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ORCID *https://orcid.org/0000-0002-4367-6014* ***Researcher*** *W-2232-2017*



ACADEMIC EXPERIENCE: 34 years

Present Academic Position:

- **Department of Chemistry, Shivaji University, Kolhapur, India**
  Senior Professor 2020 *(since October)*

Previous Academic Positions held:

- **Department of Chemistry, Shivaji University, Kolhapur, India**
  Professor 2009-2020
  Associate Professor 2005-2009
- **Chonnam National University, Gwangju, South Korea**
  Visiting Scientist 2018-2019
- **Department of Chemistry, Hanyang University, Seoul, South Korea**
  Visiting Professor 2013
  Visiting Professor 2012
  Visiting Professor 2010
- **Department of Chemistry, Sangola College, Sangola (PAH Solapur University, India)**
  Reader 2003-2005
  Lecturer (Sr. Scale) 1998-2003
  Lecturer 1992-1998

ADMINISTRATIVE EXPERIENCE:

Shivaji University, Kolhapur

- Member, Academic Council, 2017, 2023
- Chairman, Board of Studies in Chemistry and Chemical Engineering, 2023
- Member, Research and Recognition Committee, Chemistry and Chemical Engineering 2023
- Member, Central Research Committee, All Engineering Subjects, 2022-2024
- Coordinator, University Industry Interaction Centre, 2007-2018, 2020-2022
- Coordinator, Department of Applied Chemistry, 2019-2023
- Coordinator, Certificate Course in Analytical Instrumentation, 2007- 2008
- Rector, Boys Hostel, 2005-2009

Administrative Experience as Member/Coordinator/Head at Other Universities / Colleges:

- Board of Studies in Chemistry, Goa University, Goa, 2023-2026
- Board of Studies in Chemistry, Kittur Rani Channama University, Belgavi, Karnataka, 2026-2027
- Recognition Committee (Inorganic Chemistry), Goa University, Goa, 2021-2026
- Research and Recognition Committee (Chemistry), PAH Solapur University, Solapur, 2018-2022

- Academic and Administrative Audit (AAA) Committee, PAH Solapur University, Solapur, 2022
- Doctoral Committee, Kittur Rani Channama University, Belgavi, Karnataka, 2022
- Board of Examination, Kuvempu University, Shivamogga (since 2011); Rani Channama University, Belgavi (since 2022); Karnataka State Akkamahadevi Women's University, Vijayapura (since 2015); and Gulbarga University, Kalaburagi (2014), Karnataka
- Coordinator, Steering Committee, National Assessment and Accreditation Council (NAAC), Sangola College, Sangola (PAH Solapur University) 2003 -2005.
- Head, Department of Chemistry, Sangola College, Sangola (PAH Solapur University, Solapur) 1992-2005

MEMBER ON INTERNATIONAL PANEL:

- **Member,** European Research Council and Scientific Expert, Ministry of Education, Universities and Research, Rome, Italy. *Section: "Fundamental Research" and 'Applied Research'.*
  Register of Expert Peer-Review for the Scientific Evaluation of Italian Research (REPRISE), Ministry of Education, Universities and Research (MIUR), Rome, **Italy**. (*MIUR.AOODGRIC.REGISTRO_REPRISE.0005455.19-03-2018*), **since 2018**
- **Member,** Panel of Ph. D. Thesis Examiners, Hanyang University, Seoul, **South Korea.**

CENTER OF EXCELLENCE (CoE):

Coordinator and Co-Investigator, 'Center of Excellence on Critical Minerals, Metals, and Materials' (CoE-CMMM)-IT-Bombay, under the National Critical Mineral Mission (NCMM), Hub- IIT-Bombay, Spoke-Shivaji University, Kolhapur.
Established under National Critical Minerals Mission, Government of India

AWARDS / FELLOWSHIPS:

- Mid-Career Award (Basic Science Research) — University Grants Commission, New Delhi, **India**, 2021
- Brain Pool Fellow — National Research Foundation (NRF), **South Korea**, Host University: Chonnam National University, Gwangju, **South Korea**, 2018-2019
- Academic Staff Mobility Grant — Erasmus Mundus EUPHRATES project (3rd Cohort). (Funded by the European Union) Host University: University of Santiago de Compostela, **Spain** February 2017
- Best Teacher Award — Shivaji University, Kolhapur, **India**, 2002

PATENT:02

- **KOREAN**
  Title: Manufacturing method of copper chalcogenide using deep eutectic solution.
  Patent Number: 10-1874238, Publication/Grant date: 27.06.2018
  https://www.kipris.or.kr/kportal/search/total_search.do

- **INDIAN**
  Title: Storm water filtration device.
  Application Number: 477829-001 Publication/Grant Date:24/10/2025
  https://search.ipindia.gov.in/DesignApplicationStatus/

RESEARCH PAPER AWARDS / RECOGNITIONS:

- American Chemical Society
  Top 100 *Most-Impactful Articles of the Year* **2023**
  Energy Fuels 2023, 37 (6), 4658–4670
  ACS '**Top Five'** Researcher, among the Indian Research Community for *'Making American Chemical Society Journals who are the most impactful in the Chemistry Field'* 2020.
  ACS Applied Energy Materials, 2018, 1(2), 638−648
  ACS Appl. Energy Mater. 2018, 1(2), 638-648
  '**Globally Top Cited** ACS Articles amongst the Shivaji University published Articles with ACS Publication during 2017-20
  ACS Appl. Mater. Interfaces 2017, 9, 26016-26028
  ACS Appl. Energy Mater. 2018, 1(2), 638-648
  ACS 'Top 10 Most Read' paper, Chem. Mater. 2016, 28, 3308-3317
- Royal Society of Chemistry (RSC)
  Cover Image, J. Mater. Chem. A, 2018, 6(45), 22566 - 22579
  Invited Feature Article, Chem. Commun. 2014,50, 11258-11273
  Most Read Article, CrystEngComm, 2012, 14 (6), 1920-1924
- Indian Academy of Sciences / Springer
  Cover Image, Bull. Mater. Sci. 2019, 42(6), 263:1-10
- Renewable Energy Global Innovations, Canada
  Key Scientific Article contributing to the excellence in Energy research, 2015 (PCCP 17 (2015) 19777-19788)
  Phys. Chem. Chem. Phys. 17 (2015) 19777-19788
- Science Direct
  'Science Direct Top 10' most downloaded article 2011 and
  'Science Direct Top 25 Hottest Articles' C. R. Chim. 2011, 14, 883–886
  'Science Direct Top 25 Hottest Articles' C. R. Chim. 2011, 14, 878–882
  'Science Direct Top 25 Hottest Article' Electrochim. Acta 2010, 55, 4057 – 4061
  'Science Direct Top 25 Hottest Article', Appl. Surf. Sci. 2010, 257, 1786 – 1791
- American Canadian Conference for Academic Disciplines
  Best Paper Award, International Conference
  Ryerson University, Toronto, Canada, May 25, 2009
- World Gold Council, London
  Excellent Paper Award (with honorarium of £300),
  December 10, 2001, Gold Bull. (2001), 34(2), 50 – 55

REVIEWER of INTERNATIONAL JOURNALS:

- Journals published by American Chemical Society, Royal Society of Chemistry, Nature, Elsevier, Springer, Wiley-VCH, Materials Society of Korea, American Scientific Publishers, Taylor and Francis etc.

