

PROFILE OF PROF. P.K.SATAPATHY

Prof. Pramoda Kumar Satapathy
M.Sc, M.Phil, Ph.D

Professor and Head

P.G.Department of Chemistry

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Date of Birth: -05.06.1970

(Fifth June Nineteen Hundred Seventy)



Permanent Address

At: - Gobindapur, Post: - Gadadhar Prasad

Via: - Itamati Dist: - Nayagarh

Pin: - 752068

Educational Qualification

Course	School/College/Institute	Board/University	Division	Year of Passing
H.S.C	Bhagirathi High School, Gobindapur, Nayagarh	B.S.E, Odisha	1 st	1984
+2 Sc	B.J.B.College, Bhubaneswar	C.H.S.E, Odisha	1 st	1986
+3 Sc	B.J.B.College, Bhubaneswar	Utkal University	1 st	1989
M.Sc	Utkal University, Bhubaneswar	Utkal University	1 st	1991
M.Phil	Utkal University, Bhubaneswar	Utkal University	1 st	1993
Ph.D	IMMT, Bhubaneswar	Utkal University		1997

Area of Specialization: -Advanced Inorganic Chemistry

Research and Teaching Experiences

- Research Fellow: IMMT (CSIR), Bhubaneswar -March 1992- March 1995
- Lecturer in Chemistry: Nayagarh (Auto.) College-March 1995-March 2007 (Teaching both Hons and pass in U.G. level)
- Reader in Chemistry: North Orissa University, 14.03.2007-13.03.2012.
- Associate Professor in Chemistry: North Orissa University, 14.03.2012-13.03.2015.
- Professor of Chemistry-North Orissa /MSCB University 14.03.2015-continuing (Teaching both M.Sc. and M.Phil. Students and guiding Ph. D scholars)

Courses taught

- Supramolecular Chemistry
- Bioinorganic Chemistry
- Electronic Spectra
- Inorganic ring, cage and cluster compounds
- Organo Transition Metal Chemistry
- Photo Inorganic Chemistry
- Inorganic Reaction Mechanism
- Metal π Complexes
- Metal-Ligand Bonding
- Electrochemistry
- Chemical Dynamics

Research Area

Area of Interest: Adsorption and Catalysis

Designing, synthesizing, and characterizing advanced inorganic materials for applications in catalysis, environmental remediation and functional devices. We explore novel compounds, including mixed oxides, MXenes and graphene supported nanocomposites. Analysis of contaminated water which include study of physical parameters, anions, cations and heavy metals and its remediation.

Fellowship/Awards

- National Scholarship (1984-1989)
- INSA Visiting Fellow (May – June, 2009) to work at National Metallurgical Laboratory, Jamshedpur.
- Pathani Samanta Pratiba samman-2013 by Samanta Chandrasekhar Sanskrutik Anusthan, Nayagarh for loudable contribution to the society.

Membership of Professional bodies

- Life Member Catalysis Society of India
- Life member of Orissa Chemical Society
- Life member Utkal Chemistry Alumni Association
- Life member Society of Material Chemistry

Research Achievement

- Research Paper Published in International and National Journals: 44
- Participation and scholarly presentations in National Seminars: 45
- Participation and scholarly presentations in International Seminars: 09
- No. of Book Chapters: 04
- No. Students awarded Ph.D : 09
- No. of M.Phil Dissertation Supervised: 23
- No. of M.Sc Project guided: 80

Research Projects

Sponsoring Organisation	Nature of project	Duration of project	Amount of grant Rupees)
UGC, New Delhi	Minor	2009-2011	65000
DAE-BRNS	Major	2023-2026	4080000
MSCB University	Minor	2024-2026	1000000

Reviewer of journals

1. RSC Advances
2. Journal of Desalination and water treatment
3. Journal of Industrial & Engineering Chemistry Research
4. Journal of Environmental Technology
5. Bentham Science Publisher
6. Journal of Chemistry Select
7. Oriental journal of Chemistry.

Administrative Experience/Post(s) & responsibilities held

Sl. No.	Post	Organization/ University	Duration		Experience (In Years and Months)
			From(Date)	To(Date)	
1	Vice-Chancellor(I/C)	MSCB University	19.11.2022	14.12.2022	
2	Chairman PGC	MSCB University	01.03.2022	01.06.2023	1 year 3 months
3	Registrar	MSCB University	27.07.2015	06.05.2016	9 months
			22.02.2019	14.10.2020	1 year 7 months
4	Controller of Examinations	MSCB University	09.09.2016	11.10.2017	1 year I month
5	Head of the Department chemistry	MSCB University	15.09.2011	31.05.2016	4years 8 months
			31.05.2018	31.05.2020	2 years
			01.06.2022	14.11.2022	5 months
			01.06.2024	Continuing	
	HOD Botany		31.03.2022	31.05.2022	2 months
6	Chairman, Board of Studies	MSCB University	01.06.2015	31.05.2016	1 year
			01.06.2021	31.05.2022	1 year
			01.06.2024	31.05.2025	1 year
7	Member, Board of Studies	MSCB University	07.11.2007	continuing	17 years 6 months
		Berhampur University	01.06.2012	31.05.2013	1 year
		F.M. University (Envn. Science)	01.06.2013	31.05.2014	1year
		F.M. University(Chemistry)	01.06.2012	31.05.2019	7 years
		MPC(A)College	01.06.2011	31.05.2016	5 years
			01.06.2023	31.05.2025	2 years
		D.D.(A) College	01.06.2011	31.05.2016	5 years
8	Member of Academic Council	MSCB University	15.09.2011	31.05.2016	4years 8 months
			31.05.2018	31.05.2020	2 years
			01.06.2022	14.11.2022	5 months
			01.06.2024	Continuing	
		MPC(A)College	01.06.2016	31.05.2018	2 years
9	Member of Executive Council (P.G.Council)	MSCB University	15.09.2011	31.05.2016	4years 8 months
			31.05.2018	31.05.2020	2 years
			01.06.2022	14.11.2022	5 months
			01.06.2024	Continuing	
10	Member of Syndicate	MSCB University	01.03.2022	01.06.2023	1 year 3 months
11	Member of Senate	MSCB University	15.09.2011	31.05.2016	4years 8 months
			31.05.2018	31.05.2020	2 years
12	Member of SRC	MSCB University	2010	continuing	15 years
13	Director R&D	MSCB University	10.10.2023	Continuing	1 year 8 months
14	Director IQAC& NAAC	MSCB University	07.07.2014	18.08.2015	1 year
			05.10.2024	Continuing	

