Name	: Nanda Gopal Sahoo, FRSC
Designation	: Professor Director, Research and Development Cell In-charge PRS-Nanoscience and Nanotechnology Centre
Department	: Department of Chemistry, Kumaun University
Contact Information Email Address	: ngsahoo@kunainital.ac.in
Mobile No	: 9456730659
LinkedIn Profile (Optional)	: linkedin.com/in/nandagopal-sahoo-11821a38
ORCID ID	: https://orcid.org/0000-0001-8406-6610
Scopus ID	: 7004444011
Vidwan ID	:

# **Educational Qualification**

Degree	University	Subjects	Year
Ph.D	Indian Institute of	Materials Science	2004
	Technology,		
	Kharagpur, West		
	Bengal		
M.Sc	Vidyasagar	Physical Chemistry	1997
	University, West		
	Bengal		
B.Sc	Vidyasagar	Chemistry (Hons.)	1994
	University, West		
	Bengal		

# Work Experience

Position	Department		University/Or	ganization	Year	
Professor	Department	of	Kumaun Unive	ersity	July	2016-
	Chemistry				preser	nt
Associate	Department	of	Kumaun Unive	ersity	July	2013-
Professor	Chemistry				July 2	016
Scientist II	Institute of	Materials	Institute of	Materials	Sept.	2012-
	Research	and	Research	and	July 2	013
	Engineering	(IMRE),	Engineering	(IMRE),		

	Singapore	Singapore	
Scientist	Energy Research	Energy Research	Aug. 2011-
	Institute	Institute, Nanyang	Aug. 2012
		Technological	
		University, Singapore.	
LKY Research	School of Mechanical	Nanyang Technological	Aug. 2008-
Fellow	and Aerospace	University, Singapore.	July 2011
	Engineering		
Postdoctoral	School of Mechanical	Nanyang Technological	Oct. 2007-
Research	and Aerospace	University, Singapore	July 2008
Fellow	Engineering		
Postdoctoral	School of Chemical and	Nanyang Technological	July 2006-
Research	Biomedical Engineering	University, Singapore	Sep 2007
Fellow			
Postdoctoral	Artificial Muscle	Konkuk University,	Jan. 2005 –
Research	Research Center	South Korea	July 2006
Fellow			

#### Administrative Responsibilities

Position	Nature of responsibility	University/Organization	Year
Director	Research and Development Cell, Kumaun University	Kumaun University	2023- Present
Member	Intellectual Property Right, Kumaun University	Kumaun University	2020-Present
Convener and Co-Convener	Admission Committee, B.Sc.	Kumaun University	2016-2020
<b>Co-Ordinator</b>	Ph.D. Coursework	Kumaun University	2019
Member	Executive Council, Kumaun University.	Kumaun University	2016-2017

#### **Research Interests**

- Solid waste management
- Water Technology
- Graphene based materials for supercapacitor, fuel and solar cells applications
- Drug delivery
- High performance CNT/polymer or graphene/polymer nanocomposites
- Fabrication and Characterization of Micro/nano particles for pharmaceutical applications.

## • Hydrogen energy

# Publications (start from recent publications)

# a) Research Papers (add row if required)

Authors name	Title of the paper	Journal, vol, page no	Year
C. Tewari, M. Pathak,		Journalof Industrial	2024
G.Tatrari, S. Kumar, S.	graphene oxide-based	and Engineering	
Dhali, B. Saha, P.	nanocomposite with Fe <sub>3</sub> O <sub>4</sub> for water	Chemistry130, 346-	
Mukhopadhyay, Y. C.	purification and supercapacitor	356	
Jung*, N. G. Sahoo*	applications		
R.Jangra, P.Mahendia,	ZnCl <sub>2</sub> -assisted conversion of	Journal of Energy	2024
M.Karakoti, N.G.	nitrogen-containing biomass carbon	Storage 75, 109728	
Sahoo, A. Srivastava,	from marigold flower: Toward	2001080 10, 10, 120	
O.P. Sinha,T. D.	e		
Clemons, U. Deshpande,	doped carbon for low ESR and		
S.Mahendia	enhanced energy density		
	supercapacitors		
M. Pathak, D. Bhatt,	High Energy Density	The Chemical	2024
R.C. Bhatt, B.S. Bohra,	Supercapacitors: An Overview of	Record, $24(1)$ ,	
G.Tatrari, S. Rana, M.C.	Efficient Electrode Materials,	e202300236	
Arya <b>N.G. Sahoo</b> *	Electrolytes, Design, and Fabrication		
S. Dhali, M.Karakoti,		Materials Advances,	2024
G.Tatrari, S. Pandey, K.	Doped Reduced Graphene Oxide		
S. Rawat, C. Tewari, B.	Decorated Core-Shell Nano-		
Santhibhushan, Y. C.	Structured Metal Catalyst		
Jung, A. Srivastava, N.	(WpNrGO_Pd_Ru) for Proton		
G. Sahoo*	Exchange Membrane Fuel Cell		
C. Tewari, G.Tatrari, S.	Can graphene-based composites and	Desalination, 567,	2023
Kumar, M. Pathak, K.S.	membranes solve current water	116952	
Rawat, Y.N. Kim, B.	purification challenges-a		
Saha,Y,C, Jung, P.	comprehensive review		
Mukhopadhyay, N.G.	1		
Sahoo*			
G.Tatrari, C. Tewari, M.	3D-graphene hydrogel and tungsten	Journal of Energy	2023
Pathak, D. Bhatt,		Storage, 68, 107830	
	high-capacity asymmetric		
D.S. Uniyal, F.U. Shah,	supercapacitors: A comparative		
N.G. Sahoo*	study		
B.S. Bohra, P. Singh, A.	Specific functionalized graphene	Composites Science	2023
Rana, H. Sharma, T.	oxide-based vitrimer epoxy	and Technology, 241,	
Arya, M. Pathak,	nanocomposites for self-healing	110143	
A.Chaurasia, N.G.	applications		
Sahoo*			
P.S. Sahu, R.P. Verma,	A novel, efficient and economical	Environmental	2023
A.H. Dhabade, C.	alternative for the removal of toxic	Pollution, 328,	
Tewari, N. G. Sahoo, B.	organic, inorganic and pathogenic	121201	

