

Detailed Bio-data of Dr. Manas Kanti Deb

1. Residential address: 'Bela Villa', Kargil Chowk, Sector-3, Shivanand Nagar, P.O. Khamtarai, Raipur 492 009, C.G., India University, Raipur, India.
2. Educational qualification: M.Sc. (Chemistry) 1987, Pt. Ravishankar Shukla University, Raipur, India; Ph.D. (Chemistry) 1991, Pt. Ravishankar Shukla University, Raipur, India. Topic of Ph.D. Thesis 'Analytical Chemistry of Some Toxic Metals'
9. Current position: Professor, School of Studies in Chemistry
10. Employer's name: Registrar, Pt. Ravishankar Shukla University, Raipur- 492 010, Chhattisgarh, India.
11. Teaching experience: 22 Years Postgraduate (M.Sc.) teaching
12. Research experience: 28 Years
13. Research Guidance:
 - 09 students awarded Ph.D. degree
 - 04 students registered for Ph.D. degree
 - 08 students guided for M. Phil. Degree
 - 01 Ph.D. student (Dr. Santosh Kumar) awarded with Marie-Curie iLEAP fellowship 2008 to attend international workshop on 'Air-Quality', Helsinki, Finland, March 2008.
 - 02 Years' Post doc fellowship in Sapporo Univ. Japan with Prof. Kawamura 2012 (Dr. Santosh Verma & Dr. Dhananjay Deshmukh)
 - 01 Ph.D. student (Dr. Shilpa Sharma) awarded with State Young Scientist Award, 2007, Bilaspur, C.G.
 - 01 Ph.D. student (Dr. Devsharan Verma) awarded with European Science Foundation Fellowship to attend international conference on 'Nanocarbon', Naples, Italy, September, 2009.
 - 01 M.Phil. student (Ms. Mousami Jangde) awarded with Rajiv Gandhi National Fellowship, 2008.
 - 01 Ph.D. student (Mr. Dhananjay Deshmukh) awarded with fellowship to attend international aerosol conference (IAC 2010), Helsinki, Finland, Aug 29 to Sept 3, 2010; JSPS Postdoctoral Fellow Aug 2014-July 2016, ILTS Sapporo Japan
 - 01 Ph.D. student (Ms. Jolly Pal) awarded with state Young Scientist award, 2011 & best poster award in 4th International Congress of Environ Res SVNIT Surat, 2011 .
14. Research papers published in National/ International Journals: : ~ 100
15. Papers presented/ abstracted in National/ International Conferences: : more than 70
16. Scientific manuscripts reviewed : More than 80 (J. AOAC Intern., Talanta, J. Environ. Res., JICS, J. Hazardous Materials, ACS journals, Analytical Letters, AAQR, Journal of Environmental Management, Ind J Radio Space Physics, J. Atmos Chem, J Open Amos Res, Atmos. Env., EMAS, Crystal Growth, IJEAC, etc.), Meteorology & Atmospheric Physics, Sci Total Environ, Atmos Res, Spectrochimica Acta Part

- A: Molecular and Biomolecular Spectroscopy, Journal of Environmental Management, International Journal of Physical Sciences, IJEAC, J. Hazardous Materials,
13. Post doctoral studies: Research Associate, Council of Scientific & Industrial Research (CSIR), New Delhi, 2 Years [1991-1993]
14. Awards: Young Scientist Award, MP Council of Science & Technology, Govt. of M.P., Bhopal, India, 1991.
Esteemed by M.P. Council of Science, adjudged best research work, Bhopal, 1992
15. Fellowships:
- Indian National Science Academy (INSA)-Japan Society for the Promotion of Science (JSPS) Fellowship under bilateral exchange program, 1999 (3 months)
 - Indian National Science Academy (INSA)-Royal Society London Fellowship under interacademic exchange program, 2007-2008 (3 months) Nominated
16. Membership of Scientific Organization
- a. Ex-Member, European Geosciences Union, Austria
 - b. Life Member, Indian Chemical Society, Kolkata
 - c. Life Member, Indian Science Congress Association, Kolkata
17. Editorship
1. Member, Editorial Board, The J. Open Atmos. Res., USA
 2. Managing Editor, RS University Journal, India
18. Countries visited: Japan (1999), Japan (2003), Thailand (2003), Austria (2008)
19. Projects handled/ongoing*:
- 07 (Madhya Pradesh Council of Science & Technology (MPCOST, 1994-96), Bhopal, India; University Grants Commission (UGC, 1996), New Delhi; Chhattisgarh Council of Science & Technology (CCOST, 2000-01; 2016-18)*, Raipur, India; Indian Space Research Organization (ISRO, 2004-07), Bangalore, India), University Grants Commission (UGC, 2008-09); Department of Science & Technology New Delhi (DST, 2010-2013); Science & Engineering Research Board, Department of Science & Technology New Delhi (SERB, DST, 2013-2016)*.
21. Scientific collaborations:
1. Public Health and Research Institute of Kobe City, Kobe-shi, Hyogo 650-0046, Japan
 2. Department of Environmental Engineering and Science, Chia Nan University of Pharmacy and Science, Tainan 717, Taiwan
 3. Department of Low Temperature Atmosphere, Hokkaido University, Japan
 4. National Metallurgical Laboratory, Jamshedpur, India
22. Administrative Activities
- Ex-Member of University Board of Studies, Member Board of Studies of Govt. College Raigarh (C.G.), Worked as Superintendent of University Examination (01)/ Asstt. Supdt. of University Examinations (11) / Central Valuation (03)/ CSIR NET exam (06)/ Asstt. Superintendent (01) State PSC exam/, Member Governing Bodies of various Colleges affiliated to Pt. R.S. University, Member of University Flying Squad(04), Member Anti Ragging Committee, University Observer Annual Examination, Member College Inspection Committee, Subject expert CGVYAPAM, Resource Person UGC Refresher Course, Resource Person UGC's remedial courses in Colleges, Member UGC XI Plan Proposal Committee, Member NAAC Proposal Committee, In-charge Grants Cell, Co-ordinator P.G. Valuation

Unit, Centre Supdt IGNOU 2011, Co-ordinator Distribution Centre: University Examination 2012, Co-ordinator of sub-committee: NCNR Workshop Sept 2012. Asstt. Co-ordinator Valuation Suppl. Exam. 2012, Advisor Selection Committee SSC 2011; 2012, Expert Member Selection Committee IGKV 2012, Subject Expert Selection Committee Bilaspur University 2013, 2014; Subject Expert SSC Raipur 2015; Subject Expert MPPSC 2015; Subject Expert Selection Committee Affiliated College of PRSU; Subject Expert PRS Univ affiliated colleges for appointment of Asstt Prof & Principals, Selection committee member CSVTU, Bhilai June 2015, Mentoring to students at PG level and students of CBS PRSU 2015., Dy. Coordinator UGC-SAP (Level-II) 2015-2020; Member, Student Union Election Committee PRSU, 2015; Member East-zone Youth Festival 2015-16; Member POC 2015; Member, Internal Quality Audit- IQAC PRSU 2015, Steering Committee Member of PRSU, NAAC 2016, Kalyani University, West Bengal (02); Burdwan University, West Bengal (01); Rani Durgawati Vishwavidyalaya, Jabalpur (03), Amravati University, Maharashtra (04); Nagpur University, Maharashtra (02); Rewa University, Rewa, M.P. (02); CV Raman University, Bilaspur, C.G. (01)

23. Ph.D. thesis evaluation

24. Conference/ Workshop organized

1. Chemistry Teachers Training Program, ©RSC & PRSU October 6-8, 2015, Organizing Secretary;
2. XVII NATCOSEB © ISSST 4-6 Nov 2015, Organizing Secretary.

List of Publications (Year wise: As on May 02, 2016)

