Dr. Parag Pralhad Thakur

Assistant Professor, Sardar Vallabhbhai National Institute of Technology, Surat (INDIA)

https://orcid.org/0000-0003-2227-0143

BASIC INFORMATION:

Address: 103, Chem. Engg. Dept., Sardar Vallabhbhai National Institute of Technology, Surat-395 007 (Gujarat.) INDIA

Contact No. : (+91) 89992 54795

Date of Birth: 26/12/1994

E-mail : paragthakur674@gmail.com

paragthakur@ched.svnit.ac.in

Research at glance:	**Google Scholar**	
1. Journal articles : 10	Citations	618
2. Patents : 03	H-index	13
3. Book Chapters : 35	i-10 index	13
4. Book : 01	**Scopus**	
5. Conferences : 31	Citations	447
6. Workshops : 23	H-index	10
7. Journal Reviewer : 01		

- **PROFILE LINKS:**
  1. **Linked-In:** https://www.linkedin.com/in/parag-Thakur-50255813b/
  2. **Research Gate:** https://www.researchgate.net/profile/Parag_Thakur
  3. **Google Scholar:** https://scholar.google.com/citations?user=RB2cw7oAAAAJ&hl=en

- **Experience**
  1. **Sardar Vallabhbhai National Institute of Technology, Surat**
     Job Role: **Assistant Professor**, From October 2023 to Till Date
  2. **Chonnam National University, South Korea**
     Job Role: **Post-Doc Fellow**, June 2023 - September 2023 **(4 Months)**
  3. **National Institute of Technology, Warangal,**
     Job Role: **Ad-hoc Faculty**, From August 2022 to May 2023 **(10 Months)**
  4. **Visvesvaraya National Institute of Technology, Nagpur**
     Job Role: Research Fellow (Full Time) August 2018- July 2022 (**4 Years**)
  5. **Bhabha Atomic Research Centre, Mumbai**
     Job Role: Project Intern (Full Time) July 2017- June 2018 (**1 year**)
  6. **Dhrangadhra Chemical Works (DCW) limited, Gujarat**
     Job Role: Project Intern (Full-Time) January 2016- June 2016 (**6 months**)

- **Education**
- Doctor of Philosophy (**Ph.D.**) at Chem. Engg, Dept. VNIT, Nagpur (2019-2022)
- Master in Technology **(M. Tech)** in Chem. Engg, at UICT, Jalgaon (2016-2018)
- Bachelor of Technology **(B. Tech.)** in Chem. Engg, at UICT, Jalgaon (2012-2016)

- **Research Interest**
  - ✓ Nanotechnology
  - ✓ Separation Technology
  - ✓ Waste to energy
  - ✓ Renewable energy conservation and effective utilization
  - ✓ Membrane Technology

Date: 9 October 2024

4. **Web of Science:**
   https://www.webofscience.com/wos/author/record/AAC-8681-2021

Research Details:

➢ Journal Articles:

