

CURRICULUM VITAE

DR. ANIRUDDHA CHATTERJEE



Governing Body Member (2019-2021)
Maharashtra Institute of Technology (MIT)
Aurangabad, Maharashtra - 431010
Web Page : <http://btech.mit.asia/gb/>

Dean (R & D and Innovation)
Maharashtra Institute of Technology (MIT)
Aurangabad, Maharashtra - 431010
Mobile:+919673917457, Phone (O):0240-2375260
E-Mail: deanresearch.mitt@mit.asia

Associate Professor & Head
Department of Plastic and Polymer Engineering
Maharashtra Institute of Technology (MIT)
Aurangabad, Maharashtra - 431010
Accredited with 'Grade A' by NAAC
Approved by All India Council for Technical Education (AICTE), New Delhi
Permanently Affiliated to Br. Babasaheb Ambedkar Marathwada University
Mobile:+919673917457, Phone (O):0240-2375260
E-Mail: aniruddha.chatterjee@mit.asia
aniruddha_chatterjee2006@yahoo.co.in
Web Page : <https://btech.mit.asia/plastic-polymer-engineering/>

Deputy Director
MIT-Centre for Advanced Materials Research & Technology (M-CAMRT)
Maharashtra Institute of Technology (MIT)
Aurangabad, Maharashtra - 431010
Mobile:+919673917457, Phone (O):0240-2375260
E-Mail: camrt@mit.asia
Web Page : <http://m-camrt.mit.asia/>

Academic Credentials

Class/ Degree	Specialization	Institution	University	Year	%/CGPA	Class
Ph.D.	Polymer Nanocomposites	UICT	NMU, Jalgaon	2010	-----	-----
M. Sc.	Polymer Chemistry	School of Chemical Sciences	NMU, Jalgaon	2004	68.10	1 st

B. Sc.	Physics, Chemistry, Polymer Chemistry	Govt. College of Arts & Sci.	Dr. BAMU, Aurangabad	2002	68.43	1 st
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Ph. D. Research:

Synthesis and Characterization of Nano Polymer Particles and Their Effect on Processing and Mechanical Properties of Polymers

Experience

Sr. No.	Organization	Post	From	To	No. of Years
01	Maharashtra Institute of Technology, Aurangabad	Dean (R & D and Innovation)	19 th June to	Till Date	1 months
02	Department of Plastics and Polymer Engineering, MIT, Aurangabad	Associate Professor & Head	1st July 2018	Till Date	3 yr
03	Department of Plastics and Polymer Engineering, MIT, Aurangabad	Assistant Professor & Head (Approved-20/09/2017)	23rd March, 2016	to 30th June 2018	2 yrs 03 months
04	Department of Plastics and Polymer Engineering, MIT, Aurangabad	Assistant Professor	18th Dec 2015	to 22nd March, 2016	3 months
05	UICT, North Maharashtra University	Assistant Professor	18 th July 2013 to	17 th June 2014	11 months
06	UICT, North Maharashtra University	Assistant Professor	28th Oct 2010	to 30st April 2011	6 months
07	UICT, North Maharashtra University	Lecturer	13 th Sept 2010	to 27 th Oct 2010	1 months
08	UICT, North Maharashtra University	DST Young Scientist	1st July 2014	to 17th Dec. 2015	1 yr 6 months
09	UICT, North Maharashtra University	UGC Project Fellow, UGC, New Delhi	1st June 2007	to 23rd Sept 2007	4 months
10	Esdee Paints Pvt. Ltd.,GIDC, Vatva,	R & D Chemist	2nd May 2005	to 14th May 2007	2 yrs

	Ahmedabad, Gujarat			
11	A. L. A. Chemicals Ltd, Ambernath, Thane (Maharashtra)	Technical Service Chemist	11th Oct 2004 to 16th April 2005	6 months

List of Courses Taught/Teaching at UG level

- Biopolymers
- Polymer Nanocomposites
- Introduction to Nanotechnology
- Physical Chemistry of Polymers

Membership of Professional Bodies

- Asian Polymer Association, New Delhi, Life member, Membership No.: L166
- Society for Polymer Science, Chapter: Pune, India Membership no. 332
- Indian Society for Technical Education, Membership No.: LM111710
- Indian Science Congress Association, Life member, Membership No.: L39414

Reviewer of Journals

Macromolecular Research; Designed Monomers and Polymers; Journal of Hazardous Materials; Polymer Degradation and Stability; Polymers for Advanced Technologies; Advances in Polymer Technology; Ultrasonic Sonochemistry; Polymer Bulletin; Materials Letters

Editorial Board Member

International Journal of Nanomaterials and Nanostructures, eISSN: 2455-5584, DOI:10.37628/IJNN

International Journal of Polymer Science & Engineering, ISSN: 2455-8745

International Journal of Composite Materials and Matrices, ISSN: 2582-435X

Journal of Material & Metallurgical Engineering, eISSN: 2231-3818, ISSN: 2321-4236, SJIF: 4.245

Journal of Polymer & Composites, eISSN: 2321-2810, ISSN: 2321-8525, SJIF: 4.22

Research Projects/Projects Guided

1) M. Tech

1. Mr. Amit Kumar "Effect of Modified CaCO₃ on Thermal and Mechanical Properties of PVC Composites" **Completed (2010)**

2. Ms. S. R. Jangale "Synthesis and Characterization of Calcium Phosphate [Ca₃(PO₄)₂]/Polylactic Acid (PLA) Core-Shell Nanoparticles Using Ultrasonication Irradiation" **Completed (2011)**

3. Mr. Prasanth Khobragade "Novel Synthesis and Characterization of Wollastonite (CaSiO₃) Nanorods/Threads by Hydrothermal Microemulsion Technique: Its Effect on Physical Properties of Styrene Butadiene Rubber (SBR)" **Completed (2013)**

4. Mr. Buddhadas Dhanvijay "Ethylene Vinyl Acetate (EVA) Copolymer Based Elastomer/LDH

nanocomposites: Studies on Nanoparticle Dispersion, Thermal, Mechanical and Fire Retardant Properties” **Completed (2014)**

5. Ms. Shubhangi Morkhede “Physicochemical Properties of Immissible Blends of Poly (3- hydroxybutrate-co-3-hydroxyvalerate) (PHBV) and Polylactide (PLA) via Poly(butylene adipate-co- terephalate) (PBAT) as Compatibilizer” **Completed (2014)**