(A) Papers Published in International/National Journals

2015-16		
101.	Cloud point extraction and diffuse reflectance-Fourier transform infrared spectroscopic determination of chromium(VI): a probe to adulteration in food stuffs (Swapnil Tiwari, Manas Kanti Deb*, Bhupendra K. Sen)	Journal of Food Measurement and Characterization, © Springer Submitted
100.	Analytical Approach on Surface Active Agents in the Environment and Related Problems and Challenges: A Review (Ramsingh Kurre, Manas Kanti Deb*, Jayant Nirmalkar, Bhupendra Sen, Swapnil Tiwari, Swati Chandrawanshi)	J. Surfactants & Detergents © Springer, Submitted JSD-16-0153 26-04-2016
99.	PM2.5 pollution in households involved with solid fuel burning practices: Application of receptor models for source apportionment (Jeevan Lal Matawle, Shamsh Pervez, Manas Kanti Deb, Anjali Shrivastava, Suresh Tiwari, Pallavi Pant)	Environ. Geochem. Health © Springer, Submitted EGAH-D-16-00108 31-03-2016
98.	Sources and formation processes of water-soluble dicarboxylic acids, ω-oxocarboxylic acids, α-dicarbonyls, and major ions in summer aerosols from eastern central India (Dhananjay K. Deshmukh, Kimitaka Kawamura*, Manas K. Deb, and Suresh Kumar Reddy Boreddy)	Journal of Geophysical Res. © AGU, submitted MS# 2016JD024792 Revised
97.	Indoor PM2.5 emissions and associated health risks from household solid fuel burning practices (Jeevan Matawle, Shamsh Pervez, Anjali Shrivastava, Suresh Tiwari, Pallavi Pant, Manas K Deb, Diwan S Bisht)	Urban Climate, © Elsevier, submitted 24-12-2015
96.	Characterization of PM _{2.5} Source Profiles for Traffic and Dust Sources in Raipur, India (Jeevan Matawle, S. Pervez, Shippi Dewangan, Anjali Shrivastava, Pallavi Pant, Suresh Tiwari, Manas K Deb, Yasmin Pervez)	Aerosol Air Qual. Res., © TAAR, AAQR-15-04-OA-0222.R2 (Accepted: 14 Sept 2015) IF: 2.094
95.	Seasonal size distribution and possible health implications of atmospheric aerosols collected from a rural site of eastern central, India (Jayant Nirmalkar, Manas Kanti Deb*, Swati Chandrawanshi, Swapnil Tiwari, Dhananjay Deshmukh)	Atmos. Poll. Res. March 2016, (2), 278–287 IF: 1.371
94.	Nanogram level quantification of molybdenum(VI) by novel hyphenated SDME/DRS-FTIR in human biological fluid (Bhupendra K. Sen, Swapnil Tiwari, Manas Kanti Deb*, Shamsh Pervez)	Anal. Methods, ©Royal Society of Chemistry, 2015, 7, 9474-9481 IF 1.821
93.	Microwave-assisted synthesis of palladium nanoparticles and its catalytic degradation of organic dyes in aqueous solution (Jolly Pal, Manas K Deb*)	Journal of Water Chemistry and Technology, © Springer (Accepted), 2015; MS # 1124
92.	Impact of intense field burning episode on aerosol mass loading and its possible health implications in rural area of eastern central India (Jayant Nirmalkar, Manas K. Deb*)	Air Qual. Atmos. Health, © Springer, DOI 10.1007/s11869-015-0330-y, Feb 2015: IF 1.801
91.	Arabitol and mannitol as tracers for fungal contribution to size-differentiated particulate matter of rural atmospheric aerosols	Intern. J Environ. Sci. Dev., © IACSIT Press, 6(6), June 2015,

	(Jayant Nirmalkar, M.K. Deb*, Y.I. Tsai, D.K. Deshmukh)	460-463
90.	Mass loading and temporal variation of molecular markers in PM _{2.5} aerosols over a rural area in eastern central India (Jayant Nirmalkar, Manas K Deb*, Dhananjay K. Deshmukh, Ying I Tsai*, Khajornsak Sopajaree)	Atmospheric Environment, © Elsevier, 2015, 117 , 41-50 IF 3.281
2014		
89.	Catalytic diazotization using silver and gold nanoparticles and spectrophotometric determination of parathion residues in fruit and soil (S Sharma, M.K. Deb)	J. Indian Chem. Soc., © JICS, 91 (1), 101-105, 2014
88.	Removal of phenol in aqueous solution by adsorption onto green synthesized coinage nanoparticles beads (Jolly Pal, M.K. Deb, Dhananjay Deshmukh)	Res. Chem. Intermediates, © Springer, MSiD RINT-D-14-00577R1. (Accepted- 08 Dec 2014) IF: 1.54
87.	Removal of phenolic compounds from aqueous phase by adsorption onto polymer supported iron nanoparticles (Bhupendra K Sen, Dhananjay K Deshmukh*, Manas K Deb, Devsharan Verma, Jolly Pal)	Bulletin of Environ. Cont. Toxic., © Springer, MS BECT7058.R1 (Accepted), 2014, IF: 1.26
86.	Molecular markers in ambient aerosol in the Mahanadi Riverside Basin of eastern central India during winter (Jayant Nirmalkar, Manas Kanti Deb, Dhananjay Deshmukh, Y.I. Tsai*, Santosh Kumar Verma)	Environmental Science and Pollution Research © Springer 22 (2015), 1220-1231, IF 2.83
2013		
85.	Green synthesis of Au/AgNPs and their photodegradation of organic dyes in aqueous solution (Jolly Pal, Manas Kanti Deb, J.K. Sircar)	JICS © <i>Ind Chem Soc</i> , 90 (2013 Nov), 2115-2120
84.	Efficient adsorption of congo red dye from aqueous solution using green synthesized coinage nanoparticles coated activated carbon beads (Jolly Pal and Manas Kanti Deb*)	Applied Nanoscience © <i>Springer</i> ANSC-D-13-00100 (2013) Accepted October 19, 2013 DOI: 10.1007/s13204-013-0277-y
83.	Microwave green synthesis of biopolymer stabilized silver nanoparticles and their adsorption behavior for atrazine (Jolly Pal and Manas Kanti Deb*, J.K. Sircar, P.K. Agnihotri)	Applied Water Sci. © <i>Springer</i> , AWSC-D-13-00064 (2013) Accepted March 10, 2014 DOI: 10.1007/s13201-014-0179-5
82.	Seasonal Air Quality Profile of Size-Segregated Aerosols in the Ambient Air of Central India Region (Dhananjay K Deshmukh*, Manas K Deb, D Verma, J Nirmalkar)	Bulletin of Environmental Contamination and Toxicology © <i>Springer</i> (2013) 91, 704-710 September 2013 (DOI: 10.1007/s00128-013-1121-5) IF: 1.26
81.	Microwave-assisted synthesis of silver nanoparticles using benzo-18-crown-6 as reducing and stabilizing agent (Jolly Pal and Manas Kanti Deb*)	Applied Nanoscience © <i>Springer</i> , ANSC-D-13-00057R1 (2013) Accepted 28 April 2013 DOI: 10.1007/s13204-013-0229-6
80.	Removal of methyl orange by activated carbon modified by silver nanoparticles (Jolly Pal and Manas Kanti Deb*, Dhananjay Kumar Deshmukh, Devsharan Verma)	Applied Water Sci. © <i>Springer</i> , AWSC-D-12-00077R2 (2012) Accepted 28 January 2013 DOI: 10.1007/s13201-013-0087-0
2012		

79.	Mass Loading of Size-Segregated Atmospheric Aerosols in the Ambient Air During Fireworks Episodes in Eastern Central India (Jayant Nirmalkar, Manas K. Deb*, Dhananjay K. Deshmukh and Santosh K. Verma)	Bulletin of Environmental Contamination and Toxicology © Springer (2013) 90, 434-439 IF: 1.26
78.	Microwave-assisted synthesis of platinum nanoparticles and their catalytic degradation of methyl violet in aqueous solution (Jolly Pal and M.K. Deb*)	Applied Nanoscience, ©Springer, Ms. No. ANSC-D-12-00099 (2012) In Press DOI: 10.1007/s13204-012-0170-0
77.	Microwave synthesis of biopolymer stabilized silver nanoparticles and their adsorption behavior for atrazine (Jolly Pal and M.K. Deb*)	J. Experim. Nanosci., © Taylor & Francis, MS TJEN-2012-0277 (2012), Under review Impact Factor: 0.875
76.	Efficient sorption of basic organic dyes from aqueous solution using green synthesized silver nanoparticles beads (Jolly Pal and M.K. Deb*)	J. Dispersion Sci. Tech., © Taylor & Francis, (2013), 34(9) 1193-1201 Impact Factor: 0.795
75.	Green formation and catalytic activity of palladium nanoparticles on brilliant green in aqueous solution (Jolly Pal and Manas Kanti Deb*)	Ind. J. Env. Prot. © Kalpana Corp. Varanasi, 32 (7) (2012) 574-578.
74.	Removal of phenolic compounds by adsorption on to green synthesized silver and gold nanoparticle beads (Jolly Pal, M.K. Deb* and D. Verma)	J. Chinese Chem. Soc. (2012) JCCS-201200234 Under review
73.	Measurement of size-segregated aerosol concentration and seasonal variation in the ambient air of Durg city, India (Dhananjay K. Deshmukh, Manas K. Deb*, Jayant K. Sircar and Pradeep K. Agnihotri)	Stochastic Environ. Res. & Risk Assess. © Springer (2012) Revised
72.	Aerosol Size Distribution and Seasonal Variation in an Urban Area of an Industrial City in Central India (Dhananjay K. Deshmukh, Manas K. Deb*, Devsharan Verma and Santosh K. Verma, J. Nirmalkar)	Bulletin of Environmental Contamination and Toxicology © Springer (2012) 89, 1098-1104 IF: 1.26
71.	Characteristics and Sources of Water-Soluble Ionic Species Associated with PM ₁₀ Particles in the Ambient Air of Central India (Dhananjay K. Deshmukh, Ying I. Tsai, Manas K. Deb, Pavlos Zarmas)	Bull Environ Contam Toxicol © Springer (2012) DOI 10.1007/s00128-012-0806-5 IF: 1.26
70.	Seasonal characteristics of water soluble dicarboxylates associated with PM ₁₀ in the urban atmosphere of Durg city, India (Dhananjay K. Deshmukh, Manas K. Deb, Philip K. Hopke and Ying I. Tsai*)	Aerosol Air Qual. Res., © TAAR, 12 (2012) 683-696 IF: 2.872
69.	Characteristics of dicarboxylates associated with inorganic ions in urban PM ₁₀ aerosols in the eastern central India (Dhananjay K. Deshmukh, Manas K. Deb*, Ying I. Tsai and Stelyus L. Mkoma)	Aerosol and Air Quality Research © Taiwan Association of Aerosol Research 12 (2012) 592-607 IF: 2.872
68.	Effective removal of brilliant green dye from aqueous solution by	Journal of Indian Chemical

