

# Curriculum Vitae

## Ajay Shankar, PhD

Assistant Professor

Department of Chemistry

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### Academic details and professional experiences

2017 - till date, Assistant Professor, Department of Chemistry, Indira Gandhi National Tribal University, M.P., India.

2016 - 2017, Postdoctoral Fellow, Institute of Natural Sciences and Mathematics, Ural Federal University, Russia. (Research Advisors: Prof(s). A.P. Safronov and A.Y. Zubarev)

2015, Ph.D., University of Delhi and CSIR-National Physical Laboratory, India.

2009, M.Sc. Chemistry, University of Delhi, India.

2007, B.Sc. (H) Chemistry, University of Delhi, India.

### Awards and fellowships

- Young Scientist award by MP Council of Science and Technology, 2018
- UrFU Postdoctoral research fellowship, 2016.
- CSIR-JRF (NET) fellowship, June 2009.

### Selected publications (\* Corresponding author)

1. Ferrogels based on entrapped metallic iron nanoparticles in polyacrylamide network: Extended Derjaguin-Landau-Verwey-Overbeek consideration, interfacial interactions and magnetodeformation, **A. Shankar\***, A. P. Safronov, E. A. Mikhnevich, I. V. Beketov, G. V. Kurlyandskaya, *Soft Matter (RSC)*, 2017, 13, 3359-3372.

<http://dx.doi.org/10.1039/C7SM00534B>

2. Multidomain iron nanoparticles for the preparation of polyacrylamide ferrogels, **A. Shankar\***, A. P. Safronov, E. A. Mikhnevich, I. V. Beketov, *Journal of Magnetism and Magnetic Materials (Elsevier)*, 2017, 431, 134-137.

<http://dx.doi.org/10.1016/j.jmmm.2016.08.075>

3. Low temperature FMR investigations on double surfactant water based ferrofluid, **A. Shankar**, M. Chand, G. A. Basheed, S. Thakur, R. P. Pant\*, *Journal of Magnetism and Magnetic Materials (Elsevier)*, 2015, 374, 696-702.

<http://dx.doi.org/10.1016/j.jmmm.2014.09.038>

4. Improved magnetoviscous properties of bidispersed Magneto-rheological fluids, M. Chand, **A. Shankar**, Noorjahan, K. Jain, R. P. Pant\*, *RSC Advances (RSC)*, 2014, 4, 53960-53966. <http://dx.doi.org/10.1039/c4ra07431a>

### Patent

1. A Ferrofluid-MWCNT nanocomposite in liquid state, R. P. Pant, **A. Shankar**, K. Jain, Sonia, M. Chand, US Patent: US 20150371776 A1 (2015). Indian Patent: 1673DEL2014 (2014).

*Full publication list is available at ORCID (ID: 0000-0002-8483-9377).*

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