

Nanda Gopal Sahoo, Ph.D.

Professor

Email : ngsahoo@yahoo.co.in, ngsahoo@kunainital.ac.in

Address : Department of Chemistry

In-Charge

Nanoscience and Nanotechnology Centre

Kumaun University

D.S.B. Campus, Nainital-263002

India



Phone : (+91) 9456730659 (HP)(India)

Website : www.ngsahooresearchgroup.in

CAREER OBJECTIVE:

- The success of my research is my pleasure.
- To get a leading role in my research area is my ambition.

SUMMARY OF ACHIEVEMENTS:

- **Professor:** Dept. of Chemistry, Kumaun University, D.S.B. Campus, Nainital (Since July 2016).
- **Associate Professor:** Dept. of Chemistry, Kumaun University, D.S.B. Campus, Nainital (July 2013-July 2016).
- **8th 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, 2017.**
- **Uttarakhand Ratan Award 2019.**
- **Technology Transfer:** We have transferred technology for synthesizing “Graphene from waste plastics” to HeXorp PVT. Ltd, India through NRDC, Govt. of India, 2019.
- **Brand Ambassador: Bentham Science Publisher, 2019-2020, India**
- **BASE Fellowship**, Department of Science and Technology, Govt. of India, and the Indo-U.S. Science and Technology Forum (IUSSTF), 2014
- **IUSSTF BASE Fellow:** Virginia Commonwealth University, Virginia, **USA**, Aug. 2014 - Jan 2015
- **Scientist:** Institute of Materials Research and Engineering (IMRE), Singapore (Sept. 2012- July 2013)
- **Scientist: Energy Research Institute, Singapore** (Aug. 2011-Aug. 2012)
- **Lee Kuan Fellow:** Nanyang Technological University (Aug. 2008-July 2011)
- **Postdoctoral Research Fellow:** Nanyang Technological University (July 2006-July 2008)
- **Postdoctoral Research Fellow:** Konkuk University, South Korea (Jan. 2005-July 2006)
- **Lee Kuan Yew Fellowship** (Most prestigious fellowship in Singapore), Singapore (Aug.2008- July 2011)
- Author of **92** international journal publications (max **IF: 25.8**), **8** patents, **5** book chapters, and **86** conference papers and reviewer of more than **25** international journals with total citations of **7050** (Google Scholar) and *h* index of **35**.
- **Best Poster Awards (12):** UCOST 2020, Uttarakhand; ICEFN&SEM 2019, Kumaun University; ICAN-2019, IITM, Gwalior; IGWMWE-2019, CSIR- Central Salt & Marine Chemical Research Institute, Gujrat; NSEMD-2018, Gujrat; UCOST 2018 & 2019, Uttarakhand; IWCCMP-2016, Gwalior, 2016; National Workshop on advancement in

material science and physics, Manipal University, Jaipur, 2015.

- **Innovator of the year 2020 to my Student:** UCOST 2020, Uttarakhand.
- **Convener:** ICEFN 2016, March 27-29, ICEFN&SEM 2019, Kumaun University, Nainital
- **Visiting Scientist:** Free University of Berlin, Berlin, Germany, Dec 2009
- **Visiting Scientist:** Konkuk University, Seoul, South Korea, Jan 2013
- **Invited Speaker:** World Environment Day, **Vigyan Bhaban**, New Delhi, June 1-5, 2018, Invited by **Ministry of Environment, Forest and Climate Change, Govt. of India;** DIBER, DRDO, Haldwani, June 5, 2018.
- **Invited Speaker:** International Conference on Science and Engineering of Materials (ICSEM 2018), Sharda University, Greater Noida, 6th-8th January, 2018, International Conference on Nano for Energy and Water (NEW) 2017 & Indo-French Workshop on Water Networking, UPES, Dehradun, 2017; ICAMP-2017, Mahatma Gandhi University, Kottayam, Kerala, 2017; IWCCMP-2016, Gwalior, 2016; 2nd Molecular Materials Meeting (M3) @ Singapore, Jan. 2012; National Workshop on advancement in material science and physics, Manipal University, Jaipur, 2015.
- **Editor-in-Chief:** Journal of Advances in Medicine Science
- **Editorial Board:** American Journal of Renewable and Sustainable Energy, American Journal of Quantum Chemistry and Molecular Spectroscopy, Journal of Chemistry & Applied Biochemistry, Journal of Chemical Engineering and Chemistry Research, Mediterranean Journal of Physics, International Journal of Anti-Cancer Nano Drugs Delivery and Synchrotron Radiations (IJACNDDSR), Journal of Chemical Science and Engineering, SM Journal of Environmental Chemical Engineering, SF Journal of Biotechnology and Biomedical Engineering.
- **Guest Editor:** International Journal of Polymer Science, Journal of Spectroscopy
- **Researcher** with more than 16 years of international research experience

RESEARCH INTERESTS:

- Solid waste management
- Water Technology
- Supercapacitor
- Graphene based materials for fuel and solar cells applications
- Drug delivery
- High performance CNT/polymer or graphene/polymer nanocomposites
 - Conductive polymer composites for micro fuel cells
 - Functionalization of Carbon Nanotubes and graphene
 - Electroactive shape memory polymer composites for smart actuators
 - Conducting polymers
- Fabrication and Characterization of Micro/nano particles for pharmaceutical applications

EDUCATION:

- **Ph.D. 2004, Materials Science**, Indian Institute of Technology, Kharagpur, India
 - ◇ Mentor: Prof. C.K. Das, Thesis Title: “*Self-Reinforced Composites Based on Liquid Crystalline Polymer and Thermoplastic Polymers*”
- **M.Sc. 1997, Physical Chemistry**, Vidyasagar University, India.
- **B.Sc. 1994, Chemistry (Hons.)**, Vidyasagar University, India.

AWARDS & HONORS

- **8th 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, 2017.**
- **Uttarakhand Ratan Award 2019.**
- **Technology Transfer:** We have transferred technology for synthesizing “Graphene from waste plastics” to HeXorp PVT. Ltd, India through NRDC, Govt. of India, 2019.
- **Brand Ambassador: Bentham Science Publisher, 2019-2020, India**
 - **Lee Kuan Yew (LKY) Fellowship 2008** (Most prestigious fellowship in Singapore)
 - **BASE Fellowship**, Department of Science and Technology, Govt. of India, and the Indo-U.S. Science and Technology Forum (IUSSTF), 2014
 - **IUSSTF BASE Research Fellow:** Virginia Common Wealth University, Virginia, USA, Aug. 2014 - Jan 2015
 - **Visiting Scientist:** Free University of Berlin, Berlin, Germany, Dec 2009, Department of Pharmaceutics with Prof. Rainer H. Müller.
 - **Visiting Scientist:** Konkuk University, Seoul, South Korea, Jan 2013.
 - **Invited Speaker:** World Environment Day, **Vigyan Bhaban**, New Delhi, June 1-5, 2018, Invited by **Ministry of Environment, Forest and Climate Change, Govt. of India;** DIBER, DRDO, Haldwani, June 5, 2018.
 - **Invited Speaker:** International Conference on Science and Engineering of Materials (ICSEM 2018), Sharda University, Greater Noida, 6th-8th January, 2018; ICAMP-2017, Mahatma Gandhi University, Kottayam, Kerala, 2017; International Conference on Nano for Energy and Water (NEW) 2017 & Indo-French Workshop on Water Networking, UPES, Dehradun, 2017; IWCCMP-2016, Gwalior, 2016; 2nd Molecular Materials Meeting (M3) @ Singapore, Jan. 2012; National Workshop on advancement in material science and physics, Manipal University, Jaipur, 2015.
 - **Convener:** ICEFN 2016, March 27-29, ICEFN&SEM 2019, Kumaun University, Nainital
 - **Editor-in-Chief:** Journal of Advances in Medicine Science
 - **Editorial Board:** American Journal of Renewable and Sustainable Energy, American Journal of Quantum Chemistry and Molecular Spectroscopy, Journal of Chemistry & Applied Biochemistry, Journal of Chemical Engineering and Chemistry Research, Mediterranean Journal of Physics, International Journal of Anti-Cancer Nano Drugs Delivery and Synchrotron Radiations (IJACNDDSR), Journal of Chemical Science and Engineering, SM Journal of Environmental Chemical Engineering, SF Journal of Biotechnology and Biomedical Engineering.
 - **Guest Editor:** International Journal of Polymer Science, Journal of Spectroscopy.
 - **Technology Developed:** Waste plastics to graphene

RESEARCH GRANT

- **Co-Ordinator and Partnership with Municipal of Nainital:** A Multidimensional Remediation and Innovative Tailoring of Materialistic Waste (AMRITAM): An Innovative Approach for the Collection, Segregation and Upcycling of Solid Waste, Rs. `3.5 Crore, Nov. 2019-Oct 2022, GBPNIHESD, NMHS, Kosi-Katarmal, MoEF&CC.
- **Principal Investigator (PI):** "Smart Synthesis of Carbon Nanomaterial Along With the Production of High Value Added Fuel and Additives for the Concrete Mixture from WASTE PLASTIC", Rs. `2.24 Crore, April 2016-March 2020, GBPNIHESD, NMHS, Kosi-Katarmal, MoEF&CC.