15	Coordinator NIRF	MSCB University	05.10.2024	Continuing	-
16	Warden of Hostels	MSCB University	31.03.2018	31.05.2020	2 years 2 months
17	Director of DDCE	MSCB University	27.10.2017	29.11.2018	1 year 1 month
18	Director Self Financing Course	MSCB University	31.05.2017	31.05.2018	1 year
19	NSS Programme Coordinator	MSCB University	01.12.2011	05.11.2015	4 years 11 months
20	Secretary Sports Council	MSCB University	10.08.2009	23.07.2012	2 years 11 months
21	Coordinator SC-ST Cell	MSCB University	04.03.2009	21.08.2012	3 years 5 months
22	Coordinator NET Coaching	MSCB University	07.09.2010	29.02.2012	16 months
23	Placement Officer	MSCB University	23.05.2007	11.08.2009	2 years 2 months

Member of the National / International agencies/Advisory Board

Member of the Advisory Board of Society of Material Chemistry, Bhubaneswar Chapter

Member of the Executive Board

Vice President Orissa Chemical Society 2011 & 2024

President of Maharaja Sriram Chandra Bhanja Deo University Literary and Cultural Council 2021-2024

List of Publications

1. U.K.Panigrahi, D.Das, Shamima Hussain, J.Giri, A.K.Panda, **P.K.Satapathy**, and P.Mallick, Effect of sonication on the structural, optical and photocatalytic characteristics of ZnO nanostructures, **Discover Materials**, Published online on 11th May 2025, <https://doi.org/10.1007/s43939-025-00260-4>.
2. U.K.Panigrahi, D.Das, S.K.Satapathy, SwarnalataPanigrahi, **P.K.Satapathy**, ShamimaHussain, S.N.Sarangi and P. Mallick, Effect of Mg and rare earth ions co-doping on the structural and optical properties of ZnO nanorods, **J Mater Sci: Mater Electron** 35(2024) 1876.
3. Debashis Das, Uttam K. Panigrahi, JyotirmayeeGiri , Alok K. Panda ,**Pramoda K. Satapathy** and Pravanjan Mallick, Reduced graphene oxide supported Bismuth-Iron mixed oxide nanocomposite: A potent photocatalyst for crystal violet dye degradation and antimicrobial application, **Journal of Photochemistry & Photobiology, A: Chemistry**, 457(2024) 115912.
4. Murarilal Barik, Debashis Das, **Pramoda Kumar Satapathy** and Priyabrat Mohapatra, Graphene supported ceria-titania mixed oxide composite-An effective photo catalyst for methylene blue (MB) dye degradation. **Environ. Eng. Res.**28(6) (2023)220586.

5. Tapan Kumar Beheraa, Snehalata Pradhan, **Pramoda Kumar Satapathya** and Priyabrat Mohapatra, Graphene Nanocomposite Anchored Scientific Research to a new Perspective, International Journal of Innovative Science and Research Technology 8 (9) 2023.
6. Tapan Kumar Beheraa, Snehalata Pradhan, Priyanka Behera, **Pramoda Kumar Satapathy** and Priyabrat Mohapatra, A brief Overview on Facile Synthesis and Challenging Properties of Graphene Nanocomposite: state-of-the-art, **Asian Journal of Chemistry**, 34(7) (2022) 1603-1612.
7. Shailendra Prasad Mishra, Diptipriya Sethi, Prem Ranjan Rauta, **Pramoda Kumar Satapathy** and Priyabrat Mohapatra, Photo-Catalytic Destruction of Escherichia Coli in water over rGO-TiO₂ Nanocomposites, Indian Journal of Research, 11(7) (2022) 78-80.
8. U.K. Panigrahi, M. Barik, Shamima Hussain, **P.K. Satapathy**, and P. Mallick, Sulphur doping induced band gap narrowing and enhancement of green emission in ZnO nanorods, J Mater Sci: Mater Electron, Published on line On 15th September 2022, <https://doi.org/10.1007/s10854-022-09053-4>.
9. Sasmita Panda, Prasanta Kumar Kar, Debesh Shankar Hota and **Pramoda Kumar Satapathy**, Nutrients from soil to host plant leaves and its impact on commercial traits of tropical tasar silkworm, Plant Archives, 23 (2022) 116-121.
10. Tapan Kumar Behera, Snehalata Pradhan, **Pramoda Kumar Satapathya** and Priyabrat Mohapatra, Synthesis and Characterisation of ZnO-Ag plasmonic nanocomposite:-An efficient photocatalyst for the degradation industrial pollutant, **Materials Today Proceedings**, 47(2021)1159-1162.
11. K. Hemalata Reddy, Kulamani Parida * and **Pramoda Kumar Satapathy**, CuO/PbTiO₃: A new-fangled p-n junction designed for the efficient absorption of visible light with augmented interfacial charge transfer, photoelectrochemical and photocatalytic activities. **Journal of Materials Chemistry A**, DOI:10.1039/c7ta05206e.
12. **P.K. Satapathy**, M.G. Sujana, A.K. Sahoo, Decolourization of methylene blue by fly ash International, **Journal of advanced chemical science and applications** Vol-4, Issue- 1,2,3,4(2016)73-76 .
13. D.S. Hota, P.K. Kar, **P.K. Satapathy** and S. Satapathy, Physicochemical properties of Soil around Similipal Biosphere Reserve of India and the interrelationship, **International Journal of advanced chemical science and applications**, Vol-4, Issue- 1,2,3,4(2016)42-49.
14. **P. K. Satapathy** and B. N. Mohanty, "Oxidative degradation of Potassium Dioxalato Diaquo Chromate (III) by water soluble colloidal Manganese Dioxide in acid medium" **Journal of Chemical and Pharmaceutical Research**, ISSN No. 0975-7384, 7(2) 2015, 882-889.
15. B.N. Mohanty and **P.K. Satapathy**, Kinetics of Oxidation of Glycine by water Soluble Colloidal Manganese Dioxide in Acid Medium, **Applied Science and Advanced Materials International**, 1(6)(2015) 203-206.