6. Mr. Sayyed Moshin Ali M. A. “Synthesis and Characterization of Inorganic Core/Rubber Shell Nanoparticles and Preparation of Its Nanocomposites” **Completed (2015)**

7. Mr. Omdev Ghotre “Green Synthesis of Layered Double Hydroxide [LDH] Nanoparticles for Recyclable Removal of Heavy Metal Ions and Its Cytotoxicity” **Completed (2015)**

8. Mr. Srikanth N. More “Preparation of TiO₂@Ag Based Antibacterial Self Cleaning Coating for Textile Application” **Completed (2015)**

9. Mr. Abhishek N. Vanarase “Studies on in Vitro Biogenic Synthesis of Iron Nanofertilizer to Improve Nutritive Value of Coriander” **Completed (2020)**

10. Mr. Sonawale Vinay Alias Manish Avinash, “Development of Biogenically Synthesized Zinc Oxide Nanofertilizer to Enhance Nutritional Value of Fenugreek” **Completed (2020)**

Research Fellow Guided as Principal Investigator (PI)

1. Mr. Shyam Tonde “Sonochemical synthesis of polyacrylonitrile based activated carbon grafted layered double hydroxide: ecofriendly nano-adsorbents for removal of toxic pollutants from drinking and industrial wastewater” **(Ongoing)**

2. Mr. P. Bharadiya “Effect of Nano Filler Masterbatches on Processing of Polymers” **Completed (Sept 13 to June 2014)**

3. Mr. Prasanth S. Khobragade “Synthesis and Characterization of Core Shell Nanoparticles and Their Effect on Rheological Thermal and Mechanical Properties of Polymers” **Completed (May 2012 to June 2014)**

4. Mr. Sarang S. Bari “Effect of Nano Filler Masterbatches on Processing of Polymers” **Completed (Sept 12 to July 2013)**

Ph.D. Fellow Guided as Co-Guide

5. Mr. Dhiraj Kumar Lal “Experimental Investigation of Chemical and Mechanical Properties of Cement Mortar Incorporating Pond Ash-an Environmental Sustainable Material” **Completed (July, 2021)**

6. Mr. Hitesh Patil “Management of Pond Ash for Stabilization of Soil” **Ongoing**

Computer/Software Proficiency

1. Typing, 2. Word Processing, 3. Electronic file management, 4. Emailing, 5. Internet Research, Presentations, 7. Graphic Editing, 8. MS Word, 9. MS Outlook, 10. MS Power Point, 11. MS Excel

a) National Conferences

1. **A. Chatterjee**, R. Zagade, G. Dhole, A Goswami, S. Mishra “Synthesis of Polystyrene Nanoparticles by Microemulsion Process and Their Effect on Thermal Properties of Polymer Matrix” Role of Nano Technology in Polymer and Chemical Industries, 15th March, 2008, North Maharashtra University, Jalgaon. (**Best Poster Presentation Award**).
2. **A. Chatterjee**, R. Bhavskar, S. Shende, M. Deshmukh, S. Mishra “Synthesis of Polymethyl Methacrylate (PMMA) Nanoparticles by Microemulsion Process and Their Characterization” Role of Nano Technology in Polymer and Chemical Industries, 15th March, 2008, North Maharashtra University, Jalgaon.
3. **A.Chatterjee**, S. Mishra “Particle Size and Morphology of Polystyrene Nanoparticles using Microemulsion Technique and Their Effect on Rheological, Thermal and Mechanical
4. Properties of PP Composites” Recent Advances in Polymer Technology, 30th January, 2009, North Maharashtra University, Jalgaon. (**Best Poster Presentation Award**).
5. **A.Chatterjee**, S. Mishra, “Novel Synthesis of Organic and Organo-Inorganic Hybrid Nanoparticles by Atomized Microemulsion Technique and Their Effect on Commodity Polymers” National Conference on Nanoscience and Nanotechnology, 17-19 January 2010, Visvesvaraya National Institute of Technology, Nagpur.
6. **A.Chatterjee**, S. Mishra “Effect of Surfactant and Co-Surfactant on Synthesis of Polymer Nanoparticles by Microemulsion Process” Recent Advances in Polymer Technology, 15th January, 2011, North Maharashtra University, Jalgaon.
7. **A.Chatterjee**, S. Mishra, Polystyrene Nanoparticles as Impact Modifier and Its Effect on Rheological and Mechanical Properties of LLDPE Matrix” Recent Advances in Polymer Technology, 15th January, 2011, North Maharashtra University, Jalgaon.
8. A. Churi, **A. Chatterjee**, S. Mishra, Particle Size, Morphology and Thermal Properties of Polymethyl Methacrylate Nanoparticles in Microemulsion Process and Their Effect on Processing of LLDPE, POLYMER QUEST 2011, 4-5 November, 2011, Indian Institute of Technology, Rubber Technology Centre, Kharagpur 721302, India.
9. C. Bhogle, **A. Chatterjee**, S. Mishra, Rheological, Thermal and Mechanical Properties of Nano-Calcium Carbonate (CaCO₃)/ Poly(Methyl Methacrylate) [PMMA] Core-Shell Nanoparticles Reinforced Polypropylene (PP) Composites, POLYMER QUEST 2011, 4-5 November, 2011, Indian Institute of Technology, Rubber Technology Centre, Kharagpur 721302, India.
10. S. R. Jangale, **A. Chatterjee**, S. Mishra, Synthesis and Characterization of Calcium Phosphate [Ca₃(PO₄)₂]/Polylactic Acid (PLA) Core-Shell Nanoparticles Using Ultrasonication Irradiation, Recent Advances in Polymer Technology, 2-3 March, 2012, North Maharashtra University, Jalgaon.
11. A. Churi, C. Bhogle, **A. Chatterjee**, S. Mishra, Nano Filler Mediated Masterbatches and Their Effect

