane Composites. <i>Macromolecular Chemistry and Physics</i> , 2006, 207, 1773-1780.	2.2	165
14	A green approach to the synthesis of high-quality graphene oxide flakes via electrochemical exfoliation of pencil core. <i>RSC Advances</i> , 2013, 3, 11745.	3.6	142
15	Preparation of nanoparticles of poorly water-soluble antioxidant curcumin by antisolvent precipitation methods. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	140
16	Polymeric Nanocomposites of Polyurethane Block Copolymers and Functionalized Multi-Walled Carbon Nanotubes as Crosslinkers. <i>Macromolecular Rapid Communications</i> , 2006, 27, 126-131.	3.9	133
17	Fabrication of quercetin nanocrystals: Comparison of different methods. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 80, 113-121.	4.3	119
18	Preparation and Characterization of Quercetin Nanocrystals. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 2379-2390.	3.3	115

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19	Functionalized Graphene Oxide as Nanocarrier for Loading and Delivery of Ellagic Acid. <i>Current Medicinal Chemistry</i> , 2011, 18, 4503-4512.	2.4	115
20	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> , 2019, 178, 452-459.	5.0	112
21	Improvement of mechanical and thermal properties of carbon nanotube composites through nanotube functionalization and processing methods. <i>Materials Chemistry and Physics</i> , 2009, 117, 313-320.	4.0	107
22	Electroactive Shape Memory Effect of Polyurethane Composites Filled with Carbon Nanotubes and Conducting Polymer. <i>Materials and Manufacturing Processes</i> , 2007, 22, 419-423.	4.7	104
23	Conducting Shape Memory Polyurethane-Polypyrrole Composites for an Electroactive Actuator. <i>Macromolecular Materials and Engineering</i> , 2005, 290, 1049-1055.	3.6	103
24	Polyurethane- ϵ -Carbon Nanotube Nanocomposites Prepared by In-situ Polymerization with Electroactive Shape Memory. <i>Journal of Macromolecular Science - Physics</i> , 2006, 45, 441-451.	1.0	101
25	Dissolution enhancement of quercetin through nanofabrication, complexation, and solid dispersion. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 88, 121-130.	5.0	101
26	Fabrication of drug nanoparticles by evaporative precipitation of nanosuspension. <i>International Journal of Pharmaceutics</i> , 2010, 383, 285-292.	5.2	97
27	Specific Functionalization of Carbon Nanotubes for Advanced Polymer Nanocomposites. <i>Advanced Functional Materials</i> , 2009, 19, 3962-3971.	14.9	93
28	Fabrication of quercetin nanoparticles by anti-solvent precipitation method for enhanced dissolution. <i>Powder Technology</i> , 2012, 223, 59-64.	4.2	92
29	Nanocomposites for bone tissue regeneration. <i>Nanomedicine</i> , 2013, 8, 639-653.	3.3	90
30	Bulk synthesis of graphene nanosheets from plastic waste: An invincible method of solid waste management for better tomorrow. <i>Waste Management</i> , 2019, 88, 48-55.	7.4	79
31	Tuning graphene surface chemistry to prepare graphene/polypyrrole supercapacitors with improved performance. <i>Nano Energy</i> , 2012, 1, 723-731.	16.0	78
32	Graphene nanosheets derived from plastic waste for the application of DSSCs and supercapacitors. <i>Scientific Reports</i> , 2021, 11, 3916.	3.3	76
33	Functionalized graphene oxide as a vehicle for targeted drug delivery and bioimaging applications. <i>Journal of Materials Chemistry B</i> , 2020, 8, 8116-8148.	5.8	71
34	Nitrogen doped graphene nanosheet supported platinum nanoparticles as high performance electrochemical homocysteine biosensors. <i>Journal of Materials Chemistry B</i> , 2013, 1, 4655.	5.8	58
35	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> , 2018, 169, 265-272.	5.0	58
36	Complementary effects of multiwalled carbon nanotubes and conductive carbon black on polyamide 6. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 1203-1212.	2.1	54

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37	Current Advances in the Carbon Nanotube/Thermotropic Main-Chain Liquid Crystalline Polymer Nanocomposites and Their Blends. <i>Polymers</i> , 2012, 4, 889-912.	4.5	54
