FacultyProfile

Name: Dr. Debadutta Das

Qualification: MSc, Ph. D

Designation:AssistantProfessor

EmailId:deba.chemistry@gmail.com

Areaofinterest:

PhysicalChemistry,SurfaceChemistryandChemicalEngineering

Area of research:

Slurry stabilization, Adsorption, Surface Modification of Silk, Green Chemistry Technology, and Materials Science

TeachingArea:

- UG:Physical chemistry,
- Organicchemistry&Analyticalchemistry
- PG:Physicalchemistry

- **UG:14years**
- **PG:2 years**

Research Supervision:

- **Completed (M.Phil/Ph.D):**

Name of the Student	Degree	University	Title of the Thesis	Date of Registration	Date of Submission	Date of Award of Degree
Mandakini Bihari	Ph. D	Centurion university of technology and management, BBSR, Odisha	Development of surfactant for high concentration iron ore water slurry	19-03-2019	07-08-2023	November 25,2023
Pritijyostna Mohapatra	PhD	BPUT,Rourkela, Odisha	Development of natural and synthetic surfactant for stabilisation of high concentration fly ash water slurry	10.07.2019	07.07.2025	

- **Ongoing(M.Phil/Ph. D):**

Nameofthe Student	Degree	University	TitleoftheThesis	Date of Registration
Bhagyashree Biswal	Ph. D	GIETUniversity, Gunupur, Odisha	SurfacemodificationofMuga silkcocoonusingnaturaland	31.08.2021

			natural-synthetic mixed surfactant	
Jharana Sahoo	PhD	GIETUniversity, Gunupur, Odisha	Biosynthesis of ZnOnanopart icle and its application	15.03.2022

ResearchArticlesPublished:(TotalNo. 40)

S.No.	Author(s)	Title	Name of Journal(Publisher) and DOI	Volume	Page	Year
1	Pritijyotsna Mohapatra, Umakanta Behera, Manas Ranjan Senapati, And **Debadutta Das**	Synergistic impact of a natural extract and bottom ash on the rheology of high-concentration fly ash water slurry	International journal of coal preparation and utilization (Taylor & Francis), https://doi.org/10.1080/19392699.2025.2489541	45	1-16	2025
2	Jharana Sahoo, Mandakini Behari, Purabi Kar, Somanath Sahoo &**Debadutta.Das**	Eco-Friendly Degumming of Tussar Silk Cocoons Using aNatural, nonionic Surfactant	Journal of Macromolecular Science, Part B – Physics	-	1–16	2025
3	Bhagyashree Biswal, Manoja Das, **Debadutta Das,*** Deeptimayee Prusty, Aritra Kumar Dan	Deciphering biosurfactant-salt interaction and its influence on biosurfactant activity in muga silk fibroin extraction	Materials Chemistry and Physics	344	131164	2025
4	Swetashree Pattanaik, Umakanta Behera, **Debadutta Das***, Pramila Kumari Misra	Enhancing the Flowability of Crude Oil-Water Emulsions in Pipeline Transportation using Trigonella foenum-graecum Extract	Journal of Macromolecular Science, Part B	64	1–19	2024

5	Soumik De, Mona SunaydihAlsaeedi, **DebaduttaDas***	Mechanistic insight into the synergistic role of the dual-surfactant system as a green solvent for deoximation reaction: An experimental and computational analysis	Journal of Molecular Liquids	400	124559	2024
6	Pritijyotsna Mohapatra, Umakanta Behera, Manas Ranjan Senapati **Debadutta Das***	Improving the rheological characteristics of fly ash water slurry using aqueous extract of Diascorea hispida.	Energy sources	46	336-346	2023
7	B.M. Murmu, S.S. Behera, A. Ray, D. Ghosh, **D. Das,** B.K. Bindhani, P.K. Parhi	A review on adsorptive removal study of organic pollutant (s) using activated sorbents from waste contaminated water	Indian Journal of Chemical Technlogy	30	589-605	2023
8	Biswal, B., Dan, A.K., Aamna, B., Behari, M., Das, M.,**Debadutta Das*.**	Self-Assembled Micellar Saponin from Sapindus laurifolia Vahl.: Investigations on the Surfactant Activity on the Extraction of Fibroin from Silk Cocoons.	J. Polym. Environ	31	3803–3813	2023