- **Project Partner:** Centre for Sustainable Treatment, Reuse and Management for Efficient, Affordable and Synergistic solutions for Water (Water-IC for Sutram of Easy Water), in IIT Madras, **Nodal Indian PIs. Prof. Ligy Philip and Prof. T. Pradeep, IIT Madras**, Rs. 31.08 Lakh (For Kumaun University), 2018-2022.
- **Co-PI:** Synthesis of hierarchical mesoporous WO₃@MnO₂/3D-RGO hybrid composite for high performance supercapacitor, Rs. 17.42 lakhs, MHRD, Govt. of India, Since June 2019.
- **Co-Ordinator & PI:** "Establishment of Nanoscience and Nanotechnology Centre @ Kumaun University", Rs. 50 Lakhs, MPLAD Fund (Ho'ble M.P. Tarun Vijay), Uttarakhand, 2015-2016.
- **Principal Investigator (PI), SUG M58050000, NTU, Singapore:** "Micro- and Nano-particle Design for Pharmaceutical Drug Preparation and Delivery Applications", S\$ 179,790.19, 2009-2011, Completed.
- **Co-PI, SERC, A*STAR, Singapore:** "Simulation of Composite Material Moisture Exposure Using Elevated Temperature", S\$ 218,217.00, 2013-2014.

PROFESSIONAL EXPERIENCE

- **Professor:** Dept. of Chemistry, Kumaun University, D.S.B. Campus, Nainital (Since July 2016).
- **Associate Professor:** Dept. of Chemistry, Kumaun University, D.S.B. Campus, Nainital (July 2013-July 2016).
- **Scientist II:** Institute of Materials Research and Engineering (IMRE), Singapore (Sept. 2012-July 2013)
- **Scientist:** Energy Research Institute, Nanyang Technological University, Singapore, Aug. 2011-Aug. 2012.
- **LKY Research Fellow :** School of Mechanical and Aerospace Engineering, Nanyang Technological University, Singapore, Aug. 2008-July 2011
- **Postdoctoral Research Fellow:** School of Mechanical and Aerospace Engineering, Nanyang Technological University, Singapore, Oct. 2007-July 2008.
- **Postdoctoral Research Fellow:** School of Chemical and Biomedical Engineering, Nanyang Technological University, Singapore, July 2006-Sep 2007.
- **Postdoctoral Research Fellow:** Artificial Muscle Research Center, Konkuk University, South Korea, Jan. 2005 – July 2006.
- **Research Professional:** Dalhousie University, Canada, Jan. 2004-May 2004.
- **Consultancy Project:** IIT Kharagpur, India, "Development of very thin silicone rubber membranes having permeability for PPB level concentrations of chemical agents" Sponsored by DRDE, Gwalior, INDIA.
- **P.G. Apprentice:** "NWDPR project", Principal Agricultural Office, Paschim Medinipur, India, 1998-1999.

PH.D. STUDENTS

- **No. of Ph.D. Students at present: Total 13 (PI & Co-PI)**
- **No. of Ph.D. Student Awarded: 1 (Co-PI)**

TEACHING EXPERIENCE:

- Since July 2013

- ◇ Physical Chemistry
- ◇ Polymer Chemistry

RESEARCH EXPERIENCE

- **July 2013-till date:** *Kumaun University, India*
 - ◇ Waste management
 - ◇ Water technology
 - ◇ Supercapacitor
 - ◇ Functionalization of Graphene and CNTs
 - ◇ Fuel cell
 - ◇ Drug delivery
 - ◇ Solar cell
- **Sept'12 –July 2013 :** *IMRE, Singapore*
 - ◇ Polymer nanocomposites for marine and offshore industry
 - ◇ Functionalization of Graphene and CNTs
- **Aug'11 –Aug' 12 :** *Energy Research Institute, NTU, Singapore*
 - ◇ Development of Graphene for fuel cells
- **Aug'08 –July'11:** *School of Mech. and Aero. Eng., NTU, Singapore*
 - ◇ Micro- and nano-particle design for pharmaceutical drug preparation and delivery applications
 - ◇ Conductive polymer composites for micro fuel cells
 - ◇ Advanced CNT/polymer or graphene/polymer nanocomposites
 - ◇ Functionalization of CNTs and graphene for drug delivery applications
- **Oct'07 –July'08:** *School of Mech. and Aero. Eng., NTU, Singapore*
 - ◇ Development of higher conductive polymer composites for micro fuel cell
- **July'06 –Sep'07:** *School of Chem. and Bio. Eng., NTU, Singapore*
 - ◇ Preparation of micro and nano particles and composite particles for drug preparation and delivery applications
 - ◇ Improve the solubility and dissolution rate of poorly water soluble drug using a novel modified 4-fluid nozzle spray dryer
- **Jan'05 – July'06 :** *Artificial Muscle Research Center, Konkuk University, South Korea.*
 - ◇ Developed electroactive shape memory polyurethane composites using conducting fillers such as conducting polymers and carbon nanotubes for smart actuators.
 - ◇ Developed a new route to synthesize the polymeric carbon nanotube-polyurethane (PU) nanocomposites.
 - ◇ Dispersion and alignment of CNTs in a polymer matrix, including optimum blending, in situ polymerization, surfactants, chemical functionalization and electrospinning methods.
- **Jan'2000 – Dec'2004, Ph.D.** *Indian Institute of Technology, Kharagpur, India*
 - ◇ Self –Reinforced Composites Based on Liquid Crystalline Polymer and Thermoplastic Polymers. This work has novelty in various applications, especially in case of health

care products, packaging, electrical and electronics fields, automotive industry, aerospace industry etc.

- ◇ Developed Zn-ion coated nano silica-polyolifin and elastomer composites.
- ◇ Developed very thin (≈ 20 micron) silicon rubber membranes for defence applications.

MEMBERSHIP

- The Korean Fiber Society, South Korea. 2005-2006
- Royal Society of Chemistry, 2012- 2013

JOURNAL REVIEWER

RSC Advances, International Journal of Hydrogen Energy, Colloids and Surfaces A, Colloids and Surfaces B, Industrial Crops and Products, Chemical Physics Letters, ACS Sustainable Chemistry & Engineering, Materials Chemistry and Physics, International Journal of Pharmaceutics, International Journal of Biological Macromolecules, Powder Technology, Journal of Applied Polymer Science, Journal of Nanoscience and Nanotechnology, Synthetic Metals, Journal of Polymer Science Part B: Polymer Physics, Letters in Drug Design & Discovery, Polymer Bulletin, Journal of Electroanalytical Chemistry, Graphene, Australian Journal of Chemistry, Journal of Materials Science: Materials in Electronics, Polymer Composites, Journal of Industrial and Engineering Chemistry, Saudi Pharmaceutical Journal, Journal of Nanomaterials, Drug Research, Chemical Engineering Journal.

OTHER PERSONAL INFORMATION

- **Citizenship:** India
- **Status:** Married, Male
- **Date of birth:** 21-11-1973

PUBLICATIONS

- **Patents: 8 (Filed)**
- **Book Chapters: 5**
- **In International Journals: *Published: 92***
- **Papers Presented In International/National conferences: 86**
 - **Total Citation: 7050 (from Google Scholar)**
 - ***h* index= 35 (from Google Scholar)**

Patents

1. **N.G. Sahoo**, Sandeep, M. Karakoti, V.D. Punetha, "A process of Manufacturing Graphene", Application No. 201611016081. **Transferred the Technology to HeXorp PVT. Ltd, India through NRDC, Govt. of India, 2019.**
2. S. Basak, **N.G. Sahoo**, R. Das, Neha. "Natural Degradation Products of Promethazine Compound", Application No. 201611024795.
3. **N.G. Sahoo**, C. Tewari, S. Pande, M. Karakoti, S. Dhali, H. Tewari, G. Tatrari, A.B. Melkani, "Hydro-Solvo-Thermal Graphene Oxide Synthesis Method", Application No. 202011011434.

