

Prof. (Dr.) Sanjay Shamrao Chavan

M. Sc., Ph. D. PDF (ANU, Australia)

BOYSCAST (India) & ENDEAVOUR (Australia) Fellow

Head, Department of Chemistry

Former Head, Department of Agrochemicals & Pest Management

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Teaching Experience: **34 Years**

Research Experience: **28 Years**

Administrative Experience: **6 Years**

ACADEMIC CREDENTIAL:

• Post-Doctoral Research	Monash University, Clayton, Victoria 3800, Australia	2015-2016
• Post-Doctoral Research	Australian National University, Canberra, Australia	2007-2008
• Post-Doctoral Research	Indian Institute of Science (IISc), Bangalore, India	2005-2006
• Ph. D.	Shivaji University, Kolhapur, Maharashtra, India	1999-2002
• M. Sc.	Shivaji University, Kolhapur, Maharashtra, India	1988-1990
• B. Sc.	Shivaji University, Kolhapur, Maharashtra, India	1985-1988

ACADEMIC POSITIONS

• 2020-Till today	Sr. Professor, Dept. of Chemistry, Shivaji University, Kolhapur
• 2009-2020	Professor, Dept. of Chemistry, Shivaji University, Kolhapur
• 2003-2008	Reader/Associate Professor, Dept. of Chemistry, Shivaji University, Kolhapur
• 1998-2002	Sr. Lecturer, K. B. P. College, Urun-Islampur (Sangli)
• 1991-1998	Lecturer, K. B. P. College, Urun-Islampur (Sangli)

ADMINISTRATIVE EXPERIENCE

- Head Department of Chemistry, Shivaji University, Kolhapur from 9 Jan. 2026 to date
- Head Department of Agrochemicals and Pest Management, Shivaji University, Kolhapur 1 June 2016 to 31 May 2022
- Convener National Conference on 'Frontiers in Chemical and Material Sciences (**FCMS-2015**)-16, 17 Jan. 2015-Organized by Department of Chemistry, Shivaji University, Kolhapur
- Convener National Conference on 'Recent Advances in Agrochemicals and Integrated Pest Management (**RAAIPM-2018**) - 6, Mar. 2018-Organized by Department of Agrochemicals and Pest Management, Shivaji University, Kolhapur

AWARDS AND HONOURS

- **Teacher Fellowship-1999**-University Grants Commission (UGC), Govt. of India.
- **Young Scientist Award-2002**-'Indian Council of Chemists', India.
- **Indian National Science Academy (INSA), Govt. of India Visiting Fellow-2005**
- **BOYSCAST Fellowship-2007**- Department of Science and Technology (DST), Govt. of India, at Australian National University, Australia.
- **Endeavour Research Fellowship Award-2011** by Government of AUSTRALIA
- **Endeavour Executive Fellowship Award-2015** by Government of AUSTRALIA
- **Endeavour Award Lapel Pin of High Achiever-2011 & 2015**- Government of AUSTRALIA
- **Honorary member** of Global Alumni Network of a selected group of outstanding scholar, researcher and professionals -Program of **Australian Government**
- **Fellow of Maharashtra Academy of Sciences-2019**
- **'Best Teacher Award-2019'** of Shivaji University, Kolhapur
- **Shortlisted for Post of Vice Chancellor:** Dr. Homi Bhabha State University, **Mumbai** (2020) S. P. Pune University, **Pune** (2023), YCMO University, **Nashik** (2023), Dr. B. R. Ambedkar Marathwada University, **Sambhaaji Nagar** (2023), S G. Amravati University, **Amravati** (2024), SRTM University, **Naanded** (2024), Rajiv Gandhi Central University, **Arunachal Pradesh** (2024).