38	Solid waste-derived carbon nanomaterials for supercapacitor applications: a recent overview. <i>Materials Advances</i> , 2021, 2, 1454-1484.	5.4	47
39	Improvement in properties of multiwalled carbon nanotube/polypropylene nanocomposites through homogeneous dispersion with the aid of surfactants. <i>Journal of Applied Polymer Science</i> , 2012, 124, 1117-1127.	2.6	43
40	Disulfide exchange assisted self-healing epoxy/PDMS/graphene oxide nanocomposites. <i>Nanoscale Advances</i> , 2020, 2, 2726-2730.	4.6	35
41	Covalent functionalization of carbon nanotubes for ultimate interfacial adhesion to liquid crystalline polymer. <i>Soft Matter</i> , 2011, 7, 9505.	2.7	34
42	Long-term stability of quercetin nanocrystals prepared by different methods. <i>Journal of Pharmacy and Pharmacology</i> , 2012, 64, 1394-1402.	2.4	34
43	Synthesis of Polyurethane Nanocomposites of Functionalized Carbon Nanotubes by in-situ Polymerization Methods. <i>Journal of the Korean Physical Society</i> , 2007, 51, 1.	0.7	33
44	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> , 2019, 104, 109970.	7.3	32
45	Carbon Nanotube-Based Materials for Fuel Cell Applications. <i>Australian Journal of Chemistry</i> , 2012, 65, 1213.	0.9	31
46	Dissolution of artemisinin/polymer composite nanoparticles fabricated by evaporative precipitation of nanosuspension. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 62, 413-421.	2.4	29
47	3D graphene nanosheets from plastic waste for highly efficient HTM free perovskite solar cells. <i>Nanoscale Advances</i> , 2021, 3, 4726-4738.	4.6	28
48	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> , 2009, 98, 281-296.	3.3	27
49	Particle size reduction of poorly water soluble artemisinin via antisolvent precipitation with a syringe pump. <i>Powder Technology</i> , 2013, 237, 468-476.	4.2	27
50	Dissolution Enhancement of Artemisinin with .BETA.-Cyclodextrin. <i>Chemical and Pharmaceutical Bulletin</i> , 2011, 59, 646-652.	1.3	26
51	Thermal kinetics of montmorillonite nanoclay/maleic anhydride-modified polypropylene nanocomposites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 109, 17-25.	3.6	26
52	Binder-free reduced graphene oxide as electrode material for efficient supercapacitor with aqueous and polymer electrolytes. <i>High Performance Polymers</i> , 2020, 32, 175-182.	1.8	25
53	Effect of graphene oxide on the mechanical and thermal properties of graphene oxide/hytrell nanocomposites. <i>Journal of Thermoplastic Composite Materials</i> , 2021, 34, 55-67.	4.2	24
54	Waste plastics derived graphene nanosheets for supercapacitor application. <i>Materials and Manufacturing Processes</i> , 2021, 36, 171-177.	4.7	24

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55	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> , 2022, 3, 2146-2157.	5.4	24
56	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> , 2022, 10, 100265.	5.2	24
57	Nanofiller as vulcanizing aid for styrene-butadiene elastomer. <i>Macromolecular Research</i> , 2002, 10, 369-372.	2.4	23
58	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> , 2011, 31, 391-399.	7.3	23
59	Electrical, thermal, and dielectric studies of ionic liquid-based polymer electrolyte for photoelectrochemical device. <i>High Performance Polymers</i> , 2018, 30, 1002-1008.	1.8	23
60	Mass production of metal-doped graphene from the agriculture waste of <i>Quercus ilex</i> leaves for supercapacitors: inclusive DFT study. <i>RSC Advances</i> , 2021, 11, 10891-10901.	3.6	23
61	Micro/Nanoparticle Design and Fabrication for Pharmaceutical Drug Preparation and Delivery Applications. <i>Current Drug Therapy</i> , 2008, 3, 78-97.	0.3	21
62	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> , 2017, 95, 818-825.	7.5	21
63	Effect of Ag-Fe-Cu 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> , 2019, 9, 3923-3932.	4.1	21
64	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> , 2022, 435, 128956.	12.4	21
65	Polymer Nanocomposite Hydrogels Exhibiting Both Dynamic Restructuring and Unusual Adhesive Properties. <i>Langmuir</i> , 2013, 29, 7087-7095.	3.5	20