4. **N.G. Sahoo**, S. Pande, M. Karakoti, S. Dhali, C. Tewari, G. Tatrari, “Polyamidoamine (PAMAM) dendrimer/Zno-PEG nanoparticles (NPs)-grafted reduced graphene oxide based face mask and fabrication process thereof”, Application No. 202011017344.
5. Manoj Karakoti, Sandeep Pandey, Sunil Dhali, Chetna Tewari, Anurag Srivastava, Reena Srivastava, **NG Sahoo**, “Highly Efficient Graphene-Soap Based Spray Paints for the Efficient Killing Of Corona viruses and preparation process thereof”, Application No. 202011018342.
6. **N G Sahoo**, 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”, Application No-202011019296
7. Sandeep Pandey, Manoj Karakoti, Sunil Dhali, Neha Karki, **Nanda Gopal Sahoo** “Cotton Based Scalable Green Synthesis of Graphene Nanofibers”, Application No-202011017974.
8. Sandeep Pandey, Manoj Karakoti, Sunil Dhali, Neha Karki, and **Nanda Gopal Sahoo**; “Process of preparation of naturally doped Silicon, Magnesium and Calcium Graphene nanosheets from Paper Waste for Energy Applications” Patent Application No.: 202011017973

Book Chapters

1. N Karki, A Rana, H Tiwari, P Negi, NG Sahoo, Theranostics Application of Graphene-Based Materials in Cancer Imaging, Targeting and Treatment, IntechOpen, Tumor Progression and Metastasis, 2020.
2. M. Karakoti, Sandeep, S. Dhali, S. Rana, S. R. V. Siva Prasanna, S.P.S. Mehta, N. G. Sahoo*, “Surface Modification of Carbon Based Nanomaterials for Polymer Nanocomposites”, A. F. Ismail and G. P. Sean, Edn. “Carbon-based Polymer Nanocomposites for Environmental and Energy Applications” Elsevier, In press
3. **N.G. Sahoo**, S. Rana, J.W. Cho, L. Li, “Functionalization of CNTs and Application to Polymer Nanocomposites”, K.P. Lee, A. Gopal, F.D.S. Marquis Edn., “Functional Composites of Carbon Nanotubes and Applications”, Transworld Research Network, Kerala, India, 2009, 1-21.
4. **N.G. Sahoo**, L. Li. “Carbon Nanotube Reinforced Polymer Composites for Aerospace Application”. S. Zhang, D. Zhao Edn., “Aerospace Materials Handbook”, Taylor and Francis Group, LLC, 2012.
5. A. Chaurasia, **N.G. Sahoo***, M. Wang, C.B. He, V. T. Mogal, “Fundamentals of Polymers Engineering”, A. Y.-C. Nee, Edn., Handbook of Manufacturing Engineering and Technology, Springer, In Press, 2014.

In International Journals

Published

In 2020:

1. S Pandey, M Karakoti, N Chaudhary, S Gupta, A Kumar, S Dhali, A Patra, R. K Singh, **N. G. Sahoo***, “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** **20 (6), 3888-3895, 2020.**

2. H Ahuja, PS Dhapola, **NG Sahoo**, V Singh, PK Singh, Ionic liquid (1-hexyl-3-methylimidazolium iodide)-incorporated biopolymer electrolyte for efficient supercapacitor, **High Performance Polymers**, 2020.
3. M Karakoti, R Jangra, S Pandey, PS Dhapola, S Dhali, S Mahendia, P K Singh, **N.G. Sahoo***, “Binder-free reduced graphene oxide as electrode material for efficient supercapacitor with aqueous and polymer electrolytes”, **High Performance Polymers 32 (2)**, 175-182.

In 2019:

4. S Pandey, M Karakoti, S Dhali, N Karki, B SanthiBhushan, C Tewari, S. Rana, A. Srivastava, A.B. Melkani, N. G. Sahoo* “Bulk synthesis of graphene nanosheets from plastic waste: An invincible method of solid waste management for better tomorrow”, **Waste Management**, 88, 48-55, 2019, (I.F.~ 5.4).
5. C Tewari, G Tatrari, M Karakoti, S Pandey, M Pal, S Rana, B SanthiBhushan, A.B. Melkani, A. Srivastava, N. G. Sahoo* 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* 104, 109970, (I.F.~ 4.9).
6. S Dhali, M Karakoti, S Pandey, B SanthiBhushan, R.K. Verma, A. Srivastava, R. Bal, S.P.S. Mehta, N. G. Sahoo*, “Graphene oxide supported Pd-Fe nanohybrid as an efficient electrocatalyst for proton exchange membrane fuel cells”, **Int. J. Hydrogen Eng.**, 2019, I.F.~ 4.05).
7. H Tiwari, N Karki, M Pal, S Basak, RK Verma, R Bal, ND Kandpal, G Bisht, N. G. Sahoo*, “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**, 2018, 169, 265-272 (I.F.~ 3.99).
8. NS Bisht, D Pancholi, NG Sahoo, AB Melkani, SPS Mehta, A Dandapat, “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 & Technology**, 2019, 9 (15), 3923-3932 (I.F.~ 5.7).
9. N Pandey, C Tewari, S Dhali, BS Bohra, S Rana, SPS Mehta, S Singhal, Alok Chaurasia, Nanda Gopal Sahoo* “Effect of graphene oxide on the mechanical and thermal properties of graphene oxide/hytrel nanocomposites” *Journal of Thermoplastic Composite Materials*, 0892705719838010 (I.F.~ 1.13).

In 2018:

10. Sandeep , S. R. V. Siva Prasanna, M. Karakoti, C. Tewari, B. S. Bhushan, J. K. Pandey A. Srivastava, S. Rana, N. G. Sahoo*, “Dispersion and Stability Study of Carbon Nanotubes in pH and Temperature Responsive Polymeric Matrix: Experiment and Dispersion-corrected DFT Study”, **Materials Today Communications.**, 7, 187-193, 2018, (I.F.~ 1.85).

11. N. Karki, H. Tiwari , M. Pal , A. Chaurasiya , R. R. Bal , P. Joshi , **N. G. Sahoo***; “ Functionalization of graphene oxides with polyvinylpyrrolidone and β - cyclodextrin for drug loading, release and delivery of poorly water soluble anticancer drug: A comparative study; **Colloids and Surfaces B: Biointerfaces**, 2018, 169, 265-272 (**I.F.~ 3.99**).
12. A Rana, A Kumar, MW Rahman, N Vashistha, KK Garg, S Pandey, N G Sahoo, S Chand, R K Singh ‘Non-approximated series resistance evaluation by considering high ideality factor in organic solar cell’, **AIP Advances**, 8 (12), 125121, 2018. (**I.F.~ 1.57**).
13. S. Dey, S. Shah, M. Ghosh, N. Karki, S. Basak*, **N. G. Sahoo ***, “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**, 14, 2018 DOI : 10.2174/1573411014666171206152945, (**I.F.= 1.24**).
14. P. S. Dhapola, P. K. Singh, B. Bhattacharya, K. Surana, R.M. Mehra, M. Gupta, A. Singh, V. Singh, N. G. Sahoo*, “Electrical, thermal, and dielectric studies of ionic liquid-based polymer electrolyte for photoelectrochemical device”, **High Performance Polymers**, 1-7, 2018. (**I.F.~ 1.04**).

In 2017:

15. V. D. Punethaa, S. Rana, H.J. Yoo, A. Chaurasia, M. S. Ramasamy, **N.G. Sahoo***, J.W Cho * "Functionalization of carbon nanomaterials for advanced polymer nanocomposites: A comparison study between CNT and graphene". **Progress in Polymer Sciences**, 2017, 67, 1-47, (**I.F. 24.5**).
16. S. Basak, S. Mondal, S. Dey, P. Bhattacharya, A. Saha, V. D. Punetha, A. Abbas*, **N. G. Sahoo***, “Fabrication of β -cyclodextrin-mediated single bimolecular inclusion complex: characterization, molecular docking, in-vitro release and bioavailability studies for gefitinib and simvastatin conjugate” **Journal of Pharmacy and Pharmacology**, 69, 1304–1317, 2017, (**I.F. 2.40**).
17. S. Basak*, N. G. Sahoo *, A. K. Pavanasam, “Genome mining, in silico validation and phase selection of a novel aldo-keto reductase from *Candida glabrata* for biotransformation”, **Bioengineered**, 2017, (**I.F. 1.54**).
18. S. Basak, S.K. Ghosh, V.D. Punetha, A. N. Aphale, P.K. Patra, **N.G. Sahoo***, "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**, 95, 818-825, 2017, (**I.F.= 3.9**).

In 2016:

19. **N.G. Sahoo**, R. J Esteves, V. D. Punetha, D. Pestov, I. U. Arachchige, J. T. McLeskey Jr., "Schottky diodes from 2D germanane", **Applied Physics Letters**, 109, 023507 (2016); doi: 10.1063/1.4955463 **I.F. = 3.52**.
20. VD Punetha, G Bisht, Neha, H Tiwari, A Panwar, V Pandey, N.G. Sahoo*. Chemical Screening and therapeutic potential of alcoholic bark extract of Juniperus squamata. **Journal of Chemical Engineering and Chemistry Research**, 3, 1130-1135, 2016.
21. Sandeep, M. Karakoti, S Dhali, N Pande, VD Punetha. N.G. Sahoo*. Invincible applications of conductive organic material for the development of futuristic solat photovoltaics. **Journal of Chemical Engineering and Chemistry Research**, 3, 1123-1129, 2016.

