



# Shivaji College Faculty Details Proforma



<b>Title</b>	Dr.	<b>First Name</b>	RANGNATH	<b>Last Name</b>	RAVI	<b>Photograph</b>
<b>Designation</b>	Assistant Professor					
<b>Address</b>	Vasant Kunj, New Delhi, 110070					
<b>Office Phone No.</b>						
<b>Residence</b>						
<b>Mobile</b>	8287682353					
<b>Email</b>	<a href="mailto:ragnathravi@gmail.com">ragnathravi@gmail.com</a> , <a href="mailto:ragnathravi@shivaji.du.ac.in">ragnathravi@shivaji.du.ac.in</a>					
<b>Web-Page</b>	<a href="https://scholar.google.com/citations?user=U63HlpIAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=U63HlpIAAAAJ&amp;hl=en</a>					
<b>Educational Qualifications</b>	Ph.D					
<b>Degree</b>	<b>University/Institute</b>			<b>Year</b>		
Ph.D.	JAMIA MILLIA ISLAMIA			2019		
M.Phil./M.Tech.	-			-		
PG	UNIVERSITY OF DELHI			2013		
UG	UNIVERSITY OF DELHI			2010		
<b>Any Other Qualification</b>	UGC JRF - AIR 31 IIT GATE			2015		
<b>Career Profile</b>						
<ul style="list-style-type: none"><li>Assistant Professor (Permanent) in Department of Chemistry, Shivaji College, University of Delhi from 12-02-2024 to Till date.</li><li>Assistant Professor (Ad-hoc) in Department of Chemistry, Shivaji College, University of Delhi from 05-01-2022 to 10-02-2024.</li><li>Assistant Professor (Guest) in Department of Chemistry, Sri Aurobindo College, University of Delhi from 02-08-18 to 24-04-21.</li></ul>						
<b>Administrative Assignments</b>						
•Examiner (paper setter) for NEP-UGCF-2022 Part I (Semester II) Examination July 2023 (Paper: GE: CHEMICAL KINETICS AND PHOTOCHEMISTRY Unique Paper Code : 2174001207).						
<b>Areas of Interest/Specialisation</b>						
Physical Chemistry, Nanochemistry, Cancer Biology, Drug Delivery, Water Treatment						



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## Subjects Taught

Chemical Kinetics  
Photochemistry  
Electrochemistry  
Thermodynamics  
Science and Society (VAC)  
Nanochemistry  
IT Skills for Chemist

## Innovation Project/Research Projects (Major Grants/Research Collaboration)

Project Title: **Optimal design of questionnaire survey on awareness of clinical trials among different stakeholders.**

Funding Agency: NHRC, Delhi

Grant - 11.68 Lakh

Year-2022

Role- Co-PI

## Publications Profile (Research Papers/Books)

**Total Citations: 107, h-index: 5, i-10 index: 3**

- 1) **Ravi, Rangnath**, Iqbal, S., Ghosal, A., & Ahmad, S. (2019). Novel mesoporous trimetallic strontium magnesium ferrite (Sr<sub>0.3</sub>Mg<sub>0.7</sub>Fe<sub>2</sub>O<sub>4</sub>) nanocubes: a selective and recoverable magnetic nano-adsorbent for Congo red. *Journal of Alloys and Compounds*, 791, 336-347. **(I.F-6.2)**
- 2) **Ravi, Rangnath**, Mishra, A., Anamika, & Ahmad, S. (2022). Fabrication of superparamagnetic bimetallic magnesium nanoferrite using green polyol: characterization and anticancer analysis in vitro on lung cancer cell line A549. *ACS Applied Bio Materials*, 5(11), 5365-5376. **(I.F-4.7)**
- 3) **Ravi, Rangnath**, Zeyauallah, M., Ghosh, S., Khan Warsi, M., Baweja, R., AlShahrani, A. M., & Ahmad, R. (2022). Use of gold nanoparticle-silibinin conjugates: A novel approach against lung cancer cells. *Frontiers in Chemistry*, 10, 1018759. **(I.F-5.5)**
- 4) Awasthi, A., Kumar, N., Mishra, A., **Ravi, Rangnath**, Dalal, A., Shankar, S., & Chandra, R. (2022). Noscapine-Amino Acid Conjugates Suppress the Progression of Cancer Cells. *ACS Pharmacology & Translational Science*, 5(12), 1292-1304. **(I.F-6.0)**
- 5) Fatima, B., Alwan, B. A., Siddiqui, S. I., Ahmad, R., Almesfer, M., Khanna, M. K., Mishra, R., **Ravi, Rangnath**, Oh, S. (2021). Facile synthesis of Cu-Zn binary oxide coupled cadmium tungstate (Cu-ZnO-Cp-ct) with enhanced performance of dye adsorption. *Water*, 13(22), 3287. **(I.F-3.4)**
- 6) Koranne, A., Kurrey, K., Kumar, P., Gupta, S., Jha, V. K., **Ravi, Rangnath**, ... & Jha, A. K. (2022). Metal catalyzed C-H functionalization on triazole rings. *RSC advances*, 12(42), 27534-27545. **(I.F-3.9)**
- 7) Koranne, A., Turakhia, S., Jha, V. K., Gupta, S., **Ravi, Rangnath**, Mishra, A., ... & Jha, A. K. (2023). The Mizoroki-Heck reaction between in situ generated alkenes and aryl halides: cross-coupling route to substituted olefins. *RSC advances*, 13(32), 22512-22528. **(I.F-3.9)**