COUNTRIES VISITED: Australia (Three times), New Zealand, Spain, France

STATUTARY COMMITTEE

- Member of Board of Studies (BOS), Chemistry, Shivaji University, Kolhapur
- Member of Research and Recognition (RR) Committee, Chemistry, Shivaji University, Kolhapur
- Member of Research and Recognition (RR) Committee, AGPM, Shivaji University, Kolhapur
- Member of Research and Recognition (RR) Committee, University of Mumbai, Mumbai
- Member-Board of University Teaching and Research (BUTR) Committee, Shivaji University, Kolhapur
- Member-Adhoc-Board of Studies (A-BOS), AGPM, Shivaji University, Kolhapur
- Member--Board of Studies (BOS), Government Vidarbha Institute of Science and Humanities, Amravati
- Member-Standing Committee Special Cell, Shivaji University, Kolhapur

MEMBER OF THE PROFESSIONAL BODIES

- Member- American Nano Society
- Member- American Chemical Society
- Life member- Materials Research Society of India (No. LMB 2851)
- Life member- Luminescence Society of India
- Life member- Association of Chemistry Teachers

CHAIRMAN/MEMBER OF THE COMMITTEE

- Chairman, Research Advisory Committee, Department of Chemistry, SUK
- Chairman-Coordinating Committee, Department of Agrochemicals and Pest Management
- Chairman-Departmental Research Committee (DRC), Department of Agrochemicals and Pest Management
- Chairman-Research Advisory Committee (RAC), Department of Agrochemicals and Pest Management
- Chairman-Local Inquiry Committee (LIC), Shivaji University, Kolhapur
- Member-Departmental Research Committee (DRC), Department of Chemistry
- Member-Research Advisory Committee (RAC), Department of Agrochemicals and Pest Management
- Member-'Annual Progress Indication (API)' score determination committee for the post of Principal at colleges under the jurisdiction of Shivaji University, Kolhapur
- Vice-Chancellor's nominee in selection committee for 'Teachers' in parent institute and affiliated colleges
- Vice-Chancellor's nominee in selection committee of 'Principal' in affiliated colleges of Shivaji University, Kolhapur
- Member-Selection committee as a Subject Expert for selection of teachers in affiliated colleges
- Member-Selection committee as a Subject Expert for selection of teachers in BAMU, Aurangabad.
- Member- Syllabus Revision Committee, Department of Chemistry, Shivaji University, Kolhapur

RESEARCH SPECIALIZATION: Functional Coordination Chemistry, Coordination-Organometallic Hybrid Materials, Catalysis, Nonlinear optics

PH. D. STUDENTS GUIDED 17 (Working: 3)

RESEARCH PUBLICATIONS: Peer Review Journals: **81**; Conference paper presentation: **47**

PATENTS: 1. Title of Patent: A system for the Synthesis of Heterobimetallic Hybrid Complexes for Catalysis of C-C and C-N Coupling Reaction (**German Patent** 20 2025 103 088; Date 17/06/2025)

2. Title of Patent: A system for Preparing Binuclear Copper Complexes with Carbon Rich Alkynyl Functionalized Salicylaldehyde (**German Patent** 20 2025 101 820; Date 14/04/2025)

3. Laboratory Apparatus For Synthesis of Ruthenium Complexes (**UK Patent** No. 6464281 Date 11 August 2025)

RESEARCH PROJECT SUPERVISED:

- 'Synthesis and Characterization of Some Biologically Active (bio-active) Thiazolylazo Derivatives and Their Metal Complexes'-**Completed**-(INR 50, 000/-) Funded by **UGC**, New Delhi (India)
- 'Synthesis of Metal Complexes and Physico-Chemical Studies of Interaction of Metal Ions with Some Bioactive Molecules'-**Completed**-(INR 85, 000/-) Funded by **UGC**, New Delhi (India)
- 'Synthesis of Coordination-Organometallic Hybrid Complexes for Nonlinear Optics'-**Completed**- (INR 16, 61, 082/-)-Funded by Department of Science and Technology (**DST**), Govt. of India
- 'Design, Synthesis and Luminescence Studies of Novel Hybrid Complexes Composed of Coordination and Organometallic Sites'-**Completed**-(INR 37,91, 200/-)-Funded by **SERB**, Govt. of India
- Design and Synthesis of Carbon-Rich Alkynyl Functionalized Transition Metal Complexes: for their Luminescence and Nonlinear optical Properties'-Ongoing (INR 28,6620/-Funded by Science and Engineering Research Board (**SERB**), Govt. of India
- **International collaborative research project:**
'Hybrid Organometallic–Coordination Complex Materials for Nonlinear Optics'-**Completed**- in collaboration with Australian National University (ANU), **Australia**, Raman Research Institute, **Bengaluru**, University of **Hyderabad** and **IIT, Madras**-Under Australia-India Strategic Research Fund (**AISRF**)-Joint program of **Australia** and **India Govt.** Funded (INR 43,98,380/-) by **DST**, Govt. of India.