In 2014-2015:

22. S. Basak, V.D. Punetha, G. Bisht, **N.G. Sahoo***, J. W. Cho, "Recent trends of polymer-protein conjugate application in biocatalysis - a review", **Polymer Reviews**, 2015, 55 (1), 163-198, **I.F. = 6.76**
23. M. Kakran M, **N.G. Sahoo**, L. Li L. Fabrication of Nanoparticles of Silymarin, Hesperetin and Glibenclamide by Evaporative Precipitation of Nanosuspension for Fast Dissolution. **Pharm Anal Acta** 6:326. 2015, I.F. = 1.3
24. A. Chaurasia, **N.G. Sahoo**, J. T. McLeskey Jr., X. Hu, Development and Characterization of Biocompatible Fullerene [C60]/Amphiphilic Block Copolymer Nanocomposite, **Journal of Spectroscopy**, Volume 2015, Article ID 578160, I.F.=1.4
25. A. Chaurasia, **N.G. Sahoo**, J. T. McLeskey Jr., X. Hu, Enhancement in Rate of Charge-Transfer Complexation and Self-Assembly of Non-functionalized Fullerenes with Block Copolymers, **J. Chem. Eng. Chem. Res.**, 2015, 2, 855-861.

In 2013:

26. **N.G. Sahoo**, Y. Pan, L. Li, C.B. He, "Nanocomposites for Bone Tissue Regeneration", **Nanomedicine**, 8, 639-653, 2013, **I.F. = 6.50 (Category Q1)**..
27. J. Liu, C.K. Poh, D. Zhan, L. Lai, S.H. Lim, L. Wang, X. Liu, **N. G. Sahoo**, C.M. Li, Z. Shen, J. Lin, "Improved Synthesis of Graphene Flakes From the Multiple Electrochemical Exfoliation of Graphite Rod", **Nano Energy**, 2, 377-386, 2013, **I.F. = 15.54, (Category Q1)**.
28. M. Wang, D. Yuan, X. Fan, **N.G. Sahoo**, C.B. He, "Polymer nanocomposite hydrogels exhibiting both dynamic restructuring and unusual adhesive properties", **Langmuir**, 29, 7087-7095, 2013, **I.F. = 3.68 (Category Q1)**.
29. P. Kannan, T. Maiyalagan, **N.G. Sahoo**, M. Opallo, "Nitrogen doped graphene nanosheet supported platinum nanoparticles as high performance electrochemical homocysteine biosensors", **Journal of Materials Chemistry B**, 1, 4655-4666, 2013, **I.F. = 4.77**

30. M. Kakran, **N. G. Sahoo**, L. Li, Y. W. Tan, "Ternary dispersions to enhance solubility of poorly water soluble antioxidants", **Colloids and Surfaces A**, 433, 111-121, 2013, I.F. = 3.13 (**Category Q1**).
31. J. Liu, H. Yang, S.G. Zhen, C.K. Poh, A. Chaurasia, J. Luo, X. Wu, E. K. Lee, **N. G. Sahoo**,* J. Lin*, Z. Shen*, A Green Approach to the Synthesis of High-Quality Graphene Oxide Flakes via Electrochemical Exfoliation of Pencil Core, **RSC Advances**, 3, 11745-11750, 2013, **I.F. = 3.04** (**Category Q1**)
32. M. Kakran, **N. G. Sahoo**, M.N. Antipina, L. Li Modified supercritical antisolvent method with enhanced mass transfer to fabricate drug nanoparticles. **Materials Science & Engineering C. Biom. Appl.**, 33, 2864-2870, **I.F.=4.9**, (**Category Q2**).
33. M. Kakran, **N. G. Sahoo**, L. Li, Z. Judeh "Particle size reduction of poorly water soluble artemisinin via antisolvent precipitation with a syringe pump" **Powder Technology**, 237, 468-476, 2013, I.F.=3.41, (**Category Q2**)

In 2012:

34. **N.G. Sahoo**, Y. Pan, L. Li, S.W. Chan, "Graphene-based Materials for Energy Conversion", **Advanced Materials**, 24, 4203-4210, 2012, **I.F. = 25.80**, (**Category Q1**).
35. Y. Pan, **N.G. Sahoo**, L. Li, "The application of graphene oxide in drug delivery", **Expert Opinion on Drug Delivery**, 9, 1365-1376, 2012, **I.F. = 4.84**, (**Category Q1**).
36. H.K.F. Cheng, **N.G. Sahoo**, Y.P. Tan, Y. Pan, H. Bao, K. Chong, L. Li, S.H. Chan, J. Zhao, "Poly(vinyl alcohol) Nanocomposites Filled with Poly(vinyl alcohol)-grafted Graphene Oxide". **ACS Applied Materials & Interfaces**, 4, 2387-2394, 2012, , **I.F. = 8.45**, (**Category Q1**)
37. L. Lai, H. Yang, L. Wang, **N.G. Sahoo**, Q.X. Tam, J. Liu, C.K. Poh, Z. Wang, Z. Shen, J. Lin "Tuning graphene surface chemistry to prepare graphene/polypyrrole supercapacitors with improved performance", **Nano Energy**, 1, 723-731, 2012, **I.F. = 15.54**, (**Category Q1**).
38. J. Liu, L. Lai, **N.G. Sahoo***, W. Zhou, Z. Shen, S.W. Chan. Carbon Nanotube-Based Materials for Fuel Cell Applications, Invited, **Australian Journal of Chemistry**, 65, 1213-1222, 2012, I.F. = 1.06, (**Category Q2**)
39. M. Kakran, **N. G. Sahoo***, L. Li, Z. Judeh, "Fabrication of Quercetin Nanoparticles by Anti-solvent Precipitation Method for Enhanced Dissolution" **Powder Technology**, 223 59-64, I.F.=3.41, (**Category Q2**).
40. M. Kakran, **N. G. Sahoo**, I-L. Tan, L. Li, "Preparation of Nanoparticles of Poorly Water Soluble Antioxidant Curcumin by Antisolvent Precipitation Methods", **J. Nanoparticle Research**, 14, 757, 2012, I.F.= 2.02 (**Category Q1**).

41. M. Kakran, R. Shegokar, **N. G. Sahoo**, A. Shaal, L. Li, R. H. Müller, “: Fabrication of quercetin nanocrystals: Comparison of different methods”, **European Journal of Pharmaceutics and Biopharmaceutics**, 80, 113-121, 2012, **I.F.=4.24** (Category Q1).
42. M. Kakran, R. Shegokar, **N. G. Sahoo**, S. Gohla, L. Li, R. H. Müller “Long term stability of quercetin nanocrystals prepared by different methods. **Journal of Pharmacy & Pharmacology**, 64, 1394-1402, 2012. I.F.=2.40, (Category Q3).
43. H.K.F. Cheng, T. Basu, **N.G. Sahoo***, L. Li, S.H. Chan. “Current Advances in the Carbon Nanotube/Thermotropic Main-chained Liquid Crystalline Polymer Nanocomposites and Their Blends”, **Polymers**, 4, 889-912, 2012, I.F.= 3.16, (Category Q2).
44. H.K.F. Cheng, Y. Pan, **N.G. Sahoo**, K. Chong, L. Li, S.H. Chan, J. Zhao, “Improvement in Properties of Multiwalled Carbon Nanotube/Polypropylene Nanocomposites Through Homogeneous Dispersion with the Aid of Surfactants”, **Journal of Applied Polymer Science**, 124, 1117-1127, 2012, I.F.= 2.18, (Category Q2).
45. H.K.F. Cheng, **N.G. Sahoo**, L. Li, X. Lu, “Thermal Kinetics of Montmorillonite Nanoclay/Maleic Anhydride-Modified Polypropylene Nanocomposites” **Journal of Thermal Analysis and Calorimetry**, 109, 17-25, 2012, I.F.= 2.47, (Category Q3).

