

Dr. (Mrs.) RAMESH KUMARI



- **Designation** : Professor in Department of Chemistry
Maitreyi College, Chanakya Puri, New Delhi-110021
- **Contact No.:** 9899171244 (M)
- **Email** : kmramesh17@gmail.com

Educational Background

- Ph.D. in Physical / Analytical Chemistry from Indian Institute of Technology, Delhi (**Thesis on Physicochemical Investigation on Sorption Behaviour of 51-Chromium (VI) Species at Metal Oxide – Solution Interface**) [1994]
- M.Sc. (Physical / Analytical Chemistry) from Indian Institute of Technology, Delhi [1989]
- B.Sc. (Hons) Chemistry, ARSD College, University of Delhi [1987]

Area of Specialisation

- Physical/Computational/ Environmental/Analytical Chemistry

Computer Knowledge

- Excellent Knowledge and work experience of Computer System : Operating System :DOS, Windows & Linux, Software Programming Languages- QBASIC, FORTRAN, C++, Application Softwares – HyperChem, Chemsstech, Web Labviewer, Argus Lab, Schrodinger, Digital web Resources & Internet Applications.

Employment History

- 1995 – to date Professor Department of Chemistry, Maitreyi College, University of Delhi, New Delhi
- 1994-95 Adhoc Lecturer, Department of Chemistry, Gargi College, Delhi.
Taught Physical / Computational Chemistry

Participation in Conferences / Symposia/ Workshops

- **National Workshop on “Radiochemistry and Applications of Radioisotopes”** organized by Indian Association of Nuclear Chemists and Allied Scientist (IANCAS) and The Institute of Science, Bombay, Nov., 6-11, 1989
- **International Symposium on “Radiochemistry and Radiation Chemistry” (Plutonium -50 years)** organized by BRNS, Department of Atomic Energy at BARC, Bombay, Feb., 4-7,1991
- **National Workshop on “Radiochemistry and Applications of Radioisotopes”** organized by Department of Chemistry, Nagpur, July 20-30, 1992
- **First National Symposium on “Green Chemistry”** organized by Department of Chemistry, University of Delhi, January, 11-13, 1999. Received Best Poster prize for the presentation
- **Workshop on “ Maintenance of Laboratory Instruments”** organized by Shaheed Rajguru College of Applied Sciences for Women, Vivek Vihar, Delhi, Oct., 13-18, 2003
- **National Symposium on “Industrial Applications of Microemulsion Technology (NSIOAOMT- 2004)”** organized by Institute of Pesticide Formulation Technology Gurgaon, Feb., 9-11,2004
- **41st Annual Convention of Chemists** organized by Department of Chemistry, University of Delhi during Dec., 23-27, 2004.
- **National Workshop on “Bioinformatics and Computational Biology”** organized by Sri Venkateswara college, Department of Biochemistry, University of Delhi during April, 18-22, 2005
- **National Seminar on “Chemistry Industry Interface ”** organized by Atma Ram Sanatan Dharma College and Department of Science and Technology , CSIR, Delhi during April, 18-22, 2005
- **InCoB**, organized by IIT Delhi, DBT **5th International Conference on Bioinformatics and Biotechnology** and JNU Delhi, Dec., 18-20,2006
- **IUPAC sponsored, Second International symposium on “Green/Sustainable Chemistry”** organized by Department of Chemistry, University of Delhi during January 10-13, 2006.
- **Symposium on the “Applications of Nuclear Magnetic Resonance to Material and Medicine”** organized by Department of Chemistry, IIT Delhi, Nov., 21,2006
- **Development of Chemistry Programme for XII class on One Stop Education Portal SAKSHAT 2006**
- **Workshop on “Content creation for E-learning”** organized by School of Open learning, South Campus, University of Delhi, August 25 – 27, 2006.
- **Workshop on “How to attract and retain meritorious students in Maths and Science”** organized by National Knowledge Commission, South Campus, University of Delhi on September 10, 2007