66	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> , 2022, 12, 2574-2588.	3.6	20
67	Schottky diodes from 2D germanane. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	19
68	The room temperature synthesis of a CuO-Bi-BiOBr ternary Z-scheme photocatalyst for enhanced sunlight driven alcohol oxidation. <i>Dalton Transactions</i> , 2021, 50, 5001-5010.	3.3	19
69	Effect of Carbon Nanotubes and Processing Methods on the Properties of Carbon Nanotube/Polypropylene Composites. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 5910-5919.	0.9	18
70	Fabrication of composite microparticles of artemisinin for dissolution enhancement. <i>Powder Technology</i> , 2010, 203, 277-287.	4.2	18
71	Ionic liquid (1-hexyl-3-methylimidazolium iodide)-incorporated biopolymer electrolyte for efficient supercapacitor. <i>High Performance Polymers</i> , 2020, 32, 220-225.	1.8	18
72	The Role of Functionalized Carbon Nanotubes in a PA6/LCP Blend. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 5242-5251.	0.9	17

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73	Recent Trends of Polymer-Protein Conjugate Application in Biocatalysis: A Review. <i>Polymer Reviews</i> , 2015, 55, 163-198.	10.9	17
74	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> , 2011, 11, 10408-10416.	0.9	16
75	Highly conducting polymer electrolyte-ionic liquid and porous carbon material for sandwich electric double layer capacitor. <i>High Performance Polymers</i> , 2021, 33, 469-475.	1.8	15
76	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> , 2021, 5, 100275.	4.0	15
77	Structural characterization of PBT/LCP blends. <i>Materials Letters</i> , 2002, 56, 194-199.	2.6	14
78	Self-reinforcing elastomer composites based on ethylene-propylene-diene monomer rubber and liquid-crystalline polymer. <i>Journal of Applied Polymer Science</i> , 2004, 93, 711-718.	2.6	14
79	Ternary dispersions to enhance solubility of poorly water soluble antioxidants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 433, 111-121.	4.7	14
80	Targeting mangiferin loaded N-succinyl chitosan-alginate grafted nanoparticles against atherosclerosis – A case study against diabetes mediated hyperlipidemia in rat. <i>Food Chemistry</i> , 2022, 370, 131376.	8.2	14
81	Nitrophenyl functionalization of carbon nanotubes and its effect on properties of MWCNT/LCP composites. <i>Macromolecular Research</i> , 2011, 19, 660-667.	2.4	13
82	Strengthening of liquid crystalline polymer by functionalized carbon nanotubes through interfacial interaction and homogeneous dispersion. <i>Polymers for Advanced Technologies</i> , 2011, 22, 1452-1458.	3.2	12
83	Modified supercritical antisolvent method with enhanced mass transfer to fabricate drug nanoparticles. <i>Materials Science and Engineering C</i> , 2013, 33, 2864-2870.	7.3	12
84	Bulk production of zinc doped reduced graphene oxide from tire waste for supercapacitor application: Computation and experimental analysis. <i>Journal of Energy Storage</i> , 2022, 53, 105098.	8.1	11
85	A facile synthesis of palladium nanoparticles decorated bismuth oxybromide nanostructures with exceptional photo-antimicrobial activities. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 217, 112640.	5.0	11
86	Graphene oxide supported Pd-Fe nanohybrid as an efficient electrocatalyst for proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 18704-18715.	7.1	10
87	Development of biodegradable chitosan/ graphene oxide nanocomposite via spray drying method for drug loading and delivery application. <i>Journal of Drug Delivery Science and Technology</i> , 2022, 74, 103555.	3.0	10
88	Fabrication of β -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> , 2017, 69, 1304-1317.	2.4	9
89	Structure-properties relations of polypropylene/ liquid crystalline polymer blends. <i>Macromolecular Research</i> , 2003, 11, 224-230.	2.4	8
90	Improvement of Properties of Polyetherimide/Liquid Crystalline Polymer Blends in the Presence of Functionalized Carbon Nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 1928-1934.	0.9	8

