



Name: Sameer Ulhas Hadkar

Designation: Assistant Professor

Highest Educational Qualification: M. Sc. (Physics)

Don Bosco Institute of Technology, Kurla West, Mumbai 400070.

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Qualificational Details:

Passing Year	Degree	Specialisation	University
2001	M.Sc	Physics	University of Mumbai

Teaching Experience & Area of Expertise:

15 years in DBIT

Physics

Responsibilities Handled:

Controller of Examination

Research Areas:

Liquid Crystal and Nanotechnology

Publication Details:

A: Papers Published

1. Study of the optical, thermal, and mechanical properties of nematic liquid crystal elastomers - SA Mani, SU Hadkar, PJ Jessy, S Lal - Journal of Information, 2016 - Taylor & Francis - *Cited by 5*
2. Investigations of optical and thermal response of polymer dispersed binary liquid crystals - SA Mani, JR Amare, SU Hadkar, Crystals and Liquid, 2017 - Taylor & Francis - *Cited by 11*
3. Facile Synthesis and Morphology Dependent Photocatalytic Activity of ZnO Nanostructures - S Jadhav, PM Bodhankar, S Hadkar - Macromolecular, 2021 - Wiley Online Library.
4. Morphological and Thermal Behaviour of Monomer Dispersed Liquid Crystal - S Mani, S Hadkar, K Mishra, P Rai - Proceedings of Fourth, 2022 - Springer - *Cited by 2*
5. Effect of polymer concentration on optical and electrical properties of liquid crystals for photonic applications - S Mani, S Patwardhan, S Hadkar, K Mishra - Materials Today, 2022 - Elsevier - *Cited by 1*
6. Wavelength and temperature dependent refractive index of polymer dispersed nematic liquid crystal - S Mani, S Patwardhan, K Mishra, S Hadkar - 2022 First, 2022 - ieeexplore.ieee.org.

B: Conferences / Workshops / FDP / Orientations Attended:

Conferences:

1. Global Conference on Recent Advances in Sustainable Materials (GC-RASM 2022) - Enhanced Optical and Dielectric properties of Polymer Dispersed Liquid crystal for Display Applications - A. J. Institute of Engineering and technology, Karnataka, jointly organised by Civil and Mechanical departments of Engineering - 29.07.2022
2. International Conference on Advanced Technologies in Chemical, Construction and Mechanical Sciences (iCATCHCOME 2022) - Tuning of Thermal and Electrical properties of Polymer Dispersed Cholesteric Liquid Crystal - KPR Institute of Institute and Technology, Coimbatore, Tamil Nadu, India - 24.03.2022
3. Paper Presentation International Conference on Electrical, Electronics, Information and Communication Technologies sponsored by IEEE - Wavelength and Temperature Dependent refractive index of polymer dispersed Nematic Liquid Crystal - Department of Electrical and Electronics Engineering, K Ramakrishnan college of Engineering, Trichy, Tamil Nadu, India - 18.02.2022

4. International Conference on Additive Manufacturing and advanced Materials (AM2) - Effect of polymer concentration on optical and electrical properties of Liquid Crystals for photonic applications - AM2 2021, Organised by Pandit Deendayal Energy University (UGC Recognized) - 06.10.2021
5. National Conference on Recent Trends in Photonics, Smart and Nano-Material - Investigation of Phase Transition Temperatures of Liquid Crystals Mixtures - B. K. Birla College, Kalyan - 21.02.2019
6. National Conference on Advanced Nanomaterials and their Applications (ANA-2018) - Thermal and Optical Investigation of Quantum Dots dispersed Binary Liquid Crystal System - National Institute of Technology, Allahabad, Prayagraj - 21.12.2018
7. National Conference (25th) on Liquid Crystals (NCLC-2018) at University of Allahabad - Comparative Study of Transition Temperatures of Pure and Mixtures of Liquid Crystals - University of Allahabad, Prayagraj - 21.12.2018
8. Oral Presentation in the International Conference on Material Science and Technology, 01st – Optical and Thermal studies on CNT doped Liquid Crystal Mixtures - University of Delhi - VBRI PRESS Sweden - 04.03.2016
9. National Conference in Applied Sciences and Humanities, 26th & 27th February, 2016 - Phase Morphology in Polymer Dispersed Liquid Crystal - Thakur College of Engineering and Technology - 27.02.2016

Poster Presentation:

1. National Conference on "Advanced Analytical Tools for Materials Characterization" (AATMC-2018) - Optical and Mechanical Investigation of MWCNT doped Liquid Crystal Elastomer - Birla College of Arts, Science and Commerce - 28.02.2018
2. 3rd Indo-Austrian Symposium on Advances in Material Engineering - Facile and sustainable synthesis of different shapes of Zinc Oxide nanoparticles: Morphology dependent Photocatalytic Activity - jointly organised by IIT Bombay (IITB), Indian Institute of Metals (IIM) Mumbai Chapter and Non Ferrous Technology Development Centre (NFTDC) - 20.12.2016
3. National UGC SAP Workshop on Advanced Functional Materials: Synthesis to Applications - Effect of CNT on Nematic Liquid Crystal - University of Mumbai, Department of Physics, in association with materials Research Society of India (Mumbai Chapter - 22.03.2016

Courses:

1. Coursera - Nanotechnology and Nanosensors Part I - Technion Israel Institute of Technology, Haifa, Israel 25.05.2020
2. NPTEL – Solar Photovoltaics Fundamentals, Technology and Applications - AICTE, Funded by Ministry of HRD, Govt of India - 29.09.2019

3. NPTEL – Nanotechnology, Science and Applications - AICTE, Funded by Ministry of HRD, Govt of India - 29.09.2019
4. University of Mumbai - Astronomy and Astrophysics - 30.06.2018
5. Coursera - Nanotechnology: A Maker's Course - University of Duke, North Carolina State University & The University of North Carolina at Chapel Hill - 28.02.2018
6. University of Mumbai - University Grant Commission Academic Staff College (UGC-ASC) - Refresher Course in NanoSciences - 30.12.2014

Workshop:

1. Project Based Learning (03 days) - Bharati Vidyapeeth College of Engineering, Pune - 10.07.2020
2. Faculty Development Program and Online Training on Moodle Learning Management System - KJ. Somaiya in association with Spoken Tutorial Project, IIT Bombay - 30.05.2020
3. Problem Based Learning (one week) - JSPM's Rajarshi Shahu CoE, Tathawade, Pune - 05.06.2020
4. BARC - Visit to Nuclear Reactor on occasion of National Science Day - 01.03.2019
5. AICTE - Teachers Training Workshop on Student Induction Program (one week) - VIT, Pune - 21.07.2017
6. MSTA (HBCSE - TIFR) - Innovative Science Teaching - Chembur - 13.06.2014
7. MSTA (HBCSE - TIFR) - Designing Innovative Practicals - D. S. High School, Sion - 06.10.2013
8. Entrepreneurship - Don Bosco Institute of Technology, Kurla, Mumbai - 25.11.2011
9. Faculty Induction Program (One Week) - SFIT, Borivali West - 04.07.2008

Fellowships / Awards / Rewards:

BEST PAPER AWARD – International Conference on Advanced Technologies in Chemical, Construction and Mechanical Sciences (iCATCHCOME 2022) - 24 March 2022 - Tuning of Thermal and Electrical properties of Polymer Dispersed Cholesteric Liquid Crystal - Organised by KPR Institute of Institute and Technology, Coimbatore, Tamil Nadu, India.