



Curriculum Vitae

Dr. Balram Ambade

Associate Professor & Head of Department
Department of Chemistry
National Institute of Technology, Jamshedpur

Mob: +91-91220-56501

Office: 0657 2374044

E-mail: bambade.chem@nitjsr.ac.in

bambade@gmail.com

Website:

<https://bambade3.wixsite.com/mysite>

<http://www.nitjsr.ac.in>

Profile

- **Head of Department** (Chemistry), NIT Jamshedpur from 14.05.2019 to till date
- **Associate Dean (S &W)**, NIT Jamshedpur (17-10-2017 to 28-09-2018)
- **Assistant Dean (S &W)**, NIT Jamshedpur (14-05-2016 to 16-10-2017)
- **Assistant Registrar** (Student Welfare) NIT Jamshedpur (28-01-2016 to 13-05-2016)
- **Assistant Registrar** (Academic) NIT Jamshedpur (15-05-2015 to 27-01-2016)
- **Assistant Warden** (Hostel A, B, H) NIT Jamshedpur (22-11-2012 to 26-09-2015)
- **Subject Expert**, Selection board constituted for faculty recruitment in Chemistry (2018), Sarla Birla University Ranchi
- Nominated as a Member of the Assessment Committee at **CSIR-NML** (2019)
- Chairman, Departmental Purchase Committee (DPC) May 2019- till date
- Chairman, Doctoral scrutiny committee (DSC) 2019
- Member of editorial board/ reviewer of national and international research journals of high impact factor
- Member, Institute library committee (2013-2017)
- Member, Institute admission Committee (2013-2017)
- Chairman, SRC of Department of Chemistry (2019- onwards)
- Chairman, Department safety committee (2019-onwards)
- Member, standing committee on academic ethics (2019-onwards)
- Special Invitee, Senate, NIT Jamshedpur (2019-onwards)
- Chairman, National Conference on catalysis and photo catalysis for clean energy (CPCE-2020).
- Chairman, National webinar, COVID 19 Pandemic and Waste management (2020)

Education

Ph.D. (2010)	Pt. Ravishankar Shukla University, Raipur
Topic of Thesis:	Analytical studies of precipitate (Rain and Fog) and Runoff water pollution
M.Sc. (2004)	Pt. Ravishankar Shukla University, Raipur
B.Sc. (2002)	Pt. Ravishankar Shukla University, Raipur
12 th (1999)	CBSE, New Delhi
10 th (1997)	CBSE, New Delhi



Research Interest

Research in the Prof Balram group includes three primary components, two of which are disciplinary, and a third that extends into new interdisciplinary directions: (i) advancing the understanding of **Environmental Chemistry**, (ii) better quantifying **Atmospheric Chemistry**, Polycyclic Aromatic Hydrocarbons (**PAHs**), Black Carbon (**BC**), **Organic Compounds** (**OCs**) and **Analytical instrumentation** and its linkages to climate change, and (iii) **Analytical Chemistry**.

(Vacancy Open of Ph.D./ Post Doc. Student)

Fellowship/Awards

- (i) CCMI travel grant to attend fifth Chemistry-Climate Model Initiative (CCMI) Science Workshop by Météo-France, Toulouse, **France** (13rd - 15th June 2017)
- (ii) Young Scientist award to participate Open Science Conference by Institute of Atmospheric Physics, Chinese Academy of Sciences Beijing, P. R. **China** (April 7-10, 2014)
- (iii) Full travel award by Marie Curie Award, by European commission to attend Dynamics of Diversity in the Globalisation Era EURODIV 5th Conference FEEM, Milan, **Italy** (October 22 -23,2009)
- (iv) **GBB Grant** to Participate EMBN Workshop on Membrane proteins and proteomics, Bernoulliborg University of Groningen The **Netherlands** Framework of the EU-EMBNTrain project by Groningen Bimolecular Sciences and Biotechnology Institute (GBB), **Netherland** (January 27 - 31, 2008)
- (v) Travel award to attend International Conference of the International Global Atmospheric Chemistry by NASA Earth Science Division Modeling, Analysis, and Prediction (MAP) Program at Annecy, **France** (September 7-12 2008)
- (vi) Full travel award by Marie Curie Award, by European commission to attend Fourth EURODIV Diversity in Cities: New Models of Governance at IPRS, Rome, **Italy** (September 16-17, 2008)
- (vii) **Marie Curie Grant**, by European Commission, for a participating training course "Physics and chemistry of air pollution and their effects: field course and data analysis" held at Hyytiälä forestry field station, Finland, (March 10 - 19, 2008)
- (viii) **GATE Qualified** (Chemical Sciences, 2005)
- (ix) **SERB Early Career Research (ECR) Awardee**