- on Processing of Polymers, Recent Advances in Polymer Technology, 2-3 March, 2012, North Maharashtra University, Jalgaon.
12. V. Jagtap, P. Bari, **A. Chatterjee**, S. Mishra, Thermal Behavior of Reactive Monomer Modified Nano-CaCO₃/Polypropylene (PP) Composites, Recent Advances in Polymer Technology, 2-3 March, 2012, North Maharashtra University, Jalgaon.
 13. Ravi Shinde, Snehal Waikar, P. S. Khobragade, **A. Chatterjee** & S. Mishra, Novel Synthesis & Characterization of Nanothread Mineral Filler by Hydrothermal w/o Microemulsion Technique, Techno Thown 2013, National Level Paper presentation, March 22, 2013, COETA, Akola, India. **(Best Oral Presentation Award)**
 14. Jitendra Nath, Gitanjali Chaskar, **A. Chatterjee** & S. Mishra, Waste Fabric Reinforced Composites Techno Thown 2013, National Level Paper presentation, March 22, 2013, COETA, Akola, India. **(3rd Prize in Oral Presentation Award)**
 15. S. S. Bari, **A. Chatterjee** & S. Mishra, Surface Assisted Shape Controlled Nanorod Synthesis by Ultrasonic Irradiation, National Conference on Nano Science and Nanotechnology (NCNST-2013), March 23, 2013, UICT, NMU, Jalgaon, Maharashtra, India.
 16. P. S. Khobragade, **A. Chatterjee** & S. Mishra, Novel Synthesis of Wollastonite (CaSiO₃) Nano-rods by Hydrothermal Microemulsion Technique and its effect on Properties of Styrene Butadiene Rubber (SBR), National Conference on Recent Advances in Polymer Technology (RAPT-2013), March 21-22, 2013, UICT, NMU, Jalgaon, Maharashtra, India.
 17. 16. Jitendra Nath, Gitanjali Chaskar, Prashant S. Khobragade, **Aniruddha Chatterjee*** and Satyendra Mishra, “Novel Synthesis of Nano Filler Additives of wollastonite (CaSiO₃)/Polystyrene (PS) Core-Shell Structures by Atomized Micro emulsion Technique and its Characterization”, **Techno Thown 2014**, National Level Paper presentation, March 7, 2014, COETA, Akola, India. **[2nd prize in Oral Presentation Award]**
 18. D. S. Lal, A. K. Dwivedi, **A. Chatterjee**, XRD characterization and compressive strength of cement mortar incorporating pond ash with cement and sand, National Conference on Materials for Advance Technology and Application MATA-2016, Department of Plastics & Polymer Engineering, Maharashtra Institute of Technology, Aurangabad, Maharashtra, India, September 20-21, 2016.
 19. Participated in Engineering Conference 2017, Advantage Maharashtra Expo 2017, Aurangabad held on 6th January 2017 at Conference Hall, Kalagram, Aurangabad, Maharashtra.
 20. Shyam Tonde, Subhendu Bhandari, Kiran Kharat, **Aniruddha Chatterjee**, Synthesis and characterization of polyacrylonitrile (PAN) based activated nanoparticles grafted layered double hydroxide (LDH), National Conference on Materials for Advance Technology and Application (MATA-2019), Department of Plastic & Polymer Engineering, Maharashtra Institute of Technology, Aurangabad, Maharashtra, India, August 22-23rd, 2019

b) International Conferences

1. S. Mishra, **A. Chatterjee** “Synthesis of Polystyrene Nanoparticles and Their Effect on Rheological, Thermal and Mechanical Properties of PP Matrix” RAMM & ASMP 09, 1-3 June 2009, University of Sains, Penang, Malaysia.
2. **A. Chatterjee**, S. Mishra “Fabrication of Nano-CaCO₃/PS Core-shell Nanoparticles by Atomized Microemulsion Technique and Its Dispersion in PP matrix” Recent Advances in Polymer Technology, 28-29 December 2009, North Maharashtra University, Jalgaon.
3. S. Mishra, **A. Chatterjee** “Synthesis of High Crystalline Polystyrene Nanoparticles by Monomer Atomization in Microemulsion and Their effect on Thermal, Rheological and Mechanical Properties of LLDPE” Indo-Swiss Bond 2010, 11-13 February 2010, Manipal Institute of Technology, Majitar, Rangpo, Sikkim.
4. **A. Chatterjee**, S. Mishra “Core-shell Nanoparticles by Atomized Microemulsion Technique and Its Effect on Properties of Polypropylene (PP) Composites” APSRT 2011, 3-5 March, IIT Kharagpur, West Bengal.
5. **A. Chatterjee**, S. Mishra, Lead chromate [PbCrO₄] nanostructures–surfactant assisted, shape controlled sonochemical synthesis, characterization and application as plastic colour masterbatches, APA–2013: International Conference on “Polymers on the Frontiers of Science and Technology” February 21-23, 2013, Jointly organized by Asian Polymer Association and UICET, Panjab University, Chandigarh
6. P. S. Khobragade, **A. Chatterjee** and S. Mishra, Facile Preparation and Characterization of Nanowollastonite (CaSiO₃)/Polystyrene (PS) Core-Shell Structures by Atomized Microemulsion Technique, International Conference on Polymers on the Frontiers of Science & Technology, February 21-23, 2013, Jointly organized by Asian Polymer Association and UICET, Panjab University, Chandigarh
7. Sharang Bari, **A. Chatterjee** and S. Mishra, Synthesis and Characterization of Calcium Sulphate Nano Rods by Sonication Method, International conference on 3rd FAPS Polymer Congress and Macro-2013, 15-18 May, 2013 JN Auditorium, IIS, Bangalore
8. **Aniruddha Chatterjee*** and Satyendra Mishra, “Physico-mechanical Properties of Hybrid Nano- [Calcium carbonate (CaCO₃)/Polystyrene (PS)]/ High Impact Polystyrene (HIPS) Nanocomposites” Recent Advances in Polymer & Rubber Science & Technology (RAPT 2014)” 22nd - 24th January, 2014, University of Calcutta, West Bengal
9. Sarang S. Bari, **Aniruddha Chatterjee*** and Satyendra Mishra, How The Preferential Adsorption of Surfactants Influence the formation of comb like and dendrimer like morphology: a case study with nano-CaSO₄, International conference on GOLD-CT-2014 School of Chemical Sciences, NMU, Jalgaon, 06-08 February, 2014.
10. P. S. Khobragade, **A. Chatterjee** & S. Mishra, Physico-mechanical Properties of Wollastonite(CaSiO₃)/Styrene Butadiene Rubber (SBR) Nanocomposites, International Conference on Polymers on the Frontiers of Polymers: Vision and Innovations, February 19-21, 2014, Jointly organized by Asian Polymer Association and IIT, Delhi, Indian Habitat Centre, New Delhi, India.

