

Suresh Bhat



Contact Information:

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Current Research Interests

- Structure-property relationships in complex fluids
- Structure, dynamics & rheology of stimuli responsive gels
- Synthesis & characterization of nanoparticles/core-shell nanoparticles
- Development of novel scattering & imaging tools for soft matter research

Education

- Ph.D, Physics, Indian Institute of Technology, Delhi, 1999
- M.Tech, Applied Optics, Indian Institute of Technology, Delhi, 1993

Experience

- 2006-Till date, Scientist E1, National Chemical Laboratory, Pune
- 2003-2006: Consultant, LS Instruments GmbH, Switzerland
- 2002-2006: Nestle Postdoctoral Fellow, Department. of Physics, University of Fribourg, Switzerland
- 2000-2002: JSPS Postdoctoral Fellow, Department of Advanced Materials Science, Faculty of Engineering, University of Tokyo, Hongo, Japan
- 1999-2000 Visiting research fellow, Department of Physics, Chinese University of Hong Kong, Hong Kong

Technical skills

- Hands on experience in building novel light scattering/rheo-optics instruments, experience in using various imaging techniques.

Achievements

- Awarded postdoctoral fellowship by Japanese Society for Promotion of Science (JSPS) in 2000
- Intl. conference talks: 7; Poster Presentations: 4

Interactions with Industry

- Sponsored projects with Asian Paints Ltd, Dow Chemicals, Lupin Pharmaseuticals and Emcure Pharmaseuticals

Select Publications

- C. Moitzi, R. Vavrin, **S. Bhat**, A. Stradner, P.Schurtenberger, *J. Colloid Int. Sci.*, **336**(2), 565-574 (2009)
- C.V. Joshi, V. Ghormade, P. Kunde, P. Kulkarni, H. Mamgain, **S. Bhat**, K.M. Paknikar, M.V. Deshpande, *Bioresource Technology* (2009) – Accepted for publication
- S.P. Nagarkar, A.J. Patil, A.K. Lele, **S.Bhat**, J. Bellare, R.A. Mashelkar, *Ind. Eng. Chem. Res.* **48**, 8014-8023 (2009)
- A. Shalkevich, A. Stradner, **S. Bhat**, F. Muller & P. Schurtenberger, *Langmuir*, **23**(7), 3570, 2007
- **S. Bhat**, R. Tuinier & P. Schurtenberger, *J. Phys.: Cond. Mat.* **18**, L339-L346 (2006)
- P. Zakharov, **S.Bhat**, P. Schurtenberger & F. Scheffold, *Applied Optics*, **45**, 1756-1764 (2006)
- **S. Bhat**, K.Pal & S. Chopra, *Expts. In Fluids*, **28**, 160 (2000)
- **S. Bhat**, S. Rai, A.K. Razdan & S. Chopra, *Phy. Rev. E* **50**, 5127 (1994)
- S. Chopra, **S. Bhat**, J. Joseph, S. Rai & J. Rai, *Opt. Commun.*, **109**, 205 (1994)