

1. Personal Information

- **Name:** Dr. Kiran K. Sanap
- **Position:** Assistant Professor, Head BSH&M Department & FY Coordinator.
- **Department:** Basic Sciences, Humanities & Management
- **Contact Information:**
Email: kksanap@sggs.ac.in,
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2. Educational Background

Degree	University	Year of passing
SET	-	2016
NET (LS)	-	2016
Ph. D (Catalysis)	Bhabha Atomic Research Centre - University of Pune	2015
M.Sc (Analytical Chemistry)	Dept. of Chemistry, University of Pune	2007
B. Sc, (Chemistry)	KTHM College, Nashik, University of Pune	2005

3. Research Interests

- **Areas of Expertise:** Heterogenous catalysis, Material Science, Photocatalysis, Environmental Chemistry.

4. Teaching Experience

- **10 years** of Teaching experience
- **Courses Taught:** Applied Chemistry I & II, Chemistry, Analytical Chemistry.
- **Course Development:** Developed course material for Applied Chemistry I & II & Chemistry.

5. Publications and Presentations

Google scholar:

<https://scholar.google.com/citations?user=4QtpLpMAAAAJ&hl=en&authuser=1>

Journal Articles:

1. Cordierite supported Pt+ Pd bimetallic catalysts for mitigation of H₂ under LOCA condition, KK Sanap, D Tyagi, AN Shirsat, SB Phapale, SB Waghmode, S Varma, 2024, International Journal of Hydrogen Energy 58, 1541-155.1
2. Development of a Simple Electroless Method for Depositing Metallic Pt-Pd Nanoparticles over Wire Gauge Support for Removal of Hydrogen in a Nuclear Reactor, KK Sanap, SS Mali, D Tyagi, AN Shirsat, SB Phapale, SB Waghmode, 2023, Materials 16 (19), 6541.
3. Femtosecond Laser-Induced Plasma Spectrometry of Bimetallic Noble Metal Catalysts. M. Pandiyathuray, A. K. Singh, Kiran. K. Sanap, B. N. Jagatap and S. Varma, 2016 Applied Spectroscopy, 70 (8).
4. Bimetallic Wiregauze Supported Pt-Ru Nanocatalysts for Hydrogen Mitigation, KK Sanap, S Varma, SB Waghmode, P Sharma, N Manoj, RK Vatsa, 2015, Journal of Nanoscience and Nanotechnology 15 (5), 3522-3529
5. Wire gauze and cordierite supported noble metal catalysts for passive autocatalytic recombiner, KK Sanap, S Varma, SB Waghmode, SR Bharadwaj, 2015, Nuclear Engineering and Design 294, 226-232.
6. Supported Pt nanoparticles for the hydrogen mitigation application, KK Sanap, S Varma, SB Waghmode, SR Bharadwaj, 2014, International journal of hydrogen energy 39 (27), 15142-15155
7. Variation in noble metal morphology and its impact on functioning of hydrogen mitigation catalyst, KK Sanap, S Varma, D Dalavi, PS Patil, SB Waghmode, SR Bharadwaj, 2011, International journal of hydrogen energy 36 (17), 10455-10467.

International Symposia/ Conferences

1. Synthesis, characterization of coumarin derivatives for possible phenylketonuria disorder, Neha Mishra, Pritesh Sharma, E. Agarkar & **Kiran K. Sanap**, 2nd World Congress on Chemistry, Dubai, UAE, Nov 25-26, 2022.
2. 1, 3 Benzothiozole derivatives-The Wonder material, Multicon-W, (ICHSTE-2022) 25-26 February, 2022, Thakur college of Engineering and Technology, Kandivali, Mumbai-40010 (Oral Presentation).