9	Mandakini Behari , Ardhendu Mouli Mohanty, **Debadutta Das**	**Insights into the transport phenomena of iron ore particles by utilizing extracted Bio-surfactant from** *Acacia concinna* (Willd.) Dc.	Journal of Molecular Liquids	382	121974	2023
10	Soumik De, Aritra Kumar Dan, Dr. Raghaba Sahu, Dr. Sagarika Parida, **Debadutta Das*.**	Total Synthesis of Natural Products using Gold Catalysis	Chemistry an Asian journal	17	896(1-20)	2022
11	Soumik De, Aritra Kumar Dan, Raghaba Sahu, **Debadutta Das***.	Asymmetric Synthesis of Halocyclized Products by Using Various Catalysts: A State-of-the-Art Review.	European Journal of Organic Chemistry	32	e202200817	2022
12	**Ku**mar Dan, A., Biswal, B., Das, M., Parida, S., Kumar Parhi, P., **Das, Debadutta.***	Aqueous and chemical extraction of saponin of Acacia concinna (Willd.) Dc.: An effective Bio-surfactant solution to extract silk fibroin from muga silk cocoons	J. Mol. Liq.	360	119547	2022

13	Mandakini Behari, **Debadutta Das**[*], and Ardhendu Mouli Mohanty .	Influence of Surfactant for Stabilization and Pipeline Transportation of Iron Ore Water Slurry: A Review.	ACS Omega	7	28708−28722	2022
14	Bhagyashree Biswal, Aritra Kumar Dan, Atanu Sengupta, Manoja Das, Birendra Kumar Bindhani, **Debadutta Das**[*]&Pankaj Kumar Parhi,	Extraction of Silk Fibroin with Several Sericin Removal Processes and its Importance in Tissue Engineering: A Review .	Journal of Polymers and the Environment	30	2222–2253	2022
15	Mandakini Behari , A.M. Mohanty , **Debadutta Das**[*]**.**	Influence of a plant-based surfactant on improving the stability of iron ore particles for dispersion and pipeline transportation	Powder Technology	407	117620	2022
16	Shaswat Kumar Das, Aritra Kumar Dan, Umakanta Behera, Ankit Kumar Tripathi, Mandakini Behari,**Debadutta Das**[*], Pankaj Kumar Parhi	A novel approach on leaching study for removal of toxic elements from thermal power plant-based fly ash using natural bio-surfactant	Case Studies in Chemical and Environmental Engineering, Volume	4	100156	2021
17	**Debadutta Das**[*], Shaswat Kumar Das, Pankaj Kumar Parhi, Aritra Kumar Dan, Snehasish Mishra, Pramila K. Misra,	Green strategies in formulating, stabilizing and pipeline transportation of coal water slurry in the framework of WATER-ENERGY NEXUS: A state of the art review	Energy Nexus	4	100025	2021

18	Umakanta Behera, Shaswat Kumar Das, Devi Prasad Mishra, Pankaj Kumar Parhi&**Debadutta Das***	Enhancing the rheology and leachability of fly ash slurry using natural – synthetic mixed surfactant systemfor hydraulic stowing in underground mines	International Journal of Coal Preparation and Utilization	42	3724-3744	2021
19	Umakanta Behera, Shaswat Kumar Das, Devi Prasad Mishra, Pankaj Kumar Parhi, and **Debadutta Das*** **.**	Sustainable Transportation, Leaching, Stabilization, and Disposal of Fly Ash Using a Mixture of Natural Surfactant and Sodium Silicate	ACS Omega	6	22820–22830	2021
20	Ahmed Mahal, Meitao Duan, Dhafer S. Zinad, Ranjan K. Mohapatra, Ahmad J. Obaidullah, Xiaoyi Wei, Manoj K. Pradhan, **Debadutta Das**, Venkataramana Kandi, Hany S. Zinadjk and Quanhong Zhu.	Recent progress in chemical approaches for the development of novel neuraminidase inhibitors	RSC Advances	3	1-37	2021