11. Omdev Ghotre, **A. Chatterjee*** The Synthesis of Layered Double Hydroxide [LDH] and Surface Modified Layered Double Hydroxide [S-LDH] for Its Photocatalytic Activity Under Visible Light, International Conference on Advancements in Polymer Science & Technology APA-2015, Jointly organized by Asian Polymer Association and Department of Chemistry, Saurash, October 29-31, 2015.
12. As a **Delegate** participated in **International Conference on “5th Bangalore Nano 2012”**, jointly organized by Department of IT, Biotechnology and Science & Technology, Government of Karnataka, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR) and MM ACTIV, India’s leading Sci-Tech Communication Company on December 5-7, 2012, The Lalit Ashok, Bangalore, India
13. As a **Delegate** participated in **International Conference on “6th Bangalore India Nano 2013”**, Department of Information Technology, Biotechnology and Science & Technology, Government of Karnataka in association with Karnataka's Vision Group on Nanotechnology on December 4-6, 2013, The Lalit Ashok, Bangalore, India.
14. Patil Hitesh kumar Santosh, Arunkumar Dwivedi, **Aniruddha Chatterjee**, “Enhancement of Plastic Stage Properties of Self Compacting Concrete Using Nano Composite Particles” 11th International Conference on Recent Innovations in Science, Engineering and Management” on 7th April, 2018, Genba Spooanrao Moze College of Engineering, Balewadi-Baner, Pune, Maharashtra, India.
15. Patil Hitesh kumar Santosh, Arunkumar Dwivedi, **Aniruddha Chatterjee**, “Laboratory Investigation of Portland Pozzolona Cement (PPC) with Hot Mix Plant Filler Material (HMPFM)” 3rd International Conference on Recent Developments in Science, Humanities & Management (ICRDSHM-18)” on 22nd July 2018, Mahratta Chamber of Commerce, Industries and Agriculture Tilak Road, Pune (India).
16. D. S. Lal, A. K. **A. Chatterjee**, Dwivedi, Utilization of Alternative Materials and Industrial Water for Preparation of Cement Mortar-A Review, International Conference on Emerging Trends in Management, Engineering, Law, Technology and Science (ICEMELTS’18) organized by Sandip University, Nashik during 3-5th December, 2018.
17. Patil Hitesh kumar Santosh, Arunkumar Dwivedi, **Aniruddha Chatterjee**, “Assessment of sustainable self compacting concrete with nanoparticles at early stages” International conference on “Exploring New Horizons in Chemical Sciences (ENHCS)-2019” organized by Department of Chemistry, Deogiri College, Aurangabad during 10-12th January, 2019.
18. D. S. Lal, A. K. Dwivedi, **A. Chatterjee**, “Stress-Strain Characteristics of Brick Masonry Prepared with Pond Ash in Cement Mortar Uniaxial Compressive Strength” in International Conference on “Exploring New Horizons in Chemical Sciences (ENHCS)-2019” organized by Department of Chemistry, Deogiri College, Aurangabad during 10-12th January, 2019.

Seminar/Workshop/ Industrial Training/ STTP//FDP/CEP/Conference organized

1. As **Treasurer** organized **National Conference** on “Recent Advances in Polymer Technology (RAPT-2011)”, 15th January, 2011, Department of Chemical Technology, North Maharashtra University, Jalgaon, Maharashtra.

2. As **Organizing Member** organized **National Conference** on “Recent Challenges in Pharmaceutical Sciences & Technology and Nanostructures & Nanomaterials”, 19 March, 2011, Department of Chemical Technology, North Maharashtra University, Jalgaon, Maharashtra.
3. As **Organizing Member** organized **National Conference** on “Nanomaterials, Industrial Polymers and Eco-friendly Coatings- Perspectives and Challenges” (NIPEC-2012)”, 18th Febuary, 2012, jointly organized by School of Chemical Sciences and Department of Chemical Technology, North Maharashtra University, Jalgaon, Maharashtra.
4. As **Secretary** organized **National Conference** on “Recent Advances in Polymer Technology (RAPT-2012)”, 2-3 March, 2012, Department of Chemical Technology, North Maharashtra University, Jalgaon, Maharashtra.
5. As **Secretary** organized **National Conference** on “Recent Advances in Polymer Technology (RAPT-2013)”, 21-22 March, 2013, University Institute of Chemical Technology, North Maharashtra University, Jalgaon, Maharashtra.
6. As **Treasurer** organized **National Conference** on “Nano Science and Nanotechnology (NCNST-2013)”, 23 March, 2013, University Institute of Chemical Technology, North Maharashtra University, Jalgaon, Maharashtra.
7. As **Member** organized **National Conference** on “Recent Advances in Food & Fermentation Technology (RAFFT-2013)” 25 Sepemeber, 2013, University Institute of Chemical Technology, North Maharashtra University, Jalgaon, Maharashtra.
8. As **Member** organized **National Conference** on “Emerging Trends in Oleochemicals and Ecofriendly Coating Technologies”, 28 September, 2013, University Institute of Chemical Technology, North Maharashtra University, Jalgaon, Maharashtra.
9. As **Convener** organized 1st **National Conference** on “Materials for Advanced Technology and Application” 20-21 September, 2016, Department of Plastics and Polymer Technology, Maharashtra Institute of Technology, Aurangabad
10. As **Organizing Member** actively contributed in **District Level Avishkar-2016** jointly for Aurangabad and Janla organized by Avishkar Cell, Dr. BAMU, Aurangabad and G. S. Mandal’s MIT College, Satara Campus, Beed bypass, Aurangabad on 5th November 2016.
11. As **Convener** organized 2nd **National Conference** on Materials for Advanced Technology and Application, 22-23 August, 2019, Department of Plastics and Polymer Technology, Maharashtra Institute of Technology, Aurangabad
12. As **Organizing Member** organized “Professional Certificate Course on Nanotechnology”, December 26-30, 2011, Department of Chemical Technology, North Maharashtra University, Jalgaon, Maharashtra.