In 2011

46. **N.G. Sahoo**, H. Bao, Y. Pan, M. Kakran, H.K.F. Cheng, L. Li, M. Pal, T.L. Poh, “Functionalized Carbon Nanomaterials as Nanocarriers for Drug Loading and Delivery of Poorly Water Soluble Anticancer Drug: A Comparative Study”, **Chemical Communications**, 47, 5235-5237, 2011, **I.F. = 6.16**(Category Q1).
47. Y. Pan, H. Bao, **N.G. Sahoo**, T. Wu, L. Li, “Water-Soluble Poly(N -isopropylacrylamide)–Graphene Sheets Synthesized via Click Chemistry for Drug Delivery”, **Advanced Functional Materials**, 22, 2754-2763, 2011, **I.F.=15.62**, (Category Q1).
48. H. Bao, Y. Pan, Y. Ping, **N.G. Sahoo**, T. Wu, L. Li, J. Li, L.H. Gan., “Chitosan Functionalized Graphene Oxide as a Nanocarrier for Drug and Gene Delivery” **Small**, 7, 1569-1578, 2011, **I.F.=10.85** (Category Q1).
49. **N.G. Sahoo**, H.K.F. Cheng, H. Bao, Y. Pan, L. Li, S.H. Chan, “Functionalization of Carbon Nanotubes for Optimal Intermolecular Interaction with a Liquid Crystalline Polymer”, **Soft Matter**, 7, 9505-9514, 2011, **I.F.=3.39** (Category Q1).
50. M. Kakran, **N.G. Sahoo**, H. Bao, Y. Pan, L. Li, “Functionalized graphene oxide as nanocarrier for loading and delivery of ellagic acid” **Current Medicinal Chemistry**, 18, 4503-4512, 2011, **I.F.=3.46** (Category Q1).
51. **N. G. Sahoo**, M. Kakran, L. A. Shaal, L. Li, R. H. Müller, M. Pal, T.L. Poh, “Preparation and Characterization of quercetin nanocrystals”, **Journal of Pharmaceutical Sciences** 100, 2379-2390, 2011, **I.F.= 3.19** (Category Q1).

52. M. Kakran, **N.G. Sahoo**, L. Li, “Dissolution Enhancement of Quercetin through Nanofabrication, Complexation, and Solid Dispersion” **Colloid and Surface B**, 88, 121-130, 2011. **I.F.=3.99**, (Category Q2).
53. **N. G. Sahoo**, M. Kakran, L. Li, Z. Judeh, Rainer H. Müller., “Dissolution Enhancement of a Poorly Water Soluble Antimalarial Drug by Means of a Modified Multi-fluid Nozzle Pilot Spray Drier”, **Materials Science & Engineering C. Biom. Appl.**, 31, 391-399, 2011. I.F.=4.9, (Category Q2).
54. **N.G. Sahoo**, H.K.F. Cheng, H. Bao, L. Li, S.H. Chan, J. Zhao, “Nitrophenyl Functionalization of Carbon Nanotubes and its Effect on Properties of MWCNT/LCP Nanocomposites”, **Macromolecular Research**, 19, 660-667, 2011, I.F.=1.76. (Category Q1).
55. M. Kakran, **N. G. Sahoo**, L. Li, Z. Judeh, “Dissolution Enhancement of Artemisinin with β -cyclodextrin”, **Chemical & Pharmaceutical Bulletin**, 2011, 59, 646-652, I.F.= 1.03, (Category Q3).
56. S. Roy, **N.G. Sahoo**, H.K. F. Cheng, C.K. Das, L. Li, S.H. Chan, “Effect of Functionalized Carbon Nanotubes on Molecular Interaction and Properties of PEEK/LCP Blends” **Journal of Nanoscience Nanotechnology**, 10, 5242-5251, 2011, I.F.=1.35, (Category Q2).
57. M. Kakran, **N. G. Sahoo**, L. Li, Z. Judeh, P. Panda. “Dissolution Study of Drug-Polymer Composites Prepared by Evaporative Precipitation of Nanosuspension” **Journal of Biomaterials Science-Polymer Edition**, 22, 363-378, 2011, I.F.=2.12, (Category Q1 & Q2).
58. **N.G. Sahoo**, H.K.F. Cheng, L. Li, S.H. Chan, J. Zhao, “Strengthening of Liquid Crystalline Polymer by Functionalized Carbon Nanotubes through Interfacial Interaction and Homogeneous Dispersion”, **Polymers for Advanced Technologies**, 22, 1452-1458, 2011, I.F. = 2.13, (Category Q2).
59. **N. G. Sahoo***, M. Kakran, A. Abbas, Z. Judeh, L. Li, “Preparation, Characterization and Dissolution Behavior of Artemisinin Microparticles”. **Advanced Powder Technology**, 22, 458-463, 2011, I.F.= 3.25 (Category Q3).

In 2010:

60. **N.G. Sahoo**, S. Rana, J.W. Cho, L. Li, S.H. Chan, “Polymer Nanocomposites Based on Functionalized Carbon Nanotubes (Review)”, **Progress in Polymer Science**, 35, 837-867, 2010, **I.F.= 24.02**, (Category Q1) (The second of the top 25 hottest articles, April 2010-Sep. 2010).

61. M. Kakran, **N. G. Sahoo**, L. Li, Z. Judeh, K. Chong, L. Loh. "Fabrication of drug nanoparticles by evaporative precipitation of nanosuspension", **International Journal of Pharmaceutics**, 383, 285-292 (2010), **I.F.=4.21**, (Category Q2).
62. **N. G. Sahoo**, M. Kakran, L. Li, Z. Judeh, "Fabrication of Composite Microparticles of Artemisinin for Dissolution Enhancement," **Powder Technology**, 203, 277-287, 2010, I.F.=3.14, (Category Q2).
63. H.K.F. Cheng, **N.G. Sahoo**, L. Li, S.H. Chan, J. Zhao, "Complementary Effects of Multi-walled Carbon Nanotubes and Conductive Carbon Black on Polyamide 6", **Journal of Polymer Science Part B: Polymer Physics**, 48, 1203-1212(2010). **I.F.= 2.83**, (Category Q2).
64. M. Kakran, **N. G. Sahoo**, L. Li, Z. Judeh, "Dissolution of Artemisinin/Polymer Composite Nanoparticless Fabricated by Evaporative Precipitation of Nanosuspension" **Journal of Pharmacy & Pharmacology**, 62, 413-421, 2010. I.F.=2.4, (Category Q3).
65. H.K.F. Cheng, **N.G. Sahoo**, L. Li, S.H. Chan, J. Zhao, " Molecular Interactions in PA6, LCP and their Blend Incorporated with Functionalized Carbon Nanotubes" **Key Engineering Materials**. 447-448, 634-638, 2010. I.F.= 0.45
66. H.K.F. Cheng, **N.G. Sahoo**, T. H. Khin, L. Li, S.H. Chan, J. Zhao. "The Role of Functionalized Carbon Nanotubes in a PA6/LCP Blend", **Journal of Nanoscience and Nanotechnology**, 10, 5242-5251, 2010. **I.F.=1.35**, (Category Q2).

In 2009:

67. **N.G. Sahoo**, H.K.F. Cheng, L. Li, Z. Judeh, S.H. Chan, J. Zhao, "Specific Functionalization of Carbon Nanotubes for Advanced Polymer Nanocomposites" **Advanced Functional Materials**, 19, 3962-3971, 2009. **I.F.=15.62**, (Category Q1), (One of the hottest articles in the field of physical chemistry by John Wiley & Sons).
68. **N.G. Sahoo**, Thet N.T., Cai J, L. Li, S.H. Chan, J. Zhao, "Improvement of mechanical and thermal properties of carbon nanotube composites through nanotube functionalization and processing methods" **Materials Chemistry Physics**. 117, 313–320 (2009). I.F.=2.08, (Category Q1).
69. **N.G. Sahoo**, A. Abbas, Z. Judeh, C. M. Li, K.-H. Yuen, "Solubility Enhancement of a Poorly Water-soluble Anti-malarial Drug: Experimental Design and Use of a Modified Multi-Fluid Nozzle Pilot Spray Drier" **Journal of Pharmaceutical Sciences**, 98, 281-296, 2009. , **I.F.= 2.19**. (Category Q1 & Q2).
70. **N.G. Sahoo**, Thet N.T., Q.H. Tan, L. Li, S.H. Chan, J. Zhao, "Effect of Carbon Nanotubes and Processing Methods on the Properties of Carbon Nanotube/Polypropylene Composites", **Journal of Nanoscience and Nanotechnology**, 9 (10), 5910-5919(2009).I.F.= 1.35. (Category Q2).

71. S. Roy, **N.G. Sahoo**, C.K. Das, L. Li, S.H. Chan, "Improvement of properties of polyetherimide/liquid crystalline polymer blends in the presence of functionalized carbon nanotubes", **Journal of nanoscience and Nanotechnology**, **9**, 1928-1934 (2009). I.F. = 1.35. (Category Q2).