16. B.N.Mohanty, Arun Kumar Nandi and **P.K.Satapathy**, “Kinetics of oxidative degradation of oxalatopentammine cobalt (III) perchlorate by aqueous colloidal manganese dioxide”. **International Journal of Advanced Chemical Science and Applications**.2(1)(2014) 46-49 ISSN No.2347-761X.
17. D. S. Hota, **P.K .Satapathy** and S. Satapathy, “Available soil nutrients status at different ecopockets around Similipal Biosphere Reserve (SBR), Odisha, India”. **International Journal of Advance Chemical Science and Applications**. 1(2) (2014) 6-8. ISSN No. 2347-761X.
18. D. S. Hota, G. C. Patra, **P. K .Satapathy** and S. Satapathy, “Biochemical study on the host plant “asan” (terminaliatomentosa) leaves of tasar silkworm antheraeamylitta.d collected from eco-pockets of similipal biosphere reserve, mayurbhanj, Odisha.”**The Bioscan**, ISSN No.0973-7049,9(2)(2014) 609-611
19. **P K Satapathy**, Marina Das1 & A K Sahoo, Oxidative decolourization of Rhodamine-B using sea nodule residue, **Indian Journal of Chemical Technology** 21(2014)257. ISSN No.0971-457X
20. A.K.Sahoo, K.M.Parida and **P.K.Satapathy**, Effective oxidative decolourization of azo dyes over Indian Ocean manganese nodules. **Indian J. Chem.** 53A (2014) 504. ISSN No.0975-0975.
21. D.S.Hota,**P.K.Satapathy** and S.Satapathy, Studies on micronutrients present in soil of different Ecopockets around Similipal Biosphere Reserve(SBR)**International Journal of Advanced Chemical Science and Applications**.1 (1)(2013) 28. ISSN No.2347-761X
22. **P.K.Satapathy**, T.R.Mohanta and A.K.Sahoo, Adsorption of Selenite on Heat treated sea nodule residue. **International Journal of Advanced Chemical Science and Applications**.1 (1)(2013) 28. ISSN No.2347-761X.
23. Gobinda Chandra Behera ,K.M.Parida and **P.K.Satapathy**, Sustainable and efficient protocol for synthesis of a RGO-VPO composite with synergic stability and reactivity. **RSC Advances**, 3(2013) 4863. ISSN No.2046-2069.
24. **P.K.Satapathy**, Jagdeep Mohanta and Deepak Kumar Parhi, Effect of Ceria content on adsorption properties of titanium dioxide towards aqueous phosphate .**AIP Conference Proceedings**, 1461 (2012)374. ISSN No.1551-7616.
25. **P.K.Satapathy**, N.S.Randhawa and N.N.Das , Oxidative decolorisation of Methylene Blue by leached sea nodule residues generated by reduction-roasting ammoniacal leaching process. **Environmental Technology**, 33(2012) 515. ISSN No.0959-3330.
26. Noor Aman, **P.K.Satapathy**, T. Mishra, M.Mahato & N.N.Das, Synthesis and photocatalytic activity of mesoporous cerium doped TiO₂ as visible light sensitive photo catalyst, **Materials Research Bulletin.**, 47 (2012) 179. ISSN No.0025-5408.
27. **P.K.Satapathy**, B.Acharya & N.N. Das, Oxidative decolourisation of methylene blue using heat treated sea nodule residue. **Indian Journal of Chemical Technology** , 18 (2012) 483. ISSN No.0971-457X