1. Shriram S. Sonawane, Parag P. Thakur, Manjakuppam Malika, Hafiz Muhammad Ali, Recent Advances in the Applications of Green Synthesized Nanoparticle Based Nanofluids for the Environmental Remediation, *Current pharmaceutical biotechnology*, 2023;24(1):188-198 **I. F.- 2.83** (10.2174/1389201023666220411114620) (Publication date: January 1, 2023)
2. Parag P. Thakur, Shriram S. Sonawane, Hussein A Mohammed, Recent Trends in Applications of Nanofluids for Effective Utilization of Solar Energy, Current Nano-Science, 2023, vol. 19, issue 2, pp. 170-185; **I.F.-1.51.** (10.2174/1573413718666220119104138) (Publication Date: 08 June, 2022)
3. Parag Thakur, Nishant Kumar, Shriram Sonawane, Enhancement of pool boiling performance using MWCNT based nanofluids: A sustainable alternative for the heat recovery of wastewater and incinerator, Sustainable Energy Technologies and Assessments, Volume 45, 2021, 101-115, **I.F.- *7.63*** (https://doi.org/10.1016/j.seta.2021.101115)
4. Parag Thakur, Shriram Sonawane, Irina Potoroko, Shirish H Sonawane, Recent Advances in Ultrasound-assisted Synthesis of Nano-emulsions and their Industrial Applications, current pharmaceutical biotechnology, Volume 22, Issue 13, 2021; 1748 - 1758 **I.F.- 2.83** (https://doi.org/10.2174/1389201021666201104150102)
5. Thakur, P. P., Khapane, T. S., & Sonawane, S. S. Comparative performance evaluation of flyash based hybrid nanofluids in micro-channel based direct absorption solar collector. Journal of Thermal Analysis and Calorimetry, **143**, pages1713–1726 (2021); **I.F.- 4.75** (https://doi.org/10.1007/s10973-020-09884-5)
6. Nirvik Sen, Parag Thakur, Sameer Ekhande, R. Sirsam, K.K. Singh, S. Mukhopadhyaya, K.T.Shenoy, Reactive stripping and precipitation of Uranium in Micro-reactors, *Separation science and technology*, *54*(9), 1430-1442, 2019; **IF: 2.80** (https://doi.org/10.1080/01496395.2018.1563158)
7. Sonawane, S. S., Thakur, P. P., & Paul, R. Study on visco-elastic properties enhancement of MWCNT based polypropylene nanocomposites. Materials Today: Proceedings, 2020, 29, 929-933. (https://doi.org/10.1016/j.matpr.2020.05.417)
8. Sonawane, S. S,; Thakur, P. P.; Paul, R. Study of thermal property enhancement of MWCNT based polypropylene (PP) nanocomposites; *ICRAMM 2019 Materials Today Proceedings*, 2020, *Volume 27*(P1), pp-550-555 (https://doi.org/10.1016/j.matpr.2019.12.018)
9. Parag Thakur, Shriram Sonawane, Numeric and experimental investigations of Fe2O3 based nanofluids in direct absorption solar collector, Journal of Indian Chemical Society, 2020, 97 (10a), 1636-1641. **I.F.- *0.24***
10. Sarita Charde, Malika Mudaliar, Parag P. Thakur, Shriram S. Sonawane, Artificial neural network model for prediction of viscoelastic behavior of polycarbonate composites, Journal of Applied Research Technology, 20 (2), (2022) (https://doi.org/10.22201/icat.24486736e.2022.20.2.1101)

➢ Patents

1. Biological degradation of sulphur waste from the mill reject of thermal power plant, Application number: 202221047477, Date of filling 20/08/2022; Date of Publication: 14/04/2023
2. Development of Novel Process for micro-reactor-based Extraction of Heavy Antimony using ionic liquid-based Hybrid Nanofluids, Application number: 202321016794, Date of filling 13/03/2023 Date of Publication: 12/05/2023
3. A hybrid nanofluids based drilling fluid and method of preparation thereof, Application number: 202221050711, Date of filling 06/09/2022 Date of publication: 14/04/2023 Grant Date: 28/08/2024 (Patent No. 548836)

➢ Book

1. Nanofluids: Fundamentals, Applications & Challenges, Emerging Materials and Technologies series, CRC Press, Taylor and Francis publications (Date of Publication Date: 2 July 2024) (https://doi.org/10.1201/9781003404767)
   ISBN No.: 978-1-003-40476-7 (E-Book); 978-1-032-51978-6 (Hard-copy)