In 2007-2008:

72. **N.G. Sahoo**, A. Abbas, C.M. Li, "Micro/Nanoparticle Design and Fabrication for Pharmaceutical Drug Preparation and Delivery Applications" (**Review, Invited**), **Current Drug Therapy**, **3**, 2008, 78-97.
73. H.H. So, J.W. Cho, **N.G. Sahoo**, "Effect of Carbon Nanotubes on Mechanical and Electrical Properties of Polyimide/Carbon Nanotubes Nanocomposites" **European Polymer Journal**, **43**, 3750-3656, 2007. **I.F.=3.53**, (Category Q2).
74. **N.G. Sahoo**, Y.C. Jung, Hye Jin Yoo, J.W. Cho, "Polypyrrole Coated Carbon Nanotubes: Synthesis, Characterization, and Enhanced Electrical Properties", **Synthetic Metals** **157** (8-9), 374-379, 2007. I.F.= 2.52, (Category Q2).
75. **N.G. Sahoo**, Y.C. Jung, Hye Jin Yoo, J.W. Cho, "Influence of Carbon Nanotubes and Polypyrrole on the Thermal, Mechanical and Electroactive Shape Memory Properties of Polyurethane Nanocomposites" **Composites Science and Technology**, **67**, 1920-1929, 2007.**I.F.=6.30** (Category Q1).
76. **N.G. Sahoo**, Y.C. Jung, and J.W. Cho, "Electroactive Shape Memory Effect of Polyurethane Composites Filled with Carbon Nanotubes and Conducting Polymer" **Materials and Manufacturing Processes**, **22**, 419-423, 2007. I.F.= 3.35, (Category Q3).
77. **N.G. Sahoo**, Y.C. Jung, H.H. So and J.W. Cho, "Synthesis of Polyurethane Nanocomposites of Functionalized Carbon Nanotubes by in-situ Polymerization Methods" **Journal of the Korean Physical Society**, **51**, S1-S6, 2007, I.F.=0.46 (Category Q4).

In 2005-2006:

78. **N.G. Sahoo**, Y.C. Jung, Hye Jin Yoo, J.W. Cho, "Effect of Functionalized Carbon Nanotubes on Molecular Interaction and Properties of Polyurethane Composites" **Macromolecular Chemistry and Physics**, **207**, 1773, 2006. I.F.= 2.61, (Category Q1).
79. Y.C. Jung, **N.G. Sahoo**, J.W. Cho, "Polymeric Nanocomposites of Polyurethane Block Copolymers and Functionalized Multi-Walled Carbon Nanotubes as Crosslinkers" **Macromolecular Rapid Communications**, **27**, 126, 2006. **I.F.= 4.07**, (Category Q1).
80. H.J. Yoo, Y.C. Jung, **N.G. Sahoo**, J.W. Cho, "Electroactive Shape Memory Polyurethane Nanocomposites from In-Situ Polymerization with Carbon Nanotubes" **Journal of Macromolecular Science Part B: Phys**, **45**, 1, 2006. I.F.=1.20, (Category Q3).

81. **N.G. Sahoo**, Y.C. Jung, N.S. Goo, J.W. Cho, "Conducting Shape Memory Polyurethane – Polypyrrole Composites for an Electroactive Actuator" **Macromolecular Materials and Engineering**, 290, 1049, 2005. I.F.= 3.03, (**Category Q2**).

In 2002-2004:

82. S. Chakraborty, **N.G. Sahoo**, G.K. Jana and C.K. Das, "Self-Reinforcing Elastomer Composite Based on EPDM and LCP" **Journal of Applied Polymer Science**, 93(2), 711, 2004. I.F.=2.18, (**Category Q3**).
83. **N.G. Sahoo**, H. Jeong, C.K. Das and C.S. Ha, "Speciality Polymer Blends of Polybutylene Terephthalate and Glass Filled Liquid Crystalline Polymer", **Journal of Elastomers and Plastics**, 36(1), 77, 2004. . I.F.= 0.714, (**Category Q3**).
84. **N.G. Sahoo**, S.Ray Chowdgury, C.K. Das, A. Kozłowska and M. Kozłowski, "Structural Characterization and Related Properties of EP/LCP Blends", **Journal of Polymer Engineering**, 24(5), 523, 2004. I.F.= 0.78, (**Category Q4**).
85. **N.G. Sahoo**, M.E. Sivakumar, A.B. Panda, P. Pramanik and C.K. Das, "Nanofiller as Crosslinker for Halogen Containing Elastomers", **Macromolecular Research**, 11(6), 506, 2003. I.F.= 1.76, (**Category Q1**).
86. **N.G. Sahoo** and C.K. Das, "Blends of Low -density Polyethylene and Liquid Crystalline Polymer", **Polymer Composites**, 24(6), 716, 2003. I.F.= 2.26, (**Category Q2 & Q3**).
87. **N.G. Sahoo**, H. Jeong, C.K. Das and C.S. Ha, "Structure - Properties Relations of Polypropylene / Liquid Crystalline Polymer Blends". **Macromolecular Research**, 11(4), 224, 2003. I.F.= 1.76, (**Category Q1**).
88. **N.G. Sahoo**, S. Gupta, P.K. Patra, W. Millns and C.K. Das, "Studies on PET/Glass Filled LCP Blends", **Polymer Plastics Technology and Engineering**, 42(3), 471-483, 2003. I.F.= 0.63
89. **N.G. Sahoo** and C.K. Das, "Self-Reinforcing Composite Based on EPR/LCP Blend", **Polymer Plastics Technology and Engineering**, 41(4), 619-630, 2002. I.F.= 0.63
90. **N.G. Sahoo**, S. Chakraborty and C.K. Das, "Effect of E/P Ratio on Self-Reinforcing Character of LCP in EPDM/LCP Composite", **Plastics Rubber and Composites**, 31 (10), 443, 2002.I.F.=1.20. (**Category Q4**).
91. **N.G. Sahoo**, A.B. Panda , P. Pramanik and C.K. Das " Nanofiller As Vulcanizing Aid for Styrene - Butadiene Elastomer", **Macromolecular Research**, 10(6), 369, 2002. I.F.=1.76. (**Category Q1**).

92. **N.G. Sahoo**, K.N. Pandey, G.N. Mathur and C.K. Das, "Structural Characterization of PBT/LCP Blends", Materials Letters, 56(3), 194, 2002. I.F.= 2.68. (Category Q1 & Q2).

PAPERS PRESENTED IN INTERNATIONAL/NATIONAL CONFERENCES

1. Invited Speaker: N.G. Sahoo, "Waste to Wealth: Synthesis of Carbon Nanomaterial from Solid Waste and its Applications". 3rd National Symposium on Shaping the Energy Future: Challenges & Opportunities (SEFCO-2019), May 10-11, 2019.
2. Manoj Karakoti, Ritu Jangra, Sandeep Pandey, Suman Mahendia, Nanda Gopal Sahoo; "Effective Conversion of Waste Plastic into Few Layer Graphene for Super Capacitor Application"; 2nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environment Management (ICEFN&SEM), Kumaun University, Nainital, 2019.
3. Mayank Pathak, Gaurav Tatrari, Nanda Gopal Sahoo; "Green Synthesis of Highly Efficient and Doped Graphene Nanosheets By Using Waste Plastic and Cow Urine for Super capacitor Application" ; 2nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environment Management (ICEFN&SEM), Kumaun University, Nainital, 2019.
4. Pawan Singh Dhapola, Nanda Gopal Sahoo, Pramod K. Singh, Meenal Gupta, B. Bhattacharya; "Development of electric double layer capacitor (EDLC) based on cobalt enriched porous carbon electrode and ionic liquid electrolyte" ; 2nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environment Management (ICEFN&SEM), Kumaun University, Nainital, 2019.
5. 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), Kumaun University, Nainital, 2019.
6. 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), Kumaun University, Nainital, 2019.
7. Neema Pandey, S. P. S. Mehta, Nanda Gopal Sahoo; "A Novel and Facile Bio fabrication Route of Reduced Graphene Oxide Using Zingiber Ofloxacin"; Extract 2nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environment Management (ICEFN&SEM), Kumaun University, Nainital, 2019.
8. 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), Kumaun University, Nainital, 2019.

9. Pritam Das, Himani Tiwari, Sumit Durgapal, Mahendra Rana, Nanda Gopal Sahoo; “Graphene Based Nano-Drug Delivery of Curcumin for The Treatment of Dengue Fever”; 2nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environment Management (ICEFN&SEM), Kumaun University, Nainital, 2019.
10. Seema, Ganga Bisht, Nanda 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), Kumaun University, Nainital, 2019.
11. 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), Kumaun University, Nainital, 2019.
12. Sunil Dhali, Sandeep Pandey, Manoj Karakoti, S.P.S. Mehta, Nanda Gopal Sahoo; “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), Kumaun University, Nainital, 2019.
13. Gaurav Tatrari, Mayank Pathak, Nanda Gopal 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), Kumaun University, Nainital, 2019.
14. Bhashkar Singh Bohra, Nanda Gopal Sahoo; “Graphene Oxide Based Polymer Nanocomposite For Structural Applications”; 2nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environment Management (ICEFN&SEM), Kumaun University, Nainital, 2019.
15. 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), Kumaun University, Nainital, 2019.
16. Kuldeep K. Garg, Sandeep Pandey, Amit Kumar, Nanda Gopal Sahoo, Rajiv K. Singh; “Graphene Based Organic Thermoelectric Composites Material for Energy Harvesting Applications”; 2nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environment Management (ICEFN&SEM), Kumaun University, Nainital, 2019.
17. Sandeep Pandey, Manoj Karakoti, Sunil Dhali, Nanda Gopal Sahoo; “Thin Film Preparation of Carbon Nano Materials via Solvent-Antisolvent Technique for Optoelectronic Applications”; 2nd International Conference on Energy, Functional Materials and Nanotechnology & Sustainable Environment Management (ICEFN&SEM), Kumaun University, Nainital, 2019.
18. Himani Tiwari, Ganga Bisht, Nanda Gopal Sahoo; “Functionalized Graphene Oxide as a nanovehicle for the delivery of Cocktailed Drug System”; 2nd International Conference

on Energy, Functional Materials and Nanotechnology & Sustainable Environment Management (ICEFN&SEM), Kumaun University, Nainital, 2019.