Saha	water pollutants using GO-modified PU granular composite		
A. Pandey, H.	Waste Plastic Derived Reduced	Journal of	2023
Kesarwani, C. Tewari,	Graphene Oxide as A Potential	Environmental	2023
A. Saxena, S. Sharma,	Additive for the Surfactant Polymer	Chemical	
N. G. Sahoo	Flooding: A Sustainable Solution	Engineering, 11,	
11. G. Sanoo	Flooding. A Sustainable Solution	109661	
S Pandey, M Karakoti, D	Recent advances in carbon-based	Nanoscale Advances,	2023
Bhardwaj, G Tatrari, R	materials for high-performance	5, 1492-1526	
Sharma, L Pandey, MJ.	perovskite solar cells: gaps,	-,	
Lee, N.G. Sahoo*	challenges and fulfilment		
M. Matiyani, A. Rana,	Development of multi-functionalized	Journal of Drug	2023
N. M. Pal, <b>N. G. Sahoo</b> *	graphene oxide based nanocarrier for	Delivery Science and	2020
	the delivery of poorly water-soluble	Technology, 83,	
	anticancer drugs	104412	
G.Tatrari, C. Tewari, M.	Coconut-husk Derived Graphene for	Materials Advances,	2023
Pathak, D. Bhatt, M.	Supercapacitor Applications:	4, 3310-3322	2023
Solanki, F. U. Shah, N.	Comparative Analysis of Polymer	1, 5510 5522	
G. Sahoo*	Gel and Aqueous Electrolytes		
H. Sharma, A. Kumar, S.	Critical Review on Advancements on	Journal of Materials	2023
Rana, <b>N.G. Sahoo</b> , M.	the Fiber-Reinforced Composites:	Research and	2025
Jamil, R. Kumar, S.	Role of Fiber/Matrix Modification	Technology, 26,	
Sharma, C. Li, A.	on the Performance of the Fibrous	2975-3002	
Kumar, S. M Eldin, M.	Composites	2715 5002	
Abbas	composites		
T. Arya, B.S. Bohra, C.	Influence of bio-resource-derived	Polymer Composites,	2023
Tewari, S. Dhali, V	graphene oxide on the mechanical	<i>45</i> (1), 695-70	2020
Dikshit, S. Rana, Y.C.	and thermal properties of poly (vinyl	15(1), 055 10	
Jung*, N.G. Sahoo*	alcohol) nanocomposites		
A. Rana, S. Pandey, M.		Materials Chemistry	2023
Matiyani, H. Tiwari, P.	1 0	•	2020
B. Negi, S. Dokwal,	from Juniperus squamata roots and		
N.G. Sahoo*	their cytotoxic potential against		
	human cervical cancer cells (HeLa		
	cells) and Plasmodium falciparum an		
	agent of malaria: A green approach		
P. S. Sahu, R. P. Verma,	Facile fabrication and application of	Environmental	2023
C. Tewari, N. G. Sahoo,	highly efficient reduced graphene	Science and Pollution	-
B. Saha	oxide (rGO)-wrapped 3D foam for	Research, $30(40)$ ,	
	the removal of organic and inorganic	93054-93069	
	water pollutants		
S. Pandey, M. Pathak,	Binder-Free Supercapacitors Based	Catalysts, 13, 235	2023
M.Karakoti, G.Tatrari,	on Thin Films of MWCNT/GO		
B.Shantibhusan,	Nanohybrids: Computational and		
P.S.Dhapola,S. Dhali, A.	Experimental Analysis		
Srivastava, S. Rana, N.			
G. Sahoo*			
S. Murugaboopathy, D.	Development of Mesoporous Carbon	Journal of The	2023
Gunasekaran, C. Kumar,	Composites with Waste Plastics	Electrochemical	-
C. Tewari, <b>N.G. Sahoo</b>	Derived Graphene and Mno2 for	Society, 170 (4),	
C. Tewari, <b>N.G. Sanoo</b>	Derived Graphene and Mino2 for	1/0 (4),	

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	Supercapacitor Applications	040518	2022
RVSP Sanka, S. Rana, P.	Self-healing nanocomposites via N-	Soft Matter, 19, 98-	2023
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Kumar, M. Singh, N.G.	chemistry		
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J. Yun, C. Park			
M. Matiyani, A. Rana,	Polyamidoamine dendrimer	Journal of Pharmacy	2023
M. Pal, S. Dokwal, N. G.	decorated graphene oxide as a pH-	and Pharmacology,	
Sahoo*	sensitive nanocarrier for the delivery	75, 859	
	of hydrophobic anticancer drug		
	quercetin: a remedy for breast cancer		
P. Ponmani, J. Bahadur,	Polyaniline modified waste-derived	Journal of Polymer	2023
C. Tewari, D.K. Gupta,	graphene/sulfur nanocomposite	Science, 61(18), 2149-	
U. Kalita, P.Jegadeesan,	cathode for lithium–sulfur batteries	2162	
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A. Das, N.G. Sahoo, M.			
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M. Pathak, G.Tatrari,	Few layer graphene nanosheets from	Journal of Energy	2022
M.Karakoti, S. Pandey,	kinnow peel waste for high-	Storage 55, 105729	
P.S. Sahu, B. Saha, N.G.	performance supercapacitors: A		
Sahoo*	comparative study with three		
	different electrolytes		
S. Kumar, C. Tewari, N.	Mechanistic insights into carbo-	Journal	2022
<b>G. Sahoo</b> , Ligy Philip*	catalyzed per-sulfate treatment for	of Hazardous Materia	2022
Ge Sanoo, Eigy Thinp	simultaneous degradation of cationic	ls, 435, 128956	
	and anionic dye in multicomponent	15, 155, 120,50	
	mixture using plastic waste derived		
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Y. Wang, T. Karmakar,	Targeting mangiferin loaded N-	Food Chemistry, 370,	2022
N. Ghosh, S. Basak,	succinyl chitosan-alginate grafted	131376	2022
N.G. Sahoo*	nanoparticles against atherosclerosis-	101070	
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	mediated hyperlipidemia in rat		
G Tatrari, C Tewari, M	Bulk production of zinc doped	Journal of Energy	2022
Pathak, M Karakoti, BS	reduced graphene oxide from tire	Storage, 53, 105098	
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N.S. Bisht, A.H.	A Facile Synthesis of Palladium	Colloids and Surfaces	2022
Tripathi, M. Pant, S.K.	Nanoparticles Decorated Bismuth	B: Biointerfaces, 217,	2022
Upadhyay, <b>N.G. Sahoo</b> ,	Oxybromide Nanostructures with	112640	
S.P.S. Mehta, A.	Exceptional Photo-antimicrobial		
Dandapat	Activities		
P.S. Sahu, R.P. Verma,		Environmental	2022
	Environmental application of amine functionalised magnetite	Science and Pollution	2022
C. Tewari, N.G. Sahoo,	e		
B. Saha	nanoparticles grafted graphene oxide chelants	Research, 29, 86485–	
DC Dohno M Don J		86498 Soft Matter 18, 7112	2022
B.S. Bohra, N. Pandey,	Effect of Terephthalic acid	Soft Matter, 18, 7112-	2022

