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M.Sc. PH.D. (ITALY)

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LINK: [PROFILE DATA](#)

SUBJECTS

Chemistry
Polymer chemistry
Industrial chemistry
Nanomaterial chemistry
Surface chemistry
Colloidal chemistry

EDUCATION

- Ph.D. (Polymer hybrid nanomaterials chemistry) University of Genova, Italy.
- M.Sc. (Chemistry) Shivaji University, Kolhapur, India.

EXPERIENCE

- **July 2018–to date:** Assistant professor of chemistry
School of Nanoscience & Technology, Shivaji University, Kolhapur, India.
- **May 2011–July 2018:** Research associate & post-doc. researcher
Department of chemistry, Polytechnic University of Torino & University of Torino, Italy.
- **May 2010–March 2011:** Post-doc. researcher
Department of chemistry, University of Pavia, Italy.
- **Jan. 2006–March 2010:** Doctorate (Ph.D.) researcher
Department of chemistry, University of Genova, Italy.
- **Oct. 2003–Dec. 2005:** Research project assistant
Polymer chemistry division, CSIR's National Chemical Laboratory (NCL) Pune, India.

RESEARCH AREAS/INTERESTS

- Synthesis and surface modifications of nanoparticles with organic compounds and polymers for various applications.
- Synthesis of stimuli-responsive polymer-grafted silica and porous silica nanoparticles for biomedical and environmental remediation applications.
- Synthesis and testing of various polymer nanocomposites for different applications.
- Synthesis and surface modifications of gold, silver, iron oxide & silica nanoparticles.
- Surface engineering of 2-D and 3-D nanomaterials for switchable surface properties.
- Synthesis, characterization and testing of various core-shell, composite and polymer grafted nanoparticles for catalysis, energy and environmental remediation applications.

FELLOWSHIPS

- Winner of German Academic Exchange Program's (DAAD) Ph.D. fellowship.
- Winner of international Ph.D. fellowship by University of Genova, Italy.
- Post-doc fellowship jointly by Rockwood pigments U.S.A./Italy project in association with Polytechnic University of Torino (Politecnico di Torino), Italy.
- Post-doc fellowships by Italian universities and ministry of education and research.
- Senior P.D.R.A. fellowship jointly by Roquette Ltd. France and University of Torino, Italy.

MEMBERSHIPS

Society for polymer science (SPS), India

Italian Chemical Society (ICS), Italy

International Association of Advanced Materials (IAAM), Sweden

CLASSIFICATION

Polymeric nanomaterials

Nanomaterial synthesis

Polymer grafted nanomaterials

Polymer nanocomposites

RESPONSIBILITIES

Actively working as reviewer for well-known scientific journals

Member of the project proposal review committees

AUTHOR IDS

ORCID

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Scopus ID

24278842900

AWARDS

- University merit scholarship award for meritorious performance in M.Sc. exams by Shivaji University, Kolhapur, India.
- Best science communication award by Society for Polymer Science, Pune, India.
- Literati award, by Emerald Publications, London.
- Editor's choice and cover page article award by Wiley publications.
- "Seal of Excellence" for project developed in Horizon 2020 program.
- Outstanding reviewer certificate award by Int. J. Pharm. (Elsevier).

APPOINTMENTS / ACTIVITIES

- Coordinator of collaboration network consortium with members from India and Germany, Ireland, Spain, Italy, Czech Republic, U.K., France and Sweden.
- Member of the proposal review committee for research grants by Polish Academy of Sciences, National Science Center, Poland and Czech Science Foundation, Czech Republic.
- Reviewer for 31 journals from leading publishers such as ACS, RSC, Elsevier, Springer etc.
- Member of the reviewer board of Journal of Composite Science.
- Attendance to various international conferences in India and abroad as participant and also as resource person for invited talks.
- Delivered several invited guest lectures in government and private universities.
- Thesis guidance and practical assistance to graduation, masters and Ph.D. students in Italy and exchange program students from India, France, Poland, U.K., Iran, Brazil and Argentina.
- Languages: Marathi (Mother tongue), Hindi, English, Italian.

PUBLICATIONS (Data until March 2021 only)

- Papers **71**. Citations ~ **1521**. H index **22**, Hi index **39**. (combined data till Mar. 2023 only)
- **List of some representative publications:**
 1. Poly(N-isopropylacrylamide) (PNIPAM) based synthetic hydrogels as novel precipitation and stabilization media for solid lipid nanoparticles (SLNs). Jadhav S. A.*; Brunella V.; Sapino S.; Caparelli B.; Gallarate M. *J. Colloid Interf. Sci.*, 2019, 541, 454. (I.F. 10.0)
 2. Synthesis and in vitro testing of thermoresponsive polymer-grafted core-shell magnetic mesoporous silica nanoparticles for efficient controlled and targeted drug delivery. Perlata, M.; Jadhav S. A.*; Carlos L.; Magnacca G.; Scalarone D. *J. Colloid Interf. Sci.*, 2019, 544, 198. (I.F. 10.0)
 3. Incredible pace of research on mesoporous silica nanoparticles. Jadhav S. A. *RSC Inorg. Chem. Front.* 2014, 1, 735. (I.F. 7.8)
 4. Functional self-assembled monolayers of organic compounds on gold nanoparticles. Jadhav S. A. *J. Mater. Chem.* 2012, 22, 5894. (I.F. 14.51)
 5. Optical properties of disulfide-functionalized diacetylene self-assembled monolayers on gold: a spectroscopic ellipsometry study. Prato M.; Alloisio M.; Jadhav S. A.; Chincarini A.; Svaldo-Lanero T.; Bisio F.; Canepa M. *J. Phys. Chem. C (ACS)*, 2009, 113, 20683. (I.F. 4.19)
 6. Polydiacetylene functionalized noble metal nanocages. Demartini A.; Alloisio M.; Dellepiane G.; Jadhav S. A.; Thea S.; Giorgetti E.; Gellini C.; Muniz-Miranda M. *J. Phys. Chem. C (ACS)*, 2009, 113, 19475. (I.F. 4.19).