➢ Book Chapters

1. Parag P. Thakur, Shriram S. Sonawane, Chapter 32. BiOX-based 2D composites for solar energy harvesting, BiOX-based Photocatalysts for Dual Applications, ELSEVIER publication, 2025, (ISBN: 9780443238611)
2. Parag P. Thakur, Malika Mudailar, Shriram S. Sonawane, Muthupandian Ashok Kumar, Chapter 1: Current overview of applications of the hybrid nanofluids, *Applications of Hybrid Nanofluids in Chemical and Petroleum Industry,* ELSEVIER publication, 2025 (ISBN: 9780443214516) (https://doi.org/10.1016/B978-0-443-21451-6.00001-2)
3. Parag P. Thakur, Shriram S. Sonawane, Dr. Prakash Jadhav, Srinath Suranani, Chapter 3: Overview on Mass transfer enhancement mechanism using the nanofluids, *Applications of Hybrid Nanofluids in Chemical and Petroleum Industry,* ELSEVIER publication, 2025 (ISBN: 9780443214516) (https://doi.org/10.1016/B978-0-443-21451-6.00003-6)
4. Parag P. Thakur, Malika Mudailar, Shriram S. Sonawane, Srinath Suranani, Hussain Mohammad, Chapter 4: Overview of the Heat transfer Enhancement mechanism using the nanofluids, *Applications of Hybrid Nanofluids in Chemical and Petroleum Industry,* ELSEVIER publication, 2025 (ISBN: 9780443214516) (https://doi.org/10.1016/B978-0-443-21451-6.00004-8)
5. Parag P. Thakur, Malika Mudaliar, Shriram Sonawane, Irina Potoroko, Ashok Kumar Muthupandian, Chapter 5: Numerical and experimental investigations of nanofluids application solar collectors for the energy optimization, *Applications of Hybrid Nanofluids in Chemical and Petroleum Industry,* ELSEVIER publication, 2025 (ISBN: 9780443214516) (https://doi.org/10.1016/B978-0-443-21451-6.00005-X)
6. Aaditi Pargaonkar, Parag P. Thakur, Shriram Sonawane, Chapter 6: Applications of nanofluid in boiling operation for enhancement of the critical heat flux (CHF), Applications of Hybrid Nanofluids in Chemical and Petroleum Industry, ELSEVIER publication, 2025 (ISBN: 9780443214516) (https://doi.org/10.1016/B978-0-443-21451-6.00006-1)
7. Parag P. Thakur, Malika Mudaliar, Shriram Sonawane, , Chapter 10: Applications of the hybrid nanofluids in the CO_2 absorption and desorption processes, *Applications of Hybrid Nanofluids in Chemical and Petroleum Industry,* ELSEVIER publication, 2025 (ISBN: 9780443214516) (https://doi.org/10.1016/B978-0-443-21451-6.00010-3)

8. Vishal S. Chandane, Ajit P. Rathod, Parag Thakur, Shriram Sonawane Chapter 11: Applications of hybrid nanofluids in the extraction processes, *Applications of Hybrid Nanofluids in Chemical and Petroleum Industry,* ELSEVIER publication, 2025 (ISBN: 9780443214516) (https://doi.org/10.1016/B978-0-443-21451-6.00011-5)
9. Vishal S. Chandane, Pradeepkumar Ramteke, Ajit P. Rathod, Parag Thakur, Shriram Sonawane Chapter 12: Applications of hybrid Nano fluids in the Proton Exchange Membrane Fuel Cells, *Applications of Hybrid Nanofluids in Chemical and Petroleum Industry,* ELSEVIER publication, 2025 (ISBN: 9780443214516) (https://doi.org/10.1016/B978-0-443-21451-6.00012-7)
10. Parag Thakur, Malika Mudailar, Shriram S. Sonawane, Chapter 13: Challenges of nanofluid applications in the chemical industry, *Applications of Hybrid Nanofluids in Chemical and Petroleum Industry,* ELSEVIER publication, 2025 (ISBN: 9780443214516) (https://doi.org/10.1016/B978-0-443-21451-6.00013-9)
11. Malika Mudailar, Parag Thakur, Shriram S. Sonawane, Chapter 15: Applications of the nanofluids for the drilling fluid, *Applications of Hybrid Nanofluids in Chemical and Petroleum Industry,* ELSEVIER publication, 2025 (ISBN: 9780443214516) (https://doi.org/10.1016/B978-0-443-21451-6.00015-2)
12. Malika Mudailar, Parag Thakur, Shriram S. Sonawane, Chapter 16: Application of the nanofluids for the oil mobility, *Applications of Hybrid Nanofluids in Chemical and Petroleum Industry,* ELSEVIER publication, 2025 (ISBN: 9780443214516) (https://doi.org/10.1016/B978-0-443-21451-6.00016-4)
13. Uma Sankar Behera, Parag Thakur, Shriram Sonawane, Chapter 17: Nanofluids applications in chemical enhanced oil recovery: current opinion and recent advances, *Applications of Hybrid Nanofluids in Chemical and Petroleum Industry,* ELSEVIER publication, 2025 (ISBN: 9780443214516) (https://doi.org/10.1016/B978-0-443-21451-6.00017-6)
14. Malika Mudailar, Parag Thakur, Shriram S. Sonawane, Chapter 18: Investigation of the effects of nanofluids on the hole cleaning efficiency of water based drilling mud, *Applications of Hybrid Nanofluids in Chemical and Petroleum Industry,* ELSEVIER publication, 2025 (ISBN: 9780443214516) (https://doi.org/10.1016/B978-0-443-21451-6.00018-8)
15. Parag Thakur, Shriram Sonawane, Introduction to nanofluids, *Nanofluid Applications For Advanced Thermal Solution,* ELSEVIER Publications, 2023, 1-19 ISBN: 9780443152399 (https://doi.org/10.1016/B978-0-443-15239-9.00001-1)
16. Parag Thakur, Aaditi Pargaonkar, Clara Gongloves, Shriram Sonawane, Synthesis and characterization of Nanofluids , *Nanofluid Applications For Advanced Thermal Solution,* ELSEVIER Publications, 2023, 21-41, ISBN: 9780443152399 (https://doi.org/10.1016/B978-0-443-15239-9.00002-3)
17. Parag Thakur, Irina Potoroko, Shriram Sonawane, Stability of nanofluids, *Nanofluid Applications For Advanced Thermal Solution,* ELSEVIER Publications, 2023, 43-62, ISBN: 9780443152399 (https://doi.org/10.1016/B978-0-443-15239-9.00003-5)
18. Akash kumar, Parag Thakur, Malika Manjakuppam, Shriram Sonawane, Promising nanoparticles for water reuse, *Resource Recovery in Drinking waters* , Elsevier Publications, 2023, 129-145 (ISBN: 978-0-323-99344-9) (https://doi.org/10.1016/B978-0-323-99344-9.00003-7)
19. Parag P Thakur, Manjakuppam Malika, Shriram S Sonawane, Energy recovery from industrial waste waters, *Resource Recovery in Industrial Waste waters* , Elsevier Publications, 2023, 319-336 (ISBN: 978-0-323-95327-6) (https://doi.org/10.1016/B978-0-323-95327-6.00009-9)
20. Manjakuppam Malika, Parag P Thakur, Shriram S Sonawane, Sulfate/Sulfur recovery from