	adsorption onto biopolymer supported silver nanoparticles beads (Jolly Pal and Manas Kanti Deb*)	Society © Indian Chemical Society Dec. (2012) In press Manuscript ID: 293/2011
67.	Microwave synthesis of polymer coated silver nanoparticles by glucose as reducing agent (Jolly Pal and Manas Kanti Deb*)	Indian Journal of Chemistry: Section A 51 (2012) 821-824
66.	Assessment of Ambient Air quality through the Air Quality Index and Exceedance Factor for the City of Durg, Chhattisgarh (Dhananjay K. Deshmukh, M.K. Deb, D. Verma and S.K. Verma)	Recent Trends in Chemistry, Sikkim Manipal University, Sikkim INDIA: (2012) 44–50
65.	Aerosol Chemical Characterization during Southwest Monsoon Period Over the Ambient Air of Durg City, India (Dhananjay K. Deshmukh and M.K. Deb)	Opportunities and Challenges in Monsoon Prediction in a Changing Climate 2012 (OCHAMP 2012), Indian Institute of Tropical Meteorology, Pune INDIA MS ID OC-00010
64.	Size distribution and seasonal variation of size-segregated particulate matter in the ambient air of Raipur city, India (Dhananjay K. Deshmukh, Manas K. Deb* and Stelyus L. Mkoma)	Air Quality, Atmosphere and Health © Springer (2012) DOI: 10.1007/s11869-011-0169-9 Impact Factor: 1.979
63.	Microwave green synthesis of PVP stabilized gold nanoparticles and their adsorption behavior for methyl orange (Jolly Pal, Manas Kanti Deb*)	J. Experim. Nanosci., © Taylor & Francis, 1 (2012) 1-12 TJEN-2011-0077.R2 (In Press) Online DOI: doi.org/10.1080/17458080.2012.667160 Impact Factor: 1.011
2011		
62.	Water-soluble ionic composition of PM _{2.5-10} and PM _{2.5} aerosols in the lower troposphere of an industrial city Raipur, the eastern central India. (Dhananjay K. Deshmukh, Manas K. Deb*, Yukio Suzuki, Giorgos N. Kouvarakis)	Air Qual. Atmos. Health, ©Springer, (2011) DOI 10.1007/s11869-011-0149-0 Impact Factor: 1.979
61.	Determination of vanadium employing a new combined single drop micro-extraction and diffuse reflectance Fourier transform infrared spectroscopy technique. (Devsharan Verma, M.K. Deb*)	Intern. J. Environ. Anal. Chem., © Taylor & Francis, 92 (2011) 57-75, Impact Factor: 1.162
60.	Water soluble ions in PM _{2.5} and PM ₁ aerosols in Durg city, Chhattisgarh, India (Dhananjay Deshmukh, Manas Kanti Deb*, Y.I. Tsai, Stelyus Mkoma)	Aerosol Air Qual. Res., © TAAR, 11 (2011) pp. 696-708 Impact Factor: 2.872
59.	Characteristics of Aerosols over Suburban Site of Eastern Central Region in India (S.K. Verma, D.K. Deshmukh, M.K. Deb*)	Adv. Environ Chem. (2011), ©Excel India Publishers, Delhi, Proceed., AEC-033, Aizawal, 51-54.
58.	Atmospheric Particulate Pollutants and Their Relationship with Meteorology in Urban Area of Raipur, India (Dhananjay Deshmukh, Manas Kanti Deb*)	Adv. Environ Chem. (2011), ©Excel India Publishers, Delhi, Proceed., AEC-045, Aizawal, 59-

		64.
57.	The Study of Ambient Coarse and Fine Aerosols at Suburban Location in Chhattisgarh State (D. Verma, D.K. Deshmukh, S.K. Verma, M.K. Deb*)	Adv. Environ Chem. (2011), ©Excel India Publishers, Delhi, Proceed., AEC-031, Aizawal, 208-211.
2010		
56.	Ion chemistry and source identification of coarse and fine aerosols in an urban area of eastern central India (S.K. Verma, M.K. Deb*, Y. Suzuki, T.A. Tsai)	Atmospheric Research @ <i>Elsevier</i> , 95 (2010) pp. 65-76 Impact Factor: 2.421
55.	Atmospheric ionic species in PM _{2.5} and PM ₁ aerosols in the ambient air of eastern central India (Dhananjay K. Deshmukh, Manas Kanti Deb*, Ying I. Tsai, Stelyus L. Mkoma)	J. Atmos. Chem. © <i>Springer</i> , 66 (2010) 81–100 DOI 10.1007/s10874-011-9194-1 Impact Factor: 1.326
54.	Ion-chemistry, seasonal cycle and sources of PM _{2.1-10} and PM _{2.1} aerosols in industrial city Korba (Dhananjay Deshmukh and Manas Kanti Deb*)	IASTA, 19 (1-2) (2010), 590-598
53.	Fourier transform infrared spectroscopic determination of ammonium at sub-microgram level in waters and biological fluids following removal of nitrate from sample matrix by zerovalent iron nanoparticles (M.K. Deb* and Devsharan Verma)	Microchimica Acta, © <i>Springer-Verlag</i> , 169 (2010) pp. 23-31 DOI 10.1007/s00604-010-0308-2 Impact Factor: 3.03
52.	Distribution patterns of coarse, fine and ultrafine atmospheric aerosol particulate matters in major cities of a central state in India (Dhananjay Deshmukh, Santosh Kumar Verma, M.K. Deb*)	Ind. J. Environ. Prot., © <i>Scientific Publisher</i> , 27 (3) (2010) pp 184-197
51.	Quantitative analysis of inorganic ions in soil employing diffuse reflectance Fourier transform infrared spectroscopy (DRS-FTIR) (Manas K. Deb*, Devsharan Verma, Santosh K. Verma, Ninad Bodhankar, Jayant K. Sircar)	J. Ind. Chem. Soc., © <i>Ind Chem Soc</i> , 87 (2010) pp. 1317-1327 Impact Factor: 0.34
2009		
50.	Single Drop Micro-Extraction and Diffuse Reflectance Fourier Transform Infrared Spectroscopic Determination of Chromium in Biological Fluids (Devsharan Verma, Manas Kanti Deb*, Santosh Kumar Verma)	Talanta, © <i>Elsevier</i> , 78 (1), 270-277 April (2009), doi:10.1016/j.talanta.2008.11.020 Available online 25 Nov. 2008; Impact Factor: 3.374
2008		
49.	A simple Diffuse reflectance Fourier transform infrared spectroscopic determination of nitrogen dioxide (NO ₂) in ambient air (Santosh Kumar Verma, Devsharan Verma, Manas Kanti Deb*)	Atmospheric Research, © <i>Elsevier</i> , 90 , pp. 33-40 (2008) DOI:10.1016/j.atmosres.2008.03.022 Impact Factor: 2.065
48.	Preparation of Silver Nanoparticles by Microwave Irradiation. (Shilpa Sharma, Manisha Thakur, Manas Kanti Deb*)	Current Nanoscience, © <i>Bentham Publication</i> , 4 , 138-140 (2008) Impact Factor: 2.793