21	Shaswat Kumar Das, Jyotirmoy Mishra, Syed Mohammed Mustakim, Adeyemi Adesina, Cyriaque Rodrigue Kaze &**Debadutta Das**	Sustainable utilization of ultrafine rice husk ash in alkali activated concrete: Characterization and performance evaluation	Journal of Sustainable Cement-Based Materials	11	100-112	2021
22	Raghaba Sahu, Ranjan K. Mohapatra, Saud I. Al-Resayes, **Debadutta Das**, Pankaj K. Parhi, Shakilur Rahman, Lucia Pintilie, Manjeet Kumar, Mohammad Azam, Azaj Ansari.,	An efficient synthesis towards the core of Crinipellin: TD-DFT and docking studies	Journal of Saudi Chemical Society	25	101193	2021
23	Ranjan K. Mohapatra, Lucia Pintilie ,Venkataramana Kandi, Ashish K. Sarangi, **Debadutta Das**, Raghaba Sahu, Lina Perekhoda.	The recent challenges of highly contagious COVID-19, causing respiratory infections: Symptoms, diagnosis, transmission, possible vaccines, animal models, and immunotherapy	Chemical Biology and Drug design	6	1187-1208	2020
24	S.S. Behera, Subhendu K. Panda, **D. Das**, R.K. Mohapatra, H.I. Kim, J.Y. Lee, R.K. Jyothi, P.K. Parh.	Microwave assisted leaching investigation for the extraction of copper(II) and chromium(III) from spent catalyst	Separation and Purification Technology	244	116842	2020

25	Najla M. El-Barasi, Miloud M. Miloud, Marei M. El-ajaily, Ranjan K. Mohapatra, Ashish K. Sarangi, **Debadutta Das**[*], Ahmed Mahal, Pankaj K. Parhi, Lucia Pintilie, Soumya R. Barik, Md. Nur Amin Bitu, Md. Kudrat-E-Zahan, Zishan Tabassum, Saud I.	Al-Resayes, Mohammad Azam, Synthesis, structural investigations and antimicrobial studies of hydrazone based ternary complexes with Cr(III), Fe(III) and La(III) ions	Journal of Saudi Chemical Society	24	492-503	2020
26	**Debadutta Das**[*], Ashish K. Sarangi, Ranjan K. Mohapatra, Pankaj K. Parhi, Ahmed Mahal, Raghaba Sahu, Md. Kudrat-E-Zahan	Aqueous extract of Shikakai; a green solvent for deoximation reaction: Mechanistic approach from experimental to theoretical	Journal of Molecular Liquids	309	113133	2020
27	**Debadutta Das**[*], Ranjan K. Mohapatra, Hamza Belbsir, Anupama Routray, Pankaj K. Parhi, Khalil El-Hami	Combined effect of natural dispersant and a stabilizer in formulation of high concentration coal water slurry: Experimental and rheological modeling	Journal of Molecular Liquids	320	114441	2020