municipal wastewater treatment plants, *Resource Recovery in Municipal Waste waters* , Elsevier Publications, 2023, 145-164
(ISBN: 978-0-323-99348-7) (https://doi.org/10.1016/B978-0-323-99348-7.00003-5)

21. Parag Thakur, Shriram Sonawane, Current overview of nanofluid applications, *Applications of Nanofluids in Chemical and Bio-medical Processing Industry,* Elsevier publication, 2022, 1-26

(ISBN: 978-0-32-390564-0)(https://doi.org/10.1016/B978-0-323-90564-0.00004-0)

22. Parag Thakur, Shriram Sonawane, Ratiram Chaudhary, Thermo-physical and optical properties of the nanofluids, *Applications of Nanofluids in Chemical and Bio-medical Processing Industry,* Elsevier publication, 2022, 27-52

(ISBN: 978-0-32-390564-0)(https://doi.org/10.1016/B978-0-323-90564-0.00006-4)

23. Dhananjay Singh, S K Patel, P Kumar, D Pal, Parag Thakur, Shriram Sonawane, Experimental investigations of direct absorption solar collectors, *Applications of Nanofluids in Chemical and Bio-medical Processing Industry,* Elsevier publication, 2022, 107-132

(ISBN: 978-0-32-390564-0)(https://doi.org/10.1016/B978-0-323-90564-0.00011-8)

24. Parag Thakur, Irina Potoroko, Shriram Sonawane, Numerical and experimental investigations of nanofluid application in car radiators, *Applications of Nanofluids in Chemical and Bio-medical Processing Industry,* Elsevier publication, 2022, 133-162

(ISBN: 978-0-32-390564-0)(https://doi.org/10.1016/B978-0-323-90564-0.00008-8)

25. Shriram S Sonawane, Parag Thakur, Sparsh Bhaisare, Prakash Jadhav, Mathematical, Numerical and experimental investigations of nanofluids applications in Pool Boiling process, *Applications of Nanofluids in Chemical and Bio-medical Processing Industry,* Elsevier publication, 2022, 163-184

(ISBN:978-0-32-390564-0)(https://doi.org/10.1016/B978-0-323-90564-0.00003-9)

26. Shriram Sonawane, Parag Thakur, Sparsh bhaisare, Prakash jadhav, Mathematical, Numerical and experimental investigation of nanofluids application in Flow Boiling processes, *Applications of Nanofluids in Chemical and Bio-medical Processing Industry,* Elsevier publication, 2022, 185-204