2007		
47.	Synthesis of silver nanoparticles using <i>N</i> ¹ , <i>N</i> ² -diphenylbenzamidine by microwave irradiation method (Shilpa Sharma, Manas Kanti Deb* and Manisha Thakur)	J. Experimental Nanoscience, ©Taylor & Francis, 2 (4), 251–256 (2007); DOI:10.1080/17458080701753744 Impact Factor: 1.011
46.	A single drop and nanogram level determination of sulfite (SO ₃ ²⁻) in alcoholic and non-alcoholic beverage samples based on diffused reflectance Fourier transform infrared spectroscopic (DRS-FTIR) analysis on KBr matrix (Santosh K. Verma, Manas Kanti Deb*)	J. Agric. Food Chem., ©American Chem. Soc., 55 , 8319–8324 (2007) Impact Factor: 2.532
45.	Interaction of paraquat with electrochemically synthesized silver nanoparticles (Shilpa Dubey, Manas Kanti Deb*, Manisha Thakur)	J. Ind. Chem. Soc., © Ind Chem Soc 84 , 698-701 (2007) Impact Factor: 0.34
44.	A simple Diffuse reflectance Fourier transform infrared spectroscopic determination of sulphur dioxide (SO ₂) in ambient air using potassium tetrachloromercurate as absorbing reagent (Santosh Kumar Verma, Manas Kanti Deb*, S. Bajpai, Yukio Suzuki, S.K. Sinha and Y. Gong)	J. AOAC Intern., © AOAC Inter USA, 90 (4), 1180-1190 (2007) Impact Factor: 1.046
43.	Determination of nitrite, nitrate and total nitrogen in vegetable samples (Manas Kanti Deb*, Manisha Thakur and Pushpa Khande)	Bull. Chem. Soc. Ethiop., © Chem. Soc. Ethiop., 21 (3), 445-450 (2007).
42.	Dominance of lithogenic effect for nickel, cobalt, chromium and mercury as found in freshly deposited sediments of the river Subernarekha, India (A.K. Upadhyay, K.K. Gupta, J.K. Sircar*, M.K. Deb, G.L. Mundhara)	Environ. Geology ©Springer-Verlag, UK., 51 , 1447-1453 (2007) DOI 10.1007/s00254-006-0441-0 Impact Factor: 0.722
41.	Direct and rapid determination of sulphate in environmental samples with diffuse reflectance Fourier transform infrared spectroscopy using KBr substrate (Santosh Kumar Verma, Manas Kanti Deb*)	Talanta, © Elsevier, UK, 71 , 1546-1552 (2007) Impact Factor: 3.374
40.	Nondestructive and rapid determination of nitrate in soil, dry deposits and aerosol samples using KBr matrix with diffuse reflectance Fourier transform infrared spectroscopy (DRIFTS) (Santosh Kumar Verma, Manas Kanti Deb*)	Anal. Chim. Acta, © Elsevier, 582 , 382-389 (2007) Impact Factor: 4.386
2006		
39.	Heavy metals in freshly deposited sediments of river Subernarekha river, India: an example of lithogenic and anthropogenic effects (A.K. Upadhyay, K.K. Gupta, J.K. Sircar*, M.K. Deb, G.L. Mundhara)	Environ. Geology ©Springer-Verlag, UK., 50 , 397-403 (2006) DOI 10.1007/s00254-006-0218-0 Impact Factor: 1.078
38.	Determination of cadmium(II) with 5-Br-PADAP in the presence of CPC and HPPBA	Indian J. Chem. Sec. A., © CSIR, 45 A , June, 1408-1412 (2006)

	(Ravi Kumar Banjare, Manas Kanti Deb*)	Impact Factor: 0.920
37.	A direct spectrophotometric method for the determination of mercury in environmental and biological samples using p-carboxybenzene-diazoaminobenzene-p-azo benzene. (Ravi Kumar Banjare, Manas Kanti Deb*)	J. Indian Chem. Soc., © <i>Ind Chem Soc</i> , 83 , July, 702-706 (2006) Impact Factor: 0.34
2005		
36.	Spectrophotometric determination of rhodium(III) using 5-Br-PADAP and N-hydroxy-N,N'-diphenylbenzamidine as reagent by extracting it in dichloromethane. (M. Thakur, Manas Kanti Deb* and Pushpa Khande)	J. Indian Chem. Soc., © <i>Ind Chem Soc</i> , 82 , 285-289 (2005) Impact Factor: 0.34
35.	Determination of free and total zinc using 2-[(5-bromo-2-pyridylazo)]-5-diethylaminophenol in mixed surfactant medium (M. Thakur, Ravi Kumar Banjare, Manas Kanti Deb)	<i>Indian J. Chem. Sec. A</i> , © CSIR, 44A , March, 733-736 (2005) Impact Factor: 0.920
2004		
34.	Spectrophotometric determination of nickel(II) using 5-Br-PADAP and N-hydroxy-N,N'-diphenylbenzamidine. (Ravi Kumar Banjare, Manas Kanti Deb* and Manisha Thakur)	J. Indian Chem. Soc., © <i>Ind Chem Soc</i> , 81 , Aug., 709-711 (2004) Impact Factor: 0.34
33.	Load of some trace metals in the airborne dust particulates of an urban city of central India. (M. Thakur, Manas Kanti Deb*, S. Imai, Y. Suzuki, K. Ueki and A. Hasegawa)	J. Environ. Monit. & Assess., © <i>Springer</i> , 95 , 257-268 (2004) Impact Factor: 1.436
2002		
32.	Assessment of atmospheric arsenic level in airborne dust particulates of an urban city of central India. (M. Thakur, Manas Kanti Deb*, R.K. Mishra and N. Bodhankar)	J. Water, Air & Soil Poll., © <i>Springer</i> , 140 (1-4), Sept., 57-71 (2002) Impact Factor: 1.765
31.	Extraction-spectrophotometric determination of rhenium(VII) in ores with thiocyanate and N,N'-diphenylbenzamidine in the presence of cetyltrimethylammonium bromide. (Manas Kanti Deb*, M. Shrivastava)	J. Indian Chem. Soc., © <i>Ind Chem Soc</i> , 79 , April, 388-389 (2002) Impact Factor: 0.34
2001		
30.	Assessment of physico-chemical properties of airborne dust particulates in an urban city (M. Thakur, Manas Kanti Deb*)	<i>Indian J. Environ. Hlth.</i> , © <i>NEERI</i> 21 , 225-237 (2001)
2000		
29.	Lead levels in the airborne dust particulates of an urban city of central India. (M. Thakur, Manas Kanti Deb*)	J. Environ. Monitor. & Assess., © <i>Springer</i> , 62 , 305-316 (2000) Impact Factor: 1.436
1999		
28.	The use of 1-[pyridyl-(2)-azo]-naphthol-(2) in the presence of TX-100 and N,N'-diphenylbenzamidine for the spectrophotometric determination of copper in real samples.	<i>Talanta</i> , © <i>Elsevier</i> , 49 , 561-569 (1999) Impact Factor: 3.722

	(M. Thakur, Manas Kanti Deb*)	
27.	Spectrophotometric determination of lead with N-hydroxy-N,N'-diphenylbenzamidine and diphenylcarbazone in airborne dust particulates and soil. (M. Thakur, Manas Kanti Deb*)	The Analyst, © RSC, 124 , 1331-1335 (1999) Impact Factor 3.913 Immediacy index 1.032 – highest of any general analytical chemistry journal
26.	Field detection and sensitive determination of copper in soil and airborne dust particulates with 1-[pyridyl-(2)-azo]-naphthol-(2), N-Phenyl-N'-(4-methyl-phenyl)-benzamidine and triton X-100. (M. Thakur, Manas Kanti Deb*)	J. AOAC Intern., USA 82(3) , 738-746 (1999) Impact Factor 1.046
25.	Spectrophotometric determination of arsenic, antimony, and bismuth with iodide and TX-100 in tank and industrial waste waters. (S. Roy, Manas Kanti Deb* and K.K. Ghosh)	Indian J. Environ. Hlth., 19(11) , 822-827 (1999)
24.	Chemical speciation and determination of antimony with N,N'-diphenylbenzamidine and brilliant green in an acidic non-ionic micellar media. (Manas Kanti Deb*, P.K. Agnihotri, M. Thakur and R.K. Mishra)	J. Indian Chem. Soc., © Ind Chem Soc, 76 , March, 145-147 (1999) Impact Factor: 0.34
1998		
23.	Yellowish fog precipitation in the central India. (K.S. Patel, A.N. Tripathi, C.K. Chandrawanshi, S.G. Aggarwal, R.M. Patel, Manas Kanti Deb, P.K. Agnihotri and V.K. Patel)	Proceedings, First Intern. Conference on Fog & Fog Collection, Vancouver, Canada, July 19-24, p. 309-312 (1998).
22.	Sensitive determination of zinc with N-hydroxy-N,N'-diphenylbenzamidine and diphenylcarbazone in airborne dust particulates. (M. Thakur, Manas Kanti Deb* and R.K. Mishra)	Chemia Analityczna, Poland 45(5) , 843-850 (1998) Impact Factor: 0.566
21.	Fractionation and spectrophotometric determination of thallium with N,N'-diphenylbenzamidine, brilliant green and cetylpyridinium chloride. (Manas Kanti Deb*, P.K. Agnihotri, M. Thakur and R.K. Mishra)	Chem. Spec. & Bioavail., Australia 10(2) , 53-60 (1998) Impact Factor: 1.022
20.	Spectrophotometric determination rhenium(IV) with thiocyanate, TX-100 and N,N'-diphenylbenzamidine. (P.K. Agnihotri, M. Thakur, Manas Kanti Deb* and R.K. Mishra)	J. Chinese Chem. Soc., 45(3) , 401-406 (1998) Impact Factor: 0.819
1997		
19.	Spectrophotometric determination of bismuth with iodide and TX-100 in tank and industrial waste water (P.K. Agnihotri, Manas Kanti Deb* and R.K. Mishra)	Chem. Environ. Res., 6(3&4) , 217-219 (1997)
18.	Spectrophotometric determination of 11ehavior11 with thorin and N-hydroxy-N,N'-diphenylbenzamidine. (N. Nashine, Manas Kanti Deb* and R.K. Mishra)	J. Indian Chem. Soc., © Ind Chem Soc, 74 , February, 167 (1997) Impact Factor: 0.34
1996		