REFEREE FOR Ph. D. THESIS:

- More than 75 universities and research institutes in India.

FORMAL TEACHING ACTIVITIES:

- Topics in Inorganic Chemistry: Coordination chemistry, organometallic chemistry, chemistry of inorganic materials, energy conversion devices, energy storage devices. Topics in Analytical Science: electroanalytical techniques, instrumentation techniques, separation science.

RESEARCH PROFILE:

- **Research Areas**: Synthesis of ferrites and metal-organic frameworks (MOFs) and their applications in supercapacitor; synthesis of nanocrystals, colloidal quantum dots and their applications in water splitting; synthesis of materials for solar cell fabrication; design and synthesis of ionic liquids and their applications as electrolytes in supercapacitor; separation science etc.

- **Ph. D. Guidance: 29** students (**25** degrees awarded; **4** working)
- **Research Project Funding:**
  - **Individual = Rs. 1,57,31,000 (external funding)**
    DAE-BRNS (2 projects); CSIR (1 project); BARC (1 project); RGSTC (1 project); UGC (4 major projects and 5 minor projects); Shivaji University (2 projects)
  - **CoE CMMM = Rs. 30,09,600**
    (Coordinator and Co-Investigator with IIT-Bombay 'Center of Excellence on Critical Minerals, Metals, and Materials' (CoE-CMMM)-IT-Bombay, under the National Critical Mineral Mission (NCMM), Hub- IIT-Bombay, Spoke-Shivaji University, Kolhapur)
  - **Departmental Projects (Group Projects): Rs. 4,09,00,000** *(Contributions in terms of preparation, presentation and implementation*)
- **Research Publications:**
  Impact Factor *(Clarivate Analytics, 2025)*: Cumulative 770.30 Average 5.17
  Publications in Q1 and Q2 journals *(Scimago Journal Ranking 2025)*: 86(Q1), 38(Q2)
  Google Scholar Citation Index = 7871 (highest citations for a paper = **659); h-index = 50, i10-index = 124** *https://scholar.google.co.in/citations?user=nX-3tE4AAAAJ&hl=en*
  Scopus Citation Index = 6508 (highest citations for a paper = **505); h- index = 46** https://www.scopus.com/authid/detail.uri?authorId=6602913340

Research Publications: (Total= 168) (Materials Science-109; Analytical Science - 59)

Impact Factor	>19	>15	>10	9 to 10	7 to 9	6 to 7	5 to 6	4 to 5	3 to 4	2 to 3	1 to 2	ISSN
No. of papers	01	01	10	06	11	18	26	21	16	22	17	19

SCI (Science Citation Index) Papers

Material Science:

2026

1. Unlocking time-tailored Ag nanoparticles decorated nanoflakes of NiO for binder-free supercapacitor. S. Pise, O. Kulkarni, T. Shaikh, D. Narale, R. Sankannavar, **S. Kolekar**
   J. Energy Storage (**2026**) 180, 124074.
   DOI: https://doi.org/10.1016/j.est.2026.124074 (IF **10.7**) **Q1 Journal**

2. Activated carbon induced synergistic effect of bismuth metal-organic framework-based zero and one-dimensional heterostructure for efficient supercapacitor. O. Kulkarni, S. Pise, T. Shaikh, R. Sankannavar, M. Vadiyar, K.W. Nam, **S. Kolekar**
   J. Energy Storage (**2026**) 163, 122177.
   DOI: https://doi.org/10.1016/j.est.2026.122177 (IF **10.7**) **Q1 Journal**

3. A dual-template MOF/ZIF approach for structurally optimized metal oxide@CNT and porous carbon electrodes in supercapacitors. T. Shaikh, O. Kulkarni, M. Arunachalam, S.H. Kang, **S. Kolekar**
   J. Mater. Chem. A (**2026**) 14 (40), 27150–27161.
   DOI: https://doi.org/10.1039/D6TA02480G (IF **9.2**) **Q1 Journal**

4. Hierarchical heterostructured $ZnCo_2O_4$@$CuCo_2O_4$ nanograss composite electrode for advanced asymmetric supercapacitor applications. D.M. Ulisso, P.K. Bhoj, P.M. Lohar, B.D. Potadar, Y.Tae Kim, R.K. Yadav, V. Manjunath, J.B. Yadav, **S.S. Kolekar**, J. Heo, Anil Vithal Ghule
   J. Power Sources (**2027**), 697, 241562.
   DOI: https://doi.org/10.1016/j.jpowsour.2026.241562 (IF **8.4**) **Q1 Journal**

5. Exploring acetate precursor based nickel-cobalt metal-organic frameworks and graphene oxide nano-composites for supercapacitors. O. Kulkarni, S. Pise, T. Shaikh, R. Sankannavar, D. Narale, M. Vadiyar, K.W. Nam, **S. Kolekar**
   J. Power Sources (**2026**), 663, 238913.
   DOI: https://doi.org/10.1016/j.jpowsour.2025.238913 (IF **8.4**) **Q1 Journal**
6. Binder-free CuO@$CoMoO_4$ core–shell electrode coupled with biomass-derived activated carbon for advanced asymmetric supercapacitor. D.K. Narale, P.D. Kumbhar, K.D. Patil, A.D. Pawar, O.R. Kulkarni, S.H. Pise, T.R. Shaikh, J.H. Kim, **S.S. Kolekar**
   ACS Appl. Eng. Mater (**2026**) 4, 5150–5164.
   DOI: https://doi.org/10.1021/acsaenm.6c00799 (IF **5.5**) **Q1 Journal**