S. Pande, S. Rana, N.G. Sahoo <sup>*</sup>	Functionalized Graphene oxide on molecular interaction, mechanical and thermal properties of Hytrel Polymer	7122	
S Rana, M Solanki, <b>N.G.</b> <b>Sahoo</b> , B Krishnakumar	Bio-Vitrimers for Sustainable Circular Bio-Economy	Polymers 14 (20), 4338	2022
M. Karakoti, G. Tatrari, S. Pandey, P. S. Dhapola, R. Jangra, S. Mahendia, M. Pathak, S. Dhali, P.K. Singh <b>N.G.</b> <b>Sahoo</b> *	Tailoring the electrochemical performance of PEDOT: PSS via incorporation of spray dryer processed graphene oxide	International Journal of Energy Research, 46, 18711-18726	2022
N. Pandey, B. S. Bohra, H. Tiwari, M. Pal, P.Bhakuni Negi, A.Dandpat, SPS Mehta, <b>N. G. Sahoo</b> *	Development of biodegradable chitosan/graphene oxide nanocomposite via spray drying method for drug loading and delivery application	Journal of Drug Delivery Science and Technology, 74,103555	2022
Anita Rana, Monika Matiyani, Chetna Tewari,PushpaBhakuniN egi, Mahesh Chandra Arya, Mintu Pal, <b>Nanda</b> <b>Gopal Sahoo</b> *	Functionalized Graphene Oxide Based Nanocarrier for Enhanced Cytotoxicity of Juniperus squamataEssential Oil against Breast Cancer Cells	Journal of Drug Delivery Science and Technology, 72, 103370	2022
B.S. Bohra, N. Pandey, G. Tatrari, S. Rana, <b>N.G.</b> <b>Sahoo</b> <sup>*</sup>	The Effects of Functionalized Graphene Oxide on Thermal and Mechanical Properties of Liquid Crystalline Polymer	Soft Matter, 18, 3981	2022
Pawan Singh Dhapola, Abhimanyu Singh, Manoj Karakoti, Manoj K. Singh, SubhrajitKonwar, Sushil Dohare, Aysh Y. Madkhli, I. M. Noor, Pramod K. Singh, <b>Nanda Gopal Sahoo</b> *	Synthesis of porous carbon from a PVC polymer and its application in supercapacitors	Materials Advances, 3, 4947-4953	2022
Sunil Dhali, Sandeep Pandey, Anirban Dandapat, Tapan Sahoo, Prateekshya Suman Sahu, <b>Nanda Gopal</b> <b>Sahoo</b> *	Pd-Fe2O3 decorated nitrogen-doped reduced graphene oxide/CNT nanohybridas electrocatalyst for proton exchange membrane fuel cell	Diamond and Related Materials, 126, 109115	2022
M. Matiyani, A. Rana, M. Pal, S. Rana, A. B. Melkani, <b>N. G. Sahoo</b> *	Polymer grafted magnetic graphene oxide as a potential nanocarrier for pH-responsive delivery of sparingly soluble quercetin against breast cancer cells	RSC Advances, 12, 2574	2022
M. Karakoti, S. Pandey, G. Tatrari, P. S.	An Approach towards Waste to Energy from Effective Conversion of	Materials Advances, 3, 2146	2022

Dhapola, R. Jangra, S. Dhali, M. Pathak, S. Mahendia, <b>N.G. Sahoo</b> *	Solid Waste Plastics into Graphene Nanosheets by Using Different Catalysts for High Performance Supercapacitors: A comparative study		
Chetna Tewari, Gaurav Tatrari , Sumit Kumar , Sandeep Pandey , Anita Rana, MintuPal, <b>Nanda</b> <b>Gopal Sahoo</b> *	Green and cost-effective synthesis of 2D and 3D Graphene-based nanomaterials from Drepanostachyumfalcatum for Bio- imaging and Water purification applications	Chemical engineering journal advances, 10, 100265	2022
K.K. Garg, S. Pandey, A. Kumar, A. Rana, N.G Sahoo, RK Singh	Graphene nanosheets derived from waste plastic for cost-effective thermoelectric applications	Results in Materials, 13,100260	2022
Himani Tiwari, Neha Karki, Chetna Tewari, <b>Nanda Gopal Sahoo</b> *	Dual Drug Loaded Potassium-Doped Graphene Oxide as a Nanocarrier in Cocktailed Drug Delivery for the Treatment of Human Breast Cancer	Current Drug Delivery 20(7), 943- 950	2022
N. Karki, H. Tiwari, M. Matiyani, R. Bal, M. Pal, <b>N. G. Sahoo</b> *	Synergistic effect of avidin/biotin system with biofunctionalized graphene oxide based nanocarrier in targeted co-delivery of hydrophobic anticancer drug SN-38	Journal of Vinyl and Additive Technology 28(03), 474-486	2022
T. Sharma, B. Gultekin, P. S. Dhapola, <b>N. G.</b> <b>Sahoo</b> , S. Kumar, D. Agarwal, H. K. Jun, D. Singh, G. Nath, P. K. Singh, A. Singh	Ionic liquid doped poly (methyl methacrylate) for energy applications	Journal of Molecular Liquids, 352,118494	2022
VD Punetha, S Dhali, A Rana, N Karki, H Tiwari, P Negi, S Basak, <b>N.G. Sahoo</b> *			2022
A Rana, PB Negi, AHC Tripathi, M Pal, <b>N.G.</b> <b>Sahoo</b> *	Chemical Composition, Antifungal, Antioxidant and Cytotoxic Potential of Apium graveolens L. (Celery) Leaves Essential Oil Collected from Nainital, Uttarakhand	Journal of Essential Oil Bearing Plants 25 (4), 844-858	2022
G. Nath, P.S. Dhapola, <b>N.G. Sahoo</b> , S. Singh, V. Singh, P.K. Singh	Polyvinylpyrrolidone with ammonium iodide and plasticizer ethylene carbonate solid polymer electrolyte for supercapacitor application	Journal of Thermoplastic Composite Materials, 35, 879-890	2022
G. Tatrari, M. Karakoti, C. Tewari, S. Pandey, B.S. Bohra, A. Dandapat, <b>N.G. Sahoo</b> *	Solid waste derived carbon nanomaterials for supercapacitor application: A recent overview	Materials Advances, 2 (5), 1454-1484	2021
C. Tewari, B. SanthiBhushan, A.	Metal doped graphene oxide derived from Quercus ilex fruits for selective	Sustainable Chemistry and	2021