- **INDO-US S&T Forum Training workshop on Green Chemistry**, organized by Department of Chemistry, University of Delhi during January 7-9, 2008
- Resource Person for **workshop “Walk in Exam for the development of Question Bank for AEC of B.Sc Programme”** organized by IGNOU at NCIDE, September 7-9, 2009.
- National Symposium on **“Translational Research in Health Science”** organized by Society of Young Scientist, All India Institute of Medical Science, Delhi, November 24, 2009.
- **ILLL Workshop for Capacity Building of Delhi University Staff**, organized by Institute of Lifelong Learning, University of Delhi, December 21-24, 2009.
- **National Workshop on “Quality Assurance through Blended Learning”** organized by Maitreyi College, University of Delhi, January 19-21, 2010.
- Resource Person for **workshop “Upgrading lab skills in Science”** organized by Maitreyi College, June 24-30, 2010
- **National Workshop on “ Renewable Energy and Environment”** organized by Department of Chemistry , Ramjas College, University of Delhi, January 28-29, 2011.
- **National Seminar on “ Application of Nanomaterials for Environment and Technology Development”** organized by KIIT Group of Colleges, Gurgaon, February 11-12, 2011.
- Member of Jury **“INSPIRE” National Level Exhibition & Project Competition organized by Government of India, Ministry of Science & Technology & Department of Science & Technology**, August 14-16, 2011.
- **Workshop on “Computational Chemistry”** organized by Department of Chemistry, Miranda House, University of Delhi, Delhi, November 22-23, 2011.
- Judge for “Science Book Week” at Bal Bharati Public School, Pitampura during 2013
- **IDA Connect Workshop at Worlddidac India 2014, Delhi** Sept., 10-12, 2014
- **National Symposium and Workshop on “ Finger Print Technology”** organized by Department of Chemistry , S.G.T.B. Khalsa College, University of Delhi, February 4-5, 2014
- **Bioinformatics Workshop on Genomics, proteomics, drug Design and Technology Transfer**, organized by Supercomputing Facility for bioinformatics and Computational Biology, IIT Delhi, Oct.,6-15 , 2014
- **National Symposia on Innovations in Composites for General Purpose to High End Applications** organized by Guru Gobind Singh Indraprastha University, Dwarka, New Delhi, Feb., 17-18,2015
- **Faculty Development Program on “Nanomaterials and its Applications”** organized by Department of Biotechnology, Jaypee Institute of Information Technology, Noida, July 13-18 , 2015
- **Faculty Development Program in Research Project Management :Proposal to Publication and beyond”** organized by CIC- Centre For Science Education and Communication, University of Delhi, July, 19, 2016

- **Workshop on “ Computer Aided Molecular Modeling and Drug Discovery”** organized by Department of Chemistry, St. Stephens College and Schrodinger GmbH Bangalore, India, July, 25-26, 2016
- **Faculty Empowerment Workshop on “WSB1: National Workshop on Basic ICT Skills for Educators (e-content development and Assessment Tools)”** organized by Guru Angad Dev Teaching and Learning Center of MHRD at SGTB Khalsa College, University of Delhi, September 17-19, 2016
- **International Conference on “ Green Chemistry in Environmental Sustainability and Chemical Education” (ICGC-2016)** organized by Department of Chemistry, Daulat ram College, University of Delhi, November 17-18, 2016
- **National Conference on “ Interdisciplinarity : Prospects and Challenges”** organized by Maitreyi College, under Star College Scheme of DBT, GOI, April , 5-7, 2017
- **Faculty Empowerment Workshop on “WSB2: National Workshop on Subject Specific ICT Skills for Chemistry Educators”** organized by Guru Angad Dev Teaching and Learning Center of MHRD at SGTB Khalsa College, University of Delhi, January, 19, 2017
- **National Workshop on “Greening an undergraduate Chemistry Lab(GUCL)”** organized by Sri Venkateswara College, University of Delhi, August 8-9, 2018
- **National Conference on “Emerging Trends and Advances in Chemical Sciences”** organized by St. Stephen’s College, University of Delhi, Sept., 25-26, 2018
- **Symposium on “Empowering Women in Chemistry” A Global Networking Event**, organized by Miranda House, University of Delhi, Feb., 12, 2019
- **National Conference on “ Trends in Life Science and Biotechnology: Innovative Paradigms”** organized by Maitreyi College Feb., 19-20, 2019
- **National Workshop on “Voice Culture and Voice Modulation”** organized by Guru Angad Dev Teaching Learning Centre of MHRD, SGTB Khalsa College, University of Delhi, March 7, 2019
- **National Seminar on “ Blended Learning in Chemistry”** organized by Guru Angad Dev Teaching Learning Centre of MHRD, SGTB Khalsa College, University of Delhi, May 28, 2019
- **ACS Workshop on “ Greening our Education System: Initiative for Propagating and Preaching Beyond Benign Concepts in Classrooms and Laboratories”** organized by ACS International Student Chapter, University of Delhi, Green Chemistry Network Centre, University of Delhi and Hindu College, December, 19, 2019
- **Techno Update 1.0-A Workshop on “Google Drive”**, organized by Department of Computer Science, Maitreyi College, January, 29, 2020
- **Webinar on “ COVID-19 and 3Ls: Lives, Livelihood and Lockdown”** Maitreyi College, April 26, 2020 through Google Meet.
- **Webinar on “ How to Stay Focussed and Calmed in COVID 19 Times”** Maitreyi College, May, 13, 2020 through Google Meet.