2025

7. A high-performance Ag@CoFe-layered double hydroxide supported on stainless steel mesh for solid-state energy storage. R. Sankannavar, R. Bhosale, R. Jadhav, **S. Kolekar**, J.H. Kim, J. Manjanna
   J. Energy Storage (**2025**) 117, 116185.
   DOI: https://doi.org/10.1016/j.est.2025.116185 (IF **10.7**) **Q1 Journal**

8. Design and fabrication of gold nanoparticles decorated SSM@$NiCo_2O_4$ as a binder-free electrode for solid-state symmetric supercapacitor application. S. Pise, T. Shaikh, O. Kulkarni, R. Bhosale, D. Narale, M. Vadiyar, K-W. Nam, **S. Kolekar**
   J. Energy Storage (**2025**) 114, 115965.
   DOI: https://doi.org/10.1016/j.est.2025.115965 (IF **10.7**) **Q1 Journal**

9. Designing of bimetallic rGO@Co/Mn MOF and bioderived carbon as efficient electrodes for high-performance asymmetric supercapacitor. T. Shaikh, S. Pise, O. Kulkarni, R. Sankannavar, C. Jambhale, **S. Kolekar**
   J. Energy Storage (**2025**) 112, 115545.
   DOI: https://doi.org/10.1016/j.est.2025.115545 (IF **10.7**) **Q1 Journal**

10. Harnessing the synergy in the core-shell architecture of ZIF-derived nanoporous carbon and conducting polymer for supercapacitive aspects. T. Shaikh, O. Kulkarni, D. Narale, S. Pise, M. Vadiyar, K.W. Nam, **S. Kolekar**
    J. Power Sources (**2025**), 659, 238419.
    DOI: https://doi.org/10.1016/j.jpowsour.2025.238419 (IF **8.4**) **Q1 Journal**

11. Fabrication of metal-organic framework based electrodes of $MnCo_2$-MOF-$CoMoO_4$ and Bi-MOF/AC nanocomposites for asymmetric supercapacitor. O. Kulkarni, S. Pise, T. Shaikh, D. Narale, M. Vadiyar, C. Jambhale, K.W. Nam, **S. Kolekar**
    J. Power Sources (**2025**) 657, 238109.
    DOI: https://doi.org/10.1016/j.jpowsour.2025.238109 (IF **8.4**) **Q1 Journal**

12. Morphological engineering of core-shell hetero-structured zinc cobalt layered double hydroxide@$CuCo_2O_4$ for enhanced supercapacitor applications. D.M. Ulisso, P.K. Bhoj, B.D. Potadar, **S.S. Kolekar**, J.Y. Chang, J. Heo, A.V. Ghule.
    J. Power Sources (**2025**) 648, 237431.
    DOI: https://doi.org/10.1016/j.jpowsour.2025.237431 (IF **8.4**) **Q1 Journal**

13. High-performance anode and cathode materials from single-source metal-organic frameworks for long-life hybrid supercapacitors. O. Kulkarni, S. Pise, T. Shaikh, C. Jambhale, M. Vadiyar, K.W. Nam, **S. Kolekar**
    J. Alloys Compd. (**2025**) 1047, 184971.
    DOI: https://doi.org/10.1016/j.jallcom.2025.184971 (IF **6.7**) **Q1 Journal**

14. A high-performance nanoflower $MnCo_2O_4$/ZnCo layered double hydroxide electrode supported on Ni foil for advanced asymmetric supercapacitors. R. Sankannavar, O. Kulkarni, T. Shaikh, **S. Kolekar**, J. H. Kim, J. Manjanna
    Energy Fuels (**2025**) 39, 21563-21574.
    DOI: https://doi.org/10.1021/acs.energyfuels.5c04069 (IF **6.0**) **Q1 Journal**

15. A review and perspective on advancement in metal-organic framework-based composites for supercapacitor: From dimensionalities to functionalities. T. Shaikh, S. Pise, R. Bhosale, M. Vadiyar, K.W. Nam, **S. Kolekar**
    Energy Fuels (**2025**) 39(5) 2396–2421.
    DOI: https://doi.org/10.1021/acs.energyfuels.4c05687 (IF **6.0**) **Q1 Journal**

16. Recovery of intercalated Li and synthesis of reduced graphene oxide from graphite of spent Li-ion battery for supercapacitor application. B. Uppina, R. Sankannavar, R.S. Kangutkar, J. Manjanna, **S. Kolekar**, G. P. Nayaka
    Inorg. Chem. Commun. (**2025**) 177, 114371.
    DOI: https://doi.org/10.1016/j.inoche.2025.114371 (IF **5.9) Q1 Journal**

17. High-efficiency pseudocapacitive layered double hydroxide on Ni-foil as an electrode for superior solid-state over liquid-state asymmetric supercapacitor. R. Sankannavar, R. Bhosale, R. Jadhav, **S. Kolekar**, J.H. Kim, J. Manjanna
    Inorg. Chem. Commun. (**2025**) 172, 113741.
    DOI: https://doi.org/10.1016/j.inoche.2024.113741 (IF **5.9) Q1 Journal**

18. Dual redox center-based copper-cobalt metal-organic framework as pseudocapacitive electrode material for supercapacitor. O. Kulkarni, R. Bhosale, D. Narale, S. Pise, T. Shaikh, **S. Kolekar**
Inorg. Chem. Commun. (**2025**) 172, 113711.
DOI: https://doi.org/10.1016/j.inoche.2024.113711 (IF **5.9) Q1 Journal**

19. Efficient hydrogen evolution via neutral water electrolysis using nanocrystalline TiO_2 electrocatalyst. P.D. Sanadi, R.K. Chougale, D.B. Malavekar, J.H. Kim, S. Masimukku, G.P. Chang-Chien, Y.C. Ling. **S.S. Kolekar**, G.S. Kamble
Sci. Rep. (**2025**) 15, 16074.
DOI: https://doi.org/10.1038/s41598-025-93371-0 (IF **4.9) Q1 Journal**

20. Controllable synthesis of semiconducting anatase TiO_2 nanostructures for visible light driven photocatalytic degradation of crystal violet and methylene blue dye. P.D. Sanadi, R.K. Chougale, D.B. Malavekar, J.H. Kim, S. Masimukku, G.P. Chang-Chien, Y.Y. Lee, R.C. Ghaware, **S.S. Kolekar**, G.S. Kamble
Spectrochim. Acta Part A (**2025**)341, 126404.
DOI: https://doi.org/10.1016/j.saa.2025.126404 (IF **4.8**) **Q1 Journal**

