



# Sonia Khurana

Elsevier | Scientific Editor | Ph.D. Nanobiochemistry | Research Associate

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## Summary

- Experienced nanobiomedical research scientist with **6+** year research experience specializing in nanomaterial based cancer therapeutics, antiviral therapy and biosensing applications.
- Skilled scientific communicator; presented research work in **5+** international conferences, authored **10** peer-reviewed scientific publications and **2** book chapters.
- Currently serving as scientific editor at Elsevier handling biochemistry journals
- Skilled in submission evaluation, external coordination, and Editorial Manager workflow

## Areas of Expertise

Scientific writing & editing | Grant writing | Peer reviewing | Content development | e-learning modules | Project management | Team lead | Interdisciplinary research | Data Analysis | Presentation | Poster designing

## Experience

**Associate Scientific Editor** (Sep 2023 - Present)

Elsevier- YBBRC

- Evaluating and screening submissions to assess their potential for publication
- Effectively coordinating with external editors and authors to ensure a timely action
- Proficient in using Editorial Manager for effective workflow management

**Project Research Associate** (Mar 2023 – July 2023)

Department of Chemistry | University of Delhi

ASEAN-India (Malaysia-Thailand-India) collaborative R&D project entitled: "Nanocarrier mediated targeting of viral proteins: Approach for combating Covid-19"

- Polymer synthesis, purification, characterization and conjugation to nanobodies
- Data analysis, project report writing and submission

**Ph.D. scholar** (Apr 2016 - Feb 2022)

Department of Chemistry | University of Delhi

Dissertation: Chitosan and citrate-based gold nanoparticles for biomedical applications

- Authored **10 journal articles** and **2 book chapters**
- Assisted in **4 grant proposal writing**
- Setup and managed instrumentation lab from ground up

**Academic Content developer (Chemistry)** (Aug 2015 – Mar 2016)

Evelyn Learning System | New Delhi

- **Lead team** of **9** content developers and freelancers to meet content timeline
- Managed the chemistry content, e-learning modules and solution writing operations for **7+ projects** (plan, process, implemented, and completed within deadline)
- Worked with overall Science coordinator










## Editorial skills

- Manuscript evaluation and skilled in using Editorial Manager
- Tools driven approach- familiar with common writing tools (**Grammarly, Quillbot, Paperpal**) and reference managing tools (**Endnote, Mendeley, Zotero**)
- Peer reviewing for reputed journals, like **BBA-General subjects** and **Spectrochimica Acta A**



## Education

- **M.Sc. Chemistry (2012-14)** Ramjas College, University of Delhi, Delhi
- **B.Sc. (2009-12)** Kurukshetra University, Haryana

## Journal Publications & Book Chapters

1. **Sonia**, S. Kukreti, M. Kaushik\*. *International Journal of Biological Macromolecules*, 2023, 253 (3), 126835.  [I.F. = 8.2]
2. **Sonia**, A. Singh, Shivangi, ...M. Kaushik\*. *Biomaterials Advances*, 2022, 112678.  [I.F. = 7.328]
3. **Sonia**, Komal, S. Kukreti, M. Kaushik\*. *Talanta*, 2021, 122623.  [I.F. = 6.556]
4. **Sonia**, S. Kukreti, M. Kaushik\*. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2020, 246, 119039.  [I.F. = 4.831]
5. **Sonia**, Komal, S. Kukreti and M. Kaushik\*. *International Journal of Biological Macromolecules*, 2018, 115, 801-810.  [I.F. = 8.2]
6. A. Singh, Shivangi, **Sonia**, P. Kumar, S. Kukreti, M. Kaushik\*. *Journal of Drug Delivery Science and Technology*, 2023, 104523.  [I.F. = 5.062]
7. Komal, **Sonia**, S. Kukreti, M. Kaushik\*. *Journal of Biomolecular Structure and Dynamics*, 2022, 1-17.  [I.F. = 4.15]
8. Komal, **Sonia**, S. Kukreti, M. Kaushik\*. *Journal of Photochemistry and Photobiology B: Biology*, 2019, 194, 158-165.  [I.F. = 6.814]
9. M. Kaushik\*, **Sonia**, Komal, S. Kukreti. *Current Pharmaceutical Design*, 2018, 24, 1-13.  [I.F. = 3.551]
10. M. Kaushik\*, **Sonia**, S. Mahendru, S. Kukreti. *Integrated Ferroelectrics*, 2017, 1-10.  [I.F. = 0.84]

## Book Chapters

1. M. Kaushik, S. Chaudhary, **Sonia**, ....S. Kukreti. *Applications of NMR Spectroscopy*, 2019, 7, 1-20. 
2. M. Kaushik, S. Mahendru, M. Kumar, S. Chaudhary, S. Ahmed, **Sonia**, S. Kukreti. *Frontiers in Drug Design & Discovery*, 2018, 99: 35-90. 

## Accomplishments

- **Senior Research Fellowship & Junior Research Fellowship** from CSIR (2018-2022)
- **AIR 70** - CSIR-JRF |Chemical Sciences (Dec'17)
- **AIR 228** - GATE (2017)
- **AIR 6** - CSIR LS-NET |Chemical Sciences (Jun'15)
- **Rank 1** - Delhi University Ph.D. Entrance Exam
- **Rank 9**- Delhi University M.Sc. Entrance Exam

## Conferences/Presentations

1. **Talk** at National seminar, BIOPHYSIKA-2019 organized by Jamia Millia Islamia on 4 October, 2019.
2. **Poster presentation** at 6th World Congress organized by Jamia Hamdard & DU in January 2019.
3. **Poster presentation** at the international conference ETDDNP-18 organized by DU in January 2018.
4. **Poster presentation** at Indo-Hungarian symposium, INHCAB-2017 organized by DU in December 2017.
5. **Poster presentation** at National Conference organized by Aditi Mahavidyalaya in October 2017.
6. **Poster presentation** at Biotikos 2017 organized by TERI University in September 2017.

## Research Expertise

- Nanoparticles synthesis, characterization, surface modification, drug loading, *in vitro* cell studies, electrophoretic assays; Organic synthesis, purification & characterization
- **Techniques:** UV-Vis, CD, UV-thermal melting, FTIR, SEM, TEM, DLS, FESEM, XRD, fluorescence, zeta potential, Cytotoxicity assay, Cellular uptake studies, Column chromatography, NMR, MS, IR, Agarose gel, Native and Denaturing PAGE, SDS-PAGE, Western Blotting
- **Tools:** Origin, Chemdraw, Mnova, Scifinder, Pymol, Autodock, BLAST, Image J, Discovery Studio