- **Webinar on “ Plagiarism: Issues & Challenges”** Maitreyi College, May,15, 2020 through Google Meet..
- **Webinar on “ COVID 19: Issues with Family”** Maitreyi College, May,17 2020 through Google Meet.
- **Webinar on “ Immunity Through Nutrition”** Maitreyi College, May,22 2020 through Google Meet.
- **Webinar on “ Sahaj Yoga Meditation: Discover Inner Peace and Positivity”** Maitreyi College, June 14, 2020 through Google Meet.
- **Webinar on “ Fun of Playing around NMR Spectroscopy”** organized by Amity International Society for Natural Products, Health & Allied Sciences Domain, Amity University, June, 30, 2020
- **Workshop on “Moodle Management System”** Organized by Saheed Rajguru College of Applied Sciences, June 9-13, 2020
- **Webinar series on “Mentoring Teachers for Effective Online Teaching”,** organized by Daulat Ram College, University of Delhi, July 4, 2020
- **Faculty Training Program on Google Applications** from July, 16 – August14, 2020, conducted by Department of Computer Science, Maitreyi College
- **Webinar on “ First Help in Medical Emergency”** Maitreyi College, Dec 27,2020 through Google Meet
- **Webinar on “ First Help in Medical Emergency”** Maitreyi College, Dec 27,2020 through Google Meet
- **Webinar on “Understanding plagiarism detection Software Ouriginal”** University of Delhi with eGalactic Pune, April 6, 2021 through Google Meet.
- **Webinar on “Laboratory Safety Measures and Chemical Waste Management for Ecological and Environmental Shield ”** Rajdhani College, April 16, 2021 through Zoom platform
- **Webinar on “COVID -19 and relevance of CT Scan ”** Maitreyi College, May 23, 2021 through Zoom platform.
- **Webinar on “Vice Chancellor Conclave On National Education Policy 2020: Its Implementation, Opportunities and Challenges”** Rajdhani College, July 16, 2021 through Zoom platform.
- **Webinar on “Taming Your Temper through Meditation ”** Maitreyi College, July 24, 2021 through Zoom platform.
- **Webinar on “ Problems and Challeges of Plagiarism Detection in Non-Unicode Fonts ”** Maitreyi College, August 9, 2021 through Zoom platform.
- **Webinar on “ A Winning Personality through Meditation ”** Maitreyi College, August11, 2021 through Zoom platform.
- **Webinar on “ Healthy Heart ”** Maitreyi College, Sept 11, 2021 through Zoom platform.
- **Webinar on “ Women and Health ”** Maitreyi College, Sept 18, 2021 through Zoom platform.
- **Webinar on “Laboratory Safety Measures and Chemical Waste Management for Ecological and Environmental Shield”,** Rajdhani College, 16th April, 2021

- **Webinar on “ Healthy Digestive System ”** Maitreyi College, Oct 23, 2021 through Zoom platform.
- **Webinar on “Know your Kidneys ”** Maitreyi College, Dec 11, 2021 through Zoom platform.
- **Faculty Development Program on ‘Digital Pedadogy to Enhance Teaching and Learning Experience’** organized by Guru Angad Dev Teaching and Learning Center of MHRD at SGTB Khalsa College, University of Delhi, and Maitreyi College December 15-21, 2021
- **Webinar on “Cybersecurity ”** Maitreyi College, Aug., 6 2022 through Zoom platform.
- **Webinar on “ How to Catch Fake/Clone/Predatory Journals in Academics ”** Rajdhani College, August 27, 2022 through Zoom platform.

Refresher Course / Research Training

- Six weeks practical training with **M/s. Indian Drugs and Pharmaceutical Limited, Gurgaon, Haryana** from 16.05.1998 to 25.06.1988
- Senior Research Associate with the **Department of Chemical Engineering at I.I.T. Delhi** from May, 1989 to July, 1989.
- Research Associate with **Ranbaxy Laboratories Ltd., R&D, Gurgaon, Haryana** in Analytical Development Division, from December, 1993 – June, 1994.
- Research Associate with **Central Pollution Control Board Office Complex, Delhi** from June, 1994 – August, 1994 in a project : Polynuclear Aromatic Hydrocarbon (PAH) : Sampling and Analysis
- **Orientation Course in “ Computer Awareness and Applications in Chemistry”** organized by CPDHE, University of Delhi, Delhi. Dec.,26- Jan., 17, 1994
- **Refresher Course in Chemistry CH-83 on Frontier Areas in Chemistry** organized by CPDHE, University of Delhi, Delhi., Sept29- Oct., 18, 1997
- **Refresher Course in “Environmental Science.,”** Organized by Academic Staff College Jawaharlal Nehru University, March15-April 9,1999
- **Training Course on Window 95, Ms Excel ”** organized by Delhi University Computer Centre, University of Delhi, Delhi Sept 20- Oct 8, 1999
- **Refresher Course in Chemistry (CH-92) “Recent Advances in Chemistry”** organized by Centre for Professional Development in Higher Education , University of Delhi, Delhi , April 15-May 7, 2002