21. A core–shell heterostructured nickel manganese layered double hydroxide@$ZnCo_2O_4$ nanocomposite electrode for enhanced asymmetric supercapacitor applications. D.M. Ulisso, P.K. Bhoj, **S.S. Kolekar**, J. Heo, A.V. Ghule
Sustainable Energy Fuels (**2025**), 9, 5354-5366.
DOI: https://doi.org/10.1039/D5SE00863H (IF **4.6**) **Q1 Journal**

22. Gold cluster decorated nanoporous network of nickel oxide for energy storage application. S.R. Bhosale, R.R. Bhosale, V.L. Patil, A.M. Tamboli, M.S. Tamboli, R.P. Dhavale, **S.S. Kolekar**, P.V. Anbhule
Vacuum (**2025**), 240,114522.
DOI: https://doi.org/10.1016/j.vacuum.2025.114522 (IF **4.3) Q1 Journal**

23. Rotational chemical bath deposited flexible MnO_2/MXene thin film as an electrode for all solid state asymmetric supercapacitor. R.A Chavan, G.P Kamble, A.S Rasal, **S.S. Kolekar**, J.Y. Chang, A.V. Ghule
Nanotechnology (**2025**) 36, 415402
DOI: https://doi.org/10.1088/1361-6528/ae0cd0 (IF **2.9) Q2 Journal**

2024

24. Facile synthesis of a rGO@CuCo-layered double hydroxide electrode for a high-performance solid-state symmetric supercapacitor. R. Sankannavar, R. Bhosale, R. Kangutkar, **S. Kolekar**, J. Manjanna
J. Energy Storage (**2024**) 94, 112455.
DOI: https://doi.org/10.1016/j.est.2024.112455 (IF **10.7**) **Q1 Journal**

25. Engineering of both binder-free $CuCo_2O_4$ nanorod@CuO flower-like nanosheet core-shell heterostructure and $NiFe_2O_4$ nanoflake electrodes for asymmetric supercapacitor. D.K. Narale, P.D. Kumbhar, R.R. Bhosale, K.D. Patil, C.L. Jambhale, J.H. Kim, **S.S. Kolekar**
J. Energy Storage (**2024**) 84, 110942
DOI: https://doi.org/10.1016/j.est.2024.110942 (IF **10.7**) **Q1 Journal**

26. Rational design of $NiMoO_4$@$CoMoO_4$ core-shell microrods a promising binder-free positive electrode for high-performance asymmetric supercapacitor application.
D.K. Narale, P.D. Kumbhar, R.R. Bhosale, K.D. Patil, C.L. Jambhale, J.H. Kim, **S.S. Kolekar**. *J. Power Sources* (**2024**) 601, 234291
DOI: https://doi.org/10.1016/j.jpowsour.2024.234291 (IF **8.4**) **Q1 Journal**

27. Multilayered core-shell NiCo-Layered double hydroxide@$NiCo_2O_4$ composite electrode for high-performance supercapacitor. D.M. Ulisso, S.A. Mane, R.A. Chavan, G.P. Kamble, **S.S. Kolekar**, A.V. Ghule
J. Alloys Compd. (**2024**) 980, 173563
DOI: https://doi.org/10.1016/j.jallcom.2024.173563 (IF **6.7**) **Q1 Journal**

28. Binder-free core-shell zinc cobalt layered double hydroxide@$NiCo_2O_4$ flexible composite electrodes for high-performance supercapacitor. D. Ulisso, R. Chavan, S. Mane, P. Bhoj, **S. Kolekar**, A. Ghule
Energy Fuels (**2024**) 38 (19), 19064–19075
DOI: https://doi.org/10.1021/acs.energyfuels.4c02428 (IF **6.0**) **Q1 Journal**

29. Bimetallic $MnFe_2$-MOF and its derived $MnFe_2O_4$ nanostructures for supercapacitive applications. R. Bhosale, S. Bhosale, R. Sankannavar, V. Chavan, C. Jambhale, H. Kim, **S. Kolekar**
ACS Appl. Nano Mater. (**2024**) 7(4), 4078-4091
DOI: https://doi.org/10.1021/acsanm.3c05645 (IF **5.8**) **Q1 Journal**

30. Hybrid supercapacitors based on nanoporous carbon and $CoFe_2O_4$ derived from a bimetallic-organic framework. R. Bhosale, S. Bhosale, V. Chavan, C. Jambhale, D.-kee Kim, **S. Kolekar**
ACS Appl. Nano Mater. (**2024**) 7(2), 2244–2257
DOI: https://doi.org/10.1021/acsanm.3c05664 (IF **5.8**) **Q1 Journal**

31. Degradation of organic pollutant by using of $BiVO_4$-$NiFe_2O_4$ heterostructure photocatalyst under visible light irradiation: Assessment of detoxicity study using Cirrhinus mrigala. R.C. Ghaware, N.B. Birajdar, G.S. Kamble, **S.S. Kolekar**. *Langmuir* (**2024**) 40 (28), 14426-14439.
DOI: http://doi.org/10.1021/acs.langmuir.4c01136 (IF **4.4) Q1 Journal**
Correction to "Degradation of organic pollutant by using of $BiVO_4$-$NiFe_2O_4$ heterostructure photocatalyst under visible light irradiation: Assessment of detoxicity study using Cirrhinus mrigala". R.C. Ghaware, N.B. Birajdar, G.S. Kamble, **S.S. Kolekar** *Langmuir* (**2024**) 40 (33), 17843-17843.
DOI: https://doi.org/10.1021/acs.langmuir.4c02873 (IF **4.4) Q1 Journal**

2023

32. Rational design of binder free $NiFe_2O_4$@$CoFe_2O_4$ core–shell nanoflake arrays synthesized by chemical bath deposition for supercapacitor application. D.K. Narale, P.D. Kumbhar, R.R. Bhosale, R.C. Ghaware, K.D. Patil, J.H. Kim, **S.S. Kolekar**.
J. Energy Storage (**2023**) 66, 107477.
DOI: https://doi.org/10.1016/j.est.2023.107477 (IF **10.7**) **Q1 Journal**

33. NiO@MXene nanocomposite as an anode with enhanced energy density for asymmetric supercapacitor. R.A. Chavan, G.P. Kamble, S.B. Dhavale, A.S. Rasal, **S.S. Kolekar**, J.Y. Chang, A.V. Ghule
Energy Fuels (**2023**), 37 (6), 4658–4670.
DOI: https://doi.org/10.1021/acs.energyfuels.2c04206 (IF **6.0**) **Q1 Journal**

