

Curriculum Vitae



Guest Faculty
Department of Pure & Applied Chemistry,
University of Kota, Kota, Rajasthan-324005, INDIA.
E mail : 1988rajeshmeena@gmail.com
Mobile /Telephone: 91-9460168909 0744-2471742

Home Address: Rajesh Kumar Meena
H.No- 60, Patel Nagar, Ranthambor Road,
Distt. Sawai Madhopur, Pin- 322001
Rajasthan, India
Telephone : 07462-222417

Rajesh Kumar Meena

Educational Qualifications:

Ph.D in Nanotechnology and Nanomaterials (August 2012- till date), under the guidance of Head of the Department, Associate Professor Dr. Neelu Chouhan, Department of Pure & Applied Chemistry, University of Kota, Kota, Rajasthan.

Title of the Ph.D Research work: “Fabrication of the Nanomolecular Devices of ZnO for Solar Hydrogen Production”.

1. **B.ed** with science subject's from **UNIVERSITY OF KOTA**, Rajasthan, India **2012**.
2. **M.Sc.** Inorganic Chemistry from **Department of Chemistry, RAJASTHAN UNIVERSITY**, Rajasthan, India **2011**.
3. **B.Sc** Chemistry with Botany and Zoology from **UNIVERSITY OF KOTA**, Rajasthan, India **2009**.
4. **12th** Chemistry with Biology and Physics from **RAJASTHAN BOARD**, Rajasthan, India **2006**.
5. **10th** All Subjects with Science from **RAJASTHAN BOARD**, Rajasthan, India **2004**.

Honors:

- **CSIR NET - DEC. 2011- 52 AIR** in the subject CHEMICAL SCIENCES under CSIR scheme and declared eligible for lectureship.

Teaching Experience

Teaching Experience: 03 Year 8 Months. Research Experience: 4 year 8 Months

- Guest Faculty of Department of Pure & Applied Chemistry University of Kota, Kota from August 2013- Continue.

Area of Interest/ Specialization

Nanotechnology, Green chemistry, conducting organic materials, nano devices for water splitting, phosphor for LED, plasmonic materials, Solid State Chemistry, Organic Reaction, Photo Chemistry, Paricycle Reaction, Organomatic Compounds & Photo Catalytic Water Splitting for Hydrogen Production.

Publication Profile (a) Research Papers published in Refereed/Peer Reviews Journals:

- (1) **Rajesh Kumar Meena & Neelu Chouhan***Rapid Biosynthesis of Silver Nanoparticles using Fenugreek Seeds, , Proceeding of 3rd International Conference on “*Advance Trends in Engineering, Technology and Research*” (ICATETR-2014) held at Balkrishna Institute of Technology, IPR-15, Kota on 22-24 Dec.2014 pp 376-378.

- (2) Neelu Chouhan* & **Rajesh Kumar Meena** Biosynthesis Of Silver Nanoparticles Using *Trachyspermum Ammi* And Evaluation Of Their Antibacterial Activities, *J. Pharm. Biochemical Sciences*, 2015, 6(2): (B) 1077 – 1086 publisher STRP, (IF=2.958) e-ISSN : 2320-1924
- (3) **Rajesh Kumar Meena** and Neelu Chouhan* Biosynthesis of Silver Nanoparticles from Plant (Fenugreek Seeds) Reducing Method and their Optical Properties, *Research Journal of Recent Sciences*, Vol. 4(IVC-2015), 1-5 (2015) ISSN 2277-2502. (IF=1.089)
- (4) **Rajesh Kumar Meena** and Neelu Chouhan* ZnO Nanoparticles Synthesized by a Novel Approach at Room Temperature and Antibacterial activity, *American International Journal of Research in Formal, Applied & Natural Sciences*, 11(1), June-August 2105, pp. 68-72.
- (5) Neelu Chouhan, Rakshit Ameta, **Rajesh Kumar Meena**, Niranjana Mandawat, and Rahul Ghildiyal, Visible light harvesting Pt/CdS/Co-doped ZnO nanorods molecular device for hydrogen generation *International Journal of Hydrogen Energy*, 41(4) 2016, 2298-2306 (Elsewhere publications) (IF= 3.659) (doi:10.1016/j.ijhydene.2015.11.019)
- (6) **Rajesh Kumar Meena** & Neelu Chouhan,* Synthesis and characterization of Flower-shaped ZnO/Ag nanocomposite and Antibacterial Activities, *Proceeding of National Conference on “Green Chemistry and Sustainable Technologies for Society 2016” (NCGCSTS-2016) held at Government Women Engineering College, Ajmer on – 11-12, Jan.2016 pp-16-18.*
- (7) **Rajesh Kumar Meena** & Neelu Chouhan,* Biosynthesis of Silver Nanoparticles (Tea Leaves’) Reducing Method and their Optical Properties, *Research Journal of Recent Sciences* 5(11) 2016, 39-43.
- (8) **Rajesh Kumar Meena** & Neelu Chouhan,* Biogenic Silver Nanoparticle from *Trachyspermum Ammi* (*Ajwain*) Seeds Extract used in Catalytic Reduction of p-Nitrophenol to p-Aminophenol in excess of NaBH₄ (*Green Chemistry Journal*) Communicated.
- (9) **Rajesh Kumar Meena** & Neelu Chouhan,* Preparation of Nanocomposite like Nanolotus of Ag@ZnO/AgCl for Ecofriendly Hydrogen Generation, *International Journal of Hydrogen Energy* (Elsewhere publications) Communicated.