Relevant Experience

- **Academic Counselor and Assistant Coordinator** for IGNOU (Indira Gandhi Open University) for undergraduate courses at Study Centre - Maitreyi College, Delhi (2000-2005)
- **Deputy Coordinator** for PG Diploma in Nanotechnology (under the innovative programme of UGC) Maitreyi College, Delhi (2008-2013)
- **Project Evaluator/Mentor** for Students for PG Diploma in Nanotechnology (2009-2013)
- **Member, Advisory Board**, Star College Scheme, 2005-2015
- **Content Writer** for B.Sc.Programme course at institute of Life Long Learning, Academic Research Center , Delhi University, Delhi
- **Content Writer** for Chemistry Programme for Class XII (CBSE) on One stop Educational Portal SAKSHAT (2006)
- **Member of Jury** for National Level Exhibition & Project Competition “**INSPIRE**” (Innovation in Science Research) 14-16 August 2011 organized by Govt of India, Ministry of Science,& Department of Science and Technology.
- **Convenor** of National Seminar on “**Recent Trends in Chemistry** “ organized by Department of Chemistry , Maitreyi College, New Delhi, Sept., 22-24,2004
- **Co-Convenor** of National Seminar on “**Frontier Areas in Chemistry** “ organized by Department of Chemistry , Maitreyi College, New Delhi, Sept., 23-24,2006
- **Member** organizing Committee of National Workshop on “**Quality Assurance through Blended Learning** “ organized by Maitreyi College, New Delhi, Jan., 19-21, 2010
- **Convenor** of “ **Environmental Health and Safety Programme**”, Department of Chemistry, Maitreyi College, New Delhi, Sept., 4,2014
- **Convenor** of “**CHEMSOPHY -2014, INTERCOLLEGE CHEMISTRY FESTIVAL**”, Department of Chemistry, Maitreyi College, New Delhi, Sept., 30 ,2014
- **Resource Person** of Workshop on “ **Green Innovation for Sustainable Development** ”, Department of Chemistry, Maitreyi College, New Delhi, January 8-9, 2015
- **Convenor** of Workshop on “ **Molecular Spectroscopic Techniques**”, Department of Chemistry, Maitreyi College, New Delhi, March 30,2015
- **Resource Person/ Member** Organizing Committee of Workshop on “**In Vitro : Techniques to Technologies 2015**”, Maitreyi College, New Delhi, Dec., 14-19, 2015
- **Resource person** of “**CONFLUENCE-2016, SCIENCE FAIR**” For School students, Department of Chemistry, Maitreyi College, New Delhi, Jan., 2 , 2016
- **Co-Coordinator** of National Conference on “**Nanoscience - Opportunities and Challenges**”, Department of Chemistry, Maitreyi College, New Delhi, Feb.,19-20 ,2016
- **Head Examiner / Examiner / Evaluator (2008-Todate)** for examination undergraduate / post graduate courses, University of Delhi, IGNOU, GGSIPU.

Publications

BOOKS

- **Computers and their Application to Chemistry**
Narosa Publishing House, 265 Pages, 2002 ISBN 81-7319-366-5

2nd revised and Enlarged Edition , 340 pages ,2005 ISBN 81-7319-666-4
also distributed in Europe and North America 2002,2005 ISBN 1-84265-258-3
- Book Chapter **Development of an environmental friendly and highly durable smart coating of conducting polymers for marine application**, in “Environmental Economics and Social Sustainability”, Durga Maa Prakashan, Uttarakhand,2015,112-123,ISBN 978-81-920509-5-9
- Book Chapter **Environment Friendly Slow Release Fertilizers: An approach towards Sustainable Development**, in “Environmental Concerns of 21st Century Indian and global context”, Book Age Publication, 94-101, 2016. ISBN: 978-93-83281-65-7
- **Physical Chemistry Laboratory Manual: An Interdisciplinary Approach**
I.K. International Publishing House Pvt. Ltd Delhi, 2018, ISBN 978-93-86768-15-5
- **Chemistry of Cosmetics**, Prestige Publisher, Delhi, 2018, ISBN 978-81-936512-4-7(HB)
- **Introduction to Cosmetic Chemistry**, Prestige Publisher, Delhi, 2020, ISBN 978-81-94063872
- **Advanced Practical Chemistry- A multidisciplinary approach**, Prestige Publisher, Delhi, 2023, ISBN 978-81-9960446-2-6
- **Content Writer** for e- PG Pathshala (2014) Project- A project by the University Grants Commission (UGC) under National Mission of Education through ICT (NMEICT) , MHRD, Govt. of India for e-content Development of Post Graduate Courses in Chemistry. **Development of e-content in 4 quadrants For PG Paper No 4 : Environmental Chemistry- 11 modules.**
Link epgp.inflipnet.ac.in