(ISBN:978-0-32-390564-0)(https://doi.org/10.1016/B978-0-323-90564-0.00002-7)

27. Parag Thakur, Shriram Sonawane, Mathematical and Numerical investigations of CO_2 absorption and desorption process, *Applications of Nanofluids in Chemical and Bio-medical Processing Industry,* Elsevier publication, 2022, 205-226

(ISBN: 978-0-32-390564-0)(https://doi.org/10.1016/B978-0-323-90564-0.00007-6)

28. Parag Thakur, Hasan Uslu, Shriram Sonawane, Experimental investigation of CO_2 absorption process using nanofluids, *Applications of Nanofluids in Chemical and Bio-medical Processing Industry,* Elsevier publication, 2022, 227-250

(ISBN: 978-0-32-390564-0)(https://doi.org/10.1016/B978-0-323-90564-0.00001-5)

29. ST Yerpude, AK Potbhare, PR Bhilkar, Parag Thakur, Pratiksha Khiratkar, Martin F Desimone, PR Dhongle, Shriram S Sonawane, Clara Goncalves, RG Chaudhary, Computational analysis of nanofluids based drug delivery system: preparation, Current Development, and applications of nanofluids, *Applications of Nanofluids in Chemical and Bio-medical Processing Industry,* Elsevier publication, 2022, 335-364

(ISBN: 978-0-32-390564-0) (https://doi.org/10.1016/B978-0-323-90564-0.00014-3)

30. Shriram S Sonawane, Abhijit Gadhe, Parag P Thakur, Shirish Hari Sonawane, Hussein A Mohammed, Nano-biotechnology for bacterial modification for wastewater treatment and resource recovery, *Novel Approaches Towards Wastewater Treatment and Resource Recovery Technologies,* Elsevier Publications, 2022, 295-312

(ISBN: 978-0-32-390627-2)(https://doi.org/10.1016/B978-0-323-90627-2.00008-3)

31. Shriram Sonawane, Malika Mudaliar, Parag Thakur, Shirish Sonawane, Carbon Nano tubes (CNT) based hybrid Nano fluids for the waste water treatment plants in the industry, *Novel Approaches Towards Wastewater Treatment and Resource Recovery Technologies,* Elsevier Publications, 2022, 313-324

(ISBN: 978-0-32-390627-2) (https://doi.org/10.1016/B978-0-323-90627-2.00021-6)

32. PP Thakur, SS Sonawane, SH Sonawane, Nano-particle-enhanced ionic liquids (NEIL) for the waste water treatment, *Novel Approaches Towards Wastewater Treatment and Resource Recovery Technologies,* Elsevier Publications, 2022, 325-338

(ISBN: 978-0-32-390627-2) (https://doi.org/10.1016/B978-0-323-90627-2.00020-4)

33. Parag Thakur, Shriram Sonawane, Nanomaterials for membrane synthesis: Introduction, mechanism and Challenges for wastewater treatment, *Handbook of Nanomaterials for Wastewater Treatment: Fundamentals, Current status and Scale-up Challenges*, Elsevier Publication, 537-553

(ISBN : 978-0-12-821496-1)(https://doi.org/10.1016/B978-0-12-821496-1.00009-X)

34. Thakur, P., Sonawane, S. S., Sonawane, S. H., & Bhanvase, B. A., Nanofluids-based delivery system, encapsulation of nanoparticles for stability to make stable nanofluids. *Encapsulation of Active Molecules and Their Delivery System*, Elsevier Publication, 141-152

(ISBN No. 978-0-12-819363-1) (https://doi.org/10.1016/C2018-0-05369-4)

35. Parag Thakur, Nirvik Sen, Sameer Ekhande, R. Sirsam, K.K. Singh, S. Mukhopadhyaya, K.T. Shenoy, Reactive Stripping & Precipitation of Uranium in microreactors, *International Nuclear Information System (INIS)*Year 2018, Volume 49, Issue 37. (RN:49072564)

➢ Conferences

Session In-charge:

1. 18th Annual Session of chemical engineering students congress (SCHEMCON 2022) at NIT, Warangal (23rd to 24th September 2022)
2. International Conference on Education 5.0-Role of Institution, Industry and Society (ERIIS-2022) at NIT, Warangal (14-15 October 2022)

Conference Papers presented:

3. Parag Thakur, Shriram Sonawane, Experimental and numerical analysis of CO_2 absorption processes using fly ash based nanofluids in the 15th International Conference "Advancements in polymeric materials (APM 2024), organized by CIPET: IPT, Ahmedabad during 14th to 16th March 2024
4. Parag Thakur, Shriram Sonawane, Recent trends of CO_2 absorption process, 6th Conference by Asia-Oceania Sono-chemical Society (AOSS-23), NIT, Warangal, 28-30 September, 2023 ***(Received Best oral presentation award)***
5. Parag Thakur, Shriram Sonawane, Experimental and numerical analysis of CO2 absorption processes using fly ash based nanofluids, CHEM-CONFLUX-22, NIT, Prayagraj, 14-16 April, 2022 ***(Received Best oral presentation award)***
6. Parag Thakur, Shriram Sonawane, Performance assessment of the CNT deposited surfaces for the pool boiling application, *International Conference on Advances in Sustainable Research for Energy and Environmental Management (ASREEM-2021),* 6-8 August 2021, SVNIT, Surat ***(Received Best oral presentation award)***
7. Parag Thakur, Tushar Khapne, Shriram Sonawane, Synthesis of BNNP+Mxene/Polycarbonate nanocomposite using twin-screw extrusion reactor for thermal property enhancement, *International Conference on Advances in Sustainable Research for Energy and Environmental*

Management (ASREEM-2021), 6-8 August 2021, SVNIT, Surat, SVNIT, Surat

8. Parag Thakur, Shriram Sonawane, Review on the Application of Nanofluids for the Environmental Remediation, *International Conference on Advances in Sustainable Research for Energy and Environmental Management (ASREEM-2021)*, 6-8 August 2021, SVNIT, Surat, SVNIT, Surat
9. Parag Thakur, Pooja Pradip, Shriram Sonawane, Development of efficient CO_2 absorption processes using MWCNT based nanofluids, *2nd International Conference On Chemical, Bio & Environmental Engineering (CHEMBIOEN-2021)*, August 20-22, 2021**,** NIT, Jalandhar
10. Synthesis of BNNP+Mxene/Polycarbonate nanocomposite using twin-screw extrusion reactor for thermal property enhancement, Parag Thakur, Shriram Sonawane, International Chemical Engineering Conference 2021 (ICheEC 2021), September 17-19, 2021, NIT, Jalandhar
11. Synthesis of BNNP+Mxene/Polycarbonate nanocomposite using twin-screw extrusion reactor for thermal property enhancement, *International Conference on Reaction Engineering (ICRE-2021)* Organized by Department of Chemical Engineering, National Institute of Technology, Raipur 492010 (Chhattisgarh) India 7th- 8thMay, 2021
12. Parag Thakur, Shriram Sonawane, Photo-thermal Removal of CO_2 from MWCNT/HMDA nanofluid, *The Ninth DAE-BRNS Biennial Symposium on "Emerging Trends in Separation Science and Technology (SESTEC-2020)*, BARC, Mumbai, 22 March-26 March, 2021
13. Praneet Lokhare, Rahul Bhad, Parag Thakur, Shriram Sonawane*, Numeric and experimental investigation of cobalt oxide-based nanofluids in direct absorption solar collector*, International Conference on Multifunctional and hybrid materials for chemical process, energy, environment and medical applications (ICMHCEE 2019)*, NIT, Trichy, Tamilnadu, 9-11 September 2019.
14. Parag Thakur, Shriram Sonawane. Numeric and experimental study of the car radiator performance, CHEM-CONFLUX-20, NIT, Prayagraj, 14-16 February 2020.
15. Comparative study on the thermal property and haze enhancement using boron nitride nanosheets and MXene nanoparticles in a polycarbonate matrix, international e-conference on recent transformations in chemical & textile technology, 24-26 August 2020.
16. Shriram Sonawane, Parag Thakur, Ritesh Paul, Study of Visco-Elastic property enhancement of MWCNT based polypropylene (PP) Nanocomposites, *11th National Conference on Solid State Chemistry and Allied Areas (NCSCA-2019),* S.K. Porwal College, Nagpur. (20-21 December, 2019)
17. Shriram Sonawane, Parag Thakur, Ritesh Paul, Study of thermal property enhancement of MWCNT based polypropylene (PP) Nanocomposites, *First International Conference on Recent Advances in Materials and Manufacturing [ICRAMM 2019],* KLE Dr. M.S. Sheshgiri COET, Belagavi, Karnataka. 12-14 September 2019
18. Parag Thakur, Mayur Darekar, K.K. Singh, S. Mukhopadhyaya, K. T. Shenoy, Numerical Simulation of Liquid-liquid two-phase flow at different Microfluidics junctions, *The Eighth DAE-BRNS Biennial Symposium on "Emerging Trends in Separation Science and Technology (SESTEC-2018)*, BITS, Pilani (Goa), May 23-26, 2018.
19. Parag Thakur, Nirvik Sen, K.K. Singh, S. Mukhopadhyaya, K.T. Shenoy, Reactive Stripping & Precipitation of Uranium in microreactors, *The Eighth DAE-BRNS Biennial Symposium on "Emerging Trends in Separation Science and Technology (SESTEC-2018)*, BITS, Pilani (Goa). May 23-26, 2018.
20. Parag Thakur, Nilesh Patil, Column Design by Visual Basic and Comparative Study with MATLAB, *International Conference on Global Trends in Engineering, Technology and Management (ICGTETM-2017)*, SSBT's COET, Jalgaon. 22-24 December 2017.
21. Nirav Lekinwala, Parag Thakur, Rajkumar Sirsam, Portable and Low-Cost Source of Light, *SCHEMCON-2015*, MIT Academy of Engineering, Alandi (D), Pune, 12-13 September