Srivastava, N.G. Sahoo*	and visual detection of iron (III) in	Pharmacy 21, 100436	
	water: Experiment and theory		2021
G. Tatrari, M. Karakoti,	Solid waste derived carbon	Materials Advances, 2	2021
C. Tewari, S. Pandey,	nanomaterials for supercapacitor	(5), 1454-1484	
B.S. Bohra, A.	application: A recent overview		
Dandapat, N.G. Sahoo*			2021
S. Pandey, A. Kumar, M.	3D Graphene Nanosheets from	Nanoscale Advances,	2021
Karakoti, K. K. Garg, A.	Plastic Waste for Highly Efficient	3 (16), 4726-4738	
Rana, G. Tatrari, B.S.	HTM free Perovskite Solar Cells		
Bohra, P. Yadav, R. K.			
Singh, N.G. Sahoo*			
M. Karakoti, S. Pandey,	Waste Plastics Derived Graphene	Materials and	2021
R. Jangra, P.S. Dhapola,	Nanosheets for Supercapacitor	Manufacturing	
P. K Singh, S. Mahendia,	Application	Processes, 36 (2),	
A. Abbas, N. G. Sahoo*		171-177	
M. Karakoti, S. Pandey,	Mass production of metal-doped	RSC Advances, 11	2021
R. Jangra, P.S. Dhapola,	graphene from the agriculture waste	(18), 10891-10901	
P. K Singh, S. Mahendia,	of Quercus ilex leaves for		
A. Abbas, N. G. Sahoo*	supercapacitors: inclusive DFT study		
N.S. Bisht, S.P.S. Mehta,	Room temerature synthesis of CuO-	Dalton Transactions	2021
N.G. Sahoo, A.Dandapat	Bi-BiOBr ternary Z-scheme	50 (14), 5001-5010	
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	driven alcohol oxidation		
G Tatrari, C Tewari, BS	Waste plastic derived graphene	Cleaner Engineering	2021
Bohra, S Pandey, M	sheets as nanofillers to enhance	and Technology, 5,	
Karakoti, S Kumar, H	mechanical strength of concrete	100275,	
Tiwari, S. Dhali, N.G.	mixture: An inventive approach to		
Sahoo*	deal with universal plastic waste		
A Singh, P.S.Dhapola, S	Highly conducting polymer	High Performance	2021
Singh, P.K. Singh, A.S.	electrolyte-ionic liquid and porous	Polymers, $33$ (4),	
Samsudin, N.G. Sahoo,	carbon material for sandwich electric	469-475	
Hee-Woo Rhee	double layer capacitor		
N. Karki, H. Tiwari, C.	Functionalized graphene oxide as a	Journal of Materials	2020
Tewari, A. Rana, N.	vehicle for targeted drug delivery	Chemistry B 8 (36),	
Pandey, S. Basak, N.G.	and bioimaging applications	8116-8148	
Sahoo*			
M. Karakoti, R. Jangra,	Spray dryer processed graphene	International Journal	2020
S. Pandey, P.S. Dhapola,	oxide/reduced graphene oxide for	of Applied Ceramic	
S. Dhali, S. Mahendia,	high-performance supercapacitor	Technology, 7 (4),	
R. K Singh, N. G.		1899-1908	
Sahoo*			
K. Balaji, M. Singh, V.	Spray dryer processed graphene	International Journal	2020
Parthasarathy, C. Park,	oxide/reduced graphene oxide for	of Applied Ceramic	
N.G. Sahoo, G.J. Yun,	high-performance supercapacitor	Technology, 7 (4),	
S. Rana		1899-1908	
K. Balaji, M. Singh, V.	Disulfide Exchange Assisted Self-	Nanoscale Advances,	2020
Parthasarathy, C. Park,	Healing Epoxy/PDMS/Graphene	2 (7), 2726-	
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Sahoo*	Transport Layer in Organic Solar		
	Cells	II'I D C	2022
H Ahuja, PS Dhapola,	Ionic liquid (1-hexyl-3-	High Performance	2020
N.G. Sahoo, V Singh,	methylimidazolium iodide)-	Polymers, 32 (2),	
PK Singh	incorporated biopolymer electrolyte	220-225	
	for efficient supercapacitor		
M Karakoti, R Jangra, S	Binder-free reduced graphene oxide	High Performance	2020
Pandey, PS Dhapola, S	as electrode material for efficient	Polymers 32 (2), 175-	
Dhali, S Mahendia, P K	supercapacitor with aqueous and	182	
Singh, N.G. Sahoo*	polymer electrolytes		
S Pandey, M Karakoti, S	Bulk synthesis of graphene	Waste Management,	2019
Dhali, N Karki, B	nanosheets from plastic waste: An	88, 48-55	
SanthiBhushan, C	invincible method of solid waste		
Tewari, S. Rana, A.	management for better tomorrow		
Srivastava, A.B.			
Melkani, N. G. Sahoo*			
C Tewari, G Tatrari, M	A simple, eco-friendly and green	Materials Science and	2019
Karakoti, S Pandey, M	approach to synthesis of blue	Engineering: C 104,	
Pal, S Rana, B	photoluminescent potassium-doped	109970	
SanthiBhushan, A.B.	graphene oxide from agriculture		
Melkani, A. Srivastava,	waste for bio-imaging applications		
N. G. Sahoo*			
H Tiwari, N Karki, M	Functionalized Graphene Oxide as a	Colloids and Surfaces	2018
Pal, S Basak, RK Verma,	Nanocarrier for Dual Drug Delivery	B: Biointerfaces, 169,	
R Bal, ND Kandpal, G	Applications: The Synergistic Effect	265-272	
Bisht, N. G. Sahoo*	of Quercetin and Gefitinib Against		
	Ovarian Cancer Cells		
NS Bisht, D Pancholi,	Effect of Ag–Fe–Cu tri-metal	Catalysis Science &	2019
	loading in bismuth oxybromide to		
Melkani, SPS Mehta, A	develop a novel nanocomposite for	3923-3932	
Dandapat	the sunlight driven photocatalytic		
	oxidation of alcohols		
N Pandey, C Tewari, S	Effect of graphene oxide on the	Journal of	2019
Dhali, BS Bohra, S	mechanical and thermal properties of	Thermoplastic	-
Rana, SPS Mehta, S	graphene oxide/hytrel	Composite	
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Singhal, Alok Chaurasia.	nanocomposites	Materials, 34(1). 55-	
Singhal, Alok Chaurasia, <b>N.G. Sahoo</b> *	nanocomposites	Materials,34(1), 55- 67	
N.G. Sahoo*	-	67	2019
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Sandeep Pandey, Manoj Karakoti, Sunil Dhali, C. Tewari, and <b>Nanda Gopal Sahoo</b>	Process of preparation of naturally doped Silicon, Magnesium and Calcium Graphene nanosheets from Paper Waste for Energy Applications	Indian Patent Grand no. 419214 Australian Innovation Patent Grant no. 2021100550	2023 April 2021
<b>N G Sahoo</b> , Gaurav Tatrari, Chetna Tewari, Sandeep Pandey, Himani Tiwari, Manoj Karakoti, A B Melkani	A process of manufacturing highly porous 3D graphene nano- flakes (HP3DGNFs) doped with alkali and transition metals	Indian Patent Grant no. 402397	2022
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N.G. Sahoo, M. Pathak, R.C. Bhat, D. Bhat, Y.C. Jung, C. Tewari, Y.N. Kim	System and method for preparing supercapacitors utilizing three-dimensional hierarchical porous nitrogen-doped reduced graphene-oxide	Patent Application No.202311070819	Oct 10, 2023

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Authors name	Title of the book	Publisher	ISBN	Year
Nanda	Waste	Nova Science	978-1-68507-369-5	2022
Gopal	Management:	Publisher		

Sahoo	Strategies, Challenges and Future			
	Directions, USA			
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Authors name	Title of the book	Publisher	ISBN	Year
C. Tewari, S.	Technological Solutions	IWA Publishing	9781789063707,	2023
Kumar, B. Saha,	for Water Sustainability:		9781789063714	
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S. Dhali,	Graphene Extraction	Elsevier	978-0-323-90914-	2023
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N. Pandey, B. S.	Degradation of Plastic	Materials	1644901323, 978-	2021

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N Karki, A Rana,	Tumor Progression and	IntechOpen	978-1-68507-369-	2020
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Karakoti, M.,	Conducting Polymers-	Taylor & Francis	9780429202261	2019
Pandey, S.,	Based Energy Storage		<i>yi</i> 0012 <i>y</i> 202201	2017
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M. Karakoti,	Carbon-based Polymer	Elsevier	9780128135754,	2018
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N.G. Sahoo, L.	Aerospace Materials	Taylor & Francis	978-1-4398-7329-	2012
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N.G. Sahoo, S.	Functional Composites	Transworld		2009
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L. Li	Applications	Network		