Teaching / Research Experience: 14 years

1. As **Associate Professor**, since May 2018 to till date, Department of Chemistry, National of Technology Jamshedpur.
2. As **Assistant Professor**, since April 2012 to May 2018, National of Technology Jamshedpur.
3. As **Post Doc Research Associate**, since October 2011 to April 2012, IISER Bhopal
4. As **Assistant Professor** since September 2010 to May 2010, VITS Raipur
5. As **Lecturer** since September 2005 to December 2009, Government Engineering College Raipur



Foreign Visit: (Research purpose)

Finland, Netherland, China, France, Italy, Bangladesh

Professional Membership

- Member, International Association of Hydrological Sciences [IAHS] Membership no.:12504
- Member, International Association of Engineers [IAENG], Membership no: 125450

Reviewer:

- Journal of Hazardous, Toxic, and Radioactive Waste, ASCE
- Nature hazards, Springer
- Environmental Pollution, Elsevier
- Building and Environment, Elsevier
- Atmospheric Pollution Research, Elsevier
- Ain Shams Engineering Journal, Elsevier
- Urban Water Journal, Elsevier

Research Projects Awarded: 07 (3 On-going+ 4 Completed)

On-going

- **Title:** Black carbon Aerosols over Jamshedpur: Source, Radiative Forcing and Climate impact
Funding Agency: **DST-SERB**
Fund allotment: Rs. 36, 80,000 (Thirty Six Lakh Eighty thousand rupees only)
Duration: March 2018 to Feb 2021
Role: Principal Investigator
- **Title :** Spatial distribution of uranium and associated water quality parameters in groundwater /drinking water of Seven districts (East Singhbhum, Saraikela Kharsawan, West Singhbhum, Khunti, Simdega, Gumla, Latehar) of Jharkhand
Funding Agency: **BRNS**
Fund allotment: Rs. 27,51,800 (Twenty seven Lakh Fifty one Thousand eight hundred rupees only)
Duration: Oct 2018 to Sept 2020 (Project extended Dec 2020)
Role: Principal Investigator
- **Title:** Design and development of eco- friendly absorbent and comfortable sanitary napkin
Funding Agency: NID, MHRD
Fund allotment: Rs. 2, 70,000 (Two lakh seventy thousand rupees only)
Duration: Nov 2018 to Oct 2019
Role: Principal Investigator

Completed (4)

- **Title :** Polycyclic Aromatic Hydrocarbons (PAHs) in the Atmosphere of Jamshedpur, East India: sources, human health risk assessment and climate effects
Funding Agency: DST-SERB
Fund allotment: Rs. 28,99,000 (Twenty Eight Lakh Ninety Nine Thousand rupees)



only)

Duration: March 2017- Feb 2020

Role: Principal Investigator (PI)

- **Title :** Fine aerosol over Jamshedpur and its climate effects
Funding Agency: CIIE
Duration: Oct 2015 to Sept 2016
- **Title :** Chemical Characteristics of Wet Precipitation at an Industrial site of Jamshedpur
Funding Agency: CIIE
Duration: Oct 2015 to Sept 2016
- **Title:** Process for the synthesis of low cost hair cleaning paste from soil
Funding Agency: CIIE
Duration: Oct 2015 to Sept 2016

Ph. D. Awarded: 02 (Full Supervisor)

1. Dr. Basant Shubhankar, Reg No. : 2013RSCH001
Title "Investigation of aerosol characteristics from burning activities in Jamshedpur",
(Awarded & Joined CPCB, as Scientist)
2. Mr. Amit Kumar (JRF), Registration No. 2017RSCH001, (Thesis Submitted, Oct 20)
Title: "Atmospheric deposition of Polycyclic Aromatic Hydrocarbons (PAHs) in East India"