28	**Debadutta Das**[*], Ranjan K. Mohapatra, Pankaj K. Parhi, Ashish K. Sarangi, Raghaba Sahu, and Soumya R. Barik,	Sustainable and Efficient Route for the Regeneration of Carbonyl Compounds from Oximes UsingAqueous Extract of Sapindus laurifolia under Microwave Radiation	ACS Omega	5	7716–7721	2020
29	Ashish Kumar Sarangi, Bipin Bihari Mahapatra, Ranjan Kumar Mohapatra, Sisir Kumar Sethy, **Debadutta Das**, Lucia Pintilie, Md. Kudrat-E-Zahan ,Mohammad Azam, Hemanta Meher,	Synthesis and characterization of some binuclear metal complexes with a pentadentate azodyeligand:An experimental and theoretical study	Applied organometallic chemistry	34	e5693	2020
30	Ranjan Kumar Bhuyan, Ranjan Kumar Mohapatra, Ganeswar Nath, Basanta Kumar Sahoo, **Debadutta Das**[*], D. Pamu .	Influence of high-energy ball milling on structural, microstructural, and optical properties of Mg_2TiO_4 nanoparticles	J Mater Sci: Mater Electron	31	628–636	2020
31	**Debadutta Das**[*]**,** Anupama Routray, Swetashree Pattanaik, Pankaj Kumar Parhi, Bijnyan Ranjan Das.	, Effect of particle size distribution and selective alcohol additives for preparation of high concentration coal-water slurry	Micro and Nanosystem	12	102-111	2020

32	Ranjan K. Mohapatra, Pradeep K. Das, Manoj K. Pradhan, Marei M. El-Ajaily, **Debadutta Das***, Halima F. Salem, Umakanta Mahanta, Gouranga Badhei, Pankaj K. Parhi, Abdussalam A. Maihub& Md. Kudrat -E-Zahan. ,	Recent Advances in Urea- and Thiourea-Based Metal Complexes: Biological, Sensor, Optical, and Corroson Inhibition Studies	Comments on Inorganic Chemistry	39	127-187	2019
33	Swetashree Pattanaik, Pankaj Kumar Parhi, **Debadutta Das***, Akshaya Kumar Samal,	Acacia concinna: A natural dispersant for stabilization and transportation of fly ash-water slurry	Journal of the Taiwan Institute of Chemical Engineers	99	193-200	2019
34	Jibardhan Meher, **Debadutta Das***, Akshaya K. Samal, Pramila K. Misra,	Role of Maceral Composition on the Formulation of Concentrated Coal-Water Slurry Using a Natural Surfactant	Materials Today: Proceedings	3	542-550	2019

35	**Debadutta Das***, SwetashreePattanaik , Pankaj Kumar Parhi, Ranjan Kumar Mohapatra, Rajesh Kumar Jyothi, Jin-Young Lee, and Hong In Kim,,	Stabilization and Rheological Behavior of Fly Ash–Water Slurry Using a Natural Dispersant in Pipeline Transportation	ACS Omega	4	21604–21611	2019
36	Anupama Routray, Pradipta K. Senapati, Mamata Padhy, **Debadutta Das***, Ranjan K. Mohapatra	Effect of mixture of a non-ionic and a cationic surfactant for preparation of stabilized high concentration coal water slurry	International Journal of Coal Preparation and Utilization	42	Pages 925-940	2019
37	Marei M. El-ajaily, Ashish K. Sarangi, Ranjan K. Mohapatra, Saffa S. Hassan, Rehab N. Eldaghare, Pranab K. Mohapatra, Mukesh K. Raval, **Debadutta Das**, Ahmed Mahal, Amira Cipurkovic, Taghreed H. Al-Noor.	Transition Metal Complexes of (E)-2((2-hydroxybenzylidene) amino-3-mercaptopropanoic acid: XRD, Anticancer, Molecular modeling and Molecular Docking Studies	Chemistry Select	4	9999-10005	2019