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Tanuja	Arya,	"Agriculture Waste derived	An International	13-16th
Bhashkar	Singh	Carbon Nanomaterials based	conference on BioHeal-	April, 2023
Bohra,	Chetna	Poly (Vinyl Alcohol)	2023 (Biomaterials and	
Tewari,	Nanda	Nanocomposites for Structural	Health Care 2023	
Gopal Sal	100	Application"		
Diksha	Bhatt,	"Upcycling of waste plastics	An International	13-16th

Mayank Pathak, N.G. Sahoo	for conservation of EEE (Ecology, Economy and Energy)".	conference on BioHeal- 2023 (Biomaterials and Health Care 2023)	April, 2023
RajeshChandraBhatt,GauravTatrari,MayankPathak,N.G.Sahoo	The waste derived reduced graphene oxide for waste water treatment and high- performance supercapacitor"	An International conference on BioHeal- 2023 (Biomaterials and Health Care 2023)	13-16th April, 2023
Diksha Bhatt, Gaurav Tatrari, <b>N.G. Sahoo</b>	"Synthesis of NiCo <sub>2</sub> O <sub>4</sub> and NiC-WPG nanocomposite for high performance supercapacitor".	National Conference on Emergent Material for Energy and Environment (EMEE- 2023)	4-5 <sup>th</sup> March 2023
Mayank Pathak, Diksha Bhatt, <b>N.</b> <b>G. Sahoo</b>	A green supercapacitor	National Conference on Emergent Material for Energy and Environment (EMEE- 2023)	4-5 <sup>th</sup> March 2023
Chetna Tewari, Tanuja Arya, <b>Nanda Gopal</b> Sahoo	"Development of waste plastic derived reduced graphene oxide and its composites with Fe <sub>3</sub> O <sub>4</sub> for removal of drugs from water samples"	An International Conference on Water for Life,	15-17th December, 2022.
Chetna Tewari, Nanda Gopal Sahoo	"Metal doped reduced graphene oxide derived from waste plastics and removal of diclofenac from water samples"	First International conference on circular Economy and Sustainale water management SuWam- 2022, 2022.	2022
Chetna Tewari, Nanda Gopal Sahoo	"Waste to wealth: A green and sustainable approach to develop carbon-based nanomaterials for bioimaging and water purification"	National Conference on Environmental Challenges for Sustainable Development,	26-27th March, 2022.
Mayank Pathak, Nanda Gopal Sahoo	"Waste to Energy: Fruit Waste to Graphene Nanosheets and their application in Binder-free Supercapacitor"	National Conference on Environmental Challenges for Sustainable Development,	26 & 27 March 2022.
Mayank Pathak, Nanda Gopal Sahoo	"Waste to Graphene Nanosheets and their application in Energy Storage System: A Novel Path towards Circular Economy of Himalayan Regions,	National Conference on Climate Change: Its Impact on Bio- Resource of the Himalayan Region"	5 & 6 June 2022

Mayank Pathak, Gaurav Tatrari,	"Flexible Supercapacitor from Waste derived graphene	International Conference on Beyond	23July- 25 July 2022.
Nanda Gopal Sahoo	nanosheets; From waste to energy"	Fossil Fuels : The Future of Alternative Energy Technologies (B:FAT-2020),	
Mayank Pathak, Gaurav Tatrari, Nanda Gopal Sahoo	"Bulk Synthesis of Graphene Nanosheets from Waste Plastics and Waste Biomass for Supercapacitor application:	Waste to Wealth"; International Conference on "Emerging Materials for Sustainable Development (EMSD- 2022)"	9 October- 11 October 2022.
Mayank Pathak, Nanda Gopal Sahoo	"Upcycling of biogas plant extract into graphene nanosheets for energy storage application: An indigenous path towards circular economy";	International Online Conference on Reuse, Recycling, Upcycling, Sustainable Waste Management and Circular Economy (ICRSC)	09 September- 11 September 2022.
Bhashkar Singh Bohra, Tanuja Arya, <b>Nanda</b> <b>Gopal Sahoo</b>	"Agricultural waste derived grapheme oxide based PVA polymer nanocomposites for structural applications"	National Conference on Climate Change: Its Impact on Bio- Resource of the Himalayan Region (CCIBHR)	5th- 6th June 2022
Chetna Tewari, Nanda Gopal Sahoo	"A Simple, Eco-Friendly and Green Approach to Synthesis of Carbon Nanomaterial from Agricultural Waste for Metal Sensing and Bioimaging Application"	International Conference on Nanomedicine: Biomolecules for Human Health (NBHH- 2021),.	27-28th Sept, 2021
Gaurav Tatrari, N. G. Sahoo	"Tire waste Derived Zinc doped Graphene Nanosheets for High Performance Supercapacitors,"	Online International Conference on Energy and Environmental Materials (INCEEM)	29-31st July, 2021.
Gaurav Tatrari, Nirvik Sahoo, Chetna Tewari, Manoj Karakoti, Anirban Dandapat	"Waste Plastic Derived Graphene/ Vanadium Pentaoxide Composite for High Performance Supercapacitor Applications"	4th Online International Conference on Science & Engineering of Materials (ICSEM- 2021),	19th-22nd July, 2021.
Monika Matiyani, <b>N.G. Sahoo</b> Monika Matiyani,	"An Approach Towards Fabrication of Smart and Well Organized Multi- Functionalized Graphene Oxide based Nanocarrier for Anticancer Drug Quercetin: An in-vitro Study" "Dendrimer functionalized	International Conference on Science & Engineering of Materials (ICSEM- 2021), Kirori Mal College,	29th-31st July 2021. 27-28th

A. Rana, <b>N.G.</b> Sahoo	Nanocarrier for pH-responsive delivery of Anticancer Drug Quercetin: A remedy for breast cancer"	New Delhi, India, 2021	September 2021.
Anita Rana, M. Matiyani, <b>N.G.</b> Sahoo	"Functionalized Graphene Oxide based nanocarrier for enhanced cytotoxicity of Juniperus squamata essential oil against breast cancer cells";	Kirori Mal College, New Delhi, India, 2021	27-28th September 2021.
Bhashkar Singh Bohra, Neema Pandey, <b>Nanda</b> Gopal Sahoo	"Effect of functionalized graphene oxide on the mechanical and thermal properties of polymer nanocomposites"	National Conference on Advanced Materials and Applications (NCAMA-2021),	25th-26st November 2021.
Manoj Karakoti, Nanda Gopal Sahoo	"Generation of circular economy through conversion of solid waste into carbon nanomaterials and their application in supercapacitor"	2 <sup>nd</sup> Australian Circular Economy Conference (ACEC),	7th -11th December 2020.
Manoj Karakoti, Nanda Gopal Sahoo	"Activated Carbon and Waste Plastics Derived Graphene Nanosheets Composite for High Performance Supercapacitor Application"; Functional Nanomaterials in Industrial & Clinical Applications.	Academic-Industry- Clinician Meet, UCLan, Preston, UK	14 <sup>th</sup> - 16 <sup>th</sup> July 2020
Himani Tiwari, Chetna Tewari, <b>Nanda Gopal</b> Sahoo	"Blue Photoluminescent Potassium-Doped Graphene	2ndInternationalSymposiumonFunctionalNanomaterialsinIndustrial Applications	15 July 2020
Chetna Tewari, Nanda Gopal Sahoo	"Waste generated 2D carbon nanomaterial for water purification and bio-imaging applications"	2ndInternationalSymposiumonFunctionalNanomaterialsinIndustrial Applications:	15 July 2020
Chetna Tewari, Nanda Gopal Sahoo	"Green approach to develop metal doped graphene oxide from agriculture waste for bio- imaging and heavy metal sensing in water"	Fifth International Online Conference on Reuse and Recycling of Materials (ICRM – 2020)	11th-13th December 2020.
Chetna Tewari, Nanda Gopal Sahoo	"Waste Generated 2D Nanomaterial Graphene Oxide for Water Purification Application"	14th Uttarakhand and State Science and Technology congress (14th USSTC), Dehradun, Uttarakhand, India.	2020