13. As **Joint Secretary** organized “AICTE Staff Development course on Recent Advances in Nanoscience & Nanotechnology (RANSNT-2012)”, 15-30 June, 2012, School of Chemical Technology, North Maharashtra University, Jalgaon, Maharashtra.
14. As **Head**, Department of Plastic and Polymer Technology, MIT, Aurangabad organized 6 days workshop for students on “Plastics Product Design & Modelling using CAD” on 1-5 March 2016.
15. As **Head**, Department of Plastic and Polymer Technology, MIT, Aurangabad organized 6 days Training Course on “Fourier Transform Infrared Spectroscopy” on 20-25 February, 2017.
16. As **Joint Organizing Secretary** organized two days workshop on “Intellectual Property Rights & Opportunity for Funded Research” on 5-6 January 2018 in Maharashtra Institute of Technology, Aurangabad.
17. As **Convener** organized 6 day’s Faculty Development Program (FDP) on “Advanced Analytical Testing and Characterization”, in association with Shimadzu, Toshvin Analytical and Spinco Biotech Pvt. Ltd. on 2-7 July, 2018 at Department of Plastic & Polymer Technology, Maharashtra Institute of Technology, Aurangabad.
18. As **Head**, Department of Plastic and Polymer Technology, MIT, Aurangabad organized 5 days Value Added Certificate Course on “Advanced Method for Processing, Characterization of Materials” on 21-25 June, 2021.

Webinar organized

1. As **Head of the Department** organized Webinar on “*FTIR spectroscopy and Thermal Analysis of Materials*” on 20th & 25th May, 2020 by Department of Plastic and Polymer Engineering, MIT, Aurangabad, Maharashtra.
2. As **Convener** organized Webinar on “*Technologies for Environmental Sustainability*” on 7th June, 2020 by Department of Plastic and Polymer Engineering, MIT, Aurangabad, Maharashtra.
3. As **Convener** organized Webinar on “*How to Measure and Mitigate The Comprehensive Pollution Index of an Industrial Cluster*” on 7th June, 2020 by Department of Plastic and Polymer Engineering, MIT, Aurangabad, Maharashtra.
4. As **Convener** organized Webinar on “*Principle and applications of Malvern Panalytical Zetasizer in Polymers and Pharmaceutical Field*” on 23rd & 24th July, 2020 by MIT-Centre for Advanced Materials Research and Technology (M-CAMRT), Department of Plastic and Polymer Engineering, MIT, Aurangabad, Maharashtra.

5. As **Head of the Department** organized Webinar on “**INDUSTRY 4.0 from SME Perspective**” on 2nd August, 2020 by MIT-Centre for Advanced Materials Research and Technology (M-CAMRT), Department of Plastic and Polymer Engineering, MIT, Aurangabad, Maharashtra in association with Institution’s Innovation Council, MIT, Aurangabad, Maharashtra.
6. As **Convener** organized Webinar on “**Fundamentals of Masterbatches & Next Generation Masterbatches**” on 29th August, 2020 by Department of Plastic and Polymer Engineering, MIT, Aurangabad, Maharashtra.
7. As **Head of the Department** organized Webinar on “**Identifying Intellectual Property Components at Early Stage of Innovation**” on 29th December, 2020 by Department of Plastic and Polymer Engineering, MIT, Aurangabad, Maharashtra in association with Institution’s Innovation Council, MIT, Aurangabad, Maharashtra.
8. As **Head of the Department** organized Webinar on “**Call for paper writing and research report on Innovation**” on 6th January, 2021 by Department of Plastic and Polymer Engineering, MIT, Aurangabad, Maharashtra in association with Institution’s Innovation Council, MIT, Aurangabad, Maharashtra.
9. As **Head of the Department** organized Webinar on “**Advanced Surface Characterisation Techniques**” on 22nd and 23rd June, 2021 organized by Advanced Materials Research and Technology (CAMRT), Department of Plastic and Polymer Engineering, MIT, Aurangabad, Maharashtra in association with Anton Paar India Pvt. Ltd., Mumbai, .

Invited talks delivered

1. A. Chatterjee, “Advanced Hybrid Nanostructure: Preparation, Characterization & Application ” International Conference on Nano-Structure Materials & Devices (ICNSMD-2018) December 17-20, 2018, Delhi University, New Delhi, India.
2. **Invited Speaker on** ISTE Approved Two Week Faculty Development Program on “**Research Proposal, Funding Agencies, Product Development and Consultancy**” and deliver an Expert session on “**Proposal Submission by Individual or Group, Role of PI and CI, International Funding**” organized by Civil Engineering department, Pimpri Chinchwad College of Engineering, Akurdi, Pune

Projects, Research Grants and Consultancy

<i>Sl. No.</i>	<i>Title</i>	<i>Duration</i>	<i>Sponsoring Authority</i>	<i>Funds Sanctioned (INR.)</i>	<i>Present Status</i>	<i>PI/ Co-PI</i>
1	Sonochemical synthesis of polyacrylonitrile based activated carbon grafted layered double hydroxide: ecofriendly nano-adsorbents for removal of toxic pollutants from drinking and industrial wastewater	3 yrs	Nanomission, DST New Delhi, Govt. Of India Project Reference No. SR/NM/NT110 6/2016	7,08,000/-	Ongoing (Commencement of Project- 20 th September, 2018)	PI
2	Investigation on Preparation and Properties of Nano Inorganic Filler Mediated Masterbatches and Their Effect on Rheological, Thermal and Mechanical Properties of Polymer Nanocomposites.	3 yrs	DST Fastrack Young Scientist Major Research Project F. No.SERC/ET-0302/2010	22,30,000/-	Completed with 3 publications and 2 patents	PI
3	Effect of nano filler masterbatches on processing of polymers	3 yrs	UGC Major Research, Project F. No. 41-375/2012(SR)	13,54,800/-	Completed with 2 publications	PI
4	Synthesis and Characterization of Core-Shell Nanoparticles and Their Effect on Rheological Thermal and Mechanical Properties of Polymers,	3 yrs	UGC Major Research Project, F. No. 40-10/2011 (SR)	11,11,294/-	Completed with 5 publications	Co-PI
5	Novel Synthesis and Characterization of Hybrid Nano-rods and Their Effect on Physical and Mechanical Properties of Polymers	2 yrs	TEQIP-II, Seed Money Proposal	2,00,000/-	Completed with 2 publications	PI