38	Anupama Routray, Pradipta Kumar Senapati, Mamata Padhy, **Debadutta Das**[*].	Effect of mixture of natural and synthetic surfactant and particle size distribution for stabilized high-concentrated coal water slurry	International Journal of Coal Preparation and Utilization, International journal of coal preparation and utilization	42	238-253	2019
39	Pankaj Kumar Parhi, Saroj Sekhar Behera, Ranjan Kumar Mohapatra, Tapas Ranjan Sahoo, **Debadutta Das**, Pramila Kumari Misra	Separation and recovery of Sc(III) from Mg–Sc alloy scrap solution through hollow fiber supported liquid membrane (HFLM) process supported by Bi-functional ionic liquid as carrier	Separation Science and Technology	54	1478-1488	2019
40	Anupama Routray, **Debadutta Das***, Pankaj Kumar Parhi& Mamata Kumari Padhy.	Characterization, stabilization, and study of mechanism of coal-water slurry using SapindousMukorossi as an additive	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	40	2502-2509	2018

41	**Debadutta Das**, Uma Dash, Jibardhan Meher, Pramila K. Misra.	Improving stability of concentrated coal–water slurry using mixture of a natural and synthetic surfactants	Fuel Processing Technology	113	41-51	2013
42	**Debadutta Das**, Uma Dash, Amalendu Nayak, Pramila K. Misra,	Surface engineering of low rank Indian coals by starch-based Additives for the formulation of concentrated coal-water slurry	Energy and Fuels	24	1260–1268	2010
43	**Debadutta Das**, Sagarika Panigrahi, Pradipta K. Senapati and Pramila K. Misra	Effect of organized assemblies. Part-5	Study on the Rheology and stabilization of a concentrated coal-water slurry using saponin of the Acacia Concinna plant, Energy and Fuels	23	3217–3226	2009
44	Pradipta K. Senapati**,** **Debadutta Das**, Amalendu Nayak & Pramila K. Mishra.	Studies on Preparation of Coal Water Slurry Using a Natural Additive	Energy Sources, Part A: Recovery, Utilization, and Environmental Effects	30	1788-1796	2008
45	**Debadutta Das**, Sagarika Panigrahi, Amalendu Nayak and Pramila K. Misra	Formulation of highly concentrated coal-water slurry using a natural surfactant, Energy and Fuels	Effect of organized assemblies. Part-4	22	1865–1872	2008

46	**Debadutta Das**, Amalendu Nayak, Bhagabata Nanda and Nalini B. Das	Microwave-assisted transformation of α, β unsaturated nitroalkene into carbonyl compounds	Journal of chemical research	2006	481-482	2006

BooksChaptersPublished(Total9)

S.No	Title	Author's Name	Publisher	Year of Publication
1	Characterization and Utilization of Coal Ash for Synthesis of Building Materials.	ShaswatKumarDas,SubhabrataMishra, **DebaduttaDas**,SyedMohammedMustakim	Springer	2021
2	Studies on Extraction of Heavy Metal (s) from Fly Ash through HydroprocessingApproach.	Saroj Sekhar Behera, Surendra Hansdah, **Debadutta Das**, Pankaj Kumar Parhi, Rajesh Kumar Jyothi	Springer	2021
3	Generation, Transportation and Utilization of Indian Coal Ash	Ranjan KumarMohapatra, Pradeep KumarDas, Dulal C. Kabiraz, **Debadutta Das**,Ajit Behera, Md. Kudrat-E-Zahan	Springer	2021
4	Prospective Utilization of Coal FlyAsh for MakingAdvanced Materials.	Aritra Kumar Dan, Dipanjan Bhattacharjee, Saikat Ghosh, Saroj Sekhar Behera, Birendra Kumar Bindhani, **Debadutta Das**, Pankaj Kumar Parhi	Springer	2021

5	Investigation on Extraction and Recovery of Rare Earth Elements from Secondary Solid Wastes.	SarojSekharBehera,RanjanKumarMohapatra,**Debadutta Das**,PankajKumarParhi	Springer	2020
6	Fundamental Principle and Practices of Solvent Extraction (SX) and Supported Liquid Membrane (SLM) Process for Extraction and Separation of Rare Earth Metal(s)	Pankaj Kumar Parhi, Saroj Sekhar Behera, Dindayal Mandal, **Debadutta Das**, Ranjan Kumar Mohapatra	Springer	2020
7	Processing Technology for Extraction of Scandium(III) from Secondary Sources–A Comprehensive Approach, Abhilash, , &Akcil, A. (Eds.).	Pankaj Kumar Parhi, Saroj Sekhar Behera, **Debadutta Das**, Pramila Kumari Misra,	Critical and Rare Earth Elements: Recovery from Secondary Resources (1st ed.). CRC Press.	2019