34. Biomass nanoarchitectonics with *Annona Reticulate* flowers for mesoporous carbon impregnated on CeO_2 nanogranular electrode for energy storage application. S.R. Bhosale, R.R. Bhosale, S.B. Shinde, A.A. Moyo, R.P. Dhavale, **S.S. Kolekar**, P.V. Anbhule
Inorg. Chem. Commun. (**2023**) 154, 110949.
DOI: https://doi.org/10.1016/j.inoche.2023.110949 (IF **5.9) Q1 Journal**

35. Template free synthesis of mesoporous carbon from fire cracker waste and designing of ZnO-mesoporous carbon photocatalyst for dye (MO) degradation. S.B. Shinde, S.D. Dhengale, O.S. Nille, S.S. Jadhav, A.H. Gore, T.R. Bhosale, N.B. Birajdar, **S.S**. **Kolekar**, G.B. Kolekar, P.V. Anbhule
Inorg. Chem. Commun. (**2023**), 147, 110242.
DOI: https://doi.org/10.1016/j.inoche.2022.110242 (IF **5.9**) **Q1 Journal**

36. Thermodynamics of azo dye adsorption on a newly synthesized titania-doped silica aerogel by cogelation: A comparative investigation with silica aerogels and activated charcoal. P.D. Sarvalkar, A.S. Vadanagekar, O.S. Karvekar, P.D. Kumbhar, S.S. Terdale, A.S. Thounaojam, **S.S. Kolekar**, R.S. Vhatkar, P.S. Patil, K.K. Sharma
ACS Omega (**2023**), 8, 13285−13299.
DOI: https://doi.org/10.1021/acsomega.3c00552 (IF **5.2**) **Q1 Journal**

37. Construction of well-defined two-dimensional architectures of trimetallic metal–organic frameworks for high-performance symmetric supercapacitors. R. Bhosale, S. Bhosale, D. Narale, C. Jambhale, **S. Kolekar**
Langmuir (**2023**) 39(34) 12075–12089.
DOI: https://doi.org/10.1021/acs.langmuir.3c01337 (IF **4.4) Q1 Journal**

38. Construction of waste chalk powder into mpg-C_3N_4-$CaSO_4$ as an efficient photocatalyst for dye degradation under UV−Vis light and sunlight. S.B. Shinde, S.R. Bhosale, N.B. Birajdar, A.H. Gore, G.B. Kolekar, **S.S. Kolekar**, A.D. Mandake, P.V. Anbhule
Langmuir (**2023**) 39(18) 6324–6336.
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1. Transformation of MOF to derived metal oxide-carbon nanotube composites for supercapacitor application. International Conference on *Sustainable Solutions Through Modern Chemistry (SSMC 2026)*, Shivaji University, Kolhapur, **India**, February 14, **2026**.
2. Harnessing the synergy in the core-shell architecture of ZIF-derived nanoporous carbon and conducting polymer for supercapacitive aspects. International Conference on *Pioneering Science and Progress: Nanotechnology for Sustainable Developments (ICPSP-NSD 2025)*, School of Nanoscience and Technology, Shivaji University, Kolhapur, **India**, September 11-13, **2025.**
3. Bimetallic manganese/nickel metal-organic framework (Mn/Ni MOF) as a highly efficient electrode for advanced supercapacitors. 13th India-Japan Science and Technology Conclave: *International Conference on Frontier Areas of Science and Technology (ICFAST-2023)*, Shivaji University, Kolhapur, **India**, September 8-9, **2023**.
4. Ice-template assisted synthesis of metal ferrites for supercapacitor application. *International Conference on "Advancements in Renewable Energy"*, Swami Ramanand Teerth Marathwada University, Nanded, **India**, January 10-11, **2020**.
5. Eutectic-mediated selective synthesis of Cu-Sb-S-based nanocrystals: Combined experimental and theoretical studies toward highly efficient water splitting. *Brain Pool (BP) Program & Korea Research Fellowship (KRF) Program, Annual Workshop*, Seoul, **South Korea**, December 18, **2018**.
6. Unassisted solar water splitting via ecological and efficient eutectic mediated quantum dot synthesized efficient photoelectrodes. *Young Korean Research Open Symposium (Y-KROS)*, organized by Korean Academy of Science and Technology (KAST) and National Research Foundation (NRF), Seoul, **Korea**, August 24-25, **2018**.
7. CTS nanocrystal synthesis and their applications in solar cells. *Asia- Pacific Kesterite Workshop 2018*, Optoelectronics Convergence Research Center, Chonnam National University, **Korea**, August 21, **2018.**
8. 7th Sungkyun International Solar Forum (SISF), Sungkyunkwan University (SKKU), Seoul, **South Korea**, June 27 – 29, **2018**.
9. Chemical synthesis of ZnO@$NiFe_2O_4$ heterostructure thin films for supercapacitor applications. *International Conference on Advances in Chemical Sciences* (IC-ACS 2018), Department of Chemistry, Shivaji University, Kolhapur, India, February 1-3, **2018.**
10. Electrochemical study of copper oxide using dimethylimidazolium based ionic liquid. *3rd International Conference on Innovative Research in Science and Technology* (ICIRST – 2017), GKG College, Kolhapur, INDIA, November 7-8, **2017.**
11. Thiocyanide functionalized ionic liquid electrolytes for the photoelectrochemical study of CdSe thin films. *2nd International Conference on Physics of Materials and Materials based Device Fabrication (ICPM-MDF-2014)*, Department of Physics, Shivaji University, Kolhapur, **India**, January 13-15, **2014**.
12. Facile hydrothermal synthesis heterostructured Ag-ZnO with enhanced photocatalytic activity. *International Conference on Innovations in Energy, Polymer & Environmental Sciences (IEPES-2014)*, YC Institute of Science, Satara, **India**, January 10-12, **2014.**
13. *International Workshop on Next Generation Compound Thin Film Solar Cells 2013.* Department of Materials Science and Engineering, Chonnam National University, Gwangju, **South Korea**, November 22, **2013**.
14. Chemical synthesis, characterization and supercapacitors application of crystalline SnO_2 thin films. *International Conference Emerging Horizons in Biochemical Sciences & Nanomaterials (EHBCSN-2013)*, Shri Shivaji Mahavidyalaya, Barshi, **India**, November 28-29, **2013**.