Sandeep Pandey, Nanda Gopal Sahoo	"Environmentally Friendly and Sustainable Synthesis of Carbon nanomaterials from Solid waste materials for Solar cell and Supercapacitor Applications"; Functional Nanomaterials in Industrial & Clinical Applications,	Academic-Industry Clinician Meet	14th to 16th July 2020
Sandeep Pandey, Manoj Karakoti, Sunil Dhali, Chetna Tewari, Gaurav Tatrari, Nanda Gopal Sahoo	"Innovation and Implementation of Value- Added Products from Solid Waste Materials for the Sustainable Growth of	14 <sup>th</sup> Uttarakhand State Science and Technology Congress 2019-20, Dehradun, Uttarakhand, India.	27-29 Feb 2020
Gaurav Tatrari, <b>N.G. Sahoo</b>	Agriculture waste derived Graphene Nanosheets for New Generation Supercapacitors and Concrete Materials"; Functional Nanomaterials in Industrial & Clinical Applications:,	Academic-Industry Clinician Meet	14th to 16th July 2020
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Gaurav Tatrari, <b>N.G. Sahoo</b>	"Green approach to develop metal doped graphene oxide from agriculture waste for bio- imaging and heavy metal sensing in water"	FifthInternationalOnlineConferenceonReuseandRecyclingofMaterials(ICRM–2020)	11-13 December 2020.
Gaurav Tatrari, Nanda Gopal Sahoo	"Remediation of Agricultural waste into Graphene nanosheets for advanced Supercapacitor application"	Fifth International Online Conference on Reuse and Recycling of Materials (ICRM – 2020)	11-13 December 2020.
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Mayank Pathak, Gaurav Tatrari, Nanda Gopal Sahoo	"Green Synthesis of Highly Efficient and Doped Graphene Nanosheets By Using Waste Plastic and Cow Urine for	2ndInternationalConference on Energy,FunctionalMaterialsand Nanotechnology &	2019

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Pawan Singh	"Development of electric	Management (ICEFN&SEM), ; 2nd International	2019
PawanShighDhapola,NandaGopalSahoo,Pramod K. Singh,Meenal Gupta, B.Bhattacharya	double layer capacitor (EDLC) based on cobalt enriched porous carbon electrod and ionic liquid electrolyte"	Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environment Management (ICEFN&SEM),	2019
Chetna Tewari, Neema Pandey, Nanda Gopal Sahoo	"Waste Plastic Generated Graphene for Removal of Heavy Metals: A Revolutionary Material for Water Purification"	2nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environment Management (ICEFN&SEM),	2019
Neha Karki, Nanda Gopal Sahoo	"Biocompatible and Hydrophilic Polymer Functionalized Graphene Oxide Mediated Drug Delivery"	2nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environment Management (ICEFN&SEM),	2019
Neema Pandey, S. P. S. Mehta, Nanda Gopal Sahoo		2nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environment Management (ICEFN&SEM),	2019
Prabhat Pant, Chetna Tewari, Nanda Gopal Sahoo	"Synthesis and Characterization of Graphene Oxide	2nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environment Management (ICEFN&SEM),	2019
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		Management (ICEFN&SEM),	
Seema, Ganga Bisht, <b>Nanda</b> Gopal Sahoo	"Development of Nanoparticles of Aromatic Anticancer Drug By Spray Dryer to Enhance Dissolution Rate";	2nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environment Management (ICEFN&SEM),	2019
Monika Matiyani, Nanda Gopal Sahoo	"Chitosan Nanoparticles Grafted Graphene Oxide for Drug Delivery Applications	2nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environment Management (ICEFN&SEM),	2019
SunilDhali,SandeepPandey,ManojKarakoti,S.P.S.Mehta,NandaGopalSahooSahoo	"Low temperature Graphene Oxide supported Pd-Ru efficient Novel Metal Catalyst for Proton Exchange Membrane Fuel Cells"	2nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environment Management (ICEFN&SEM),	2019
Gaurav Tatrari, Mayank Pathak, <b>Nanda Gopal</b> Sahoo	"Agriculture Waste Derived MWCNT for Low Cost Energy Storage Devices: A Revolutionary Paradigm for Universal Energy Crisis"	2nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environment Management (ICEFN&SEM),	2019
Bhashkar Singh Bohra, <b>Nanda</b> Gopal Sahoo	"Graphene Oxide Based Polymer Nanocomposite For Structural Applications"	2nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environment Management (ICEFN&SEM),	2019
Ganesh Chandra, Sandeep Pandey, Nanda Gopal Sahoo	"Development of the new routes of fabrication for Graphene Based Dye Sensitized Solar Cells";	2nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environment Management (ICEFN&SEM),	2019