28. S.Martha,K.HemalataReddy,K.M.Parida&**P.K.Satapathy** Enhanced photocatalytic activity over N-doped GaZn mixed oxide under visible light irradiation. **Hydrogen Energy**,37(2012) 115. **ISSN No.0360-3199.**
29. N.N.Das,P.K. **Satapathy**, S.C.Dash and P.Mohanty,Synthesis, Characterisation and Catalytic activity of neat and alumina supported trans (diaqua)(N,Nethylenebissalicylamide) Chromium(III), a Comparative Stud **Rect.Kinet. Mech. Cat.**, 102(2011)367. **ISSN No.1878-5190.**
30. **P.K.Satapathy**, D.Swain and N.N.Das, Decomposition of Hydrogen peroxide using heat treated Sea Nodule Residue **Asian Journal of Chemistry**, 23(7) (2011) 3063. **ISSN No.0970-7077.**
31. **P.K.Satapathy** ,R.K.Behera, A.K.Nayak and T.Mishra ,Adsorptive removal of phosphate from aqueous solutions using ceria-titania mixed oxide. **Asian Journal of Chemistry**, 23(7) (2011) 3055. **ISSN No.0970-707.**
32. R.K.Behera ,**P.K.Satapathy**,N.S.RandhawaandN.N. Das, Adsorptive Removal of Phosphate Ions Using Leached Sea Nodule residue Generated by the Reduction-Roasting Ammoniacal Leaching Process.**AdsorptionScience Technology**, 28(7)(2010) 611 .**ISSN No.0263-6174.**
33. **P.K.Satapathy** , S.K.Rana and N.N. Das, Kinetic Study of Decomposition of Aqueous Hydrogen Peroxide by Colloidal Manganese Dioxide **Asian Journal Of Chemistry**,23(1) (2011) 229. **ISSN No.0970-7077.**
34. K.M.Parida and **P. K Satapathy**, Studies on Indian Ocean manganese nodules. Part-XII. Physico-chemical properties and catalytic activity of Sodium Hydroxide treated manganese nodules.**J. Colloid Interface Sci.**, 210 (1999) 130. **ISSN No.0021-9797.**
35. K.M.Paridaand**P. K Satapathy** Studies on Indian Ocean manganese nodules. Part-XI. Physico-chemical properties and catalytic activity of Acetic acid treated manganese nodules. **J. Colloid Interface Sci.**, 202 (1998) 313. **ISSN No.0021-9797.**
36. K.M.Parida, **P. K Satapathy** and N. N. Das, Studies on Indian Ocean manganese nodules. Part- VII Effect of γ - irradiation and physico-chemical properties and catalytic activity of polymetallic nodules. **React. Kinet. Lett.**, 62 (1997) 191.**ISSN No.1878-5190.**
37. K.M.Parida, **P. K Satapathy**, N. N. Das and S.B.Rao, Catalytic properties of manganese nodules. **J. Sci. Ind. Res.** 55 (1996) 234. **ISSN No.0975-1084**
38. K.M.Parida, **P. K Satapathy** and N. N. Das, Studies on Indian Ocean manganese nodules. Part-IV, Adsorption of some bivalent heavy metal ions into ferromanganese nodules. **J. Colloid Interface Sci.**, 181 (1996) 456. **ISSN No.0021-9797.**
39. K.M.Parida, **P. K Satapathy**, N. N. Das and S.B.Rao, Studies on Indian Ocean manganese nodules. Part-II, Physico-chemical characteristics and catalytic activity of heat treated marine manganese nodules, **J. Colloid Interface Sci.**, 179 (1996) 241. **ISSN No.0021-9797.**

40. K.M.Parida, **P. K Satapathy**, N. N. Das and S.B.Rao, Surface acidity and textural properties of Indian Ocean manganese nodules. **Indian J. Chem. A**,34 (1995) 632. ISSN No.0975-0975.
41. K.M.Parida, **P. K Satapathy**, A. K. , Sahoo & N. N. Das, Studies on Indian Ocean manganese nodules. Part-I, Physico-chemical characteristics and catalytic activity of ferromanganese nodules. **J. Colloid Interface Sci.**, 173 (1995) 112.ISSN No.0021-9797.

List of International Seminar Participated/Presented /Chaired technical Session

1. 3rd International Conference on Recent Trends on Prospective Applications of Advanced Materials-2025(RTPAAM-2025) April 25-26,2025, organized by F.M. University, Balasore. Chaired a technical session.
2. International Conference on Costal Zone Livelihood and Challenges (CZLC-2024). November 27-28 ,2024, organized by FM University,Balasore. Chaired a technical session.
3. International Conference on composite materials for Environment protection and Remediation (ICCMEPR-2024). July 2 - 3, 2024, organized by Gram Bharati College Ramgarh (VKS University, Ara, Bihar. Delivered an invited Talk on: Synthesis, Characterizations, and Application of rGO-CeO₂-TiO₂ Composite for the removal of heavy metal ions from Contaminated water.
4. International Symposium on Physical Chemistry of Molecular Interactions, December 12-13, 2020, organized by G. M. University,Sambalpur. Participated.
5. 4thInternational Conference Kathmandu Symposium on Advanced Materials-2018(KaSAM-2018) October 26-29,2018, held at Kathmandu,Nepal. Delivered an invited Talk on the topic, Synthesis,Characterization and catalytic Applications of Graphene CeO₂-TiO₂ nano Composites.
6. International Conference on Role of Microscopy and Allied Techniques in Development of Multifunctional and Nano Materials and 3rd Annual Convention of Academy of Microscope Science Technology, November 25-27,2016 organized by, F.M.University. Presented on Effect of heat treatment on mesoporous Ceria-Titania mixed oxide towards decolourization of methylene Blue.
7. International conference on Energy,Sustainability and Advanced Materials,September 03-07,2015, organized by OEC BhubaneswarDelivered an invited talk on, Dye decolourization and adsorption behaviour of heat-treated sea nodule residue and also chaired a session.
8. International Conference on Innovative Application of Chemistry in Pharmacology and Technology, February 06-08,2015, organized by Department of Chemistry

Berhampur University Delivered an invited Talk on the topic Oxidative decolourization-----Residue.

9. International Workshop on Functional Materials, December 20-22, 2011, organized by NIST, Berhampur in Collaboration with Drexel University, U.S.A. Presented on, Effect of Ceria content on adsorption properties of titanium dioxide towards aqueous Phosphate.

List of National Seminars Participated/Presented/organized

1. National Seminar on Frontiers in Chemical Sciences-II (FCS-2025) MSCB University, March 28-29, 2025, organized by P.G. Department of Chemistry, MSCB University. **Acts as Convener.**
2. National Science Day Celebration MSCB University, February 28 2025, organized by MSCB University. **Acts as Convener.**
3. 38th Annual Conference of Orissa Chemical Society on Advanced Material Chemistry (AMC-2024) December 28-30, 2024, organized by OUTR, Bhubaneswar.
4. National Conference on Advanced Materials for Sustainable Societal Applications (AMSSA-2024) November 28-29, 2024, organized by Utkal University, Graphene Supported Mixed Oxide Nano Composites: -An Effective Photo-Catalyst. **Invited Talk.**
5. Workshop on Advanced Functional Material and its Characterisation (AFMC-2024), organized by SOA University.
6. 37th Annual Conference of Orissa Chemical Society & National Conference on molecules to materials, January 04-06, 2024, (OCS-MTM-2024) organized by Ravenshaw University. **Chaired a session.**
7. National Seminar on Frontiers in Chemical Research (FCR-2023) MSCB University, May 27-28, 2023.
8. National Webinar on Supra molecular Chemistry and Organo-metallic Chemistry, April 12, 2023 organized by Government Autonomous College, Rourkela, **Invited talk** on Supramolecular Chemistry.
9. DAE-BRNS Outreach Theme Meeting on Societal Applications of Nuclear Science and Technology, March 25-27, organized by MSCB University. **Acts as Convener.**
10. 35th Annual conference of Orissa Chemical Society and National Seminar on Frontiers in Chemical Sciences (FCS-2021), December 18-19, 2021, organized by Department of Chemistry MSCB University, Baripada. **Acts as Convener.**