Ph. D. On-going: 04

1. Mr. Shrikanta Shankar Sethi (JRF), Registration No. 2018RSCH004
2. Mr. Tapan Kumar Shankar (JRF), Registration No. 2018RSCH003
3. Mr. S.K. Pradhan (Scientific Officer, AMD) Registration No. 2018RSCH001
4. Mrs. Mala Madhyan (Assistant Professor) Registration No. 2019RSCH003

M. Tech Thesis Supervision: 11 (Awarded)

1. Mr. Bhupendra Daharwal (GATE) (Surface Science & Engg.) (2015), Roll no. (2013PGCHSS001) Title: Application of Isocyanate derivatives in coating systems to product substrate" (June 2015)
2. Mr. Kiran Kumar Reddy Meka (GATE), Surface Science & Engg. 2016, Roll No:2013PGCHSS001 Title: Synthesis and characterization of phosphorous and nitrogen functionalized flame retardant foams using azide alkyne click reaction (June 2016)
3. Mr. Diwakar Dubey (GATE), Surface Science & Engg. (Roll No:2015PGCHSS002) Title: Comparative study of different steel & their corrosion protection through surface coating used in automotive industry. (June 2017)
4. Ms. Bharti Malviya (GATE), Surface Science & Engg. (Roll No:2015PGCHSS004) Title: Elevated temperature erosion of thermal barrier and abradable coating (June 2017)
5. Ms. Pratiksha Sharma (GATE), Surface Science & Engg. (Roll No:2015PGCHSS006) Title: Single crystal silicon carbide (June 2017)
6. Mr. Shubham Tiwari (GATE) 2016PGCHSS05, Process mapping of fasteners and their corrosion protection through coating used in automotive industry (June 2018)



7. Mr. Abhishek Raj (GATE) 2016PGCHSS08, Monitor corrosion resistance performance of various paint systems for offshore and related structures using accelerated environment testing and electro impedance spectroscopy (June 2018)
8. Mr. Manishankar Kumar (GATE), 2016PGCHSS02, Cycle time reduction of specific sandmill batches (June 2018)
9. Mr. Keshav Kundan (GATE) 2016PGCHSS01, Analysis of corrosion resistance property of cold bended 316L and 6MO stainless steel pipes (June 2018)
10. Ms. Shruti Sinha (GATE) 2017PGCHSS04, Studies of mild steel corrosion (June 2019)
11. Mr Pranay Trivedi (GATE) 2018PGCHSS05, Comparative Oxidation and Hot Corrosion Behaviour Studies of P91 and IN617 Alloys (June 2020)

M.Sc. Thesis Supervision: 20 (Awarded)

1. **Ms. Lalita Phalswal** (Roll No:2015PGCHCH011) Title: Studies on various methods for arsenic removal techniques (June 2017)
2. **Mr. Anuj Kumar Rawat** (GATE; Roll No:2015PGCHCH013) Title: Studies of Arsenic in drinking water of Jamshedpur (June 2017)
3. **Mr. Vikash Singh** (Roll No. 2016PGCHCH11) Title: Assessment of Indoor Air quality caused By solid fuels and incense sticks (June 2018)
4. **Mr. Kushal Tripathi** (Roll No. 2016PGCHCH09), Title: Arsenic Contamination in Ground Water (June 2018)
5. **Ms. Garima Sharma** (Roll No.2016PGCHCH05) Title: An Analysis of Volatile Organic Compounds in Air (June 2018)
6. **Ms. Priya suman** (2014) Entitled "Study of heavy metals in heavy traffic area of Jamshedpur" Centre for Environmental Sciences, School of Earth Biological and Environmental Sciences, Central University of Bihar (June 2014)
7. **Mr. Rohit Bhardwaj** (2014) Entitled "Chemical characterization of PM10 during summer months of Jamshedpur city" Centre for Environmental Sciences, School of Earth Biological and Environmental Sciences, Central University of Bihar (June 2014)
8. **Ms. Richa Rao**, 17MSCCHEM21095 (Jamshedpur Women's College JSR), Entitled "Characterization of PM2.5 over semi urban area of Jamshedpur" (June 2019)
9. **Ms. Krishna Tudu**, 17MSCCHEM21093 (Jamshedpur Women's College JSR) Entitled "Characterization of PM2.5, PM10, SO2, NO2, Ozone and CO over urban area of Jamshedpur" (June 2019)
10. **Ms. Kakoli**, 17MSCCHEM21090 (Jamshedpur Women's College JSR) Entitled "Characterization of PM2.5, PM10, SO2, NO2, Ozone and CO over rural area of Jamshedpur" (June 2019)
11. **Ms. Kavita Patro**, 17MSCCHEM21091 (Jamshedpur Women's College JSR) Entitled "Characterization of PM2.5, PM10, SO2, NO2, Ozone and CO over industrial area of Jamshedpur" (June 2019)
12. **Mr. Suraj Bhaisal** 2017PGCHCH02, A comparisons study of heavy metals and fish sample in Kharkai River in and outside of Jamshedpur (June 2019)
13. **Mr. Niloy Sarkar**, 2017PGCHCH12, Studies of sediment in Kharkai River , Jamshedpur (June 2019)
14. **Mr. Jujhar Majhi**, 2018PGCHCH18- Fluoride Occurrence and Human Health risk in drinking Water in East Singhbhum district, Jharkhand, India (June 2020)