Kuldeep K. Garg, Sandeep Pandey, Amit Kumar, Nanda Gopal Sahoo, Rajiv K. Singh Sandeep Pandey, Manoj Karakoti, Sunil Dhali, Nanda Gopal Sahoo	<ul> <li>"Graphene Based Organic Thermoelectric Composites Material for Energy Harvesting Applications";</li> <li>"Thin Film Preparation of Carbon Nano Materials via Solvent-Antisolvent Technique for Optoelectronic Applications"</li> </ul>	2ndInternationalConference on Energy,FunctionalMaterialsand Nanotechnology &SustainableEnvironmentManagement(ICEFN&SEM),2nd2ndInternationalConference on Energy,FunctionalManotechnology &SustainableEnvironment	2019 2019
Himani Tiwari, Ganga Bisht, <b>Nanda Gopal</b> <b>Sahoo</b>	"Functionalized Graphene Oxide as a nanovehicle for the delivery of Cocktailed Drug System"	Management (ICEFN&SEM), 2nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environment Management (ICEFN&SEM),	2019
Sandeep Pandey, Manoj Karakoti, Sunil Dhali, Chetna Tiwari, Nanda Gopal Sahoo	"Remediation of Soild Plastic waste into value added synthesis of Graphene Nano Flakes: An Invincible Method of Solid Waste Management for Better Tomorrow".	International conference on Nanotechnology; Ideas, Innovations and Initiatives-2017,	6th- 8December, 2017.
Sunil Dhali, Sandeep, Manoj Karakoti, SPS Mehta, <b>Nanda</b> <b>Gopal Sahoo</b>	"Development of graphene	International conference on Study of Nanometrials and Scientific Development in 21st Century (ICSNSDC),	Nov. 3-5, 2017,
Seema, Himani Tiwari, Ganga Bisht, <b>Nanda</b> Gopal Sahoo	"Fabrication and Characterization of Curcuminoid Nanoparticles".,	8th Conference of TheIndianScienceCongressAssociation(HaridwarChapter)Nainital	14th-15th October, 2017
S. Dhali, V.D. Punetha, M. Karakoti, Sandeep,S. P.S. Mehta, <b>N. G.</b> Sahoo	"Nitrogen Doped Graphene For Enhanced Catalytic Activity In Fuel Cell", Fabrication of drug nanoparticles for pharmaceutical applications, ,	UCOST, Dehradun, Uttarakhand	2-4th March, 2017
Seema,	Fabrication of drug	UCOST, Dehradun,	March 2-4,

V.D.Punetha, G. Bisht, N. G. Sahoo	nanoparticles for pharmaceutical applications	Uttarakhand	2017,.
H. Tiwari, Neha, V.D.Punetha, G. Bisht, N. G. Sahoo	Functionalized graphene oxide as a nano carrier for efficient drug delivery	UCOST, Dehradun, Uttarakhand	March 2-4, 2017
Manoj Karakoti, Pushkar Dutt, Sandeep, Neema Pandey, Sunil Dhali, <b>Nanda</b> <b>Gopal Sahoo</b>	Polymer nanocomposite for energy application, NEW- 2017,	UPES, Dehradun	22-24 th Feb
Sandeep, M. Karakoti, V.D. Punetha, <b>N.G.</b> Sahoo	"Synthesis of 2D nanomaterials for energy applications",	IWCCMP-2016, ABV- IIITM, Gwalior,	18-20th Nov2016.
S. Dhali, V.D. Punetha, S.P.S. Mehta, <b>N.G.</b> Sahoo	"Synthesis of graphene and CNT hybrids for fuel cell applications",	IWCCMP-2016,	18-20th Nov2016
M. Karakoti, Sandeep, <b>N.G.</b> Sahoo	"Synthesis of graphene from waste plastic",	ICMAMN-2016,	25-27th Nov2016.
Neha, H. Tiwari, V. D. Punetha, <b>N.G. Sahoo</b>	"Graphene oxide as a nano carrier for drug delivery application",	ICMAMN-2016,	25-27th Nov2016
P. S. Dhapola, B. Bhattacharya, P. K Singh, N. G. Sahoo	"Comparative studies on Polyethylene oxide Doped Sodium Iodide (PEO:NaI) and Ionic Liquid (1-Ethyl-3- Methylimidazolium) Doped (PEO:NaI) Solid Polymer Electrolyte", ,	ICFM 22016	7-10th September 2016.
James T. McLeskey, Jr., N. G. Sahoo, V. D. Punetha, Richard J Esteves, D. Pestov, I. U. Arachchige	"Towards Photovoltaics from Germanane",	UNC SERC Conference 2016,	2016.
Sandeep, Manoj Karakoti, V. D. Punehta, N. G. Sahoo	Synthesis of 2-Dimensional carbon nanomaterials from waste plastic",	19thInternationalconferenceofinternationalacademyof physical sciences &symposiumonpointtheoryanddynamicalsystems(CONIAPSXIX),2016.	2016.

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Karakoti, V. D. Punehta, N. G. Sahoo	Smart Synthesis of 2-D Carbon nanomaterials Along with the Production of High Value Added Fuel'', India.	Festival 2016 (IISF)	2016,
V. D. Punetha, Ganga Bisht, V. K. Gangari, <b>N. G.</b> Sahoo	"PVA functionalized graphene oxide as a nanocarrier of	ICEFN 2016,	March 27- 29,
P. S. Dhapola, Manoj Karakoti, Sandeep, Sunil Dhali, Bhaskar Bhattacharya, P. K. Singh, <b>N. G.</b> Sahoo	"Solid polymer electrolyte: a novel approach towards dye sensitized solar cells (DSSC)",	ICEFN 2016,	March 27-29
S. Dhali, P. Joshi, N. Pandey, P.S. Dhapola. S.P.S. Mehta, <b>N.G.</b> Sahoo	"Synthesis of graphene oxide and its applications".	ICEFN 2016,	March 27- 29.
Neha, Meena Kafaltiya, V. D. Punetha, M. K. Devrani, Himani Tiwari, Seema, Ganga Bisht, <b>N.</b> <b>G. Sahoo</b>	"Cultivation of Hedychium spicatum on Zn amended soil: A phytoremedial aspect",	ICEFN 2016,	March 27- 29.
V. D. Punetha, N. G. Sahoo	"Advance Nanomaterial Based Anticancer Drug Delivery, National Workshop on advancement in material science and physics",	WAMP 2015,	November 2015.
N. G. Sahoo, James T. McLeskey, Jr	"Development of Graphene Based Materials for Energy Conversion",	"Energy Materials Nanotechnology (EMN international conference)",	Nov. 22-25, 2014
N.G. Sahoo, T. Warintorn,C.B. He, W. Mian	Graphene based polymer nanocomposites,	15 ACC Conference, Singapore,	August 19- 23, 2013
Jilei LIU, <b>N.G.</b> <b>Sahoo</b> , Zexiang SHEN, Jianyi LIN	A Green Approach to the Synthesis of High-quality Graphene Oxide Flakes Via Electrochemical Exfoliation of Pencil Core, ,	ICMAT 2013	June 30 to July 5,
M. Kakran, N.G. Sahoo	"Functionalized Graphene Oxide for Loading and Delivery of Poorly Water-	"Materials for Tomorrow",	Dec 6-7, 2012.

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N.G. Sahoo, M.	"Preparation of composite	CHEMECA 2011	Sep. 18-21,
Kakran, L. Lin, Z.	microparticles for dissolution		2011
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R.H. Mullar	Precipitation techniques for		
	Production of Quercetin		
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M. Kakran, R.	Production Optimization of	AAPS Annual Meeting	, October
Shegokar, L. Al	Antioxidant Quercetin	and Exposition,	23–27,
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Sahoo, L. Li,			
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Shaal,M.Kakran,	improved oral bioavailability		2010
L. Lin, R.H.	in malaria treatment",		
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L. Lin, Z. Judeh	solubility using a modified 4-		
H.K.F.	fluid nozzle pilot spray drier",.	36 <sup>th</sup> International	July 13-16,
Cheng, N.G.	"An innovative approach for the fabrication of highly	MATADOR	July 13-16, 2010
Sahoo, L. Li, S.H.	the fabrication of highly conductive nanocomposites	Conference 2010,.	2010
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N.G. Sahoo and	"Self-Reinforcing Composites	Asia Rub Tech Expo-	Nov2002.
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N.G. Sahoo, S.	"Effect of E/P Ratio on Self-	ICMAT-2001,	2001
Chakraborty and	Reinforcing Character of LCP	Singapore	
C.K. Das	in EPDM/LCP Composite",.		
N.G. Sahoo, K.B.	"Nano Polyolefins Composites	France-2001	Sept2001.