Intellectual Property Rights

1. S. Mishra, A. Chatterjee "A Process for Synthesis of Polymer Latex Nanoparticles by Monomer Atomization in Microemulsion" Indian Patent No. 254969, 10/01/2013
2. Aniruddha Chatterjee, Chinmay Hazra, Debasree Kundu, Ambalal Chaudhari and Satyendra Mishra, "Biosurfactant Fictionalized Biodegradable Filler and Polymer Composite Derived Therefrom" Indian Patent Application No. 2725/MUM/2014, Dated: 26/08/2014, Online Publication Date: 12/09/2014
3. Aniruddha Chatterjee, Chinmay Hazra, Debasree Kundu, Ambalal Chaudhari and Satyendra

Mishra, “Biodegradable Masterbatches and Compositions Thereof” Indian Patent Application No. 2726/MUM/2014, Dated: 26/08/2014, Online Publication Date: 26/09/2014

4. Harshal Jitendra Wagh, Dhirajkumar Sukhwasi Lal, Arun Kumar Dwivedi, Aniruddha Chatterjee and Sambhaji Hanumanthrao Rajebhosle “Slider Irrigation System (SIS)” Indian Patent Application No.201721038433 A, Dated: 30/10/2017, Online Publication Date: 10/11/2017

5. Dhirajkumar Sukhwasi Lal, Aniruddha Chatterjee and Arun Kumar Dwivedi, “Phase Identification of Pond Ash Substituted Cement Mortar” Indian Patent Application Number: 201821010119, Filing Date: 20/03/2018

6. Aniruddha Chatterjee, Shyam Gajanan Tonde, Vijendra Rajendra Chaudhari, Parthkumar Dipakbhai Patil, “A FILTRATION SYSTEM” *Indian Patent Application Number: 202121000074*, Filing Date: 02/01/2021, Online Publication Date: 29/01/2021

List of Research Publications

Google Citations-584, h-index-14, i10-index-17, Scopus Citations-485, h-index-13

Lowest Impact Factor-2.227, Highest Impact Factor-13.282

Papers in National/ International Journal

1. B. B. Raje Shaikh, Bhagwan G. Toksha, Sagar E. Shirsath, **Aniruddha Chatterjee**, Shyam Tonde, Syed Qadeeruddin Chishty, Microstructure, magnetic, and dielectric interplay in NiCuZn ferrite with rare earth doping for magneto-dielectric applications, *Journal of Magnetism and Magnetic Materials*, 537 (2021) 168229, **Impact Factor: 2.993** DOI: <https://doi.org/10.1016/j.jmmm.2021.168229>
2. Yogesh Khairnar, Dharmesh Hansora, Chinmay Hazra, Debasree Kundu, Saurabh Tayde, Shyam Tonde, Jitendra Naik, **Aniruddha Chatterjee***, Recent advancement in cellulose bionanocomposites: An overview of preparation, properties, and applications, *Carbohydrate Polymer Technologies and Applications*, 2 (2021) 100065. Available online 14 April 2021 (Carbohydrate Polymer Technologies and Applications is a companion journal to Carbohydrate Polymers with **Impact Factor: 9.381**) DOI: <https://doi.org/10.1016/j.carpta.2021.100065>
3. Dhirajkumar Lal, **Aniruddha Chatterjee***, Arunkumar Dwivedi, Investigation of Properties of Cement Mortar Incorporating Pond Ash - An Environmental Sustainable Material” *Journal Construction & Building Materials*, 209, 20-31 (2019), **Impact Factor: 6.141** DOI: [10.1016/j.conbuildmat.2019.03.049](https://doi.org/10.1016/j.conbuildmat.2019.03.049)
4. **Aniruddha Chatterjee***, Preetam Bharadiya, Dharmesh Hansora, Layered double hydroxide based bionanocomposites, *Applied Clay Science*, 177 (2019) 19-36. **Impact Factor: 5.467**, DOI: <https://doi.org/10.1016/j.clay.2019.04.022>
5. Dhirajkumar Lal, **Aniruddha Chatterjee***, Arunkumar Dwivedi, Stress-Strain Characteristics of Brick Masonry Prepared with Pond Ash in Cement Mortar Under Uniaxial Compressive Strength”, *European Chemical Bulletin (ECB) section B- Materials and Environmental Chemistry*, March 2019, Volume 8(1) , 23-25 DOI: [10.17628/ecb.2019.8.23-25](https://doi.org/10.17628/ecb.2019.8.23-25)