15. 2D Nanostructured inorganic solids-emerging nanomaterials beyond graphene. *CINBM International Symposium,* Ewha Womans University, Seoul, **South Korea** October 16, **2012.**
16. Electrodeposition of honey comb like nanoporous ZnO by [ADPPY][OH] ionic liquid – one move towards sustainable technology. *Ist International Conference on Physics of Materials and Materials based Device Fabrication (ICPM-MDF-2012),* Department of Physics, Shivaji University, Kolhapur, **India** January 17-19, **2012**.
17. Ionic liquid stabilized silver nanoparticles and their biocidal activity. *International Conference on Nanoscience and Nanotechnology (ICNN-2011),* Swami Ramanand Teerth Marathwada University, Nanded, **India** January 11 -13, **2011.**
18. Synthesis of nickel-zinc ferrite thin films by chemical solution method for electrochemical capacitor application. *3rd International Symposium on Materials Chemistry, (ISMC-2010),* Chemistry Division, Bhabha Atomic Research Centre (BARC), Trombay, Mumbai, **India** December 7 - 11, **2010**.
19. Synthesis, characterization and application of nanosilver. *International Conference on Nano Science and Nano Technology (ICNST 2010)*, Gwangju Institute of Science and Technology, Gwangju (GIST), **Korea** November 8 - 9, **2010**.
20. Effect of annealing atmosphere on the properties of chemically deposited Cu_2ZnSnS_4 (CZTS) thin films. *Renewable Energy 2010 (RE2010),* Pacifico Yokohama, Yokohama, **Japan**, June 27 – July 2, **2010**.
21. SEM study of nanocrystalline $Ni_{0.5}Zn_{0.5}Fe_2O_4$ thin films synthesized by aqueous solution method with chemical bath deposition. *International Conference on Advances in Electron Microscopy and Related Techniques (EMSI-2010)*, BARC, Mumbai, **India**, March 8 - 10, **2010**.
22. Synthesis, characterization and biological studies of silver nanoparticles. *International Conference on Emerging Trends in Chemistry (ETIC-2010),* Department of Chemistry, University of Pune, **India**, January 5 - 7, **2010**.
23. Effect of complexing agent on the properties of electrochemically deposited Cu_2ZnSnS_4 (CZTS) thin films for photovoltaic application. *International Conference on Nano Science and Nano Technology 2009 (GJ-NST 2009).* Gwangju-Jeonnam Nano Science and Technology Union, Mokpo National University, JeollaNam - Do, **Korea**, November 5 - 6, **2009**.
24. Selective extraction and photometric determination of platinum(IV) with 4- (2'-furalideneimino)-3-methyl-5-mercapto-1,2,4-triazole in *n*-butanol and its applications to real samples. *American Canadian Conference for Academic Disciplines*, Ryerson University, Toronto, Ontario, **Canada**, May 25 - 28, **2009.**
25. Extractive separation and determination of cerium(IV) with high molecular weight amine into xylene. *International conference on nanomaterials and applications* (ICNAMA-2008), Shivaji University, Kolhapur, **India**, December 9 - 11, **2008**.
26. Selective liquid-liquid extraction of platinum(IV) from ascorbate media by N- *n*- octylaniline: analysis of real samples. *International Symposium on Solvent Extraction*, Regional Research Laboratory (CSIR), Bhubaneswar, **India**, September 26 - 27, **2002**.

National

1. Development of metal-organic framework-based electrode material for hybrid supercapacitor. *Advances in Analytical Techniques for Materials and Bio-Medical Application (AATMABIMAAN 2022),* organized in association with Indian Society of Analytical Scientists (ISAS) and Department of Chemistry, Rani Channamma University December 15-16, **2022**.

2. Exploring bimetallic metal-organic framework for supercapacitor application. *DAE-BRNS 9th Interdisciplinary Symposium on Materials Chemistry (ISMC-2022)*, DAE Convention Centre, Anushakti Nagar, BARC, **Mumbai**, December 7-10, **2022.**
3. Rational design of binder free $NiFe_2O_4$ @ $CoFe_2O_4$ core – shell nanoflake arrays synthesized by chemical bath deposition for supercapacitor applications. *National Conference on 'Impact of Chemistry and Biology to the Society and Industry (ICBSI)'*, Kuvempu University, **Shivamogga**, May 20-21, **2022**.
4. Synthesis, characterization and application of $NiCo_2O_4$ nanoflakes electrodes for supercapacitor. *National Conference on "Recent Advances in Chemical Sciences" (RACS – 2022)*, School of Chemical Sciences, Punyashlok Ahilyadevi Holkar Solapur University, **Solapur**, April 28, **2022**.
5. Flexible and stable supercapacitor based on mechanochemically deposited $NiFe_2O_4$ thin films. *National Conference on Innovative Research in Chemical Sciences (IRCS-2017)* Department of Chemistry, Shivaji University, **Kolhapur**, February 1-2, **2017**.
6. Mahogany fruit shell activated carbon (MFSAC) an efficient low cost adsorbent for removal of toxic metals. *National Conference on Frontiers in Chemical and Material Sciences (FCMS-2015)*, Department of Chemistry, Shivaji University, **Kolhapur**, January 16-17, **2015**.
7. High-quality spinel zinc ferrite ($ZnFe_2O_4$) thin films with porous nano - flakes morphology for electrochemical energy storage. **b.** Sol-gel derived nanostructured cobalt oxide thin film for pseudocapacitor. *National Symposium on Current Trends in Chemical and Nano Science (CTCNS-2014)*, Department of Chemistry, Shivaji University, **Kolhapur**, January 17-18, **2014**.
8. Facile development of supercapacitor using graphene oxide and ionic liquids. *National Seminar on Recent Advances in Synthetic Chemistry and Nano-materials -2012* ***(RASCN-2012),*** Department of Chemistry, Shivaji University, **Kolhapur**, January 21- 22, **2012**.
9. Brønsted acidic ionic liquids (BAILs) promoted cyclocondensation reactions of the formation of 1,8-dioxo-octahydroxanthenes. *National Symposium on "Advances in Synthetic Methodologies and New Materials" (ASMNM-2011), Department of Chemistry,* Shivaji University, **Kolhapur**, January 21 - 23, **2011.**
10. Studies on chemical bath deposited nanocrystalline PbS thin films. *National Seminar on Advanced Materials (NSAM-2010)*, Department of Physics, Shivaji University, **Kolhapur**, March 19 - 20, **2010.**
11. Studies on extraction behaviour of samarium(III) from salicylate media by using 2- octylaminopyridine. *Emerging Trends in Separation Science and Technology (SESTEC-2010)*, Indira Gandhi Centre for Atomic Research (IGCAR), **Kalpakkam,** March 1 - 4, **2010**.
12. The synergistic liquid-liquid extraction and spectrophotometric determination of copper(II) from basic solution by 1-(2',4'-dinitro aminophenyl)-4, 4, 6- trimethyl - 1, 4 dihydro pyrimidine -2-thiol in the presence of pyridine. *National Seminar on 'Advanced Synthetic Methodologies and Functional Materials' (ASMFM-2009),* Shivaji University, **Kolhapur**, December 23 - 24, **2009.**
13. Nanocrystalline zinc doped nickel ferrite thin films using chemical deposition route. *National Conference on Chemistry and Molecular Nanotechnology for Industry and Society (NCMNIS-2009),* Kuvempu University, **Shimoga**, January16 - 17, **2009**.
14. Solvent extraction of lanthanum(III) by N-*n*-octylaniline from salicylate media. DAE- BRNS Biennial Symposium on *Emerging Trends in Separation Science and Technology (SESTEC 2008),* Department of Chemistry, University of Delhi, **Delhi**, March 12 -14, **2008.**