2015

22. Nirav Lekinwala, Parag Thakur, Rajkumar Sirsam, Production of Biodiesel from Algae, *CHEMCOALESCE 2015*, Sir Visvesvaraya Institute of Technology, Nasik.
23. Parag Thakur, Review on Heat Pipes, *National level student paper presentation (MILESTONE 2014)*, College of Engineering and Technology, Jalgaon.
24. Nirav Lekinwala, Parag Thakur, War gases, *Recent Advances in Chemical Sciences and Technology-2013,* North Maharashtra University, Jalgaon
25. Nirav Lekinwala, Parag Thakur, Agitated Absorber, *AVISHKAR-2014*, North Maharashtra University, Jalgaon.
26. Parag Thakur, Mayur Darekar, Computational fluid dynamics of Micro-reactors, *AVISHKAR-2017*, North Maharashtra University, Jalgaon.
27. Parag Thakur, Pragati Thakur, Software development for process calculations, *AVISHKAR-2017*, North Maharashtra University, Jalgaon.
28. Parag Thakur, Nirvik Sen, Shriram Sonawane, Reactive stripping and precipitation of Uranium in Micro-reactors, *Research Scholars Day (RSD-2019),* VNIT, Nagpur.

Conference Attended:

29. *International Conference on Multifunctional Electronic Materials and Processing (MEMP-2021)* conducted by C-MET Pune on digital platform during 8-10th March 2021.
30. *Chemical Science for Drug Discovery & Therapy 2020, International Conference (in online mode)* during 22-26 July, 2020, Organized by Department of Chemistry VNIT Nagpur, Nagpur, India.
31. 1 Day online conference in intellectual property and startups on 20th January 2024 event organized by turnip Innovation festivals 2024

➢ Reviewer of Journals

1. Separation Science & Technology (Taylor & Francis Publication; Impact Factor: 1.2)

➢ Workshops

Workshop organized:

1. Organized 6 day Short Term Training Program (STTP) on Introduction to Chemical Engineering Softwares (IChES-2025) from 94th January to 26th January 2024 at DoChE, SVNIT, Surat
2. Organized 5 day Short Term Training Program (STTP) on Instrumentation Techniques For The Environmental Remediation (ITER-2024) from 9th May to 13th May 2024 at DoChE, SVNIT, Surat

Workshop attended:

2. 1 Week Faculty Development Program on Education and Institutional Development (EDID-2024) from 15th May to 21st May 2024
3. 1 Week Faculty Development Program on cyber-attacks and defense conducted by C-DAC, Noida from 2nd January 2024 to 6th January 2024
4. 1 week GIAN (Global initiative of Academic network) on “Greener and cleaner ultrasonic process for the production of nanomaterials and nano-pharmaceuticals” organized by NIT, Warangal, 27 June-2 July, 2022 (Foreign Faculty : Manickam Sivakumar, Brunei)
5. 1 week GIAN (Global initiative of Academic network) on “Green Processing & Synthesis” organized by VNIT, Nagpur, 2-6 May, 2022 (Foreign Faculty: Prof. Ashok kumar Muthupandian)
6. National Level Webinar on "Writing and Evaluation of Scientific Research Articles"jointly

organized by Research Promotion Cell, Seth Kesarimal Porwal College of Arts, Science and Commerce, Kamptee & Department of Chemistry, Taywade College, Mahadula-Koradi, 31st July 2021