6. Dhirajkumar Lal, Arunkumar Dwivedi, **Aniruddha Chatterjee**, Microstructure Study And Strength Behavior Of Cement Mortar Incorporating Pond Ash, **Journal of Emerging Technologies and Innovative Research (JETIR)**, June 2018, Volume 5, Issue 6, 64-71. **ISSN NO : 2349-5162**
7. Patil Hitesh kumar Santosh, Arunkumar Dwivedi, **Aniruddha Chatterjee**, Laboratory Investigation of Portland Pozzolona Cement (PPC) with Hot Mix Plant Filler Material (HMPFM), **International Journal of Management, Technology And Engineering**, Volume 8, Issue VII, JULY/2018, 495-499, **ISSN NO : 2249-7455**
8. Patil Hitesh kumar Santosh, Arunkumar Dwivedi, **Aniruddha Chatterjee**, Enhancement of Plastic Stage Properties of Self Compacting Concrete Using Nano Composite Particles, **International Journal of Advance Research in Science and Engineering** Vol. 7, 2018, 911-917. **ISSN:2319-8354**
9. Patil Hitesh kumar Santosh, Arunkumar Dwivedi, **Aniruddha Chatterjee**, Optimize Properties of Concrete with Silica Fume, **MAYFEB Journal of Materials Science Vol 2 (2017) - Pages 1-4. ISSN 2371-8722**
10. Prashant S. Khobragade, Jitendra B. Naik, **Aniruddha Chatterjee***, Polystyrene Grafted Wollastonite Nano-filler for Styrene Butadiene Rubber Nanocomposite: Rheological, Thermal and Mechanical Studies, **Polymer Bulletin**, 74 (2017) 1915-1934, **Impact Factor: 2.870 DOI: 10.1007/s00289-016-1812-2**
11. Debasree Kundu, Chinmay Hazra, **Aniruddha Chatterjee***, Ambalal Chaudhari and Satyendra Mishra, Surfactin functionalized poly(methyl methacrylate) as eco-friendly nano-adsorbent: from size controlled scalable fabrication to adsorptive removal of inorganic and organic pollutants, **RSC Advances**, 2016, 6, 80438-80454, **Impact Factor: 3.84, DOI: 10.1039/C6RA10804K**
12. Prashant S. Khobragade, D.P. Hansora, Jitendra B. Naik, **Aniruddha Chatterjee***, Flame Retarding Performance of Elastomeric Nanocomposites: A Review, **Polymer Degradation and Stability**, 130, 194-244 (2016) **Impact Factor: 5.030, <http://dx.doi.org/10.1016/j.polymdegradstab.2016.06.001>**
13. **Aniruddha Chatterjee***, Prashant Khobragade, Satyendra Mishra and Jitendra Naik, Advanced Microemulsion Synthesis and Characterization of Wollastonite (CaSiO₃) /Polystyrene (PS) One Dimensional (1D) Nano-rods with Core-Shell Structures , **Particuology**, **Impact Factor: 3.067 (Published Online on 02/07/2016), <http://dx.doi.org/10.1016/j.partic.2016.04.002>**
14. Sarang S. Bari, **Aniruddha Chatterjee**, Satyendra Mishra, Biodegradable Polymer Nanocomposites – An Overview, **Polymer Reviews**, 56, 287-328, (2016) **Impact Factor: 13.282, DOI: 10.1080/15583724.2015.1118123**
15. Sarang S. Bari, **Aniruddha Chatterjee***, Satyendra Mishra*, Ultrasonication assisted and surfactant mediated synergistic approach for synthesis of calcium sulfate nano- dendrites, **Ultrasonics Sonochemistry**, 31, 39-50 (2016) **Impact factor: 7.491,**

[DOI:10.1016/j.ultsonch.2015.11.024](https://doi.org/10.1016/j.ultsonch.2015.11.024)

16. A. Chatterjee*, P. S. Khobragade, S. Mishra, Physico-mechanical Properties of Wollastonite (CaSiO₃)/Styrene Butadiene Rubber (SBR) Nanocomposites, *Journal of Applied Polymer Science*, **Impact Factor: 3.125**, Published online on 21st August, 2015, [DOI:10.1002/app.42811](https://doi.org/10.1002/app.42811)
17. Chinmay Hazra, Sarang Bari, Debasree Kundu, Ambalal Chaudhari, Satyendra Mishra, Aniruddha Chatterjee* “Ultrasound-assisted/biosurfactant-templated size-tunable synthesis of nano-calcium sulfate with controllable crystal morphology” *Ultrasonics Sonochemistry*, 20, 1117-1131 (2014) **Impact factor: 7.491**, [DOI: 10.1016/j.ultsonch.2013.12.020](https://doi.org/10.1016/j.ultsonch.2013.12.020)
18. Chinmay Hazra, Debasree Kundu, Aniruddha Chatterjee*, Ambalal Chaudhari and Satyendra Mishra, Biopolymer and Biosurfactant-graft-Calcium Sulphate/Polystyrene Nanocomposites: Thermophysical, Mechanical and Biodegradation Studies, *Polymer Degradation and Stability*, 107, 37-52 (2014) **Impact Factor: 5.030**, [DOI:10.1016/j.polymdegradstab.2014.05.001](https://doi.org/10.1016/j.polymdegradstab.2014.05.001)
19. Chinmay Hazra, Debasree Kundu, Aniruddha Chatterjee*, Ambalal Chaudhari and Satyendra Mishra Poly(methyl methacrylate) (core)-biosurfactant (shell) nanoparticles: size controlled sub-100 nm synthesis, characterization, antibacterial activity, cytotoxicity and sustained drug release behaviour, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 449, 96–113(2014) **Impact factor: 4.539**, [DOI:10.1016/j.colsurfa.2014.02.051](https://doi.org/10.1016/j.colsurfa.2014.02.051)
20. Debasree Kundu, Chinmay Hazra, Aniruddha Chatterjee*, Ambalal Chaudhari and Satyendra Mishra, Extracellular Biosynthesis of Zinc Oxide Nanoparticles Using *Rhodococcus Pyridinivorans* NT2: Multifunctional Textile Finishing, Biosafety Evaluation and *In Vitro* Drug Delivery in Volon Carcinoma, *Journal of Photochemistry and Photobiology B: Biology*, 140, 194-204, 2014, **Impact Factor: 6.252**, [DOI:10.1016/j.jphotobiol.2014.08.001](https://doi.org/10.1016/j.jphotobiol.2014.08.001)
21. A. Chatterjee, S. Mishra, Novel synthesis with an atomized microemulsion technique and characterization of nano-calcium carbonate (CaCO₃)/poly(methyl methacrylate) core-shell nanoparticles, *Particuology*, 11, Issue 6, December 2013, Pages 760–767 **Impact Factor: 3.067**, [DOI: 10.1016/j.partic.2012.11.005](https://doi.org/10.1016/j.partic.2012.11.005)
22. A. Chatterjee, S. Mishra, Nano-Calcium Carbonate (CaCO₃)/Polystyrene (PS) Core-shell Nanoparticle: It’s Effect on Physical and Mechanical Properties of High Impact Polystyrene (HIPS), *Journal of Polymer Research*, 20, 1-12 (2013) **Impact Factor: 3.097**, [DOI :10.1007/s10965-013-0249-7](https://doi.org/10.1007/s10965-013-0249-7)
23. A. Chatterjee, S. Mishra, Rheological, Thermal and Mechanical Properties of Nano-Calcium Carbonate (CaCO₃)/Poly(Methyl Methacrylate) [PMMA] Core-Shell Nanoparticles Reinforced Polypropylene (PP) Composites, *Macromolecular Research*, 21, 474-483 (2013) **Impact Factor: 2.227**, [DOI: 10.1007/s13233-013-1049-y](https://doi.org/10.1007/s13233-013-1049-y)
24. A. Chatterjee, S. Mishra, Novel Synthesis of Crystalline Polystyrene Nanoparticles (nPS) by Monomer Atomization in Microemulsion and Their Effect on Thermal, Rheological and Mechanical Properties of Polypropylene (PP), *Macromolecular Research*, 20, 780-788 (2012) **Impact Factor:**