19. N.G. Sahoo, "Graphene oxide for drug loading and delivery of anticancer drugs", (Invited), International Conference on Science and Engineering of Materials (ICSEM 2018), Sharda University, Greater Noida, 6th-8th January, 2018.
20. Sandeep Pandey, Manoj Karakoti, Sunil Dhali, Chetna Tiwari, Nanda Gopal Sahoo,;"Remediation of Solid Plastic waste into value added synthesis of Graphene Nano Flakes: An Inevitable Method of Solid Waste Management for Better Tomorrow"; International conference on Nanotechnology; Ideas, Innovations and Initiatives-2017, IIT-Roorkee, Uttarakhand, 6th-8th December, 2017.
21. N.G. Sahoo, "Functionalized Carbon Nanomaterials for Advanced Polymer Nanocomposites", (Invited) ICSNSDC & AMST, Nov. 3-5, 2017, Jiwaji University, Gwalior.
22. Sunil Dhali, Sandeep, Manoj karakoti, SPS Mehta, Nanda Gopal Sahoo; "Development of graphene oxide based metal catalyst for proton exchange membrane fuel cell (PMFCs)" ; International conference on Study of Nanomaterials and Scientific Development in 21st Century (ICSNSDC), Nov. 3-5, 2017, Jiwaji University, Gwalior.
23. Seema, Himani Tiwari, Ganga Bisht, Nanda Gopal Sahoo.; "Fabrication and Characterization of Curcuminoid Nanoparticles". 8th Conference of The Indian Science Congress Association (Haridwar Chapter) Nainital, 14th-15th October, 2017
24. N.G. Sahoo, "Carbon Nanomaterials based polymer composites for various applications", (Invited), ICAMP-2017, Mahatma Gandhi University, Kottayam, Kerala, 7-9th April, 2017.
25. S. Dhali, V.D. Punetha, M. Karakoti, Sandeep, S. P.S. Mehta, N. G. Sahoo*, "Nitrogen Doped Graphene For Enhanced Catalytic Activity In Fuel Cell", 2-4th March, 2017, UCOST, Dehradun, Uttarakhand.
26. Seema, V.D.Punetha, G. Bisht, N. G. Sahoo*. Fabrication of drug nanoparticles for pharmaceutical applications, 2-4th March, 2017, UCOST, Dehradun, Uttarakhand.
27. H. Tiwari, Neha, V.D.Punetha, G. Bisht, N. G. Sahoo*. Functionalized graphene oxide as a nano carrier for efficient drug delivery, 2-4th March, 2017, UCOST, Dehradun, Uttarakhand.
28. N.G. Sahoo, Carbon Nanomaterials for Fuel Cell Applications, (Invited), NEW-2017, 22-24th Feb, UPES, Dehradun.
29. Manoj Karakoti, Pushkar Dutt, Sandeep, Neema Pandey, Sunil Dhali, Nanda Gopal Sahoo* Polymer nanocomposite for energy application, NEW-2017, 22-24th Feb, UPES, Dehradun.
30. N.G. Sahoo, "Synthesis and functionalization of graphene oxide for drug delivery applications", (Invited), IWCCMP-2016, ABV-IIITM, Gwalior, 18-20th Nov.-2016.,

31. Sandeep, M. Karakoti, V.D. Punetha, N.G. Sahoo*, "Synthesis of 2D nanomaterials for energy applications", IWCCMP-2016, ABV-IIITM, Gwalior, 18-20th Nov.-2016. (**Best Poster Award**).
32. S. Dhali, V.D. Punetha, S.P.S. Mehta, N.G. Sahoo*, "Synthesis of graphene and CNT hybrids for fuel cell applications", IWCCMP-2016, ABV-IIITM, Gwalior, 18-20th Nov.-2016.
33. M. Karakoti, Sandeep, N.G. Sahoo*, "Synthesis of graphene from waste plastic", ICMAMN-2016, F. M. University, Balesore, Odisha, India, 25-27th Nov.-2016.
34. Neha, H. Tiwari, V. D. Punetha, N.G. Sahoo*, "Graphene oxide as a nano carrier for drug delivery application", ICMAMN-2016, F. M. University, Balesore, Odisha, India, 25-27th Nov.-2016.
35. 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 2016, 7-10th September 2016. Tirunelveli, Tamilnadu, India.
36. 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, Solar Energy Research Center, University of North Carolina – Chapel Hill; 2016.
37. Sandeep, Manoj Karakoti, V. D. Punehta, N. G. Sahoo*. "Synthesis of 2-Dimensional carbon nanomaterials from waste plastic", 19th International conference of international academy of physical sciences & symposium on fixed point theory and dynamical systems (CONIAPS XIX), 2016.
38. Sandeep, Manoj Karakoti, V. D. Punehta, N. G. Sahoo*. "Environmental Sustainable Smart Synthesis of 2-D Carbon nanomaterials Along with the Production of High Value Added Fuel", India International Science Festival 2016 (IISF), 7-11th Dec 2016, NPL, New Delhi, India.
39. V. D. Punetha, Ganga Bisht, V. K. Gangari, **N. G. Sahoo***, "PVA functionalized graphene oxide as a nanocarrier of insoluble anticancer quercetin molecules, isolated from *Juniperus squamata* Buch-Ham.exD.Don", ICEFN 2016, March 27-29,
40. P. S. Dhapola, Manoj Karakoti, Sandeep, Sunil Dhali, Bhaskar Bhattacharya, P. K. Singh, **N. G. Sahoo***, "Solid polymer electrolyte: a novel approach towards dye sensitized solar cells (DSSC)", ICEFN 2016, March 27-29.
41. S. Dhali, P. Joshi, N. Pandey, P.S. Dhapola. S.P.S. Mehta, **N.G. Sahoo**, "Synthesis of graphene oxide and its applications". ICEFN 2016, March 27-29.
42. Neha, Meena Kafaltiya, V. D. Punetha, M. K. Devrani, Himani Tiwari, Seema, Ganga Bisht, **N. G. Sahoo***, "Cultivation of *Hedychium spicatum* on Zn amended soil: A phytoremedial aspect", ICEFN 2016, March 27-29.
43. **N. G. Sahoo**, "Synthesis and functionalization of carbon nano materials and their applications" National Workshop on advancement in material science and physics, WAMP 2015, MUJ, Jaipur, November 19-21, 2015.

44. V. D. Punetha, **N. G. Sahoo***, "Advance Nanomaterial Based Anticancer Drug Delivery, National Workshop on advancement in material science and physics", November, 2015, MUJ, Jaipur WAMP 2015, November 19-21.
45. **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, Orlando, Florida, USA
46. **N.G. Sahoo**, T. Warintorn, C.B. He, W. Mian, Graphene based polymer nanocomposites, 15 ACC Conference, Singapore, 19-23 August, 2013.
47. Jilei LIU, **N.G. Sahoo**, 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, MRS, Singapore.
48. **N.G. Sahoo**, C.K. F. Henry, L. Lin, S.W. Chan "Functionalization of Carbon Nanotubes and their Applications" 2nd Molecular Materials Meeting (M3) @ Singapore, 9-11 Jan., 2012.
49. M. Kakran, **N.G. Sahoo**, PAN Yongzheng, Lin Li, Hongqian Bao, "Functionalized Graphene Oxide for Loading and Delivery of Poorly Water-Soluble Drugs", UK – Singapore Materials Workshop 2012 "Materials for Tomorrow", Dec 6-7, 2012.
50. **N.G. Sahoo**, M. Kakran, L. Lin, Z. Judeh, "Preparation of composite microparticles for dissolution enhancement of a poorly water-soluble anti-malarial drug" CHEMECA 2011, Sydney, Australia, Sep. 18-21, 2011.
51. M. Kakran, **N.G. Sahoo**, L. Lin, R.H. Mullar, "Comparison of Homogenization and Precipitation techniques for Production of Quercetin Nanocrystals" CHEMECA 2011, Sydney, Australia, Sep. 18-21, 2011.
52. M. Kakran, **N.G. Sahoo**, L. Lin, "Precipitation of Poorly Water-Soluble Antioxidant Hesperetin for Improved Solubility and Dissolution", CHEMECA 2011, Sydney, Australia, Sep. 18-21, 2011.
53. M. Kakran, R. Shegokar, L. Al Shaal, **N.G. Sahoo**, L. Li, R.H. Müller, Production Optimization of Antioxidant Quercetin Nanocrystals, Abstract 2265, AAPS Annual Meeting and Exposition, October 23–27, 2011, Washington, DC, USA
54. **N.G. Sahoo**, L. Al Shaal, M. Kakran, L. Lin, R.H. Mullar, "Artimisinin nanocrystals for improved oral bioavailability in malaria treatment", AAPS 2010, USA, Nov. 14-18, 2010.
55. **N.G. Sahoo**, L. Al Shaal, M. Kakran, L. Lin, R.H. Mullar, "Antioxidant Quercetin: Preparation and characterization of nanocrystals", AAPS 2010, USA, Nov. 14-18, 2010.