3. "Nano-chemistry: A scintillated prospect of Science, R. S. Chauhan*, Kiran K. Sanap, R. K. Singh, R. Bahuguna, February 27-28, 2015, Multicon, Thakur college of Engineering and Technology, Kandivali, Mumbai-40010 (Oral Presentation).
4. Development of supported noble metal catalyst for passive autocatalytic recombiner', Kiran K. Sanap, S. Varma, S. B. Waghmode, and S. R. Bharadwaj, International Workshop on New Horizons in Nuclear Reactor Thermal Hydraulics and Safety, (IW-NRTHS-2014), January 13-15, 2014, BARC-NPCIL, Mumbai, India, PO-20, (Poster Presentation), Awarded for best poster presentation.
5. 'A novel wire gauze supported Pt-Ru bimetallic nanoparticles catalyst for the application of hydrogen mitigation under LOCA condition', Kiran K. Sanap, S. Varma, S. B. Waghmode, and S. R. Bharadwaj, IVth International Conference on Advances in Energy Research, (ICAER-2013), December 10-12, 2013, IIT, Mumbai, India, PO-153, P-104. (Oral Presentation).
6. 18th DAE International Symposium & Workshop on Thermal Analysis (Thermans-2012), Training School Hostel, Anushaktinagar, Mumbai, 31st Jan-4th Feb 2012.
7. 'Preparation and catalytic activity evaluation of Pt-Pd wire gauze-based catalysts for the application of hydrogen mitigation', Kiran K. Sanap, S. Varma, S. B. Waghmode, and S. R. Bharadwaj, DAE-BRNS 4th International symposium on Material Chemistry (ISMC - 2012), December 11-15, 2012, BARC, Mumbai, India, H-02, P-352. (Poster presentation).
8. Impact of noble metal morphologies on functioning of hydrogen mitigation catalyst', Kiran K. Sanap, S. Varma, D. Dalavi, P. S. Patil, S. B. Waghmode and S. R. Bharadwaj, International Conference on Renewable Energy (ICRE-2011), Centre For Non-Conventional Energy Resources, University Of Rajasthan, Jaipur, India, NO-01. (Oral presentation).
9. Mixed noble metal on wire gauze-based catalyst for mitigation of hydrogen', Kiran K. Sanap, S. Varma, S. B. Waghmode and S. R. Bharadwaj, DAE-BRNS 3rd International symposium on Material Chemistry (ISMC - 2010), December 7-11, 2010, BARC, Mumbai, India, H-06, P-316. (Poster presentation).
10. XPS and UV-Vis absorption study of Pt, Pd wire gauze supported hydrogen mitigation catalysts Dr. Kiran K. Sanap, February 23-24, 2018, Multicon-W, NCASH, Thakur college of Engineering and Technology, Kandivali, Mumbai-40010 (Oral Presentation).
11. Nanoparticle synthesis of Copper and silver chalcogenides, R. S. Chauhan, Kiran K. Sanap, February 27-28, 2016, Multicon, Thakur college of Engineering and Technology, Kandivali, Mumbai-40010 (Oral Presentation).

12. 'Studies of development of supported noble metal catalysts for mitigation of hydrogen', Kiran K. Sanap, S. Varma, S. B. Waghmode, 26th Research Scholars Meet (RSM-2014), February 21-22, 2014, Indian Chemical Society-Department of Chemistry, C. K. T. Arts, Commerce and Science College, New Panvel, Mumbai- (Oral Presentation).
13. Influences of cordierite supported Pt nanoparticles on catalytic activity of H₂ and O₂ recombination reaction in air', Kiran K. Sanap, S. Varma, S. B. Waghmode, and S. R. Bharadwaj, Proceedings of 21st National Symposium on Catalysis, Catalysis for Sustainable Development (Catsymp-21), February 11-13, 2013, IICT, Hyderabad, India, PO-173, P-171. (Poster Presentation).
14. 23rd Annual Conference on Safety in Design, Construction & Operation of Nuclear Power Plants, Nov 7-9, 2012, (INSAC-2012), Mumbai.
15. Pt, Pt + Pd and Pd over Pt, wire gauze supported catalysts for mitigation of hydrogen under LOCA condition in nuclear reactor', Kiran K. Sanap, S. Varma, S. B. Waghmode, and S. R. Bharadwaj, Catalysis Scholars Meet (CATSCHOL-2011), Institute of Chemical Technology, Matunga, Mumbai, March-5th 2011 (Oral presentation).
16. Pt, Pd and Pt-Pd over cordierite plate catalysts for hydrogen and oxygen recombination reaction in air', Kiran K. Sanap, S. Varma, S. B. Waghmode and S. R. Bharadwaj, 20th National Symposium on Catalysis for Energy Conversion & Conservation of Environment (NCCR 2010), December 19-22, 2010, at IIT Madras, Chennai, P-72. (Poster presentation).

6. Professional Experience

- **Administrative Roles:**

Working as a Head, BSH&M from 30th December 2023.

Working as a FY Coordinator from 6th September 2024.

Worked as an Associate FY Coordinator from 12th Dec 2023 to 5th Sept 2024.

7. Professional Memberships

- **Associations:** Lifetime member of Society for Materials Chemistry.