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Pramanik and	Polymers in the Third		
C.K. Das	Millenium- Montpellier,		
S.	Self-Reinforcing Elastomer	PAT-2001, Eilat, Israel,	Sept2001.
Chakraborty, N.G.	Composite Based on EPDM		
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Das			
N.G. Sahoo, K.	"Dynamic Failure and Related	ICEM-15, Durban	Sept2000,.
N. Pandey, G.N.	Morphology for Self-		
Mathur and C.K.	Reinforced Composites with		
Das	the Help of SEM"		

# **Projects (add row if required)**

Title of the Project	Funding Agency	Amount (Rs)	Year
PAVITRAM: Purification and	GBPNIHESD,	1,905,00,000	April 2023 to March
Valorization through	NMHS, Kosi-		2026
Indigenous Tailoring of Raw	Katarmal,		
Polymeric waste into	MoEF&CC		
Advanced Multidimensional			
Carbon Nano Materials for			
Large Scale Energy Storage			
applications including			
Supercapacitors and Batteries			
Scalable Synthesis of Graphene	NRDC, Govt. of	10,00,000	March 2023 to
and its Derivatives from Rice	India		March 2024
Straw Waste and their			
Applications in Energy Storage			
and Water Purification			
AMRITAM: A	GBPNIHESD,	3,50,00,000	Nov. 2019 to Oct.
Multidimensional Remediation	NMHS, Kosi-		2022
and Innovative Tailoring of	Katarmal,		
Materialistic Waste: An	MoEF&CC and		
Innovative Approach for the	Municipal of		
Collection, Segregation and	Nainital		
Upcycling of Solid Waste			
Valorization of Refinery	BPCL India	43,02,000	August 2021 to July
asphaltenic Residue: An			2023
Innovative Upcycling of			
petroleum asphalt into Carbon			
Nanomaterials			
Smart Synthesis of Carbon	GBPNIHESD,	2,24,00,000	April 2016 to March
Nanomaterial Along With the	NMHS, Kosi-		2020
Production of High Value	Katarmal,		
Added Fuel and Additives for	MoEF&CC		
the Concrete Mixture from			
WASTE PLASTIC			
Establishment of Nanoscience	MPLAD Fund	50,00,000	2015-2016

and Nanotechnology Centre @	(Hon'ble M.P.		
Kumaun University	Tarun Vijay),		
	Uttarakhand		
Micro- and Nano-particle	NTU, Singapore	1,79,790.19	2009-2011
Design for Pharmaceutical			
Drug Preparation and Delivery			
Applications			
Simulation of Composite	SERC, A*STAR,	2,18,217.00	2013-2014
Material Moisture Exposure	Singapore		
Using Elevated Temperature			

## Teaching details (add row if required)

Name of the course/paper	Department	University	Year
Ph.D. Coursework	Kumaun University	Kumaun University	2019
M.Sc. (Physical	Department of	Kumaun University	July 2013-
Chemistry)	Chemistry		Present
B.Sc. (Physical	Department of	Kumaun University	July 2013-
Chemistry)	Chemistry		Present

# Professional Memberships (add row if required)

Organization	Position	Year
Chemical Research Society of India (CRSI)	Life Member	Since March 2024
Materials Research Society of India (MRSI)	Life Member	Since July 2023
The Society for Polymer Science, India	Life Member	Since July 2023
Fellow of Royal Society of Chemistry (FRSC)	Life Member	Since 2020
Association of Institute of Fundamental and Frontier Sciences (IFFS),	Member	2020-2021.
The Korean Fiber Society, South Korea	Member	2005-2006
Royal Society of Chemistry	Member	2012-2013

#### **Honours and Awards**

Award	Awarding Organization	Year
MRSI Medel 2023	Materials Research Society of India	2023
Prof. K.S. Valdiya Research	Kumaun University, Nainital	2023
Award for Research Articles		
Prof. D.D. Pant Research Kumaun University Nainital		2023
Award for Patents		
Prof. Y.P.Pangti Award for	Kumaun University Nainital	2023
Book Publication		
J.C. BOSE Memorial Award,	IIT Roorkee	2023
BioHeal 2023		

World's Top 2 % Most Influential Scientist 2023	Stanford University, USA	2023
Brand Ambassador, Swach Survekshan, Nainital	Swach Survekshan, Nainital	2022
Prof. D.D. Pant Research Award for Patents	Kumaun University, Nainital	2022
Prof. K.S. Valdiya Research Award for Research Articles	Kumaun University, Nainital	2022
Excellence in Research of the Year 2021	Uttarakhand	2021
Chief Guest: 'Azadi Ka Amrit Mahotsav' on the theme 'One week for Nation – Green Campus, Green Home	Kurukshetra University	2021
Fellow of Royal Society of Chemistry (FRSC)	Fellow of Royal Society of Chemistry (FRSC)	Since 2020
World's Top 2 % Scientist 2020 in Polymer, Nanoscience Category.	Stanford University, USA) in Polymer, Nanoscience Category.	2020
Uttarakhand Ratan Award	Govt of Uttarakhand	2019
Brand Ambassador: Bentham Science Publisher	Bentham Science Publisher India	2019-2020
8 <sup>th</sup> National Awards for Technology Innovation from Ministry of Chemicals and Fertilizers, Department of Chemicals and Petrochemicals	Govt. of India	2018
Uttarakhand Governor Award for best research	Govt of Uttarakhand	2017
<b>BASE Fellowship,</b> Department of Science and Technology, Govt. of India, and the Indo-U.S. Science and Technology Forum ( <b>IUSSTF</b>	IUSSTF	2014
LeeKuanYew(LKY)Fellowship2008(MostprestigiousfellowshipinSingapore	Lee Kuan Yew (LKY) Singapore	2008

# **Conference Presentations (add row if required)**

Title of presentation	Conference name	Name of the	Year
		institution	
Conversion of Solid Waste into	International	Siddharth	2024
Two Dimensional Carbon	Conference on	University, UP,	
Nanomaterials and Their	Sustainable and	India	

Applications	Innovative Materials for Modern Life (ICSMML-2024)		
Waste to Wealth: A Green Approach to the Conversion of Solid Waste into Value-Added Products and Their Applications	International Conference on Nanomaterials and Devices for Energy and Environment (CANDEE-2023)	IIITM, Gwalior, India	2023
Upcycling of Solid Waste Materials into Carbon Nanomaterials for Various Applications	An International conference on BioHeal-2023 (Biomaterials and Health Care 2023)	Rishikesh, INDIA	2023
Upcycling of Solid Waste into Smart Futuristic Multifunctional Materials: A Trash to Treasure Approach	Environmental Challenges for Sustainable Development	S.L.P. Govt. College Morar, Gwalior, India	2022

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Signature of the faculty member