15. **Ms. Neha Rani**, 2018PGCHCH10- Study of PM2.5 associated BC over Jamshedpur (June 2020)
16. **Ms. Sweta Singh**, Roll No. 18MSCCHEM24667, Registration no. - JWC201802323 (Jamshedpur Women's College JSR) - Water quality analysis and Flouride contamination at Subarnarekha river in Jamshedpur (June 2020)
17. **Ms. Saniya Marfani**, Registration No.– JWC201802527, (Jamshedpur Women's College JSR) - Determination of physio-chemical parameters of river Kharkai and hill river. (June 2020)
18. **Ms. Shireen Azad** Roll No: 18MSCCHEM25090 Registration No:15JWC12380 (Jamshedpur Women's College JSR) - Analysis of Groundwater collected from Potka Area (June 2020)
19. **Ms. Prity Kumari** Registration No :- 15JWC12362, Roll No :- 18MSCCHEM25148, Class Roll No :- 25 (Jamshedpur Women's College JSR) - Groundwater Analysis in Gamaria, Adityapur and Jamshedpur area (June 2020)
20. **Ms. Suparna Pati (Reg no. 15JWC1236)**: Analysis of water quality index of Dimna and Hudco lake (June 2020)

Book authored: 4

- Text book of Atmospheric Chemistry, Cambridge Publisher (under publishing, 2020)
Author: Dr. B.Ambade
- Physico-Chemical Assessment of Rain, Fog and Runoff Water, 2012, ISBN: 978-3-659-30271-8, Lap-Lambert Academic Publishing, Germany
Author: Dr. B. Ambade
- Toxicity of Fluorides in the Environment, 2012, ISBN: 978-3-8465-2902-7, Lap-Lambert Academic Publishing, Germany
Author: Dr. B. Ambade and Dr. Sampad Ghosh
- Handbook of Novel Drug Delivery, (2020) Nova Science Publishers, Inc. 415 Oser Avenue, Suite N, Hauppauge, NY 11788 USA, Author: Dr. Balram Ambade, Dr. Rajendra Kumar Jangde, and Sulekha Khute

Book Chapters: 3

- K. S. Patel, **B. Ambade**, S. Sharma, D. Sahu, N. K. Jaiswal, S. Gupta, R. K. Dewangan, S. Nava, F. Lucarelli, B. Blazhev, R. Stefanova, and J. Hoinkis, Lead environmental Pollution in central India, New Trends in Technologies, Edited by Blandna Ramov, 2010, 65- 76. (ISBN: 978-953-7619-62-6), Publisher: In Tech. PROJECTS
- **Balram Ambade**, Basant Shubhankar, Sudarshan Kurwadkar, Amit Kumar, Santosh Kumar Verma, Sarita Gajbhiye Meshram, Chandrashekhar Meshram, Sonu Kumar Goyal Polychlorinated biphenyl in sediments of Subarnarekha River: levels, spatial and temporal distribution, possible sources, and inventory (2020), , Dioxin: Environmental Fate, Human Health, and Ecological Consequences, Edited By Sudarshan Kurwadkar, Prabir K. Mandal, Shivani Soni, <https://www.taylorfrancis.com/books/9781315170961> (ISBN 9781315170961), Pp 35.