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- 8) Kumar, S., **Ravi, Rangnath**, Sahu, T., Kumar Jha, V., Baweja, R., & Jha, A. K. Metal-Catalyzed Oxidative C-H Bond Functionalization of 1, 4-Benzoxazinones. *Asian Journal of Organic Chemistry*, e202400028. (I.F-2.7)
- 9) **Ravi, Rangnath**, Mishra, A., Preparation of Bimetallic and Trimetallic Nanomaterials and their Role in Waste Water Treatment: A Review. *Biosc.Biotech.Res.Comm.* 13,3 (2020) 1566-1575.
- 10) **Ravi, Rangnath**, Mishra, A., Biomedical Properties for Cancer Therapeutics and Management. *Biosc.Biotech.Res.Comm.* Vol 13(4) Oct-Nov-Dec 2020 Pp-1717-1722.
- 11) Kaul,S., Mishra, A., **Ravi, Rangnath**, Preparation of Silver Nanoparticles (AgNPs) using Different Plants and Their Antibacterial and Antifungal Properties: A Review, *Biosc.Biotech.Res.Comm.* Vol 13(4) Oct-Nov-Dec 2020 Pp- 2360-2365.
- 12) **Ravi, Rangnath**, Mishra, A., Preparation of Iron Nanoparticles and Composites for Arsenic Removal: An Updated Review, *Biosc.Biotech.Res.Comm.* Vol 14 No (1) Jan-Feb-March 2021 Pp 83-89.

#### Book Chapters:

- 1) **Ravi, Rangnath**, Iqbal, S., Anujit, G., & Sharif, A. (2018). Carbon Nanotubes-Based Adsorbent: An Efficient Water Purification Technology. In *Engineered Carbon Nanotubes and Nanofibrous Material* (pp. 143-166). Apple Academic Press.
- 2) Iqbal, S., **Ravi, Rangnath**, Ghosal, A., Bhattacharya, J., & Ahmad, S. (2018). Advances in Carbon Nanotube-Based Conducting Polymer Composites. In *Engineered Carbon Nanotubes and Nanofibrous Material* (pp. 127-141). Apple Academic Press.
- 3) Mishra, A., Ghosal, A., **Ravi, Rangnath**, & Singh, N. (2020). Biomedical Application of Hydrogels and Their Importance. In *Intelligent Hydrogels in Diagnostics and Therapeutics* (pp. 85-91). CRC Press.
- 4) Siddiqui, S. I., **Ravi, Rangnath**, Rathi, G., Tara, N., ul-Islam, S., & Chaudhry, S. A. (2018). Decolorization of textile wastewater using composite materials. *Nanomaterials in the wet processing of textiles*, 187-218.

#### Conference/Seminar/Faculty Development Programme/Workshop

- 1) **Invited Speaker** in 8th World Cancer Congress-2024 on the topic “**Gold Bhasma as a Potential anti-cancer agent in Ovarian Cancer**” from 18th -20th March 2024 at New Delhi, India.
- 2) **Keynote Speaker** in National Science Day Celebration-2024 on the topic “Indigenous Technology for Viksit Bharat” organized by Govt. Shivnath Science College, Rajnandgaon, Chattishgarh and Sponsored by Chattishgarh Council for science and Technology (CCOST) and NCSTC, DST, Government of India from 26th February to 28th February, 2024.
- 3) **Resource person** in Two-day National Conference Jointly organized by Saraswati Shiksha Mahavidyalaya, Ambikapur and Jan Shikshan Sansthan, Surguja, Chattishgarh held on 29th August 2023.
- 4) Presented a Paper of Title “**Cancer Management using Indian Knowledge System**” in International Conference organized by Shaikshik Foundation in Collaboration with Shivaji College, University of Delhi on “Resurgent Bharat on the Global Canvas” held on 25th -26th February, 2024.
- 5) Online “NEP 2020 Orientation & Sensitization Programme (16th February – 29th February, 2024) under MM-TTP organized by Mahatma Hansraj Malaviya Mission Teachers Training Centre (MH-MMTTC), Hansraj College, University of Delhi.



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- 6) Poster presented in University of Delhi, International Conference on “Advancing Green Chemistry: Building a Sustainable Tomorrow”.
- 7) Poster presented in IIT Delhi in “NANO INDIA 17” on the topic- Synthesis of  $Sr_xMg_{1-x}Fe_2O_4$  by oleo-polyol method.
- 8) Poster presented in JMI Delhi in “RAC- 17” on the topic- Synthesis of Mixed ferrite using green solvent.
- 9) Workshop on “Physical Property Measurement System (PPMS) and its applications” held on 28th September 2016 in AIRF, JNU.

## Research Guidance (*Supervision of Doctoral Thesis/Dissertations*)

## Awards and Distinctions

## Memberships

- Lifetime member of “European Society for Medical Oncology”

## Other Academic Activities

- Resource Person of the Inter-College Summer Training Program on “**Green Fabrication of Nanostructures and their Characterization**” organized by Department of Chemistry, Shivaji College under the aegis of DBT Sponsored Star College Scheme from 15th June - 30th June 2023.

## Cultural/Extracurricular Activities



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- 1) Organizing Committee member in “Shivraj 350” held on 19th February 2024 in Shivaji College, University of Delhi.
- 2) Organizing Committee member “Vibrations 24” The Annual Cultural Fest of Shivaji College, University of Delhi held on 7th and 8th March 2024.
- 3) Organizer in Academic & Cultural Program “Celebrating Indo-French relations in the wake of India’s G20 Presidency” organized on September 2023, by Cultural Council University of Delhi with Nodal Centre Bhaskaracharya College of Applied Sciences in Collaboration with Shivaji College and Shyama Prasad Mukherji College for Women.
- 4) Debating Society “Dictum” Teacher Co-ordinator From 2022.
- 5) Cultural Committee member from 2022.

Rangnathkaur

**Signature of Faculty Member**