



Multanimal Modi College

Modinagar-201204 (U.P.)

(Affiliated to Ch. Charan Singh University, Meerut)

(For Teaching Staff)

Dr(Mrs)		Komal		Gupta		Photograph
Designation	Assistant Professor					
Department	chemistry					
Address (Campus/D epartment)	Department of Chemistry, Multanimal Modi College Modinagar,					
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Web-Page						

EDUCATIONAL QUALIFICATIONS

Subject	Institution	Year	Details
Ph.D.	Indian Institute of Technology Roorkee	2019	Study of RNA-mediated fluorescing colloidal CdSenanostructures- enhanced photophysics

			and morphological transformation induced by conformational change in RNA
NET	CSIR NET-JRF Rank 19 GATE 2012 Rank -111	2012	Chemical Sciences
M.Sc. (Chemistry)	Mahatma Jyotiba Phule Rohilkhand University Bareilly Uttar Pradesh	2011	Specialization in Physical Chemistry
B.Sc.	Mahatma Jyotiba Phule Rohilkhand University Bareilly Uttar Pradesh	2009	Zoology, Botany, Chemistry

CAREERPROFILE

Organisation/ Institution	Designation	Duration	Role(s)
Multanil Modi College Modinagar	Assistant Professor	July 2019-Present	Teaching, Research
Indian Institute of Technology	Senior Research Fellow	2015-2018	Research
Indian Institute of Technology	Junior Research Fellow	2013-2015	Research

Research Interests/Specialization: Synthesis, Characterization and application of Nanomaterials – Semiconductor QDs, Metal nanoparticles Metal oxides, Nanocomposites, Biological Synthesis of different metals and metal oxides Their applications in biomedical and environmental remediation.

Teaching Experience (Subjects/Courses Taught): THREE YEARS – UG and PG Both

Orientation Courses/Refresher Courses/FDP:

Faculty Induction Programme (FIP) –

Third Online One Month Faculty Induction Programme organized by UGC-HRDC, Jamia Millia Islamia, New Delhi from 28th December 2020 to 02nd February 2021.

Publications (Last FIVE (05) Year Publications,

Year of Publication	Title	Journal/Book(s)	Co-Author(s)
2022	Book Chapter- Biosynthesis of Metal and Metal oxide nanoparticles: Mechanism and applications	Synthesis and Characterization Techniques in Materials Sciences	Komal Gupta, Basudha Sharma and Vijay Garg
2021	Book Chapter - Phytoremediation	Advances in agriculture, Technology and allied Sciences for sustainable Development	Basudha Sharma, Komal Gupta and Vijay Garg
2021	Book Chapter- Nanoparticles: Synthesis and Applications	Advances in agriculture, Technology and allied Sciences for sustainable Development	Vijay Garg, Basudha Sharma and Komal Gupta
2019	“Zn ²⁺ /Cd ²⁺ -RNA-mediated intense white-light-emitting colloidal CdSe nanostructures in aqueous medium – enhanced photophysics and porous morphology induced by conformational change in RNA, <i>J. Mater. Chem. C</i> , 2019, 7 , 692-708	<i>Journal of Materials Chemistry C</i> (IF- 7.393)	Komal Gupta Anil Kumar
2018	Supramolecular Assisted RNA-Templated Fluorescing Colloidal CdSe QDs Organized in Porous Morphology in the Presence of 1,3-Diaminopropane – Study of Their Multifunctional Behavior, <i>J. Phys. Chem. C</i> , 122, 7898-7915, 2018.	<i>Journal of Physical Chemistry C</i> (4.126)	Komal Gupta Anil Kumar
2017	RNA-Mediated Fluorescent Colloidal CdSe Nanostructures in Aqueous Medium - Analysis of Cd ²⁺ Induced Folding of RNA Associated with Morphological Transformation (0D To 1D), Change in Photophysics and Selective Hg ²⁺ Sensing,” <i>J. Phys. Chem. C</i> , 121, 6146-6163, 2017.	<i>Journal of Materials Chemistry A</i> (IF- 12.73)	Komal Gupta Anil Kumar
2015	Photophysical Aspects of Varying Zn ²⁺ /PbSe Nanostructures Mediated by RNA Leading to the Formation of Honeycomb-like Novel Porous Morphology, <i>J. Phys. Chem. C</i> , 119, 6314–6323, 2015.	<i>Journal of Physical Chemistry C</i> (IF- 4.126)	Anil Kumar Bhupender Singh Komal Gupta