List of Publications in Journals

- (i) M.M. Bhutani, A.K. Mitra & **Ramesh Kumari** , 1991, Sorption And Radiochemical Study Of Cr (VI) Ions At Stannic Oxide-Solution Interface, Adsorption Science And Technology, 8, 44-56,.
- (ii) M.M. Bhutani, **Ramesh Kumari** & A.K. Mitra , 1992, Adsorption Studies of Cr (VI) On Zirconium Dioxide From Aqueous Solutions : A Ligand Exchange Model, Nuclear Science Journal, 29, 141-153.
- (iii) M.M. Bhutani, **Ramesh Kumari** & A.K. Mitra , 1992, Feasibility Study On Aqueous Adsorption Of Cr(VI) On Titanium Dioxide, Journal Of Radio analytical And Nuclear Chemistry, Articles, 159, 343-351.
- (iv) M.M. Bhutani, A.K. Mitra & **Ramesh Kumari** ,1992, Kinetic Study Of Cr(VI) Sorption On MnO₂ ,Journal of Radio analytical And Nuclear Chemistry, Articles, 157, 75-86.
- (v) M.M. Bhutani, A.K. Mitra & **Ramesh Kumari** , 1992, Adsorption of ⁵¹Cr(VI) On Manganese Dioxide From Aqueous Solution , Mikrochimica Acta, 107, 19-26.
- (vi) M.M. Bhutani, A.K. Mitra & **Ramesh Kumari** ,1992, Sorption Behaviour Of Radioactive ⁵¹Cr(VI) Species on V₂O₅ ,Radiochimica Acta, 56, 153-158
- (vii) M.M. Bhutani, P.N. Reddy, A.K. Mitra & **Ramesh Kumari** , 1992, Radiotracer Investigation On Sorption Behaviour Of Chromium(VI) On Antimony Trioxide : Kinetic And Infra Red Study, Langmuir, 8, 1974-1979
- (viii) M.M. Bhutani, **Ramesh Kumari** , 1994, Adsorption Of Low Level ⁵¹ Cr(VI) From Aqueous Solution By Bismuth Trioxide : Kinetic And IR Study, Journal of Radioanalytical And Nuclear Chemistry, Articles, 180, 145-153
- (ix) M.M. Bhutani and **Ramesh Kumari**,1994, Sorption And Concentration of ⁵¹Cr(VI) Traces On TiO₂ And ZrO₂ By Radioindicator Study, Journal Of Radioanalytical And Nuclear Chemistry, Articles, 180, 155-161
- (x) M.M. Bhutani and **Ramesh Kumari** , 1994, Surface And Charge Characteristics of Oxide-Solution Interface Towards Chromium (VI) Sorption ,Adsorption Science And Technology, 11, 145-154.
- (xi) S. K. Tyagi and **Ramesh Kumari**,1994, People Can Protect Water From Pollution, Journal On Intensive Agriculture, September to October
- (xii) **Ramesh Kumari** and Amritha Anand,1996 Pesticide Management, Chemistry Education Review,

- (xiii) **Ramesh Kumari**, 2020, An innovative Approach to Soil Fertility management for soil Samples Collected from Villages of Gurgaon, Haryana, India, Int. J. Res.Appl.Sci. Engg.technol. 8 (IX), 282-290. ISSN 2321-9653
- (xiv) **Ramesh Kumari** , 2020, An overview on Corona Virus Disease(COVID-19)Pandemic- Environmental and Climatic Changes During Nationwide Lockdown , Int. J. Mult. Edu. Res, 9,(9),133-222.ISSN 2277-7881
- (xv) **Ramesh Kumari**, 2020, P4 Medicine :A futuristic Approach to Health and Disease, Int. J.Res.Appl. Sci.Engg.Technol, 8(IX), 679-684. ISSN 2321-9653
- (xvi) Geetika Bhasin, **Ramesh Kumari***, Shraddha Bathla, Nitika Jakhar, Pramita Jain, Leesha Rawat, Meeshika Lakhina, 2020, Redefining the Holistic Perspective of Ayurveda for Covid Treatment and Prevention, International J. Ayurveda and Alternative Medicine, 106-116. ISSN 2348-0173
- (xvii) N Pandey, **R.Kumari**, M. Grover., 2021, Computational Analysis of Lipid Modification in Crambe, J. Plant. Sci. Res., 8(1), 1-4.ISSN 2349-2805