RESEARCH COLLABORATIONS:

- Prof. Mark Humphrey, Prof. Robert Stranger, Dr. Marie Cifuentes, Dr. Simon Pitre, Research School of Chemistry, Australian National University, Canberra, ACT 0200, **Australia**
- Prof. Barry Luther Davis, Laser Physics Center, Australian National University, Canberra, **Australia**
- Prof. Marek Samoc, Research School of Physics and Engineering, Australian National University, Canberra, **Australia**
- Prof. Stuart Batten, School of Chemistry, Monash University, Clayton, Victoria 3800, **Australia**
- Dr. Reji Philip, Department of Light and Matter Physics, Raman Research Institute, **Bangalore**
- Prof. D. Narayan Rao, Department of Physics, University of Hyderabad, **India**
- Prof. S. Venugopal Rao, Advance centre of Research in High Energy Materials, University of **Hyderabad**
- Prof. C. Vijayan, Department of Physics, Indian Institute of Technology (**IIT**), **Madras**
- Prof. G. K. Lahiri, Department of Chemistry, Indian Institute of Technology (**IIT**), **Bombay**

REVIEWER OF THE SCIENTIFIC RESEARCH JOURNALS

- Indian Journal of Chemistry (**CSIR**, India); Journal of Indian Chemical Society; Inorganic Chemistry Communications (**Elsevier Science**); Journal of Molecular structure (**Elsevier Science**); Spectrochimica Acta A (**Elsevier Science**); Synthetic Metals (**Elsevier Science**); Electrochimica Acta (**Elsevier Science**); Inorganic Chimica Acta (**Elsevier Science**); Phosphorus, Sulphur, Silicon (**Elsevier Science**); Journal of Alloys and Compound (**Elsevier Science**); Journal of Applied Organometallic Chemistry(**Elsevier Science**); Chemsensor (**Elsevier Science**), Journal of Physical Chemistry (**American Chemical Society**); Chemical Papers(**Springer**); Journal of Chemical Crystallography (**Springer**) Chemistry Select (**Wiley**), Applied Materials & Interfaces (**American Chemical Society**), ACS Omega, New Journal of Chemistry(RSC), Inorganic Chemistry (**American Chemical Society**),

PH. D. THESIS EXAMINER

- Osmania University, Hyderabad; Periyar University, Salem, Tamilnadu; Kuvempu University, Shimoga, Karnatakka; Savitribai Phule Pune University, Pune; University of Mumbai; Swami Ramanand Teerth Marathwada University, Nanded; Bharati Veedhyapeeth, Pune; Sant Gadge Baba University, Amravati, North Maharashtra University, Jalgaon, Patiyala University, Punjab, Bharathidasan University, Tiruchirappalli. Tamil Nadu,
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EXTENSION ACTIVITIES:

- Expert-Judge at the state level competition held on 'Science and Technology Towards Sustainable, Integral Development of Humanity' held at Holy Cross Convent school, Kolhapur
- 'OBSERVER' for 'The National , Eligibility Test Cum Entrance Test-2013' of Central Board of Secondary Education (**CBSE**), Human Resource Development (**HRD**) Ministry, Govt. of India, New Delhi
- Executive Council Member, Shivaji University Postgraduate Teacher Association (SUPTA), 2013-2015
- Member-Tree Plantation Committee, Pre-IAS Training Center, Kolhapur, Govt. of Maharashtra
- Member-Anti-Sexual Harassment Committee, Pre-IAS Training Center, Kolhapur Govt. of Maharashtra

ADDRESS

Residential:

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