Research Project:

“Eco-friendly photocatalytic degradation of plastic waste for LPG production” Department of Science & Technology, Rajasthan, Rajesh K. Meena and Saurabh Jain **Amount Rs.13000 (2014-15)**

“Eco-friendly photocatalytic degradation of Colorful Dye Polymers using ZnO Nano Devices” Department of Science & Technology, Rajasthan, Rajesh K. Meena and Mukesh Nagar **Amount Rs.13000 (2015-16)**_Submitted

Publications Book Chapters: Author of Book Chapters

Co-Author of **SOLAR ENERGY CONVERSION AND STORAGE Photochemical Modes: Some Photochemical Modes**, (*Editors: Suresh C. Ameta, Rakshit Ameta*) Chapter 8 Hydrogen: An Alternative fuel Neelu Chouhan, Rajesh Kumar Meena and R. S. Liu, Apple Academics Press CRC Press, a Taylor & Francis Group, Florida- USA. 2015 (978-48-224630-8)

List of Chapters written in books of MSc Chemistry (Previous) programme published under UGC affiliated government University- Vardhaman Mahaveer Open University, Kota.

CH-01 Inorganic Chemistry

1. Unit -6 Crystallographic Symmetry
2. Unit -16 Energy levels of transition metal ions
3. Unit -18 Electronic spectra of complexes

CH-03 Physical Chemistry

4. Unit -2 Thermodynamic Chemistry

Research Paper Presentations in National and International Conferences / Symposia & workshop:

Participated and presented of this research work in around **60** National, International Conferences, workshop and Symposiums in different states (State University's, NIT's, BARC, Central University's and IIT's) of country.

Others fields exposed to:

Photocatalysis - Hydrogen production from water splitting, Nanomaterials Nanocomposite and optoelectronic devices, conducting organic materials, nano devices for water splitting, phosphor for LED, plasmonic materials etc.

Instruments experienced with:

UV-Visible Spectrophotometer	FTIR spectrometer
UV-DRS Spectrophotometer	ATR Spectrometer
Spectrofluorophotometer (PL)	Cyclic Voltammeter
High Temp. Tubular Furnace	Microwave
Ball Mill	Centrifuge
AAS	GC

Other Activities (TECHNICAL EXPERTISE)

- Diploma in Computer Application (**DCA**) 2007-2008
- Rajasthan state certificate in information technology (**RS-CIT**) 2013

CO-CURRICULAR ACTIVITIES

- **NCC C- Certificate** in "B" Grade (During Graduation 2009)
- **NCC B- Certificate** in "B" Grade (During Graduation 2008)

Achievements:

- **K.K. Banerjee Award in UGC-Sponsored National Conference on Modern Trends in Chemical Sciences** Organized by Department of Chemistry, Faculty of Science, Mohan Lal Sukhadia University, Udaipur, Rajasthan 30th – 31st January 2016
- **Campus Ambassador** of University of Kota in "**APOGEE 2016**" **The Annual Technical Festival of Bits Pilani** Organized by Birla Institute of Technology & Science, Pilani March 2016.
- **Campus Ambassador** of University of Kota in "**APOGEE 2015**" **The Annual Technical Festival of Bits Pilani** Organized by Birla Institute of Technology & Science, Pilani on 25th-29th March 2015.
- R.K.SANSTHAN Dedicated to Foster Entrepreneurship & Human Resource "**ENTREPRENEURSHIP AWARENESS CAMP**" (EAC) Sponsored by the **Department of**

science & technology (DST), Govt. Of India Organized at Govt. P.G. College, Sawai Madhopur 10-12 Oct 2008.

- Successfully Participated and Awarded Many type of Deistic level General Knowledge Quizzed, Drawing Quizzed and as well as Deistic level Bal vegan congress- 3 Jointly Organized by the **Department of science & technology (DST), Govt. of India.**

Memberships:

1. Life Membership of Association of Environmental Analytical Chemistry of India (AEACI), Mumbai (**LM- 235**) 2013.
2. Life membership of Indian society of technical Education, New Delhi (**LM- 86802**) 2012.
3. Society for Materials chemistry Maharastra, Mumbai (**LM- 760**) 2013.
4. Member of Soft Materials Research Society (**S012**) 2016.
5. Member of International Nanoscience Community (2016).
6. Member of Society of Environmental Toxicology and Chemistry (**Member No. 300006005**)
7. Member of SIAM(Society for Industrial and Applied Mathematics) (**Member No. 20060018**)
8. Member of International Association of Engineers (**Member No. 127260**)
9. Member of AOCS (**Member No. 540676**)
10. Affiliate membership of IUPAC.
11. Associate Member of Green Chemistry Society.
12. Member of Student Chemical Society With RSC.