- **Balram Ambade**, Shrikanta S Sethi, Amit Kumar, Tapan K Sankar (2020) Polycyclic aromatic hydrocarbon toxicity in riverine sediment and surface water of Subarnarekha River and its tributary, India, Handbook of Miniaturized Analytical Devices, ISBN 978-3-527-34758-2, WILEY (Wiley-VCH)

Publications: 42 (5 SCI, Single Author paper)

1. Balram Ambade, Amit Kumar, Shrikanta Shankar Sethi Tapan Kumar Sankar (2020) Health Risk Assessment, composition and distribution of Polycyclic Aromatic Hydrocarbons (PAHs) in Drinking Water of Southern Jharkhand, East India, Archives of Environmental Contamination and Toxicology (Accepted) IF: **2.7**
2. Susanta Kumar Pradhan, Balram Ambade (2020) Extractive separation of rare earth elements and their determination by inductively coupled plasma optical emission spectrometry in geological samples, Journal of Analytical Atomic Spectrometry, 35,1395-1404, doi: <https://doi.org/10.1039/D0JA00190B> IF: **3.498**
3. Balram Ambade, Tapan Kumar Sankar , Amit Kumar, Shrikanta Shankar Sethi, Rajendra Jangde (2020) Occurrence and Seasonal Variation of Black Carbon in Fine Particulate Matter over an urban region, Journal of Hazardous, Toxic, and Radioactive Waste Mgmt doi: [10.1061/\(ASCE\)HZ.2153-5515.0000566](https://doi.org/10.1061/(ASCE)HZ.2153-5515.0000566) **ASCE (American Society of Civil Engineering)**
4. Susanta Kumar Pradhan, Balram Ambade, Pranab Kumar Tarafder (2020) An evolved fluorimetric determination of uranium in rock/mineral sample solutions containing hydrolysable elements such as Nb, Ta, Zr and Ti sequestered by bi-fluoride, Applied Radiation and Isotopes, Volume 160, June 2020, 10912, 6, doi: <https://doi.org/10.1016/j.apradiso.2020.109126>, IF- **1.4**
5. Meshram S G, Kahya E , Meshram C, Ali M G , Ambade B , Mirabbasi R (2020) Long term temperature trend analysis associated with agriculture crops, Theoretical and Applied Climatology, 140, 1139–1159, (doi: <https://doi.org/10.1007/s00704-020-03137-z>, IF-**3.1**
6. Kumar A., Ambade B., Sankar T. K., Sethi S. Kurwadkar S (2020) Source identification and health risk assessment of atmospheric PM2.5-bound polycyclic aromatic hydrocarbons in Jamshedpur, India, Sustainable Cities and Society (<https://doi.org/10.1016/j.scs.2019.101801>), 52, 101801. (IF: **5.2**)
7. Kumar A., Ambade B., Sankar T. K., Sethi S.S. (2020) Characteristics, Toxicity, Source identification and Seasonal variation of Atmospheric Polycyclic Aromatic Hydrocarbons over East India, Environmental Science and Pollution Research, doi: 10.1007/s11356-019-06882-5, 27, 1, 678–690, IF-**3.3**
8. Balram Ambade, Tapan Kumar Sankar, Amit Kumar, Shrikanta Shankar Sethi (2019) Characterization of PAHs and n-alkanes in atmospheric aerosol of Jamshedpur city, India, Journal of Hazardous, Toxic, and Radioactive Waste Mgmt (2020) **ASCE Journal**, DOI: [10.1061/\(ASCE\)HZ.2153-5515.0000490](https://doi.org/10.1061/(ASCE)HZ.2153-5515.0000490)
9. S. K. Pradhan, **B. Ambade**, P. K. Tarafder (2019) Separation and Pre-concentration of Trace Uranium (VI) by Solid Phase Extraction with 2,3-Dihydroxynaphthalene and Cetyltrimethyl ammonium Bromide on Molten Naphthalene and its LED Fluorimetric Determination in Water Samples, Analytical Sciences, DOI: 10.2116/analsci.19P216 IF: **2.418**