List of Papers in Conferences/Symposia

1. M.M. Bhutani, **Ramesh Kumari** & A.K. Mitra ,Removal of Cr (VI) From Aqueous Solutions by ZrO₂ : A Kinetic Based Study , International Symposium On Radiochemistry and Radiation Chemistry, BARC, Bombay, Feb., 4-7, AR-12, 1991.
2. M.M. Bhutani, P. N. Reddy, **Ramesh Kumari** & A.K. Mitra ,Some Aspects Of IR Study On Fixation of Chromate Ions On Hydrous Antimony Trioxide, International Symposium On Radiochemistry and Radiation Chemistry, BARC, Bombay, Feb., 4-7, AR-28, 1991.
3. M.M. Bhutani, **Ramesh Kumari** & A.K. Mitra , 1991,Concentration Of Chromate Ions On V₂O₅ - A Radio indicator Sorption Study, International Symposium On Radiochemistry and Radiation Chemistry, BARC, Bombay, Feb., 4-7, AR-29
4. M.M. Bhutani and **Ramesh Kumari** , 1992,Adsorption of low level ⁵¹Cr(VI) From Aqueous Solution by Bismuth Trioxide : Kinetic and IR Study,Second International Symposium on "Nuclear Analytical Chemistry (NAC-II), Toronto, Canada, June 3-5, 77.

5. M.M. Bhutani and **Ramesh Kumari** , 1992,Radioindicator study of trace levels of $^{51}\text{Cr(VI)}$ species on ZrO_2 and TiO_2 , Second International Symposium on "Nuclear Analytical Chemistry (NAC-II), Toronto, Canada, June 3-5, 78
6. M.M. Bhutani, **Ramesh Kumari** and Sangeeta Agarwaal, 1992,Sorption Of $^{60}\text{Cobalt(II)}$ On Pure And Mixed Iron (III) - Zirconium(IV) Oxides,National Symposium On Nuclear And Radiochemistry, Andhra University, Visakhapatnam Dec., 21-24, 305-307.
7. M.M. Bhutani, **Ramesh Kumari** & A.K. Mitra ,1992, Sorption And Concentration Of $^{51}\text{Chromium (VI)}$ At Bismuth Oxide-Solution Inter-face, National Symposium On Nuclear And Radiochemistry, Andhra University, Visakhapatnam Dec., 21-24, 308-310.
8. **Ramesh Kumari**, 1999, Bio-Technology: An Ecofriendly Perspective, National Symposium on Green Chemistry, University of Delhi, Delhi, Jan. 11-13.
9. **Ramesh Kumari**, 2006, Green Chemistry: An innovation for an environmental sustainable future ,IUPAC sponsored Second International Symposium On Green Chemistry, University of Delhi, Delhi, Jan. 10-13.
10. **Ramesh Kumari**, Sangeetha Prem and Arshpreet Kaur,2013, "Role of Nanotechnology in the field of Environment- Air & Groundwater Remediation" , National Conference on Advances in Chemical Sciences (ACS- 2013), M.D.U.Rohtak.,Mar 1-2
11. **Ramesh Kumari**, Sangeetha Prem and Arshpreet Kaur,2013, "Nano-Zero valent Iron :Benefits and challenges" at DAV National Congress on Science and Technology, Jalandhar , May 30-31.
12. Saumya Satija, Ritu Sharma, Neha Vats, Tanya Ahuja, Surbhi Chugh, **Ramesh Kumari**, Hema Bhadari , S.K.Dhawan, (2015) Development of Polyaniline-Cu composites/LDPE Blend on Low Percolation Threshold as an Electostatic Charge Dissipative material , National Symposium on Innovation in Composities For general Purpose to High end Application, Guru Gobind Singh Indraprashta University, Delhi, Feb 17-18
13. **Ramesh Kumari**, Hema Bhandari, Ritu Sharma, Neha Vats (2015) Development of an Environmental friendly and highly durable smart coating of conducting polymer nanotubes for marine application, National Seminar on "Environmental economics and social sustainability, Government P.G.College, Almora, Uttarakhand, Mar 4-5