17.	Determination of mercury(II) concentration level in environmental samples. (N. Nashine, Manas Kanti Deb and R.K. Mishra)	<i>Annali Di Chimica</i> , © Wiley Intersci., Italy 86 , 381-391 (1996) Impact Factor: 0.689
16.	Spectrophotometric determination of vanadium(V) as complex with PBHA in the non-ionic micellar media. (S. Sar, Manas Kanti Deb* and K.K. Ghosh)	<i>J. Indian Chem. Soc.</i> , 74 , August, 662 (1996) Impact Factor: 0.34
15.	Spectrophotometric determination of thorium in standard samples and monazite sands based on floated complex of thorium with N-hydroxy-N,N'-diphenylbenzamidine and thiorin. (N. Nashine, Manas Kanti Deb and R.K. Mishra)	<i>Fresenius' J. Anal. Chem.</i> , © Springer (Currently Analytical & Bioanalytical Chem) 355 , 34-40 (1996) Impact Factor 3.578
14.	Spectrophotometric determination of zinc dimethyl dithiocarbamate (ziram) with hydroxyamidine and 4-(2-pyridylazo)-naphthol. (S. Chakravarty, Manas Kanti Deb and R.K. Mishra)	<i>J. Indian Chem. Soc.</i> , © <i>Ind Chem Soc</i> , 73 , 551-552 (1996) Impact Factor: 0.34
1994		
13.	Spectrophotometric determination of malathion in plants and vegetables. (Manas Kanti Deb, R.K. Mishra)	<i>Poll. Res.</i> , 13 (1), 63-67 (1994)
12.	Simple spectrophotometric determination of phenol in industrial waste waters. (S. Chakravarty, Manas Kanti Deb and R.K. Mishra)	<i>Asian J. Chem.</i> , 6 (4), 766-770 (1994) Impact Factor: 0.153
1993		
11.	Spectrophotometric determination of some organophosphorus pesticides in environmental samples. (S. Chakravarty, Manas Kanti Deb and R.K. Mishra)	<i>Chem. Environ. Res.</i> , 1 (3), 341-344 (1993)
10.	Determination of tin in environmental samples. (S. Chakravarty, Manas Kanti Deb and R.K. Mishra)	<i>Chem. Environ. Res.</i> , 2 (3&4), 309-315 (1993)
09.	Hydroxyamidines as new extracting reagent for spectrophotometric determination of cadmium with 4-(2-pyridylazo)-naphthol in industrial effluents, coal and fly ash. (S. Chakravarty, Manas Kanti Deb and R.K. Mishra)	<i>J. Assoc. Offic. Anal. Chem.</i> , USA 76 , 604-607 (1993) Impact Factor 1.046
08.	Extractive spectrophotometric determination of arsenic at trace level in environmental samples. (S. Chakravarty, Manas Kanti Deb and R.K. Mishra)	<i>Chem. Environ. Res.</i> , 2 (1&2), 109-113 (1993)
1992		
07.	Spectrophotometric determination of osmium at the ppb level using pyrocatechol and hydroxyamidine. (Manas Kanti Deb, R.K. Mishra)	<i>Intern. J. Environ. Anal. Chem.</i> , UK© <i>Taylor & Francis</i> 48 (3), 151-156 (1992) Impact Factor 1.026
1991		

06.	Extraction of vanadium(V) with hydroxyamidine in the presence of adductants and its spectrophotometric determination with diphenylcarbazide. (Manas Kanti Deb, K.S. Patel and R.K. Mishra)	<i>Intern. J. Environ. Anal. Chem.</i> , UK © Taylor & Francis 43 , 209-217 (1991) Impact Factor 1.026
05.	Extraction-spectrophotometric determination of bismuth(III) using iodide and amidines: application to soil and ore samples. Manas Kanti Deb, R.K. Mishra)	<i>J. Indian Chem. Soc.</i> , © Ind Chem Soc, 68 , 181 (1991) Impact Factor: 0.34
04.	Sensitive spectrophotometric determination of osmium with pyrocatechol and hydroxyamidine. (Manas Kanti Deb, N. Mishra, K.S. Patel and R.K. Mishra)	<i>The Analyst</i> , UK 116 , 323-325 (1991) Impact Factor 3.761 Immediacy index 1.032 – highest of any general analytical chemistry journal
1990		
03.	Sensitive spectrophotometric determination of vanadium in environmental samples at ppb level. (C. Agarwal, Manas Kanti Deb and R.K. Mishra)	<i>Anal. Lett.</i> , USA 23 (11), 2063-2075 (1990) Impact Factor 1.362
02.	Spectrophotometric determination of chromium (VI) as azo dye in environmental samples. (Manas Kanti Deb, K.S. Patel and R.K. Mishra)	<i>Asian Environ.</i> , 12 (1), 51-59 (1990) Impact Factor 0.452
01.	Extraction-spectrophotometric determination of arsenic in environmental samples with iodide and amidine. (Manas Kanti Deb, C. Agarwal, K.S. Patel and R.K. Mishra)	<i>Intern. J. Environ. Anal. Chem.</i> , UK © Taylor & Francis 39 , 417-419 (1990) Impact Factor 1.886

B) Papers Presented* (Self/Research Students) /Abstracted in Conferences

1*.	Selective extraction and spectrophotometric determination of bismuth employing iodide and some amidines. (Manas Kanti Deb, R.K. Mishra)	25 th Annual Convention of Chemists, Calcutta, 1988, Anal. 2.15
2*.	Spectrophotometric determination of phosphorus using amidine as extractant in various environmental samples. (A.R. Chakraborty, Manas Kanti Deb and R.K. Mishra)	26 th Annual Convention of Chemists, Bodh Gaya, 1989 Anal. 2.17
3.	Hydroxyamidines as sensitive reagent in the presence of p-nitrophenol for spectrophotometric determination of vanadium(V). (Manas Kanti Deb, R.K. Mishra)	Proc. 77 th Indian Science Congress Assoc., Madurai, 1989, Abstr. No. 5.
4*.	Simultaneous spectrophotometric determination of vanadium and iron with hydroxyamidine in ferrovanadium. (A. Ghosh, Manas Kanti Deb and R.K. Mishra)	Proc. 78 th Indian Science Congress Assoc., Indore, 1990, Abstr. No. 4.
5*.	Spectrophotometric determination of Pd(II) with imidoylthiourea. (Manas Kanti Deb)	National Science Day, Pt. R.S. University, Raipur, 28 th Feb. 1988.
6.	Sensitive spectrophotometric determination of vanadium(V) in environmental samples. (C. Agarwal, K.S. Patel, Manas Kanti Deb and R.K. Mishra)	41 st Pittsburgh Conference on Analytical and Applied Spectroscopy, New York, 1990, Abstr. No. 181.
7.	Determination of toxic elements in Indian sea waters. (C. Agarwal, Manas Kanti Deb, K.S. Patel and R.K. Mishra)	International IUPAC Conf., Sweden, 1989.
8*.	Extraction-spectrophotometric determination of arsenic with iodide and amidine in environmental samples. (Manas Kanti Deb)	National Science Day, Pt. R.S. University, Raipur, 28 th Feb. 1990.
9*.	Sensitive spectrophotometric determination of osmium at ppb level employing pyrocatechol and hydroxyamidine. (Manas Kanti Deb)	6 th M.P. Young Scientists Congress, Raipur, 1991
10.	Spectrophotometric determination of malathion in plants and vegetables. (Manas Kanti Deb, R.K. Mishra)	2 nd Princess Chulabhorn Science Congress, Bangkok, Thailand, 1992.
11.	Floated complex of thorin with N-hydroxy-N,N'-diphenylbenzamidine and thorin; spectrophotometric determination of thorium in standard ore and monazite sand. (N. Nashine, Manas Kanti Deb and R.K. Mishra)	31 st Annual Convention of Chemists, Banaras, 1994, Abstr. No. 120.
12*.	Spectrophotometric determination of zirconium with thorin and N-hydroxy-N,N'-diphenylbenzamidine. (N. Nashine, Manas Kanti Deb and R.K. Mishra)	83 rd Indian Science Congress Assoc., Calcutta, 1995, Abst. No. 120.
13.	Spectrophotometric determination of vanadium(V) with N-phenylbenzohydroxamic acid in presence of a non-ionic surfactant TX-100. (S. Sar, Manas Kanti Deb and K.K. Ghosh)	Indian Council of Chemists, Jammu, 1994, Abstr. No. AO-3.5.
14.	Speciation and spectrophotometric determination of antimony with amidine and crystal violet in a cationic supramolecular media.	33 rd Annual Convention of Chemists, Coimbatore, 1996.