11. National Conference on Advanced Materials for Energy and Environmental Applications (**AMEEA-2018**), December 12-14,2018,Organized by Department of Chemistry, NIT, Rourkela, Odisha. Invited talk on Catalytic activity and adsorption properties of ceria doped Titanium dioxide,
12. 32nd Annual Conference of Orissa Chemical Society and National Seminar on Recent Advances in Functional Nano Materials, December 23-24,2018, Organised by NIST, Berhampur. Invited talk on Decolourization of methylene blue using graphene-CeO₂-TiO₂ Nano Composites.
13. National Seminar on Challenges and Prospects in Physics, , February 23-24,2018, organized by North Orissa University, Baripada.
14. National Seminar on Advances in Material Chemistry, January 29-30,2017, organized by MahangaPuspagiri Mahavidyalay, Cuttack. **Invited talk.**
15. National Seminar on Recent trends in Chemical Sciences, April 8,2017, organized by Department of Chemistry, North Orissa University. **Chaired a Session.**
16. National Seminar on Physico-chemical Characterization of Soil: Approaches & Sustainability, December 9-10,2016, organized by SeemantaMahavidyalay ,Jharpokharia, Mayurbhanja. **Acts as resource person.**
17. National Workshop on Development of Nanomaterials for Energy, Environment and Sustainability DNEES-2016, May 09-10,2016 organized by ITER, SOAUniversity,Bhubaneswar.Presented on Degradation of methylene blue by heat treated Indian ocean manganese nodules.
18. National Seminar on Material Production & Environmental Pollution, July 08-09,2016, organized by Betanoti College. **Acts as Resource Person.**
19. 30th Annual Conference of Orissa Chemical Society and National Conference on Chemistry in 21st Century.December 24-25,2016, organized by School of Chemistry, KIIT University.
20. National Seminar on Science and Technology for Indigenous Development in India. December 09-11,2015, Organized by ISCA Bhubaneswar Chapter & KIIT University. Presented on Photo catalytic activity and adsorption behaviour of Ceria –Titania Mixed Oxide.
21. National workshop on Development of Nanomaterials for Energy, Environment and Sustainability, May 2-3,2015, organized by ITER, SOAUniversity, Bhubaneswar. Presented on Photo catalytic activity and adsorption behaviour of Ceria –Titania Mixed Oxide.

22. National Seminar on Materials Chemistry & Catalysis (MCC-VI), March 26-27, 2014, organized by Department of Chemistry, NOU, Baripada. **Acts as Convener.**
23. National seminar on Recent Advancement in Material Science. August 23-24, 2014, organized VSSUT, Burla. Delivered an **invited talk.**
24. 28th Annual Conference of Orissa Chemical Society and National Conference on Recent trends in Material Science. December 13-14, 2014 organized by U.N (Auto) College of Sc. & Tech. Adaspur, Cuttack.
25. 27th Annual Conference of Orissa Chemical Society and National Conference on Chemistry in 21st Century. December 14-15, 2013, organized by Modern Engineering & Management Studies, Balasore. Presented on Adsorption of Selenite on heat treated sea nodule residue.
26. National Seminar on Material Chemistry and Catalysis (MCC-V), March 24, 2013 organized by P.G. Department of Chemistry, North Orissa University. Presented on Oxidative decolourization of Rhodamine B using ceria-titania mixed oxide,
27. 26th Annual Conference of Orissa Chemical Society & National Seminar on Chemistry in Technology. December 08-09, 2012, organized by Department of Chemistry, Ravenshaw University, Cuttack. Presented on Oxidative Degradation of Potassium Diaqua Chromate (III) by water soluble Colloidal Manganese Dioxide.
28. National Seminar on Material Chemistry and Catalysis (MCC-IV), March 4, 2012, organized by Department of Chemistry NOU, Baripada. **Acts As Organising Secretary.**
29. National Seminar on Green Chemistry: Solution to Environmental Crisis. October 13-14, 2012, organized by P.G. Department of Chemistry, Berhampur University. Invited talk on Adsorptive removal of Phosphate ions from waste water using mesoporous manganese dioxide,
30. National Seminar on Green Chemistry in Sustainable Development. March 5-6, 2012, organized by Seemant Mohavidyalaya, Jharpokharia. **Invited talk** on Green Chemistry in the Sustainable Development.
31. National Conference on Recent Advances in Nanomaterials. June 24-25, 2012 Baripada College, Baripada.
32. National Seminar on Role of Chemistry in the Sustainable Development of Society. January 24-25, 2012, organized by U.N. College Soro. **Invited talk** on Role of Chemistry in the Sustainable Development of Society.