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91	Non-approximated series resistance evaluation by considering high ideality factor in organic solar cell. AIP Advances, 2018, 8, .	1.3	8
92	Elaborative Studies on Non-porous Carbon Material for Super Capacitor Application. Macromolecular Symposia, 2019, 388, 1900035.	0.7	8
93	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.	0.9	8
94	Graphene nanosheets derived from waste plastic for cost-effective thermoelectric applications. Results in Materials, 2022, 13, 100260.	1.8	8
95	Artemisinin-Polyvinylpyrrolidone Composites Prepared by Evaporative Precipitation of Nanosuspension for Dissolution Enhancement. Journal of Biomaterials Science, Polymer Edition, 2011, 22, 363-378.	3.5	7
96	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.	3.3	7
97	Recent Advancements in Green Synthesis of Nanoparticles for Improvement of Bioactivities: A Review. Current Pharmaceutical Biotechnology, 2022, 23, 904-919.	1.6	7
98	Synthesis of porous carbon from a PVC polymer and its application in supercapacitors. Materials Advances, 2022, 3, 4947-4953.	5.4	7
99	Preparation, characterization and dissolution behavior of artemisinin microparticles. Advanced Powder Technology, 2011, 22, 458-463.	4.1	6
100	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.	1.9	6
101	The effects of functionalized graphene oxide on the thermal and mechanical properties of liquid crystalline polymers. Soft Matter, 2022, 18, 3981-3992.	2.7	6
102	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, 72, 103370.	3.0	6
103	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.	2.0	5
104	Nanofiller as crosslinker for halogen-containing elastomers. Macromolecular Research, 2003, 11, 506-510.	2.4	5
105	Development and Characterization of Biocompatible Fullerene [C60]/Amphiphilic Block Copolymer Nanocomposite. Journal of Spectroscopy, 2015, 2015, 1-8.	1.3	4
106	Fundamentals of Polymers and Polymer Composite. , 2015, , 3-42.		4
107	Spray dryer processed graphene oxide/reduced graphene oxide for high-performance supercapacitor. International Journal of Applied Ceramic Technology, 2020, 17, 1899-1908.	2.1	4
108	Molecular Interactions in PA6, LCP and their Blend Incorporated with Functionalized Carbon Nanotubes. Key Engineering Materials, 2010, 447-448, 634-638.	0.4	3

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109	Genome mining, in silico validation and phase selection of a novel aldo-keto reductase from <i>Candida glabrata</i> for biotransformation. <i>Bioengineered</i> , 2018, 9, 186-195.	3.2	3
110	Theranostics Application of Graphene-Based Materials in Cancer Imaging, Targeting and Treatment. , 0, .		3
111	A Comprehensive Review on PCSK9 as Mechanistic Target Approach in Cancer Therapy. <i>Mini-Reviews in Medicinal Chemistry</i> , 2023, 23, 24-32.	2.4	3
112	Synergistic effect of avidin/biotin system with biofunctionalized graphene oxide based nanocarrier in targeted coâ€delivery of hydrophobic anticancer drug <sc>SN</sc>â€38. <i>Journal of Vinyl and Additive Technology</i> , 2022, 28, 474-486.	3.4	3
113	Blends of low-density polyethylene and liquid crystalline polymer. <i>Polymer Composites</i> , 2003, 24, 716-722.	4.6	2
114	Pd-Fe2O3 decorated nitrogen-doped reduced graphene oxide/CNT nanohybrid as electrocatalyst for proton exchange membrane fuel cell. <i>Diamond and Related Materials</i> , 2022, 126, 109115.	3.9	2
115	Dual Drug Loaded Potassium-contained Graphene Oxide as a Nanocarrier in Cocktailed Drug Delivery for the Treatment of Human Breast Cancer. <i>Current Drug Delivery</i> , 2023, 20, 943-950.	1.6	2
116	Fundamentals of Polymers and Polymer Composite. , 2013, , 1-33.		1
117	Recycling of Plastics into Advance Carbon Nanomaterials and Their Application in Energy Storage System. <i>Composites Science and Technology</i> , 2021, , 259-281.	0.6	1
118	An innovative approach for the fabrication of highly conductive nanocomposites with different carbon. , 2010, , 9-13.		1
119	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> , 2018, 14, 604-614.	1.2	1