2.227, DOI: 10.1007/s13233-012-0108-0

25. S. Mishra, A. Chatterjee, Raj Pal Singh, Novel Synthesis of Nano-CaCO₃/Polystyrene Core-shell Nanoparticles by Atomized Microemulsion Technique and Its Effect on Properties of Polypropylene (PP) Composites, *Polymers for Advance Technologies*, 22, 2571–2582 (2011) **Impact Factor: 3.665, DOI: 10.1002/pat.1802**
26. S. Mishra, A. Chatterjee, Vijay Kumar Rana, Polymer Nanoparticles: Their Effect on Rheological, Thermal and Mechanical Properties of Linear Low-Density Polyethylene (LLDPE), *Polymers for Advanced Technologies*, 22, 1802–1811 (2011) **Impact Factor: 3.665, DOI: 10.1002/pat.1674**
27. S. Mishra, A. Chatterjee, Effect of Nano-Polystyrene (nPS) on Thermal, Rheological and Mechanical Properties of Polypropylene (PP), *Polymers for Advanced Technologies*, 22, 1547–1554 (2011) **Impact Factor: 3.665, DOI: 10.1002/pat.1637**
28. S. Mishra, A. Chatterjee, Novel Synthesis of Polymer and Copolymer Nanoparticles by Atomized Microemulsion Technique and Its Characterization, *Polymers for Advanced Technologies*, 22 1593–1601 (2011) **Impact Factor: 3.665, DOI: 10.1002/pat.1646**
29. S. Mishra, A. Chatterjee, Particle Size, Morphology and Thermal Properties of Polystyrene Nanoparticles in Microemulsion Process, *Journal of Polymer-Plastics Technology and Engineering*, 49: 791–795 (2010) **Impact Factor: 3.267, DOI:10.1080/03602551003749593**

Books/ Book Chapter

1. Aniruddha Chatterjee*, Dharmesh P. Hansora, **Book Chapter Title: “Graphene Based Functional Hybrid Nanostructures: Preparation, Properties And Applications”** for the book edition entitled “**Advanced Functional Materials: Properties and Applications**” Published Online 18/02/2016, Vol. 842, pp 53-75, Trans Tech Publications Ltd. Laubisrutistr. 24, CH-8712 Stafa-Zuerich, Switzerland. (www.scientific.net).
2. Aniruddha Chatterjee*, Dharmesh P. Hansora, **Book Chapter Title: “Green Polymer Nanocomposites: Preparation, Properties and Biomedical Applications”** for the book edition entitled “**Green Polymer Composites Technology: Properties and Applications**” to be published by CRC Press and Taylor & Francis Asia Pacific, **Edition: 1st, ISBN13: 9781498715461 ISBN10: 149871546X, Pub. Date: November 1, 2016.**
3. Aniruddha Chatterjee*, Prashant S. Khobragade, **Book Chapter Title: "Styrene–Butadiene Rubber-Based Nanoblends (SBR-nB): Preparation, Characterization, and Applications" Book: Rubber Nano Blends Preparation, Characterization and Applications, Springer, ISBN: 978-3-319-48718-2 (Print) 978-3-31, 2016/11.**
4. Dharmesh P. Hansora*, Aniruddha Chatterjee, **Book Chapter Title: “A basic overview of Fuel Cells”** for the book edition entitled “**Organic-Inorganic Composite Polymer Electrolyte Membranes: Preparation, Properties and Fuel Cell Applications**” Springer, ISBN 978-3-

319-52738-3 (Print), 399-420, 2017.

5. **Aniruddha Chatterjee***, Dharmesh P. Hansora, **Book Chapter Title:** “Fabrication Techniques for the polymer electrolyte membrane fuel cells” for the book edition entitled “**Organic-Inorganic Composite Polymer Electrolyte Membranes: Preparation, Properties and Fuel Cell Applications**” Springer, ISBN 978-3-319-52738-3 (Print), 359-380, 2017.
6. **Aniruddha Chatterjee***, Chinmay Hazra and Debasree Kundu **Book Chapter Title:** Stimuli-responsive nanocomposites for drug delivery, book edition Volume 1 Applications of Nanocomposite Materials in Drug Delivery published by Elsevier, Inc. USA, 823-841, 2018 DOI: <https://doi.org/10.1016/B978-0-12-813741-3.00036-4>,
7. **Aniruddha Chatterjee***, Dharmesh Hansora, Purabi Bhagabati and Mostafizur Rahaman **Book Chapter Title:** “The Use of Polymer-Carbon Composites in Fuel Cell and Solar Energy” for the book edition entitled “**Carbon-Containing Polymer Composites: From Fundamentals to Real Applications with Types and Geometrical/Structural Aspect of Carbons**” published under Springer book series “Springer Series on Polymer and Composite Materials” 533-544, 2018, DOI: https://doi.org/10.1007/978-981-13-2688-2_15

Awards, Achievements and Recognition

- RULAAWARD-2019, Best Research Scientist Award in Material Science and Engineering in 2019.
- DST-FASTRACK Young Scientist Fellowship for post-doctoral research at UICT, NMU, Jalgaon.
- Excellence Award for Quality Research Paper-2014, North Maharashtra University
- Excellence Award for Quality Research & Development-2013, North Maharashtra University.
- Received Cosmo Films "Merit Award" for having secured the first position in B. Sc., 2002.
- Senior Research Fellowship under CSIR Major Research Project [Letter No. NMU/3/CSIR/SM/Proj./473/2009]
- Project Fellowship under UGC Major Research Project [Letter No. F.No.NMU/3/682/2007 dated 10 May 2007].
- Recognition as Post Graduate Teacher/Ph.D. Guide in the subject of Chemical Technology under the faculty of Engineering & Technology, North Maharashtra University [NMU/11/PGR/Chem. Tech./2413/2013, Dated: 18/11/2013]
- Recognition as M. Phil. and Ph.D. Guide in the subject of Chemistry under the faculty of Science, North Maharashtra University [NMU/11/PGR/Chem./1538/2013, Dated: 26/07/2013].

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