10. S. K. Pradhan, **B. Ambade**, P. K. Tarafder (2019) Speciation of Fe (II) and Fe (III) in Geological Samples by Solvent Extraction and Flame-Atomic Absorption Spectrometry (F-AAS), Atomic Spectroscopy 40, 4 (IF: 1.6)
11. S.K. Pradhan, **Ambade B.**(2019) A modified method for the determination of uranium in Nb/Ta minerals by LED Fluorimetry, Journal of Radioanalytical and Nuclear Chemistry 320, 2, 459–466 (IF: 1.186)
12. **B. Ambade** (2018) The air pollution during Diwali festival by the burning of fireworks in Jamshedpur city, India, Urban Climate, 26, 149-160 <https://doi.org/10.1016/j.uclim.2018.08.009> (Single Author) IF: 3.834
13. S. G. Meshram, S. K. Singh, C. Meshram, R. C. Deo, **B. Ambade** (2018) Statistical Evaluation of Rainfall Time Series in Concurrence with Agriculture and Water Resources of Ken River Basin, Central India (1901-2010) Theoretical and Applied Climatology 1-13, 2017, DOI: 10.1007/s00704-017-2335-y
14. B Shubhankar, **B Ambade** (2016) Chemical characterization of carbonaceous carbon from industrial and semi urban site of eastern India, Springer Plus 5 (1), 1-17 DOI: 10.1186/s40064-016-2506-9
15. S Ghosh, A Ray, N Pramanik, **B Ambade** (2016) Can a cationic surfactant mixture act as a drug delivery vehicle?, Comptes Rendus Chimie, 19 (8), 951–954
16. B Shubhankar, **B Ambade** (2016) A critical comparative study of indoor air pollution from household cooking fuels and its effect on health, Oriental Journal of Chemistry, 32 (1), 473-480 <http://dx.doi.org/10.13005/ojc/320154>
17. B Shubhankar, **B Ambade**, SK Singh, SG Meshram (2016) Characteristics and seasonal variation of Carbonaceous and Water soluble organic Components in the aerosols over East India, Oriental Journal of Chemistry 32 (1), 523-532
18. B Shubhankar, **B Ambade** (2016) A Review on Deposition, Distribution of Polycyclic Aromatic Hydrocarbons in Different Environmental Matrix and Study its Toxicity and Carcinogenic Effect, Asian Journal of Chemistry 28 (11),
19. B Shubhankar, **B Ambade** (2016) Review on Composition, Emission sources of RSPM, TSPM, Heavy metals and Ions with effect on environment and health, Research Journal of Chemistry and Environment, 20, 10 ,2016
20. B Shubhankar, **B Ambade** (2016) A Critical Assessment of PM10 (Carbonaceous Aerosol) and Ions from Biomass Burning on the Rural Side of Jamshedpur (TATA), India, Journal of Basic and Applied Engineering Research 3(1)19-23
21. B Shubhankar, **B Ambade** (2016) Health Impacts of Indoor Air Pollution of PM10 Size from Household Cooking Activities, Journal of Basic and Applied Engineering Research, 3(1)35-40
22. B Shubhankar, **B Ambade** (2016) A review on deposition of atmospheric PAHs and interaction with other environmental matrices and its source apportionment with respect to Indian scenario, RASĀYAN Journal of Chemistry, 9(2) 243 – 253.
23. B Shubhankar, **B Ambade** (2016) Identification and Analysis of PM_{2.5} WSIS and Trace Gases during Winter Season at Industrial Zone of Tatanagar, Journal of Applicable Chemistry, 2016,5(3):637-645
24. B Shubhankar, **B Ambade** (2016) Spatio-temporal variability of ambient trace gas pollutants and their PCA predication: a comprehensive review, RASĀYAN Journal of Chemistry, 9 (2)112 – 120