33. National Seminar on Environmental Management: The Need of the Hour. January 21-22, 2012, organized by Department of Chemistry, Kendrapada (Auto) College, Kendrapada. **Invited talk** on Adsorptive removal of Phosphate ions from waste water using Sea Nodule Residue.
34. Silver Jubilee Annual Conference of Orissa Chemical Society & National Conference on Molecule. December 25-26, 2011, organized by School of chemistry Sambalpur University. Presented on Synthesis and Photo catalytic activity of cerium doped TiO₂ towards degradation of methylene blue.
35. National Seminar on Recent trends in Material Chemistry. November 29-30, 2011, organized by Betanoti College, Betanoti. **Invited talk** on Physico Chemical Characterisation and Catalytic activities of Indian Ocean Manganese Nodule.
36. National Seminar on Frontiers in Recent Chemical Research, November 26-27, 2011, organized by P.G. Department of Chemistry Berhampur University. **Invited talk** on, Kinetics of Oxidation of Gly, IDA and NTA by colloidal MnO₂ in aqueous medium.
37. National Seminar on Material Chemistry and Catalysis (MCC-III), March 27, 2011, organized by P.G. Department of Chemistry, North Orissa University. **Acts as Convener.**
38. 24th Annual conference of Orissa Chemical Society and National Seminar on Smart molecules. Department of Chemistry, December 25-26, 2010, organized by Apex Institute of Technology & Management, Bhubaneswar. Presented on Oxidation of Coordinated Pyridine-2-Carboxylate by colloidal Manganese Dioxide.
39. 20th National symposium on Catalysis for Energy Conversion and Conservation of Environment. December 19-22, 2010, organized by IIT Madras. Presented on Decolourisation of methyl orange by tungstophosphate intercalated Zn/Al layered double hydroxide.
40. National Seminar on Materials Chemistry and Catalysis (MCC-II). April 3-4, 2010, organized by P.G. Department of Chemistry, North Orissa University, Baripada. Presented on, Assessment of Fluoride Contamination in Ground water of Nayagarh District, Orissa. Also acts as **Organising Secretary.**
41. National Workshop on Development of Novel Materials for Hydrogen Production and Photocatalysis. March 26-27, 2010, organized by IMMT, Bhubaneswar.
42. 19th National Symposium on Catalysis on Catalysis for Sustainable Energy and Chemicals. January 18-21, 2009, Organized by NCL, Pune.
43. Catworkshop-2008 February 18-20, 2008, organized by IMMT, Bhubaneswar.

44. 22nd Annual conference of Orissa Chemical Society and National Seminar on Materials Chemistry and Catalysis. December 27-28,2008, organized by P. G. Department of Chemistry, North Orissa University, Baripada. Presented on Oxidative decolourisation of organic dyes by Indian Ocean Manganese nodules. **Also acts as Treasurer**
45. 21st Annual conference of Orissa Chemical Society and National Seminar on Recent trends in Chemical Sciences & Technology, December 22-23,2007, organized by Orissa Engineering College, Bhubaneswar.

List of students awarded Ph.D Degree

Sl.No.	Name of the Candidate	Title of Thesis	Date of Notification
1	Dr. Satyabadi Martha	An investigation on visible light responsive mixed oxide photocatalysis for Hydroged production and pollution abatement	17.07.2013
2	Dr. Gobinda Chandra Behera	Synthesis, Characterization and Evaluation of catalytic activities of bulk and promoted vanadium phosphate materials towards various organic transformation reaction	04.12.2013
3	K Hemalata Reddy	Design and Development of some typical perovskites for visible light responsive photocatalysts for water splitting and pollution abatement	30.03.2015
4	Debesh Shankar Hota	Effect of physicochemical properties of soil around similipal biosphere reserve on growth of host plant and productivity of tasar silkworm	02.12.2015
5	Birendra Nath Mohanty	Studies on Catalytic Activity of Colloidal Manganese Dioxide for oxidation of Free and Coordinated Ligands	19.09.2016
6	Ashok Kumar Nayak	Synthesis and physico-chemical properties of ceria-titania mixed oxide	30.12.2019
7	Shailendra Prasad Mishra	Synthesis, Characterization and Catalytic activity of different Graphene Nanocomposites	22.11.2022
8	Murarilal Barik	Synthesis, Characterization and application of grapheme supported ceria-titania mixed oxides	12.10. 2023
9	Sasmita Panda	Studies on soil chemistry and host plant micronutrients in relation to tasar silk worm crop productivity in plain and Hilly areas of Mayurbhanj District.	29.01.2024

List of M.Phil Students guided

Sl.No	Name of the Student	Title of the Dissertation	Year
01	Ramesh Kumar Behera	Adsorptive Removal of Phosphate using Sea Nodule Residue.	2008-09
02	Birendra Nath Mohanty	Catalytic Activity of Colloidal Manganese Dioxide for Oxidation of Cordinated Pyridine-2-carboxylate.	2009-10
03	Sisir Kumar Swain	Assessment of ground water quality of Nayagarh District, Orissa with Special reference to flouride.	2010-11
04	Chinmayee Mohanta	Oxidative degradation of Potassium dioxalatodiaqua Chromate (III) by water soluble colloidal manganese dioxide.	2011-12
05	Arun Kumar Nandi	Kinetics of Oxidative Degradation of Oxalatopentammine Cobalt (III) perchlorate by aqueous colloidal Manganese Dioxide.	2012-13
06	Jamuna Prasad Mohanta	Kinetics of Oxidative Degradation of pentammine [pyridine-2carboxylato]Cobalt (III) perchlorate by water soluble colloidal Manganese Dioxide	2012-13
07	Bipra Prasanna Muduli	Environmental impact assessment studies of Ferrochrome Plant and thermal power plant in Choudwar Area	2013-14
08	Satyanarayan Ghadei	Adsorption behavior of Manganese Nodule and Manganese Nodule Leached Residue	2013-14
09	Padarbinda Mantri	Oxidative Decolourization of Methylene Blue Using Heat Treated Ceria-Titania Mixed Oxide	2014-15
10	Gosta Gopal Rout	Removal of Water Contaminants By Low-Cost Manganese Based Minerals and Wastes	2014-15
11	BiplabRanjanBindhani	A Review on Synthesis, Characterization & Properties of Graphene	2014-15
12	Atanu Banerjee	Photocatalytic applications of layered double hydroxide-based materials	2014-15
13	Jayanta Kumar Nayak	Synthesis, characterization and photocatalytic activity of ceria-titania mixed oxides: A review	2015-16
14	Balaram Nayak	Adsoptive removal of phosphate from waste water by using different adsorbents: a revie	2015-16
15	Dibyajit Dash	Adsorption Process of Heavy Metals on low-cost Adsorbent	2015-16
16	Master Satyamohan	Photocatalytic water treatment technology by using TiO ₂ as Photocatalyst	2016-17
17	Debasish Sahoo	Photocatalytic Degradation of Organic Pollutants by Titanium Dioxide Nanoparticles.	2016-17
18	Sanjaya Kumar Sahu	Adsorption of aqueous Phosphate on Manganese Ore	2017-18
19	Debasish Samal	Organocatalysis: Key trends in green synthetic chemistry, challenges, scope towards heterogenization and importance from research and industrial point of view.	2017-18
20	Suchismita Barik	Decolourization of methylene blue using Graphene supported ceria-titania mixed oxide	2018-19
21	Bibek Chawpattnayak	Synthesis of highly Photoluminescence carbon dot from natural Source and its application in sensing Fe ³⁺ ion.	2019-20
22	Rajesh Pandit	A Review on removal of Chromium from industrial waste	2019-20