14. Pooja Baweja, Lata, **Ramesh Kumari**, Kriti Mehta, Geetika Rana, Nidhi Yadav, Rachna, Anshi Pandey, Pooja, Aditi, Hemcy Sharma, Prachi Goel, Vrinda Sharma, , 2016 "Environment Friendly Slow Release Fertilizers" at National Conference on "Environmental Concerns of 21st Century – Indian and Global Context" organized by Zakir Husain College (Evening), University of Delhi, Delhi March 21-22 .
15. Pooja Baweja, Lata, **Ramesh Kumari**, Aditi, Hemcy Sharma, Prachi Goel, Vrinda Sharma, Kriti Mehta, Geetika Rana, Nidhi Yadav, Rachna, Anshi Pandey, Pooja, 2016 "Environment Friendly Slow Release Fertilizer : An Approach Towards Sustainable Development", National Conference in Chemistry on Environment & Harmonious Development organized by Department of Chemistry, Shyam Lal College, University of Delhi, Delhi on April 7-8.
16. Lata Vodwal, Pooja Baweja, **Ramesh Kumari**, Nidhi Yadav, Hemcy Sharma and Vrinda Sharma (2016) , An Eco-Friendly Slow-Release Fertilizer for Potential Agriculture and Horticulture Applications, National Conference on Environmental Concerns of 21st Century – Indian and Global Context, organized by Gargi College, University of Delhi, Delhi September 22-23.
17. Lata Vodwal, Pooja Baweja, **Ramesh Kumari**, Kriti Mehta, Geetika Rana, Nidhi Yadav, Rachna, Anshi Pandey, Pooja, Aditi, Akansha Sharma, Hemcy Sharma and Vrinda Sharma, **2016**, Synthesis of an Ecofriendly Slow-Release Fertilizer from Biowaste, International Conference on "Green Chemistry in Environmental Sustainability & Chemical Education" (ICGC-2016), organized by Daulat Ram College, University of Delhi, New Delhi, Page no 45, November 17-18.
18. **Ramesh Kumari**, Lata Vodwal, Pooja Baweja, Aditi, , Hemcy Sharma, Prachi Goel, Vrinda Sharma , Kriti Mehta, Geetika Rana, Nidhi Yadav, Rachna, Anshi Pandey, Pooja, 2016, International Conference on "**Green Chemistry in Environmental Sustainability & Chemical Education**" (**ICGC-2016**), organized by Daulat Ram College, University of Delhi, New Delhi, Page no 45, November 17-18.

Professional and Administrative Experience

- Member of Student Union Advisory Committee (1997)
- Active member Departmental Radha Sairam Chemical Society (1995-todate)
- Creator of " Environmental Awareness Campaign" 30 October 1998
- Convenor of Office Stock Verification Committee

- Member Career Counselling Committee
- Member of Computerisation Committee
- Member of Medical, Health and Hygiene Committee
- Member Anti Ragging Committee
- Member Canteen Committee
- Member of Advisory Board “STAR COLLEGE” Committee
- Resource person for organizing seminar for the Popularization of Science, Chemistry and Nanotechnology
- Member, Advisory board, Star College Scheme, DBT, DELHI
- Member Selection Committee for Chemistry Department Asst. Prof Appointments Dec.,26,2013- Jan.,1 2014
- Chair man of the Interview Board for selection of Teachers in Kendriya Vidyalaya Sangathan through direct recruitment, May 15th -17th, 2023, and May 20-25th, 2023 at old JNU Campus, New Delhi
- Member of Committee on “Amendment to the UGC (Mandatory assessment and accreditation of the Educational Institute) Regulation 2012.
- Member - Advisory Centre for Research, Maitreyi College, 2019-2020
- Member Design of New Curriculam - SEC Cosmetic Chemistry and Perfumes, University of Delhi, 2019-2020
- Teacher-in-Charge, Department of Chemistry 2004-2005,2014-15, 2020-2021
- Member Selection Committee for Adhoc appointment-2014-15, 2020-21
- Member E content creation, Maitreyi College, 2020-21
- Convener, Women Development Cell, Maitreyi College, 2021-todate
- Convenor, Short Term courses , Maitreyi College, (April 2022-todate)
- Member of Computerisation Committee 2023
- Chairperson-Students Grievance Redressal Committee

Achievements

- MCM Scholarship Award in M.Sc. by I I T Delhi (1984-1987)
- CSIR /NET Examination for Research Fellowship Award (1989-1994)
- Best Poster Presentation Award First National Symposium on Green Chemistry, organized by Department of Chemistry, University of Delhi, Delhi, Jan.,11-13,1999
- Life member of “IANCAS” society
- Life member ISAS – Delhi Chapter
- Life member Vigyan Bharati – Delhi

Awards and Appreciation

- Certificate for “**Most Significant Societal Impact**” Project, 2015. MTC -301 Delhi University Innovation Project “**Development of Slow Release**

Fertilizers from biowaste using the techniques of Nanochemistry” Got selected for Research Display at the 93th Convocation on 19 Nov.,2015;