25. B Shubhankar, **B Ambade** (2016) Toxicities of PM_{2.5}, Polyaromatics hydrocarbon on indoor air emitted during fuming of incense and mosquito coil materials, *Int. J. Chem. Sci.*: 14(2), 2016, 545-558
26. **B Ambade** (2016) Characterization of PM₁₀ over urban and rural sites of Rajnandgaon, central India, *Natural Hazards* 80 (1), 589-604 DOI: 10.1007/s11069-015-1985-2 (Single Author), IF- 2.8
27. **B Ambade** (2015) Chemical composition of runoff water in Raipur city, central India, *Applied Water Science* 5 (1), 1-12 DOI: 10.1007/s13201-014-0163-0 (Single Author)
28. **Ambade B** (2014) Characterization and Source of Fog Water Contaminates in Central India, *Natural Hazards*, 70, 1535-1552 DOI: 10.1007/s11069-013-0892-7 (Single Author) IF- 2.8
29. **Ambade B** (2014) Seasonal Variation and Sources of Heavy Metals in hilltop of Dongargarh, Central India, *Urban Climate*, 9, 155-165, IF- 3.834 (Single Author), IF: 3.834
30. Giri B, Patel KS, Jaiswal N, Sharma S, **Ambade B.**, Wang W., Simonich S., Simoneit BRT., (2013) Composition and Sources of Organic Tracers in Aerosol Particles of Industrial Central India, *Atmospheric Research*, 120-121, 312-324.
31. Ambade B., Ghosh S (2013) Characterization of PM₁₀ in the ambient air during Deepawali festival of Rajnandgaon district, India, *Natural Hazards*, 69, 1, 589-598 DOI: 10.1007/s11069-013-0725-8
32. Ambade B., Ghosh S (2013) Air Quality deterioration by Firecracker during Diwali Festival in Jamshedpur, India, *J. Appl. Chem.*, 2, 2, 352-358
33. Ambade B., Ghosh S., Shubhankar B (2013) Ambient air quality of Jamshedpur city: A study with reference to SO₂, NO₂, RSPM and SPM contents *J. Appl. Chem.*, 2, 3, 539-544.
34. Ghosh S., Ambade B., Ray A (2013) Stable Catanionic Vesicles as Drug Delivery Vehicle, *Science of Advanced Materials*, 5(12), 1837-1846. doi:10.1166/sam.2013.1649
35. Ghosh S., Ambade, B (2013) Interaction in Aqueous Mixtures of Sodium N-(n-Alkanoyl)-L-Alaninate and n- Alkyltrimethylammonium Hydroxide Surfactants: Effects of Composition and Hydrocarbon Chain Length, *Advanced Chemistry Letters* , 1, 174-181 DOI: <http://doi.org/10.1166/acl.2013.1018>
36. Ghosh S., Ray A., Ambade B (2013) Chemistry for the Society and Industries, *Advanced Science Focus*, 1(4), 354-357 doi:10.1166/asfo.2013.1046
37. Ghosh S., Ambade B, Ray A (2013) Gene Delivery Using Cationic Micelles and Vesicles, *Advanced Chemistry Letters*, 1(2), 93-103 doi:10.1166/acl.2013.1030
38. Ambade B., Rao CH MS (2012) Assessment of Groundwater Quality with a Special Emphasis on Fluoride Contamination in Rajnandgaon District of Chhattisgarh State in Central India, *International Journal of Environmental Sciences*, 3, 2, 851-848
39. Ambade B., Litrupa (2012) Evaluation of Heavy metal Contamination in Road Dust Fallout of Bhilai City, *Intern. J. of Adv. Eng. Res. and Stud* 1, 4, 81-83
40. Ghosh S., Ambade B., Prasad S.K., Choudhary AK (2012) Simultaneous Extraction of Copper and Iron from Chalcopyrite Concentrates in Hydrochloric Acid Media: Effect of Additives and Temperature, *Research inventy: Intern. J. of Eng. and Sc.*, 1, 9, 8-13



41. K.S. Patel, B. Ambade, J. Nicolás, E. Yubero (2009) Chemical characteristics of rainwater in central India, *Ecology and Nature* , 12, 148-155
42. Ambade B., E.K. Janghel, M.K. Rai, G.L. Mundhara (2006) A new solid sorbent system for rapid monitoring of dehydrogenated nicotine by using furfural hydrochloric acid, *Chinese Chemical Letters* , 17,9,1267-1270, IF- 4.632

Workshop/GIAN Course Organized

- Coordinator, National Workshop on “Green Chemistry and Sustainable Development” (GCSD-2017) sponsorship with Technical Education Quality Improvement Programme (TEQIP) Phase-II for 2 days event (17-03-2017 to 18-03-2017) in the Department of Chemistry, NIT Jamshedpur
- Coordinator, MHRD Scheme on Global Initiative on Academic Network (GIAN) GIAN 2017 Course Code : [171025C06] Course Title: Unified Biochemical Pollution and Hydrologic Modelling with Professor Vijay P. Singh, Distinguished Professor, a Regents Professor, and the inaugural holder of the Caroline and William N. Lehrer Distinguished Chair in Water Engineering in the Department of Biological and Agricultural Engineering and Zachry Department of Civil Engineering at Texas A&M University & Dr. CH.Madhusudana Rao, CE, NIT Jamshedpur April 9–14, 2018