7. AICTE ATAL sponsored 1 week workshop on Nanotechnology for the sustainable development and green processes, 24-28 August, 2020 (Secured A+ Grade)
8. One Day Workshop on why manuscript get rejected, NIT, Jalandhar, 27 August 2020
9. 63rd ISRO-IIRS Outreach Program on "Remote Sensing Applications in Agricultural Water Management" August 3–7, 2020 (Secured A grade)
10. One Day Webinar on "Opportunities for Chemist and Chemical Engineers in Chemical and Allied Industries, VJTI, Mumbai. (18 July 2020)
11. 1 week workshop on CFD with OpenFOAM, July 23-28 2020, VNIT. Nagpur
12. 1 week workshop on Pedagogy of Scientific Writing, Reporting and Scholarly Networks, Organized by Feroze Gandhi Institute Of Engineering And Technology, Rae-Bareli During June 19-23, 2020
13. One Day Workshop on Understanding open educational resources offered by commonwealth of learning, Canada, 23 June 2020
14. One week GIAN Workshop on Process Intensification organized by NIT, Warangal. (7-11 January 2019) (Foreign Faculty: Andrzej Górak)
15. Two days Training Session on DMA & Mechanical Hybrid Rheometer organized by TA Waters, Bangalore (12-13 March 2019)
16. Two-day Training Session on TGA and DSC and Two-day Training on DLS organized by VNIT, Nagpur. (3-6 April 2019)
17. 7 Week online course on LATEX organized by IIT Bombay. (24 September- 11 November 2019)
18. One-week short term training program (STTP) on Advanced Industrial Waste Management Techniques at University Institute of Chemical Technology, North Maharashtra University, Jalgaon, Maharashtra, (14-19 May 2018)
19. Three days' Workshop on Python at organized by VNIT, Nagpur (10-12 August 2018).
20. Two-week short term training program (STTP) On Process Intensification: Fundamentals to Applications at University Institute of Chemical Technology, North Maharashtra University, Jalgaon, Maharashtra, (26 December –4 January 2017)
21. Two days Workshops on Aspen plus, COMSOL, HINT, ANSYS FLUENT at Azeotropy 2017 organized by the chemical engineering department, IIT Bombay.
22. Two days' Workshop on ASPEN at Azeotropy 2015 organized by the chemical engineering department, IIT Bombay.
23. One Day Workshop on COMSOL in 2014 organized by the chemical engineering department, U.I.C.T., Jalgaon.

➢ Administrative Duties at SVNIT, Surat

1. Member, Fee Remission Committee (2023-24)
2. Member, Anti-Ragging Committee, Gajjar Bhavan (2024-25)

Department level Duties:

3. Member, PhD Admission Committee (Jan 2024, May 2024)
4. Member, Presentation and interview Evaluation Committee for PhD Admission 2024-25 (Autumn Semester, Phase I & Phase II)
5. Member, Scrutiny Committee for PhD admission 2024-25 (Autumn Semester, Phase Phase II)
6. Member-Secretary, Committee for higher studies/Career counselling

7. Member-Secretary, Committee for accreditation and academic audit
8. Member-Secretary, Committee for utilization of various open and free source software for UG/PG and PhD students (Academic and research purposes)
9. Co-coordinator, BIS Standards Club (2023-2024)
10. Coordinator, Internship of UG and PG students (2023-2024, 2024-25)
11. Coordinator, Career Development Cell (formally Training & Placement Cell) (2024-2026)
12. Coordinator, Media Cell, Department website update/social media update

➢ Course Conducted at SVNIT, Surat

1. Engg Maths (CH-202)
2. Introduction to macro-molecules (CH 252)
3. Synthesis of nanomaterials by chemical methods (CH 427)

➢ Labs conducted at SVNIT, Surat

1. Mass Transfer operations
2. Instrumentation and Process Control
3. Chemical Reaction Engineering
4. Heat Transfer Lab
5. M.Tech lab