56. **N.G. Sahoo**, M. Kakran, L. Lin, Z. Judeh, "Preparation of quercetin nanoparticles for improved oral bioavailability" CHEMECA 2010, Adelaide, Australia, Sep. 26-29, 2010.
57. **N.G. Sahoo**, M. Kakran, A. Abbas, L. Lin, Z. Judeh, "Preparation of artemisinin microparticles with enhanced solubility using a modified 4-fluid nozzle pilot spray drier", CHEMECA 2010, Adelaide, Australia, Sep. 26-29, 2010.
58. H.K.F. Cheng, **N.G. Sahoo**, L. Li, S.H. Chan, and J. Zhao, "An innovative approach for the fabrication of highly conductive nanocomposites with different carbon fillers", 36th International MATADOR Conference 2010, Manchester University, UK, July 13-16, 2010.
59. H.K.F. Cheng, **N.G. Sahoo**, L. Li, S.H. Chan, and J. Zhao, "Molecular interactions in PA6, LCP and their blend incorporated with the functionalized carbon nanotubes" ICoPE 2010 & 13th ICPE International conference on Precision, Singapore, July 28-30, 2010.
60. "**N.G. Sahoo**, H.K.F. Cheng, L. Li, S.H. Chan, and J. Zhao, "Functionalization of carbon nanotubes for advanced CNT/LCP nanocomposites" NSTI-Nanotech 2010, Vol 1, 744-745, 2010.
61. M. Kakran, **N.G. Sahoo**, L. Lin, ICMAT-2009, "Fabrication of Nano-sized and Nano-coated Drugs Particles for Drug Delivery applications", Singapore, 28 June-3 July, 2009.
62. **N.G. Sahoo**, M. Kakran, L. Lin, "Preparation of micro/nanoparticles for solubility enhancement of poorly water soluble drug", International Conference on High-Tech Materials (ICHTM-2009), IIT Kharagpur, India, Feb 11-13, 2009.
63. **N.G. Sahoo**, N.T. Thet, S.H. Chan, L. Li, " Effects of carbon nanotubes and processing methods on CNT/polymer composites", IUMRS-ICA 2008, Nagoya, Japan, Dec 9-13, 2008.
64. L. Li, **N.G. Sahoo**, N.T. Thet, S.H. Chan, and J. Zhao, "Dispersion of Carbon Nanotubes (CNTs) for Conductive Polymer Composites" 3rd International Symposium on Molecular Materials (MOLMAT2008), Toulouse, France, 8-11 July 2008.
65. Jae Whan Cho, Yong Chae Jung, **N.G. Sahoo**, "Polyurethane Nanostructure and Nanocomposites for Intelligent Shape Memory Applications", MACRO 2006 Polymer for Advanced Technologies India 2006.12.17-21
66. Yong Chae Jung, **N.G. Sahoo**, Jae Whan Cho, "Fabrication and Properties of Nanostructured Polyurethane for Intelligent Shape Memory Applications", Proceedings of the 20th Scientific Conference Hanoi University of Technology Vietnam 15-19, 2006.10.9-14.
67. J.W.Cho, **N.G. Sahoo**, Y.C.Jung Macro 2006, "Nanocomposites Composed of Functionalized Carbon Nanotubes and Polyurethane Block Copolymer", World Polymer Congress Brazil 2006.07.16-21

68. **N.G. Sahoo**, Y.C. Jung, H.J. Yoo and J.W. Cho, "Preparation and Properties of Polyurethane Nanocomposites by Functionalization of Multi-Walled carbon Nanotubes", International Fiber Conference 2006, Seoul National University, South Korea, P. 635-636.
69. Y.C. Jung, **N.G. Sahoo**, H.J. Yoo and J.W. Cho, "Microstructure and Properties of Polyurethane-Crosslinked Nanocomposites Using Functionalized Carbon Nanotubes", International Fiber Conference 2006, Seoul National University, South Korea, P. 375-376.
70. Y.C. Jung, H.J. Yoo , **N.G. Sahoo**, and J.W. Cho, "Polyurethane Nanocomposites of Functionalized Carbon Nanotubes for Electroactive Actuation", The Korean Textile Conference, 39(2), 365-366, 2005.
71. **N.G. Sahoo**, Y.C. Jung, H.H. So and J.W. Cho, "Synthesis of Polyurethane Nanocomposites of Functionalized Carbon Nanotubes by in-situ Polymerization Methods" ICTF-2006, Konkuk University, South Korea, P.13-16, May-2006.
72. Y.C. Jung, **N.G. Sahoo**, H.J. Yoo, J.W. Cho, "Enhancement of the Properties of Shape Memory Polyurethane-Crosslinked Nanocomposites by Covalent Bonding of Carbon, ICTF-2006, Konkuk University, South Korea, P.17-20, May-2006
73. **N.G. Sahoo**, Y.C. Jung, and J.W. Cho, "Electroactive Shape Memory Effect of Polyurethane Composites Filled with Carbon Nanotubes and Conducting Polymer" ICAMMP-2006,IIT Kharagpur, India, P. 86-89, Feb.-2006.
74. " **N.G. Sahoo**, Y.C. Jung, and J.W. Cho, "Effect of Carbon Nanotube on the Mechanical and Thermal Properties of Polyurethane-Carbon Nanotube Nanocomposites ICAMMP-2006,IIT Kharagpur, India, Feb.-2006.
75. **N.G. Sahoo**, Y.C. Jung, and J.W. Cho, "In Influence of Polypyrrole and Carbon Nanotubes on the Thermo-Mechanical Properties of Polyurethane Matrix Composites" The Korean Textile Conference, 38(2), 94, 2005.
76. **N.G. Sahoo**, Y.C. Jung, N. S. Goo, J.W. Cho, "The Study of Electroactive Shape Memory Effect of Polyurethane filled with Carbon Nanotubes and Conducting Polymer" The Polymer Society of Korea, Oct., 2005.
77. **N.G. Sahoo**, Y.C. Jung, N. S. Goo, J.W. Cho, "Conducting Shape Memory Polymer Materials for Electroactive Actuator", ICEST-2005, Konkuk University, South Korea,P.-42-45, May-2005.
78. **N.G. Sahoo**, Y.C. Jung, and J.W. Cho, "Electroactive Shape Memory Polyurethane-Polypyrrole Composites" The Korean Textile Conference, 38(1), 215, 2005.

79. Y.C. Jung, **N.G. Sahoo**, and J.W. Cho, "Characterization of Carbon Nanotube-Polyurethane Networks with Shape Memory Effect" The Korean Textile Conference, 38(1), 213, 2005.
80. **N.G. Sahoo**, K.N. Pandey, G.N. Mathur, H.W. Jeong, C.S. Ha and C.K. Das, "Flow behaviour, dynamic properties and related morphology of PBT and LCP blends", MACRO-2002, IIT Kharagpur, India, Dec.-2002.
81. " **N.G. Sahoo**, A.B. Panda, P. Pramanik and C.K. Das, Nanofiller as Crosslinker for Halogen Containing Elastomers", Asia Rub Tech Expo-2002, New Delhi, India, Nov.-2002.
82. **N.G. Sahoo** and C.K. Das, "Self-Reinforcing Composites Based on Polyolefins, their Copolymer and Liquid Crystalline Polymer Blends", Asia Rub Tech Expo-2002, New Delhi, India, Nov.-2002.
83. **N.G. Sahoo**, S. Chakraborty and C.K. Das, "Effect of E/P Ratio on Self-Reinforcing Character of LCP in EPDM/LCP Composite", ICMAT-2001, Singapore.
84. **N.G. Sahoo**, K.B. Panda, P. Pramanik and C.K. Das, "Nano Polyolefins Composites and Their Characterization" Polymers in the Third Millenium- Montpellier, France, Sept.-2001.
85. "Self-Reinforcing Elastomer Composite Based on EPDM and LCP", S. Chakraborty, **N.G. Sahoo** and C.K. Das", PAT-2001, Eilat, Israel, Sept.-2001.
86. **N.G. Sahoo**, K. N. Pandey, G.N. Mathur and C.K. Das, "Dynamic Failure and Related Morphology for Self-Reinforced Composites With the Help of SEM", ICEM-15, Durban, S.A, Sept.-2000, P. 813-816.