23	Biswajit Jena	A Review on Synthesis, Characterisation of Graphene-Iron Oxide Nano composite and its photocatalytic application for environmental sustainability	2021-22
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List of Students completed M.Sc. Project

Sl.No	Name of the Student	Title of the Dissertation	Year
01	Deepak Kumar Parhi	Adsorption of aqueous selenite on ceria-titania mixed oxide	2010-11
02	Jagdeep Mohanta	Adsorption of phosphate on ceria-titania mixed oxide	2010-11
03	Marina Das	Oxidative decolourization of Rhodamine-B using sea nodule residue	2010-11
04	Jagnath Behera	Oxidative decolourization of methylene blue over Indian ocean manganese nodule	2010-11
05	Bhagban Dey	Preparation, characterisation and photocatalytic activity of ceria-titania mixed oxides towards oxidative decolourization of Rhodamine-B	2011-12
06	Gyan Ranjan Aich	Synthesis and photocatalytic activity of ceria-titania mixed oxides towards oxidative decolourization of Congo Red	2011-12
07	Maheswar Sahoo	Adsorption of aqueous phosphate on mesoporous manganese dioxide	2011-12
08	Subhrarani Mishra	Oxidative degradation of Iminodiacetic acid (IDA) using colloidal MnO ₂ in presence of Surfactant	2011-12
09	Snehaprava Das	Adsorption of selenite on mesoporous manganese dioxide	2012-13
10	Tushar Ranjan Mohanta	Adsorption of selenite on heat treated sea nodule residue	2012-13
11	Nibedita Giri	Adsorption of aqueous chromium (vi) on heat treated sea nodule residue	2012-13
12	Murarilal Barik	Adsorption of aqueous phosphate on heat treated sea nodule residue	2012-13
13	Atanu Banerjee	Photocatalytic activity of ceria-titania mixed oxides towards oxidative decolourization of methylene blue	2012-13
14	Bishnupriya Samal	Decolourization of methylene blue by fly ash	2013-14
15	Jayashree Dalei	Adsorptive removal of aqueous phosphate from waste water by fly ash	2013-14
16	Sasmita Mohanta	Oxidative decolourization of methylene blue using molybdenum promoted-vanadium phosphate (MO-VPO) composites	2013-14
17	Saswati Nayak	Catalytic activity of reduced graphene oxide-vanadium phosphate (RGO-VPO) composites towards decolourization of congo red	2013-14
18	Snehashree Pradhan	Decolourization of methylene blue using reduced graphene oxide-vanadium phosphate (RGO-VPO) composites	2013-14

19	Trupteemayee Mohapatra	Applications of reduced graphen oxide-vanadium phosphate (RGO-VPO) composites towards decolourization of Rhodamine-B	2013-14
20	Amreeta Swain	Kinetics of oxidation of oxalic acid by colloidal manganese dioxide in presence of divalent cobalt ion	2014-15
21	Jhuni Sahu	Kinetics of oxidation of glycine by colloidal manganese dioxide	2014-15
22	Debasish Swain	Kinetics of oxidation of nitrilo tri acetic acid (nta) by colloidal manganese dioxide	2014-15
23	Deepika Mohanta	Kinetics of oxidation of oxalic acid by colloidal manganese dioxide in presence of divalent zinc ion	2014-15
24	Madhusmita Barik	Catalytic acivity of colloidal manganese dioxide for oxidation of pentammineglycinato cobalt (iii) perchlorate	2014-15
25	Arpita Behera	Removal of cadmium from aqueous solution	2015-16
26	Abinash Das	Parameters affecting the photocatalytic degradation of dyes in waste-water using TiO ₂ based photo catalysts	2015-16
27	Sagar Kumar Behera	Photo-catalytic degradation of methyl tertiarybutylether(MTBE)	2015-16
28	Diptikanta Behera	Synthesis and application of Organo clays-A review	2015-16
29	Subhashree Bhadra	Photocatalytic degradation of Rhodamine B by TiO ₂ nanoparticle in presence of solar system.	2015-16
30	Sonali Sworupa Senapati	A Review on Photocatalytic Degradation of Methyl.Tert-Butyl. Ether(MTBE)	2016-17
31	Debashish Samal	Parameters affecting the photocatalytic Degradation of Dyes in Waste Water using TiO ₂ based Photocatalysts	2016-17
32	Pallaba Ganjan Dalai	A review on Purification of water through Novel Adsorption Process	2016-17
33	Raseswari Das	A review on Green Synthesis of silver nanoparticles from plant extract	2016-17
34	Sandip Kumar Gupta	Medical Applications of Nanomaterials.	2016-17
35	Rashmita Palai	A Review on Photocatalytic Degradation of Rhodamine B by TiO ₂ Nanoparticle	2016-17
36	Manisa Hembram	Adsorption of aqueous phosphate on Jashipur Clay Mineral	2017-18
37	Priyadarsini Sahu	Adsorption of Methylene Blue on Natural Clay Mineral	2017-18
38	Rosalin Sahoo	Adsorption of Phosphate on the surface of heat treated Ceria-Titania mixed oxides	2017-18
39	Aiswarya Kesh	Adsorptive removal of phosphate ions from water using low grade iron ore	2017-18
40	Supriya Das	Adsorption of Congo Red on Natural Clay Mineral.	2017-18
41	Pradosh Kumar Tipiria	A Review on Photocatalytic Degradation and adsorption of Dyes by Cobaltite	2017-18