8	Processing Technology For Treatment of Primary and Secondary Bearng Base Metal:ComprenshiveHydro metalurgicalApproachOfRec overyOfCopperAndZincIn "Mineral processing ,Method, Application and Technology	Pankaj Kumar Parhi, Saroj Sekhar Behera, Ranjan Kumar Mohapatra and **Debadutta Das**	Nova Science Publisher	2018
9	Fundamental and Applied Aspects of Developing Green Additives for the Stabilization of Coal-Water Slurry, In "Innovative Approach of Integrated Resource Management"	Pramila Kumari Misra and **Debadutta Das**	New Delhi Publisher,	2018

Books Published:

1.Chemical Modification of Solid Surfaces by the Use of Additive, published onOctober 2021 :1st Edition:Publisher: Bentham Science Publishers Pte. Ltd. Singapore. ISBN: 978-981-5036-81-7

Patents:

S.No	Patent Title	Name of Applicant(s)	Patent No.	Award Date	Agency/ Country	Status
1	A system for preparing fly ash water slurry(FAWS) using bio-additive solution from Dioscorea Hispida	Umakanta Behera, Swetashree Pattnaik, Barada Prasana Das, Niva Nayak ,Tapan Panda ,**Debadutta Das**, Pramila Kumari Misra	2024/02003	11.03.2024	South Africa	Granted
2	System zur Gewinnung eines Biotensids aus der Pflanze Sapindus laurifolia vahl. für die Anwendung zur Entschleimung von Rohseide"(Asystem for obtaining a biosurfactant from sapindus laurifolia vahl. Plant for raw silk degumming application)	**Debadutta Das**, Aritra Kumar Dan, Aamna Bari, Swetashree Pattnaik, Jharana Sahoo, Bijnyan Ranjan Das, Pramila Kumari Misra	20 2023 106 991	11.01.2024	Germany	Granted

3	System zur Isolierung eines Biotensids aus den Früchten der Pflanze Acacia concinna (willd.) dc. für den Transport von Eisenerz-Schlamm”(A system for isolating a biosurfacatnt from fruits of *Acacia concinna* (Willd.) Dc. plant for iron iore-slurry transportation)	Umakanta Behera, Manadakini Behari, Swetashree Pattnaik, Anupama Routray, **Debadutta Das**, Pramila Kumari Misra,	20 2023 106 107	19.01.2024	Germany	Granted
4	Degumming of Muga silk by natural surfactant	**D. Das**, P. K. Parhi, R. K. Mohapatra, S. N. Das, S. K. Mahanta and S. R. Barik	201931049356	04.06.2021	India	published
5	Reduction of viscosity of crude oil-water emulsion using a natural dispersant	Pramila K. Misra, **Debadutta Das**, Bijnyan Ranjan Das Swetashree Pattnaik	353623	14.12.2020	India	Granted
6	A stabilised coal – water slurry with an additive from Acacia auriculiformis and a process there for	Pramila kumari Misra, **Debadutta Das**,Uma Dash Jibardhan Meher	355631	11.01.2021	India	Granted

7	A natural additive for the stabilization of the coal-water slurry:	Pramila kumari Misra, **Debadutta Das**,Uma Dash Jibardhan Meher	WO 2016/178241	10.11.2016	World Intellectual Property Organizatio n PCT	Published

Invited/SpecialLectures/ResourcePersonsorPresentationsatConferences/ Workshops:

1. Attended the Bangladesh Chemical Society conference, BCSC-2019, as Invited Speaker, which is organized at Rajshahi University, Bangladesh, during 9th to 10th November, 2019.
2. National Conference on Recent Advances in Material Science and Technology (RAMSAT-2019) jointly organised by Government of college of Engineering,Keonjhar and Institute of Chemical Technology, Mumbai, India.March,30-31,2019.
3. National seminar on coal and mineral processing technology (CMPT-2019) jointly organised by Department of mineral engineering, Government of college of Engineering, and Indian Institute of Minerals Engineers, Keonjhar, Odisha, India.January,12-13,2019.
4. 27th Regional conference of Odisha Chemical Society, Organized by. Dept. of Chemistry, Paradeep College, Paradeep, Odisha, India. 23rd Septmber, 2018.
5. International Conference on Industrial Impact on Environment and Sustainable Development organised by Government of college of Engineering,Keonjhar and Odisha,India.April,15-316,2018 .
6. International Conference of Recent Advances in Material Chemistry, organized by P.G Department of Chemistry, Utkal University, Vani Bhubaneswar, Odisha, India. Feb.24-26, 2017.
7. 30th annual conference of Odisha Chemical Society, Organized by. Dept of Chemistry, KIIT University, Bhubaneswar, Odisha, India. Dec. 24-25, 2016.
8. UGC Sponsnsored National Seminar On Environmental Impact Assement And Human Health, Perspective, Approach And Future Direction During 28-29 Septmber, 2016 organized by Mohan Subudhi College, Badamba , Cuttack, Odisha, India.
9. International conference on innovative application of chemistry in pharmacology and technology (IACPT) during 6th -8th Feb, 2015 organized by department of chemistry, Berhampur university, Odisha, India.
10. 28th annual conference of Odisha chemical society Dec 13-14, 2014.Organized by U.N College, Adaspur, Cuttack, Odisha, India.27th

annual conference of Orissa chemical society and national conference on “chemistry in the 21st century” 14-15 december, 2013 organized by MEMT, Balasore, Odisha, India.

11. International seminars on Minerals Processing Technology MPT- 2013. Institution of Minerals and Material Technology, CSIR, Bhubaneswar, India. Dec. 10-12, 2013.
12. Recent Trends in Chemical Science, organized by School of Chemistry, Sambalpur University, Jyoti Vihar, Burla, Odisha, India. Feb. 16-17, 2013.
13. 26th annual conference of Odisha chemical society and national seminar on Recent Trends in chemical scienceand technology. Nov 15-16, 2012.Organized by Ravenshaw University, Cuttack, Odisha.
14. India26th annual conference of Odisha chemical society and national seminar onRecent Trends in chemical science and technology. Feb 8-9, 2012.Organized by Ravenshaw University, Cuttack, Odisha, India.
15. National seminar on E-waste management. Department of chemistry, Aul college, Aul, Kendrapara, Odisha, India. October, 2012.
16. Recent Trends in Chemical Science, organized by School of Chemistry, Sambalpur University, Jyoti Vihar, Burla, Odisha, India. Feb. 19-21, 2011.
17. International seminars on Minerals Processing Technology MPT- 2009. Institution of Minerals and Material Technology, CSIR, Bhubaneswar, India. Oct. 28-30, 2009.
18. 23rd annual conference of Odisha chemical society and national seminar on Recent Trends in chemical science and technology. Dec. 19-20, 2009.Organized by National Institute of Technology, Rourkela, Odisha, India.
19. 19th annual conference of Odisha chemical society, Organized by. School ofChemistry, Sambalpur University, Jyoti Vihar, Burla, Odisha, India. Dec. 23-24, 2005.

AwardsandDistinctions:

- QualifiedJointCSIR-UGCNET(Lectureship),June2002
- QualifiedGATEwith91.69percentile(All IndiaRank239),2003

AssociationwithProfessionalBodies:

- Odisha chemical society