15. Analytical separation of yttrium(III) with N-*n*-octylaniline. *National Seminar on Synthesis of New Materials for Industrial Applications*, Department of Chemistry, Shivaji University, **Kolhapur**, February 1 - 2, **2008**.
16. Liquid-liquid extraction of gallium(III) from acid solution using 2-octylaminopyridine as an extractant. *Royal Society of Chemistry, West India Section, Students Symposium - 2005*, National Chemical Laboratory, **Pune**, November 25 - 26, **2005**.
17. Nanomaterials in separation science. *National Conference on Advanced Characterization Techniques on Nanomaterials*, Institute Instrumentation Centre, Indian Institute of Technology, **Roorkee**, August 24 -26, **2005**.
18. Investigation of the ion-pair formation of palladium(II) with N-*n*-octylaniline by solvent extraction from salicylate media. *22nd National Conference, Indian Council of Chemists*, Indian Institute of Technology, **Roorkee**, October 17 - 19, **2003**.
19. Solvent extraction separation of rhodium(III) with N-*n*-octylaniline as an extractant. *20th National Conference, Indian Council of Chemists*, University of Mysore, **Mysore**, December 22 - 24, **2001**.
20. Solvent extraction separation of gold(III) with liquid anion exchanger in malonate media. *19th National Conference, Indian Council of Chemists*, Kuvempu University, **Shimoga**, December 27 - 29, **2000**.
21. Extractive spectrophotometric determination of thallium(II) with pyrimidine-2-thiol. *18th National Conference, Indian Council of Chemists*, North Maharashtra University, **Jalgaon**, December 27 - 29, **1999**.
22. Solvent extraction and spectrophotometric determination of osmium(VIII) with pyrimidinethiol. *15th National Conference, Indian Council of Chemists*, Dr. Babasaheb Ambedkar Marathwada University, **Aurangabad**, October 24 - 26, **1996**.
23. Solvent extraction and spectrophotometric determination of palladium(II) with 1-(2',3'- dichlorophenyl) 4, 4, 6 -trimethyl(1H 4H)-2-pyrimidinethiol: analysis of alloys. *National Conference on Applications of Solvent Extraction in Chemistry and Industry*, Shivaji University, Kolhapur, March 6 - 8, **1996**.

Conference/Symposia/Workshop Attended:

1. GIAN workshop on *"Advanced Functional Materials and Green Energy Strategies"* Department of Chemistry, Shivaji University, Kolhapur, October, 16 - 20, **2023**.
2. Workshop on "*Next Two Decades of Chemical Sciences & Technology",* Organized by Maharashtra Academy of Sciences, National Chemical Laboratory, Pune and University of Pune, at NCL, **Pune** September 23, **2011**.
3. *Chemistry of Functional Materials 2011(CFM-2011)*, Organized by Indian Institute of Technology Bombay, Mumbai and International Centre of Materials Science (ICMS), Jawaharlal Nehru Centre for Advanced Research (JNCASR), Bangalore, at **Goa**, August 12-14, **2011**.
4. *RSC-CSIR Chemical Sciences Innovation Symposium*, National Chemical Laboratory, **Pune**, November 30, **2009.**
5. *National Seminar on Materials for Advanced Technologies (NASMAT – 2006)* Department of Physics, Shivaji University, **Kolhapur**, January 23 - 25, **2006**.
6. *National Symposium on Frontiers in Organic Chemistry,* Shivaji University, **Kolhapur**, February 7 - 8, **2002**.
7. *Workshop in Chemistry*, D. B. F. Dayanand College of Arts and Science, **Solapur**, September 29, **1996**.
8. *Seminar in Chemistry*, Shivaji University, **Kolhapur**, February 24-26, **1994**.
9. *UGC sponsored COSIP Seminar*, K. B. P. Mahavidyalaya, **Pandharpur**, October 2-3, **1993**.

Chairman- Scientific Session in Conference: International (5); National (5)

Invited Talks: International (03), National (12)

Refresher/Orientation/Training Programme Participation:
Chemistry / Material Science Refresher Course / Orientation Programme: 03
Schools and Workshops : 05

Organization of Conference / Symposium / Refresher Course (National Level) as
Co-ordinator / Liaison Officer / Convener: 09