42	Sikha Sayetani	Effect of Surfactant towards adsorption of phosphate on ceria-titania mixed oxide	2018-19
43	Sesadev Mallick	Effect of surfactant on photocatalytic activity of surfactant mediated ceria-titania mixed oxides towards decolourization of methylene blue	2018-19
44	Rosalin Nayak	Effect of Ceria towards adsorption of Phosphate on surfactant mediated ceria-titania mixed oxide	2018-19
45	Nagma Sultana	Effect of ceria content on photocatalytic activity of surfactant mediated ceria-titania mixed oxide towards decolourization of methylene blue	2018-19
46	Debashree Sinha	Effect of ceria content on photocatalytic activity of surfactant mediated ceria-titania mixed oxide towards decolourization of congo red	2018-19
47	Priyanka Bose	Effect of surfactant on photocatalytic activity of surfactant mediated ceria-titania mixed oxides towards decolourization of congo red	2018-19
48	Biswa Ranjan Boity	An overview on water splitting photocatalysts	2019-20
49	Saroj Kumar Shanti	New materials graphyne, graphdiyne, graphone, and graphane: review of properties, synthesis, and application in nanotechnology	2019-20
50	Pabitra Kumar Das	Use of nanotechnology in food processing, packaging and safety – review	2019-20
51	Ankit Soren	An overview on CO ₂ photo conversion	2019-20
52	Arpita Pradhan	An overview on Photocatalytic degradation of Methylene Blue in presence of Graphene Oxide/TiO ₂ nanocomposites	2019-20
53	Debassish Muduli	An Overview on water splitting photocatalyst	2020-21
54	Sulata Rout	Dye degradation using Perovskite as Photo Catalyst	2020-21
55	Sarada Prasanna Nayak	Synthesis of ZnO nanoparticles through green processing approach: A review	2020-21
56	Asutosh Mohapatra	Impure water treatment by Green Chemistry	2020-21
57	Laxmidhar Mohalik	Application of conducting Polymer for Dye Adsorption	2020-21
58	Shakti Ranjan Mohapatra	A review of Photo Catalytic application in water treatment	2020-21
59	Monalisa Jena	A Review on oxide based Nanocomposites	2021-22
60	Subhashree Swain	A Review on Sustainable Cement Production	2021-22
61	Sradhasuman Sethi	A Review on Photocatalysis and its Application in water Treatment	2021-22
62	Jagen Soren	Functionalisation of Nanoparticles for Nanomedicine	2021-22
63	Shibani Priyadarsini	Photocatalytic degradation of Methylene Blue using Bismuth Iron mixed oxide.	2021-22
64	Biswajeet Barik	Effect of ceria content on Photocatalytic Activity of Ceria-Titania mixed oxides towards Decolourisation of Methylene Blue	2021-22

65	Bapuji Kumar Singh	A Review Work on Manganese Oxide Synthesized From spent Zn-C-Battery For Supercapacitor Electrode Application	2022-23	
66	Sudipta Kumar Patra	A Review work on The synthesis of Manganese Oxide Nanomaterials and their Applications on Lithium-ion Batteries.	2022-23	
67	Bhagyashree Malik	Manganese Dioxide Nanosheets: From preparation to Biomedical	2022-23	
68	Sangram Keshari Panda	A Review on Nano MnO ₂ : Synthesis, surface modification and Applications	2022-23	
69	Gayatri Mishra	A Review on MnO ₂ Based nanostructured materials for various energy applications	2022-23	
70	Sarathi Ho	Assessment of ground water quality in the Jashipur Block, Mayurbhanj District ,Odisha	2023-24	
71	Sastri Naik	Analysis of ground water quality parameter in Bisoi Block, Mayurbhanj District.	2023-24	
72	Lalit Kumar Pradhan	Physio-Chemical quality parameter analysis of ground water of Kuliana Block, Mayurbhanj District.	2023-24	
73	Swikruti Moharana	Physiochemical Parameter analysis of ground water quality in Baripada Block of Mayurbhanj District, Odisha.	2023-24	
74	Ranjeeta Marandi	An analytical interpretation of ground water quality at Muruda Block of Mayurbhanj District, Odisha	2023-24	
75	Jitendra Hembram	Assessment of ground water quality in the Telkoi Block, Keonjhar District ,Odisha	2024-25	
76	Arpita Sethy	Assessment of ground water quality in the Banspal Block, Keonjhar District ,Odisha	2024-25	
77	Barsharani Patra	Assessment of ground water quality in the Joda Block, Keonjhar District ,Odisha.	2024-25	
78	Satyamsaurabham Behera	Assessment of ground water quality in the Champua Block, Keonjhar District ,Odisha	2024-25	
79	Himanshu Behera	Assessment of ground water quality in the Jhumpura Block, Keonjhar District ,Odisha	2024-25	
80	Sonali Pradhan	Assessment of ground water quality in the Saharapada Block, Keonjhar District ,Odisha	2024-25	
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