	(P.K. Agnihotri, Manas Kanti Deb and R.K. Mishra)	
15.	Speciation and spectrophotometric determination of thallium with amidine and brilliant green in a cationic supramolecular media. (Manas Kanti Deb and R.K. Mishra)	15 th Indian Council of Chemists, Aurangabad, 1996.
16.	Spectrophotometric determination of antimony with amidine and brilliant green in presence of a cationic supramolecule. (Manas Kanti Deb and R.K. Mishra)	85 th Indian Science Congress Assoc., New Delhi, 1997.
17.	Spectrophotometric determination of mercury in waters. (Manas Kanti Deb and R.K. Mishra)	Gulf Coast Conference, Houston (Texas), USA, 1996.
18.	Sensitive determination of copper in airborne dust particulates. (Manisha Thakur, Manas Kanti Deb and R.K. Mishra)	86 th Indian Science Congress Assoc., Hyderabad, 1998
19.	Determination of yttrium with xylenol orange in presence of CTAB and N-hydroxy-N',N'-diphenylbenzamidine. (Manas Kanti Deb and R.K. Mishra)	34 th Annual Convention of Chemists, New Delhi, 1997.
20.	Spectrophotometric determination of arsenic, antimony and bismuth with iodide and TX-100 in tank and industrial waste waters. (S. Roy, M.K. Deb, K.K. Deb)	86 th Indian Science Congress Assoc., Hyderabad, 1998.
21*.	Yellowish fog precipitation in the central India. (K.S. Patel, A.N. Tripathi, C.K. Chandrawanshi S.G. Aggarwal, R.M. Patel, Manas Kanti Deb, P.K. Agnihotri and V.K. Patel)	First International Conference on Fog & Fog Collection, Vancouver, Canada, July, 1998.
22*.	Concentration of lead in the airborne dust particulates of Raipur city, M.P. (Manisha Thakur, Manas Kanti Deb)	87 th Indian Science Congress Assoc., Chennai, January 3-7, 1999
23.	Field detection and sensitive determination of copper with 1-[pyridyl-(2)-azo]-naphthol, N-phenyl-N'-(4-methylphenyl)benzamidine and triton X-100 in soil and airborne dust particulates. (Manisha Thakur, Manas Kanti Deb and R.K. Mishra)	34 th Annual Convention of Chemists, Dharwad, Karnataka, Nov. 4-7, 1998.
24.	Load of heavy metals in the airborne dust particulates of an urban city of central India. (Manisha Thakur, Manas Kanti Deb)	International Conference & Platinum Jubilee Year 36 th Convention of Chemists, Calcutta, November 1999.
25.	Assessment of arsenic level in the airborne dust particulates of Raipur city, M.P. (Manisha Thakur, Manas Kanti Deb)	37 th Annual Convention of Chemists, Hardwar, 2000
26.	Iron precipitation in Indian ground waters. (with K.S. Patel, K. Srivas & G.L. Mundhara)	Conference on Waters & Waste Water, Berlin, October, 2001
27*.	Field detection and spectrophotometric determination of phenylhydrazine using p-toluimidoyl chloride in water samples. (Manisha Thakur, Manas Kanti Deb)	89 th Proceedings of Indian Science Congress Association, Lucknow University, Lucknow, 3-7 Jan. 2002, P-73
28.	Determination of Vanadium with 4-2-(Pyridylazo)-resorcinol and hydroxyamidine in biological samples. (Manisha Thakur, Manas Kanti Deb)	36 th Annual Convention of Chemists, Jodhpur University, Jodhpur, Dec. 2001

29*.	Determination of palladium emitted by automobile exhaust via catalytic converters (Pushpa Khande, Manisha Thakur, Manas Kanti Deb)	8 th Intern. Conf. On Atmospheric Sciences and Applications to Air Quality, Tsukuba, Tokyo, Japan, March 11-13, 2003.
30*.	Load of some heavy metals in the airborne dust particulates in a semi-arid climatic urban city in the central part of India (Manisha Thakur, Manas Kanti Deb)	8 th Intern. Conf. On Atmospheric Sciences and Applications to Air Quality, Tsukuba, Tokyo, Japan, March 11-13, 2003.
31*.	Spectrophotometric determination of zinc in cosmetics and pharmaceutical samples using 2-(5-bromo-2-pyridylazo) diaminophenol (5-Br-PADAP) in mixed surfactant medium. (Ravi Banjare, Manas Kanti Deb)	90 th Indian Science Cong. Assoc., Bangalore, 3-7 Jan. 2003.
32*.	Specific Spectrophotometric Determination of Rhodium(III) with 5-Br-PADAP and N-Hydroxy-N,N'-diphenylbenzamidine. (Pushpa Khande, Manisha Thakur, Manas Kanti Deb)	91 th Indian Science Cong. Assoc., Chandigarh, 3-7 Jan. 2004.
33.	Sensitive and selective extraction spectrophotometric determination of trace amounts of nickel(II) as a mixed complex with 2-(5-bromo-2-pyridylazo) diaminophenol (5-Br-PADAP) and N-hydroxy-N,N'-diphenyl-benzamidine. (Ravi Banjare, Manas Kanti Deb)	40 th Annual Convention of Chemists, Jhansi (U.P.), 2003.
34*.	Spectrophotometric determination of nitrite in vegetable sample. (Pushpa Khande, Manisha Thakur, Manas Kanti Deb)	92 th Indian Science Cong. Assoc., Ahmedabad, 3-7 Jan. 2005.
35*.	Determination of cadmium at microgram level using 2-(5-bromo-2-Pyridylazo)-diethylamino-phenol (5-Br-PADAP) as reagent. (Ravi Banjare, Manas Kanti Deb)	41 th Annual Convention of Chemists, Delhi, 2004.
36*	Specific spectrophotometric method for determination of samarium with 2-(5-bromo-2-Pyridylazo)-diethylaminophenol (5-Br-PADAP) in simulated geological matrices. (Pushpa Kande, Manas Kanti Deb)	92 th Indian Science Cong. Assoc., Ahmedabad, 3-7 Jan. 2005.
37*	Mass variation pattern in the size aggregated aerosols in central eastern part of India (Santosh Kumar Verma, Manas Kanti Deb)	42 nd Annual Convention of Chemists, Viswa Bharati, Santiniketan, Feb. 2006.
38.	Determination of Ruthenium(IV) using 2-[(5-Bromo-2-pyridylazo)]-5-diethylainophynol (5- Br- PADAP) and N-hydroxy-N, N'-Diphenyl-benz-amidine as reagent after extractions in to dichloromethane. (Pushpa Kande, Manas Kanti Deb)	93 rd Indian Science Congress Association, January, 2006, Agricultural Research Institute, Hyderabad.
39.	Use of electrochemically synthesized silver nanoparticles in the rapid degradation of Dichlorovos. (Shilpa Dubey, Manas Kanti Deb)	43 rd Annual Convention of Chemists, December, 2006, Aurangabad, Maharashtra, India
40*.	Reagent less Determination of Nitrate in Environmental Samples and Industrial Effluents Using Potassium Bromide Matrix with Diffuse Reflectance Fourier Transform Infrared spectroscopy (DRIFTS)*	43 rd Annual Convention of Chemists, December, 2006, Aurangabad, Maharashtra, India

	(Santosh Kumar Verma, Manas Kanti Deb)	
41*.	Ultrasonic extraction of tetraiodoarsenite (AsI ₄ ⁻) as ion pair complex with amidine and spectrophotometric determination of arsenic in water. (Manas Kanti Deb, Shilpa Dubey, S.K. Verma and R.K. Mishra)	1 st International Conference on Arsenic Contamination in Tropics (ICACT), February, 2007, Raipur, India.
42*.	Arsenic level in fall-out particulate of an urban city of central India (Manas Kanti Deb, Manisha Thakur, Ravi Kumar Banjare, Neera Mishra, Devsharan Verma and R.K. Mishra)	1 st International Conference on Arsenic Contamination in Tropics (ICACT), February, 2007, Raipur, India.
43*	Preparation of silver nanoparticles by microwave irradiation method. (Shilpa Sharma, Manas Kanti Deb)	95 th Indian Science Congress, Andhra University, Vishakhapatnam (A.P.), 2008
44*.	Reagentless, fast and non-destructive determination of nitrate in aerosol samples with diffuse reflectance Fourier transform infrared spectroscopy (DRIFTS) employing KBr substrate (Santosh Kumar Verma, Manas Kanti Deb)	National Conference on Green Chemistry and its Perspective, February 11-12, 2008, Amravati University, Amravati
45*.	Non-destructive and quantitative analysis of inorganic ions in soil and sediments employing Diffuse reflectance Fourier transform infrared spectroscopy (DRS-FTIR) (S.K. Verma, Devsharan Verma, Manas Kanti Deb)	European Geosciences Union, EGU General Assembly, Vienna, Austria, 13-18 April, vol. 10, 2008
46.	Single drop micro-extraction and diffuse reflectance Fourier transform infrared spectroscopic determination of chromium (S.K. Verma, Manas Kanti Deb)	45 th Annual Convention of Chemists, Dharwad, December, 2008
47.	Single drop micro-extraction and diffuse reflectance Fourier transform infrared spectroscopy for determination of vanadium (Devsharan Verma, Manas Kanti Deb and S.K. Verma)	96 th Indian Science Congress, Andhra University, Shillong (Meghalaya), 2009
48*.	Synthesis of silver nanoparticles using N1, N2-diphenylbenzamidine by microwave irradiation method. (Devsharan Verma, Manas Kanti Deb)	European Science Foundation ESF Research conference on "Nanocarbons: From physicochemical and biological properties to biomedical and environmental effects, Acquafredda di Maratea, Italy, 8-13 Sept, 2009.
49.	Assessment of fine and ultrafine atmospheric aerosol particulate matters in industrial cities of a central state in India (Dhananjay Deshmukh, Manas Kanti Deb)	46 th Annual Convention of Chemists, Vellore, December 02-06, 2009, AEC(OP)-15
50.	Ionic composition and sources of fine and coarse aerosols in industrial city Bilaspur (Chhattisgarh) (Dhananjay Deshmukh and M.K. Deb)	National seminar on "Recent Trends in Chemical Sciences" (RETICS-2010), February 19-21, 2010, Sambalpur University, Sambalpur
51.	Ion-chemistry, seasonal cycle and sources of PM _{2.1-10} and PM _{2.1} aerosols in industrial city Korba (Dhananjay Deshmukh and Manas Kanti Deb)	Bose Institute, Darjeeling Campus, Darjeeling, March, 2010
52.	Deshmukh DK, Deb MK, Verma D (2010). Mass Concentration, Seasonal Variation and Sources of Water Soluble Inorganic Species in Size-segregated Aerosol in	International Aerosol conference (IAC) 2010 August 29 to September 3, 2010, University of Helsinki, FINLAND.