Administrative Responsibilities: *(few selected)*

1. Coordinator, Center of Excellence on Critical Minerals, Metals, and Materials' (CoE-CMMM), Shivaji University, Kolhapur (Spoke), IIT-Bombay, Mumbai (Hub) (established under National Critical Minerals Mission, Government of India), 2025.
2. Vice Chancellor nominated Subject Expert on Panel of Selection Committee for selection of Faculty Members and Principals at various universities and colleges in state of Maharashtra.
3. Coordinator, Memorandum of Understanding (MoU) between University Industry Interaction Center, Shivaji University, Kolhapur and Leaders in Industry-University Cooperation, Chonnam National University, Gwangju, South Korea, 2016.
4. Departmental Committees, Department of Chemistry, Shivaji University, Kolhapur, 2006-2007 and 2019-2020.
5. Administrative Excellence Award Committee, Shivaji University, Kolhapur, 2014.
6. Panel of Expert Guides for "*AVISHKAR 2014-15*", Shivaji University, Kolhapur 2014.
7. Entrance Examination Committee, Shivaji University, Kolhapur 2014.
8. Executive Committee, Yashwantrao Chavan School of Rural Development, Shivaji University, Kolhapur since 2013.
9. Departmental Research Committee, Department of Agrochemicals and Pest Management, Shivaji University, Kolhapur 2010-2012.
10. Editorial Board, *Shivsandesh*, an E-Magazine, Shivaji University, Kolhapur, 2008 -2014.
11. Golden Jubilee Celebration Committees, Shivaji University, Kolhapur, 2011-2012.
12. University Level Committee constituted to '*Improve the Standard of Higher Education',* as per guidelines of Higher and Technical Education, Government of Maharashtra, 2011.
13. Member, University Delegation to visit Manipal Academy of Higher Education, Manipal, Karnataka state, 2007.
14. University Celebration Committees such as Golden Jubilee, Workshops, National Youth Festival, Sports Events, Disaster Management, National Management, Convocation etc. Shivaji University, Kolhapur.
15. Various University Level Committees constituted by the Vice Chancellor and Director, BCUD, Shivaji University, Kolhapur as LIC, Staff Selection, etc.
16. Coordinator, College Science Improvement Programme (COSIP), Sangola College, Sangola, 2002-2005.
17. Coordinator, Maharashtra Talent Search Examination (MTSE), Sangola Taluka, Sangola, conducted by Wadia College, Pune, 1995-2005.

Other Responsibilities at University:

1. **Curriculum Development:** Member, Syllabus Formation/Revision Committee in Chemistry, Industrial Chemistry, Applied Chemistry, Nanotechnology.
2. **University Examination Related Work**: End semester examination work, internal/continuous assessment work.

3. **University Functions:** Member, organizing committees formed for university level functions/ celebration.

Life Membership of Professional Bodies (India):

1. Society for Materials Chemistry (SMC), BARC, Mumbai *(LM-477).*
2. Indian Science Congress Association (ISCA), Kolkata. *(L-14835).*
3. Indian Association of Nuclear Chemists and Allied Scientists (IANCAS), BARC, Mumbai *(LM-1041).*
4. Indian Society of Analytical Scientists (ISAS), BARC, Mumbai *(LM-1894).*
5. Association of Separation Scientists and Technologists (ASSET), BARC, Mumbai *(LM-007)*
6. Indian Council of Chemists (ICC), Agra *(LF-873).*
7. Fellow, Indian Chemical Society (ICS), Kolkata *(F-4564).*

Ph. D. Students: (30)

Alumni: 25

Ashish Sartape, conferred December 2011, currently Associate Professor

Aniruddha Mandhare, conferred December 2011

Prathmesh Salvi, conferred December 2011, Scientist, R & D Centre, Reliance Industries Limited, Mumbai, currently - Scientist, United Phosphorus Limited, Mumbai

Dattatrya Pawar, conferred June 2012, currently Associate Professor

Sagar Utture, conferred August 2012, Manager Analytical, PS-Food, TÜV SÜD South Asia Pvt. Ltd. Bangalore; currently General Manager, Spinco Biotech Pvt. Ltd, Bangalore

Rupali Patil, conferred March 2013, Start-up industry

Bharat Pawar, conferred March 2013, currently Assistant Professor

Bharati Pawar, conferred January 2015

Santosh Patil, conferred April 2016, completed **PDF in South Korea** at Chonnam National University, **Gwangju**; Pohang University of Science and Technology, **Pohang**; Kyungpook National University, **Daegu**; Inha University, **Incheon;** FEMTO-ST Institute Besancon, **France;** currently **Scientist**, C-MET **India.**

Madagonda Vadiyar, conferred January 2017, completed **PDF** at Laurentian University, Ontario and Concordia University, Quebec, **Canada,**
KRF and now Assistant Professor, Dongguk University, Seoul, **South Korea**

Umadevi Ghorpade, conferred February 2017, completed PDF at Chonnam National University, **South Korea** and University of Limerick, Limerick, **Ireland;** currently PDF, University of New South Wales (UNSW), Sydney, **Australia**

Dipak Awale, conferred December 2017, currently Professor

Sagar Bhise, conferred October 2018, currently Assistant Professor

Gurupad Kore, conferred October 2018, currently Professor

Sandip Patil, conferred October 2018, currently Assistant Professor

Anita Ghare, conferred November 2018, currently Associate Professor

Vidya Jadhav, conferred September 2019, currently Assistant Professor

Shubhangi Bandgar, conferred April 2021, currently Assistant Professor

Suryakant Patil, conferred June 2021, currently Assistant Professor

Pramod Kumbhar, conferred March 2023, currently Assistant Professor
Rakhee Bhosale, conferred November 2023, currently Assistant Professor
Dattatrya Narale, conferred February 2024, currently Assistant Professor
Omkar Kulkarni, conferred December 2025, PDF Gachon University, **South Korea**
Prashant Sanadi, conferred August 2026

Current Ph. D. students: 04

Tabbu Shaikh, registered January 2023
Sandip Pise, registered January 2023
Shridhar Rangar, registered January 2025
Akshay Pawar, registered January 2025

Collaboration:

Scientists from renowned universities/institutes have always extended scientific support, guidance and also offered great human values which always helped me to contribute to the science. Some of them are included here,

- **Prof. Kim Jin Hyeok**, Department of Materials Science and Engineering, Chonnam National University, Gwangju, **South Korea**
- **Prof. Kang Soon Hyung**, Department of Chemistry, Chonnam National University, Gwangju, **South Korea**
- **Prof. Nam Kyung-Wan**, Department of Energy and Materials Engineering, Dongguk University, Seoul, **South Korea**
- **Prof. Han Sung-Hwan**, Department of Chemistry, Hanyang University, Seoul, **South Korea**
- **Prof. Yoon Sam Sukgoo**, Solar Cell & Aerosol Science Laboratory, Mechanical Engineering Department, Korea University, Seoul, **South Korea**
- **Prof. Zhibin Ye**, Department of Chemical and Materials Engineering, Concordia University, Montreal, Quebec, **Canada**
- **Dr. Wadgaonkar P. P.**, National Chemical Laboratory, Council of Scientific and Industrial Research, **India**
- **Prof. Mane R. S.**, School of Physical Science, S. R. T. M. University, Nanded, **India**
- **Prof. Manjanna J.**, Department of Chemistry, Rani Channamma University, Belgavi, **India**

Personal Information and Educational Qualification:

Date of Birth: June 2, 1970

Education:

B. Sc. Chemistry Shivaji University, Kolhapur 1990
M. Sc. Chemistry Shivaji University, Kolhapur 1992
Ph. D. Chemistry Shivaji University, Kolhapur 2003