

CURRICULUM VITAE

Name: Dr. Manoranjan Sahoo

Position: Lecturer in Physics

Address: P.G. Department of Physics, Bhadrak Autonomous College, Bhadrak

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Educational Background:

Sl. No	Degree	University/Institution	Discipline	Year of completion
1	Bachelor's degree	UTKAL UNIVERSITY, BHUBANESWAR, ODISHA	Physics (Hons)	2000
2	Master's degree	NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA, ODISHA	Physics	2002
3	M.Phil.	SAMBALPUR UNIVERSITY, SAMBALPUR, ODISHA	Physics	2009
4	Ph.D.	SAMBALPUR UNIVERSITY, SAMBALPUR, ODISHA	Physics	2021

Ph.D. thesis title: CHARACTERIZATION OF MEV PROTON-INDUCED MESOMORPHIC PHASE OF POLYETHYLENE TEREPHTHALATE MATERIAL

Professional Background:

Sl. No	Position held	Name of the Institute	Joining	held Up to
1	LECTURER	BHADRAK AUTONOMOUS COLLEGE, BHADRAK, ODISHA	01/09/2023	CONT....
2	JR. LECTURER	GOVT. JUNIOR SCIENCE COLLEGE, TIRING, MAYURBHANJ, ODISHA	24/07/2017	31/08/2023
3	JR. LECTURER	KHALLIKOTE JUNIOR COLLEGE, BERHAMPUR, ODISHA	18/02/2015	08/12/2016

Awards/ Achievements:

Sl. No	Award Name	Agency	Year
1	UNIVERSITY GOLD MEDAL FOR SECURING 1 ST CLASS 1 ST POSITION IN M.SC	SAMBALPUR UNIVERSITY, SAMBALPUR, ODISHA	2002
2	DILLIP KUMAR PATI GOLD MEDAL FOR SECURING 1 ST CLASS 1 ST POSITION IN M.SC	SAMBALPUR UNIVERSITY, SAMBALPUR, ODISHA	2002

Publications:

Please write author's list first, then title. Lastly journal citation, and link to your publication (if possible)

1. **M. Sahoo**, B. Mallick, S. Rout and G. N. Dash, Structural and Mechanical Strength of proton radiation processed Polyethylene terephthalate, *Journal of Scientific Research*, 12, 83, **2020**.
2. **M. Sahoo**, B. Mallick and G. N. Dash, MeV-Proton induced effect on mesophase structure of Polyethylene terephthalate, *Adv.Sci. lett.*, 20, 838, **2014**.
3. **M. Sahoo**, B. Mallick, G. N. Dash and T. N. Tiwari, Study of the mesomorphic phase of PET using DSC and XRD techniques, *IOSR journal of Applied physics*, 7, 1, **2015**.

Published Books/ book chapters:

Sl. No	Titles, Number
1	XRD and DSC analysis of Mesophase By Biswajit Mallick and Manoranjan Sahoo, ISBN-13: 978-1636485317/ ISBN-10: 1636485316, ELIVA Publisher,(2022)

Conferences attended:

Sl. No	Detail (Place, Role, Title, Date)
1	M. Sahoo , B. Mallick and G. N. Dash, Analysis of mesophase of Polyethylene terephthalate using differential scanning calorimetry technique, <i>Proceedings of National conference on technical advances in materials science and research</i> , held during 13-15 th February, 2014 at School of Physics, Sambalpur University, Burla, Odisha, India. (Poster)
2	M. Sahoo , B. Mallick and G. N. Dash, Effect of three phase structure of PET due to Proton-induced microstrain applying XRD technique, <i>Proceedings of National Semina on Science & Technology for human development</i> , held during 5-6 th December, 2014 at Siksha "O" Anusandhan University, Bhubaneswar, Odisha, India.
3	M. Sahoo , B. Mallick and G. N. Dash, MeV-Proton induced effect on mesophase structure of Polyethylene terephthalate, <i>Proceedings of National Seminar on recent trends in condensed matter Physics</i> , held during 8-9 th February, 2014 at Siksha "O" Anusandhan University, Bhubaneswar, Odisha, India. (Poster)
4	M. Sahoo , B. Mallick and G. N. Dash, Mesomorphic phase analysis of 3 MEV Proton irradiated PET using XRD and DSC techniques, <i>Proceedings of National seminar on recent advancement in materials science</i> , held during 23-24 th August, 2014 at Veer Surendra Sai University of Technology, Burla, Odisha, India. (Oral)
5	M. Sahoo , B. Mallick and G. N. Dash, Nano-size Crystallites of Mesophase in PET materials, <i>Proceedings of National seminar on Recent development in Nano science and technology</i> , held during

- 9th-10th September, 2018 at Govt. Autonomous College, Rourkela, Odisha, India. (Oral)
- 6 **M. Sahoo**, B. Mallick and G. N. Dash, Dependence of elastic modulus on crystallinity of PET material, *Proceedings of International seminar on Emerging trends in physics and applications*, held during 2-4th February, 2019 at Parala Maharaja Engineering College, Berhampur, Odisha, India.
- 7 **M. Sahoo**, Proton irradiation effect on density of polymer and its measurement using radiation technique, *Proceedings of National seminar on Recent advances of materials in electronics applications*, held during 22-23rd December, 2019 at Govt. Autonomous College, Rourkela, Odisha, India. (Oral)
- 8 **Attended** *International webinar series on Recent trends in Material Science (RTMS-2020)*, held during 13-14th July, 2020 at Department of Applied Physics, Chouksey Engineering College, Bilaspur, India.
- 9 **M. Sahoo**, B. Mallick and G. N. Dash, Thermal analysis of mesophase in PET: A surface sensing factor of the polymer., *Proceedings of International Virtual conference on Advances in Functional materials (AFM-2020)*, held during 26-28th August, 2020 at Department of physics, School of Applied Sciences, KIIT Deemed to be University, Bhubaneswar, Odisha, India. (Poster)
- 10 **M. Sahoo**, Two Dimensional Mesophase Pattern in PET Fibre due to proton Irradiation., *Proceedings of International conference on Material Science Technology and Sustainable Environment (ICMSTSE-2024)*, held during 18-19th April, 2024 at RPS Degree College, Mahendergarh, Haryana, India. (Oral)

Workshop/Faculty development programme attended:

Sl. No	Detail
1	Three day Workshop on the use of low energy ion beams, held during 7-9 th November, 2015 at Institute of Physics, Bhubaneswar, Odisha, India.
2	One day IOP-IANCAS Workshop on Nuclear Sciences, held on 7 th July, 2017 at Institute of Physics, Bhubaneswar, Odisha, India.
3	Five day Online Faculty Development Programme on Advanced Nano materials and Nano Fabrication Techniques and Devices, held during 10-14 th August, 2020 at Department of Mechanical Engineering, BMS Institute of Technology and Management. Bengaluru, India
4.	Two days Seminar cum e- workshop on Experimental Electronics, held during 31 st July -1 st August, 2020 at Department of Physics, Hans Raj Mahila Mahavidyalaya, Jalandhar, Punjab, India.