	Lower Troposphere of Eastern Central India (Dhananjay Deshmukh and Manas Kanti Deb)	
53.	Characterization of Dicarboxylic Acids in PM _{2.5-10} and PM _{2.5} Atmospheric Aerosols (Dhananjay Deshmukh and Manas Kanti Deb)	47 th Annual Convention of Chemists 2010 and International Conference in Recent advances in Chemical Sciences, 23–27 December, 2010, School of Studies in Chemistry, Pandit Ravishankar Shukla University, Raipur 492 010, Chhattisgarh, INDIA
54.	Synthesis of silver nanoparticles and comparative studies on adsorption of dye from aqueous solutions using activated carbon and activated carbon coated with polyvinyl pyrrolidone protected silver nanoparticles (Jolly Pal and Manas Kanti Deb)	47 th Annual Convention of Chemists 2010 and International Conference in Recent advances in Chemical Sciences during 23–27 December, 2010 at School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur (Chhattisgarh), India.
55.	Characterization of Dicarboxylic Acids in Atmospheric Particles (Dhananjay Deshmukh and Manas Kanti Deb)	98 th Indian Science Congress, 3–7 January, 2011, SRM University, Chennai, INDIA.
56.	Microwave assisted green synthesis and optical properties of silver nanoparticles stabilized by polyvinyl pyrrolidone (Jolly Pal and Manas Kanti Deb)	98 th Indian Science Congress during 3–7 January, 2011 at SRM University, Chennai.
57.	Measurement of Particulate Matter Concentrations in the Atmosphere of Central India and Its Statistical Analysis (Dhananjay Deshmukh and Manas Kanti Deb)	National Seminar on Recent Trends in Chemical Sciences and Future Prospects, October 11 and 12, 2011, Department of Chemistry, Govt. V.Y.T. PG. Auto. College, Durg 491 001, Chhattisgarh, INDIA.
58.	Microwave green synthesis of biopolymer stabilized silver nanoparticles beads for adsorption behavior of malachite green (Jolly Pal and Manas Kanti Deb)	National Seminar on Recent Trends in Chemical Sciences and Future Prospects during October 11 to 12, 2011 at Govt. V.Y.T. PG. Autonomous College, Durg
59.	Atmospheric Particulate Pollutants and their Relationship with Meteorology in Urban Area of Raipur, India (Dhananjay Deshmukh and Manas Kanti Deb)	International Conference on Advances in Environmental Chemistry 2011 (AEC 2011), November 16 to 18, 2011, Department of Chemistry, Mizoram University, Aizawl 796 004, Mizoram, INDIA.
60.	Biopolymer supported silver nanoparticles beads for adsorption of methylene blue dye from aqueous solution (Jolly Pal and Manas Kanti Deb)	48 th Annual Convention of Chemists 2011 during 03 to 07 December at Department of Chemistry, Faculty of Science University of Allahabad-211 002, Uttar Pradesh.
61.	Particulate Air Pollution in the Two Urban Areas of Eastern Central Region of India (Dhananjay Deshmukh and Manas Kanti Deb)	The 11 th Asian Urbanization Conference, December 10 to 13, 2011, Department of Geography, Osmania University, Hyderabad 500 007, Hyderabad, INDIA.
62.	Distribution and Temporal Behavior of Airborne Particulate Matters (PM ₁₀ , PM _{2.5-10} , PM _{2.5} and PM ₁) in Durg City, Chhattisgarh, India (Dhananjay Deshmukh and Manas Kanti Deb)	4 th International Congress of Environmental Research 2011 (ICER 2011), December 15 to 17, 2011, Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat 395 007, Gujarat, INDIA.
63.	Removal of rodamine B from aqueous solution by adsorption onto alginate stabilized silver nanoparticles (Jolly Pal and Manas Kanti Deb)	4 th International Congress of Environmental Research during December 15-17, 2011 at SVNIT, Surat (India).
64.	New alginate stabilized silver nanoparticles beads for efficient removal of brilliant green dye (Jolly Pal and Manas Kanti Deb)	99 th Indian science congress, 2012 during 3–7 January, 2012 at KIIT University Bhubaneswar.

	Kanti Deb)	
65.	Microwave green synthesis of alginate stabilized silver nanoparticles and their adsorption behavior for phenol. (Jolly Pal and Manas Kanti Deb)	National Seminar on Recent Trends in Chemical Research: Challenges Ahead, during 30–31 March, 2012 at Guru Ghasidas Vishwavidyalaya, Bilaspur (Chhattisgarh), India.
66.	Dicarboxylates in urban atmospheric environment (Manas Kanti Deb)	International Symposium on 'Organic Aerosols in the Environment' SOS Chem RS Univ, Raipur, Dec .6, 2012.
67.	Characteristics of Dicarboxylates Associated with Inorganic Ions in Urban PM10 Aerosols in the Eastern Central India (Manas K. Deb ^{1*} , Dhananjay K. Deshmukh ¹ , Ying I. Tsai ²)	28-30 Nov., 2012 International Symposium on Atmospheric Sciences, Raipur
68.	Spectroscopy (Special reference: IR) Part I – Fundamental Principles & Instrumentation- Invited lecture (Manas K. Deb)	Refresher Course in Chemistry: Chemistry Deptt, SBG Amravati University, November 24, 2012
69.	Spectroscopy (Special reference: IR) Part II – General & Featured Applications- Invited lecture	Refresher Course in Chemistry: Chemistry Deptt, SBG Amravati University, November 24, 2012
70.	Diffuse reflectance FÖurier transform infrared spectroscopy (DRS-FTIR): A non-destructive tool for environmental analysis- Invited lecture	AICON'11: " Chemical Science : Innovations & Challenges in Twenty First Century " 28-29 January 2011: CSIT Durg
71.	Fourier Transform Infrared Spectroscopy as an Effective Tool for Quantitative Analysis of Metal Oxyanions Invited lecture	State Conference: Recent Trends in Coordination Chemistry-2013 " 20 March 2013: MBP College, Sakoli
72.	Analytical Technique Based on Fourier Transform Infrared Spectroscopy- Invited lecture	IAC (IL) 09, 4-7 Dec 2013, 50 th ACC, ICS, Chandigarh
73.	Fourier Transform Infrared Spectroscopy as an Effective Tool for Quantitative Analysis – Invited lecture	NCETC-2012: "National Conference: Emerging Trends in Chemistry-2012 " 29-30 December 2012: MGM College, Jabalpur
74.	Diffuse Reflectance - Fourier Transform Infrared Spectroscopy: A Green Analytical Technique- Invited lecture	National conference on 'Recent Trends in Chemistry-RTC 2012', SMIT, Sikkim, January 23-25, 2012
75.	Fourier Transform Infrared Spectroscopy as an Effective Green Analytical Technique Invited lecture	Feb 27-March 01, 2014, Sustainable Chemistry: Frontiers and Challenges, Shillong, NEHU
76.	Spectroscopy: A tool for micro probing Invited lecture	National Science Day, Baloda, Janjgir, C.G., March 09, 2014
77.	Solving Social Challenges Through Science in India- Invited lecture	March 03, 2015 "Science for Nation Building" National Science Day Celebration, 2015 Govt. Rajmata Vijayaraje Sindhia Girls College, Kawardha
79.	Atmospheric Chemistry: Fundamental Aspects Invited lecture	Refresher Course in Chemistry: 1-21 May 2015 (11-5-2015), Guru Ghasidas University, Bilaspur, C.G.
80.	Atmospheric Chemistry: Analytical Aspects Invited lecture	Refresher Course in Chemistry: 1-21 May 2015 (11-5-2015), Guru Ghasidas University, Bilaspur, C.G.