- **Certificate For Appreciation for Summer Internship Programme, for Two month Project Entitled, An Innovative Approach to Soil Fertility Management for Soil Samples Collected From Different States of India”** 2018-19, Department of Chemistry, Maitreyi College, Delhi
- **Certificate of Appreciation for Member, Advisory Board, National Conference on “ Trends in Life Science and Biotechnology: Innovative Paradigms”** organized by Maitreyi College Feb., 19-20, 2019
- **Certificate of Appreciation for “Significant Contribution as a core Course Coordinator Member”** in the Chemistry Undergraduate Curriculum revision based Learning Outcome-based Curriculum Framework (LOCF)- 2019, Department of Chemistry, University of Delhi, Delhi
- **Distinguished Alumni Award-2020, in recognition of her outstanding Professional Achievements and Bringing Honor and Prestige to her Alma mater ARSD College- University of Delhi**
- **Certificate of Appreciation to RAMESH KUMARI of Maitreyi College for Women, for organizing IUPAC Global Women’s Breakfast Event 2021**
- **Certificate of Appreciation to RAMESH KUMARI of Maitreyi College for Women for the timely evaluation of answer scripts of Open Book Examination (OBE) held in Nov-Dec, 2021**

List of Minor/Major Projects

PG Diploma in Nanotechnology

- Hrishta Gupta, Synthesis of Graphene Metal Nano Complexes, 2012-13
- Arshpreet Kaur, Synthesis of Nano Zero Valent Iron For Water Remediation, 2012-13
- Rajveer Kaur, Synthesis and Characterization of Gold-Graphene Nanocomposites, 2012-13
- Sangeetha Prem, Critical use of Plant extract for synthesis of Nanoparticles through Green Chemistry, 2012-13
- Anu Yadav, Synthesis of Silver Nanoparticles from Leaf Extract, 2012-13
- Shagun Arora, Poonam Singh and Pratibha Rawat, Synthesis of Iron and Silver Nanoparticles from Leaf Extracts, , 2012-13

- Surabhi Jaggi, Nida Khanam, Synthesis of Iron Nanoparticles from Leaf Extract, 2012-13

Star College Scheme Project

- Preparation of half cell (4 Students)
- Determination of thermodynamics parameters using electrochemical method for Daniel cell (5 students)
- Determination of adulterant present in food samples (30 Students)
- Determination and of pH of various samples of Fruit Juices, Shampoos, Milk, Cold Drinks May-June., 2015 (25 students)
- To study the adsorption characteristics of acetic and oxalic acid on activated charcoal from aqueous solution.(10 students)
- Ritu Sharma, Surbhi Chugh, Tanya Ahuja, Neha Vats, B.Sc(H) III
Research Project : Development Of Ecofriendly and highly Resilient Smart Coating of Conducting polymer Nanocomposites for Protection of Metals May- July 2014 (5 students)
- Training for students on **Comprehensive Study of Chemical Reactions and Bio-molecules using the Techniques of Chromatography, May20-June 4., 2015** (10 Students)
- Rashmi Banerjee, Rekha Dhama, Garima Agarwal, Divya Rawat, Sarla, Srishti Gupta **Molecular Modeling of Organic Compounds: To predict the structure and properties using Argus Lab 4.0.1 Software (2016-17)** (5 students)
- Sugandha, Ashu, Nidhi, Raveena, Kajol B.Sc(H) Chemistry II yr
Saniya Ali, Anjali Mehra, Mamta Kaushik, Kanika Oberoi B.Sc(life Science) II yr
Interdisciplinary Approach Towards Soil Analysis of Delhi and Neighbouring States (2016-17) (10 students)
- Komal, Taru Verma, Ritu Borwal, B.Sc (H) Chemistry II yr
Mahima Singhal, Monika Pal, B,Sc (Prog) LS II yr
An Innovative Approach to Soil Fertility Management for Soil Samples Collected From Different States of India” 2018-19, Department of Chemistry, Maitreyi College
- **Dr Ramesh Kumari, Sapna, Parushini Singh, Sakshi- An Overview on Corona Virus Disease (COVID19 Pandemic) – Environmental and Climatic Changes During Nation Wide Lockdown** May-July, 2020, Department of Chemistry, Maitreyi College
- **Dr Ramesh Kumari, Kiran Soni^a, Navneet Kishore^a, “Phytochemical Analysis of Selected Indian Medicinal Plants to Know the Antiviral Potential Against Novel Coronavirus”** May-July, 2020, Department of Chemistry, Maitreyi College

- Geetika Bhasin, **Ramesh Kumari**, Shraddha Bathla,, **AYURVEDA-Pragmatic Plan Against COVID-19**, May – July,2020 , Department of Chemistry, Maitreyi College

Innovation Project MTC-301

Development of Slow Release Fertilizer from Bio-waste using Technique of Nano Chemistry -2015

Other contributions

- Paper setter/ Evaluator/ Examiner for University of Delhi for undergraduate science courses and PG diploma in Nanotechnology, **Indira Gandhi National Open University, Guru Gobind Singh Indraprasta University, Delhi**
- Judge for various events in **Bal Bharati Public School Pitampura, Delhi**