




## KIRORI MAL COLLEGE, UNIVERSITY OF DELHI



Title	<b>Dr.</b>	First Name	<b>Vandana</b>	Last Name	<b>Meena</b>	Photograph
Designation	<b>Assistant Professor (Ad-hoc)</b>					
Address	<b>Department of Chemistry, Kirori Mal College, University of Delhi</b>					
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	Residence	<b>84, Ground Floor Priyadarshini Vihar Part I, Kalyan Vihar, New Delhi-110009</b>				
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<b>Educational Qualifications</b>						
Degree	Institution				Year	
10 <sup>th</sup>	<b>Govt. Girls Sr. Sec. School, Dadabari, Kota</b>				<b>2004</b>	
12 <sup>th</sup>	<b>Govt. Sr. Sec. School, Dadabari, Kota</b>				<b>2006</b>	
B.Sc.	<b>J.D.B Girls College, Kota</b>				<b>2010</b>	
M.Sc.	<b>Banasthali Vidyapith</b>				<b>2012</b>	
Ph.D.	<b>Indian Institute of Technology Roorkee, Roorkee, India</b>				<b>2019</b>	
<b>Career Profile</b>						
<b>Administrative Assignments</b>						
<b>Areas of Interest / Specialization</b>						
<b>Solid- state materials chemistry, <i>chemie-douce</i> synthesis, Magnetic Materials, Development of new 2D and 3D transition metal oxides, Novel synthetic strategies, structure- property correlation, advanced materials design</b>						
<b>Subjects Taught</b>						
<b>Analytical Biochemistry Pesticide Chemistry</b>						

Basic Analytical Chemistry  
Quantitative Methods of Analysis  
Organometallics, Bioinorganic Chemistry, Polynuclear Hydrocarbons and UV, IR Spectroscopy  
Chemistry of s- and p- block Elements, States of Matters & Chemical Kinetics  
INORGANIC CHEMISTRY– II, s- and p-Block Elements  
Atomic Structure, Bonding, General Organic Chemistry & Aliphatic hydrocarbon

Research Guidance

Publications Profile

a. Research Paper

“Tri- $\alpha$  PbO<sub>2</sub>-Type Fe–Sb Tungstate by Topotactic Ion Exchange of LiSbWO<sub>6</sub>. **Vandana Meena**, Jaideep Malik and Tapas Kumar Mandal. *ACS Applied Electronic Materials* 2021, 3, 2504-2511.

“Topotactic Ion Exchange in a Three Dimensional Close-Packed Trirutile Structure with an Octahedral Network”. **Vandana Meena** and Tapas Kumar Mandal. *ACS Inorg. Chem.* 2019, 58, 2921 -2924.

“pH-Mediated Collective and Selective Solar Photocatalysis by a Series of Layered Aurivillius Perovskites”. Gollapally Naresh, Jaideep Malik, **Vandana Meena** and Tapas Kumar Mandal. *ACS omega* 2018, 3, 11104-11116.

b. Books

c. Chapter in books

d. Articles/Research Paper in Books

e. Conference Proceedings

“Li<sub>0.08</sub>Fe<sub>0.46</sub>SbWO<sub>6</sub>: A New tri- $\alpha$ -PbO<sub>2</sub> Type Fe-Sb-Tungstate by Topotactic Ion Exchange of LiSbWO<sub>6</sub>” **Vandana Meena** & Tapas Kumar Mandal. **50th General Assembly & 47th IUPAC World Chemistry Congress, Paris, France, July 5 – 12, 2019.**

“Topotactic Transformation of Non-Magnetic Layered Titanates into Magnetic Titanates through Soft-Chemistry” **Vandana Meena** & Tapas Kumar Mandal. **23rd CRSI National Symposium in Chemistry (CRSI-NSC-23), IISER Bhopal, Bhopal, India, July 13 -15, 2018.**

“Collective and Selective Solar Photocatalysis by Bi<sub>5</sub>ATi<sub>4</sub>FeO<sub>18</sub> (A = Ca, Sr and Pb) Aurivillius Perovskites” **Vandana Meena** & Tapas Kumar Mandal. **23rd CRSI National Symposium in Chemistry (CRSI-NSC-23), IISER Bhopal, Bhopal, India, July 13 -15, 2018.**

***“Li<sub>(1-2x)</sub>Fe<sub>x</sub>NbWO<sub>6</sub>: A Novel Layered Trirutile Oxide obtained by Topotactic Ion -Exchange and its Magnetic Properties” Vandana Meena & Tapas Kumar Mandal. Modern Trends in Inorganic Chemistry–XVII, NCL Pune & IISER Pune, Pune, India, December 11 -14, 2017***

Conference / Workshops/Training Organized

Creation of ICT Mediated Teaching Learning Pedagogy and Content

Conference/Workshops/Training attended as Faculty Member

1. **“Colloquium on Bio Molecular Chemistry”**. KiroriMal College, University of Delhi, Delhi, 17<sup>th</sup> September, 2021.
2. **“UV- visible spectrometry and its applications”**. KiroriMal College, University of Delhi, Delhi, 19<sup>th</sup> July, 2021.
3. **“Emerging Trends and Future Challenges in Chemical Sciences” (ETFC-2021)**. KiroriMal College, University of Delhi, Delhi, 4<sup>th</sup> -5<sup>th</sup> March, 2021.
4. **“Innovation in Scientific Research Methods”**. KiroriMal College, University of Delhi, Delhi, 14<sup>th</sup> -18<sup>th</sup> Oct, 2020.
5. **2<sup>nd</sup> National Conference on “ Emerging Trends and Future Challenges in Chemical Sciences (ETFC-2020) KiroriMal College, University of Delhi, Delhi, January 10-11, 2020.**

Invited Lectures/Resource Persons

Research Projects (Major Grants/Research Collaboration)

Awards and Distinctions

**Qualified National Eligibility Test (JRF- NET) December 2012**  
**Junior and Senior Research Fellow (SRF), India 2013- 2019**

Association with Professional Bodies

Other Activities

Signature of Faculty Member