81.	Water-soluble dicarboxylic acids and major ions in size-resolved aerosols at an urban site in India during summer: size distribution and sources D.K. Deshmukh*, K. Kawamura, M.K. Deb and S.K.R. Boreddy	The 33th Symposium of the Japanese Association of Organic Geochemists, Aug 5-7 2015, Institute of Low Temperature Science, Hokkaido University, Sapporo, Japan.
82.	Ozone layer depletion: Causes and Remedies Invited lecture	World Ozone Day celebration, September 18, 2015, Chhattisgarh Science Centre, Raipur, C.G.

Research Guidance by Dr. Manas Kanti Deb

S. No.	Name of the Candidate	Title of the work	Degree awarded/ Year	University Registration no.
1.	Dr. Manisha Thakur (Associate Professor, CSIT, Bhilai)	Studies on Dust Fall Out in Raipur, M.P.	Ph.D./ 2000	/Acad./Research/ 1997, dt.xx-xx-1997. Notification No./Conf./Ph.D./R.K.S./ 930/2000 , dt. 06-09-2000
2.	Dr. Ravi Banjare (Asst. Professor, Govt. College, Kanker)	Analytical Studies on Some Heavy Metals in Samples of Different Origin	Ph.D./ 2005	/Acad./Research/ 2002, dt.27-03-2002
3.	Dr. Pushpa Khande	Applications of imidoyl derivatives in the determination of platinum group elements (PGEs)	Ph.D./ 2006	1981/Acad./Research/2003, dt. 21-02-2003
4.	Dr. Santosh Kumar (Scientist 'B', FSL, CG Govt, Raipur; Post Doctoral Researcher, Sapporo Univ, Japan; with Prof. Kawamura; 2012-13)	Chemical characterization of size-segregated aerosols in the lower troposphere in Chhattisgarh region	Ph.D. / 2009	4724/Acad./Research/ 2006, dt. 04-04-2006
5.	Dr. Shilpa Sharma (Asstt. Professor, Rungta Engg. College, Raipur)	Analytical applications of metal nanoparticles in the determination of environmental pollutants	Ph.D. / 2010	672/Acad./Research/2007, dt. 18-09-2007
6.	Dr. Devsharan Verma (Scientist 'B', CGWB, Govt. of India)	Optimization of analytical parameters for trace analysis of environmental pollutants based on Fourier transform infrared spectroscopy	Ph.D./ 2010	2992/Acad./Research/2008, dt. 27-06-2007
7.	Dr. Dhananjay Deshmukh (Doctoral Researcher, Sapporo Univ, Japan; with Prof. Kawamura; 2013)	Studies on distribution of low molecular weight organic acids in size-segregated aerosols	Ph.D./ 2013 19-12-2012	7515/Acad./Research/2009, dt. 24-09-2009
8.	Dr. Jolly Pal (Asstt. Prof., Daga Girls' College, Raipur)	Studies on applications of zerovalent metal nanoparticles (ZVNP) in the removal of organic pollutants	Ph.D./ 2013 14-08-2013	7515/Acad./Research/2009, dt. 24-09-2009
9.	Jayant Nirmalkar	Anhydrosugar and sugar alcohols as markers for biomass burning	Ph.D./ 2016 15-01-2016	8987/Acad./Research/2012, dt. 29-11-2012 (Regn dt: 20-07-2011)
10.	Bhupendra Sen (JRF NET, CSIR)	Studies on some multiatomic metal oxy ions utilizing micro-extraction and subsequent Fourier transform infrared spectroscopic analysis	Ph.D./ work in progress	- 12947/Acad./Research/2013 , dt. 24-12-2013 (Regn dt: 23-07-2013)
11.	Swati Chandrawanshi	Analytical studies on some ionic species employing attenuated total reflectance (ATR)-Fourier transform infrared (FTIR) technique	Ph.D./work in progress	12947/Acad./Research/2013 , dt. 24-12-2013 (Regn dt: 25-07-2012)
12.	Swapnil Tiwari	Studies on analytical parameters of some food additives and some toxic adulterants present in food	Ph.D./work in progress	5970/Acad./Ph.D./2015/9, dt. 30-09-2014

		stuffs employing Fourier Transform Infrared spectroscopic technique		
13.	Ramsingh Kurrey	Fourier transform infrared spectroscopy of some selected surface active agents and their quantitative analysis	Ph.D./work in progress	5970/Acad./Ph.D./2015/3, dt. 30-09-2014
14.	Mr. Birendra Kumar (Asstt. Prof., Govt. College, Kawardha)	Studies on mass and size distribution of particulate matters in ambient air of Raipur city	M. Phil./ 2008	-
15.	Ms. Mousami Jangde (Asstt. Prof., Govt. College, Mahasamund)	Synthesis and applications of metal nanoparticles	M. Phil./ 2009, June	-
16.	Ms. Anjali Tawari	Analytical Studies on Rare earth elements with special reference to Gadolinium	M. Phil./ 2009, June	-
17.	Ms. Tamanna Bano	Determination of Samarium at trace level in geological matrices	M. Phil./ 2010	-
18.	Mr. Bhupendra Sen	Adsorption studies of iron nanoparticles on the removal of phenolic compounds	M. Phil./ 2011	-
19.	Ms. Likheswari Mithlesh	Studies on the removal of chromium(VI) by metal nanoparticles	M. Phil./2012	-
20.	Ms. Swati Chandrawanshi	Studies on visual detection of mercury employing metal nanoparticles	M. Phil./2013	-
21.	Ms. Swapnil Tiwari	Studies on some selected common food adulterants employing Fourier transform infrared spectroscopy	M.Phil./2014	-
22.	Mithlesh	Mass and flux loading of atmospheric particulate matter during winter at central part of India, Raipur Chhattisgarh	M.Phil./2015	

Refresher/ Orientation Courses and Workshops attended

1. National workshop on Green Chemistry, Feb 13-14, 2007, National Environmental & Engineering Research Institute, NEERI, Nagpur, India.
 2. 1ST UGC Refresher Course in Chemistry, January 2003 (3 weeks), Pt. Ravishankar Shukla University, Raipur.
 3. 46TH Orientation Course, Dr. H.S. Gour University, Sagar, M.P., Nov 11 – Dec 7, 2002.
 4. Advanced UGC Refresher Course, January 2001 (4 weeks) Indian Institute of Science (IISc), Bengaluru.
 5. UGC Refresher Course, CPDHE, Delhi University, March 1995 (3 week).
 6. Workshop on 'Maintenance of Low Cost Equipments', CPDHE Sponsored conducted by Govt. Science College, Raipur, March 1995 (1 week).
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Details of Projects Completed/Ongoing by Dr. Manas Kanti Deb (as PI unless stated otherwise)

S.No	Title	Agency	Period	Grant/Amount Mobilized (INR, 100 thousands)	API Score
01	Biogeo-environmental Pathways, Nanochemistry and Associated Climate Change Involved with Pollutants (Dy Coordinator; UGC-SAP-DRS-II)	UGC, New Delhi	2015-2020 (Sanctioned June 7, 2015)	128.0	
02	Optimization of analytical parameters for some food additives and toxic adulterants employing DRS/ATR-FTIR spectroscopic technique	CCOST, Raipur	2016-18	5.0	
03	A Novel Hyphenated Single Drop Micro Extraction - Diffuse and Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy (SDME-DRS/ATR-FTIR) Technique for Analysis of Multiatomic Metaloxy Anions	SERB, DST, New Delhi	Sanction letter no. SR/S1/IC/005/2012 2012-2015	33.2	20
04	Source Apportionment of Classified Atmospheric Dust Fractions using Selected Receptor Models (Co-PI)	DST, New Delhi	2010-2013	51.0	20
05	Studies on dust fall-out in Raipur city	MPCOST, Bhopal	1995-1998	1.0	10
06	Toxic trace elements in the airborne particulate matters	UGC, New Delhi	1998-2000	0.30	10
07	Determination of platinum group elements (PGEs) in soil, vegetation and airborne dust particulates	CCOST, Raipur	2003-2005	1.70	10
08	Ion-exchange mechanism in aerosols of lower tropospheric atmosphere in Chhattisgarh region	ISRO, Bengaluru	2004-2007 (ext. 2008)	8.47	15
09	Rapid and Simultaneous Analysis of Acidifying Sulphate and Nitrate Species in Soil and	UGC, New Delhi	2007-2009	1.65	10

	Aerosol by DRS-FTIR Technique Using KBr Substrate				
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Co-authors View all...

- Santosh Verma
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- Pavlos Zampas
- shamsh pervez

Title	1-20	Cited by	Year
Water soluble ions in PM2.5 and PM1 aerosols in Durg city, Chhattisgarh, India DK Deshmukh, MK Deb, YI Tsai, SL Mkoma Aerosol Air Qual. Res 11, 696-708		51	2011
Heavy metals in freshly deposited sediments of the river Subernarekha, India: an example of lithogenic and anthropogenic effects AK Upadhyay, KK Gupta, JK Sircar, MK Deb, GL Mundhara Environmental Geology 50 (3), 397-403		44	2006
The use of 1-[pyridyl-(2)-azo]-naphthol-(2) in the presence of TX-100 and N,N'-diphenylbenzamidine for the spectrophotometric determination of copper in real samples M Thakur, MK Deb Talanta 49 (3), 561-569		42	1999