Conference Presentations: National / International

1. **Komal Gupta**, “ Synthesis and applications of Vachellianilotica plant-extract mediated ZnO nanoparticles: a greener approach for cleaner future” **Oral Presentation in International Conference on Green Technology : Issues and Challenges (ICGT-2022)**, Jointly Organized by Centre for International Cooperation CCS University & The Indian Science Congress Association Haridwar Chapter during **September 22-24, 2022**
2. **Komal Gupta**, “Plant-Extract mediated ZnO nanoparticles synthesis and application” **Oral Presentation in 4th International Conference on Science and Engineering of Materials (ICSEM-2021) Online Conference**, Organized by Sharda University on 19-22 July 2021
3. **Komal Gupta**, “ Integration of Biomedical Nanotechnology: An origination for Personalized Medicine” Paper Presented in **National Seminar on Bioinformatics: Concept, Application and Skill Development**” Organized by Multanimal Modi College Modinagar on 8 February 2020.
4. **Komal Gupta**, “Nanomaterials: Tool for Waste Management” Paper presented in **National Seminar on Waste Management: Role of Chemistry**, Organized by Department of Chemistry, DAV (P.G) College Kanpur on 22-23rd January 2020.
5. **Komal Gupta** and **Anil Kumar** “Multifunctional Features of RNA Mediated CdSe Nanostructures” **Poster** presented in **ACS on Campus IIT Roorkee** held at IIT Roorkee, Roorkee on 7th Feb 2018.
6. **Komal Gupta** and **Anil Kumar** “Mechanistic Analysis Of Fluorescence Behavior of RNA-Mediated Colloidal CdSe Nanostructures For Hg²⁺ Sensing”, **Poster** presented in **Trombay Symposium on Radiation & Photochemistry (TSRP-2018)**, organized by BARC, Mumbai during 03 Jan - 07 Jan 2018, P. 90.
7. **Komal Gupta** and **Anil Kumar** “RNA-mediated fluorescent water soluble colloidal CdSe nanostructures for environmental applications “**Poster** presented in the **International conference on Advances in Materials & Processing: Challenges & Opportunities (AMPCO 2017)** held at IIT Roorkee, Roorkee India during 30 Nov-2 Dec, 2017, P. 152.
8. **Komal Gupta**, **Bhupender Singh** and **Anil Kumar** “Photophysical Behavior of Zn²⁺/PbSe Nanostructures in the presence of Nile Blue: An Analysis of its Adsorption Behavior” **Poster** presented in the **International conference on advance Material for Energy Environment and Health. (ICAM-2016)**, held at IIT Roorkee, Roorkee India during March 4 -7, 2016, P. 102.

Administrative Responsibilities

Member – Publication Division – Multanimal Modi College Modinagar – 2019 -20, 20-21, 21-22
Member – Women Cell – Multanimal Modi College Modinagr – 2020 to Present
Member – Sports committee – Multanimal Modi College Modinagar –2019-20
Member – Industrial – Academic Integration and skill development Cell- 2021
In-Charge –Departmental Library – 2019- 2021
Incharge– Departmental Council – 2019 to Present
Organizing Secretary – National Seminar on Bioinformatics: Concepts, Application & Skill development at M.M. College Modinagar

(Signature of Faculty Member)

(Signature & Stamp of Teacher In-Charge/Principal)