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Dr. Aviraj Ramchandra Kuldeep

M.Sc., M. Ed., Ph.D., SET [Inorganic Chemistry]

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➤ Personal Details

Gender : Male

Birth Date : 27/06/1988

Marital Status : Married

Religion : Hindu

Postal address : Dept. of Chemistry, Shivaji University, Kolhapur 416004

➤ Academic Details

Degree/Exam	Year of Passing	University/Board	Percentage	Class
Ph.D [Chemistry]	September- 2022	Shivaji university, Kolhapur		
SET [Chemistry]	May-2016	Savitribai Phule University, Pune	Qualified	-
B. Ed	May-2014	Shivaji university, Kolhapur	64 %	I
M. Ed	Sep-2017	Shivaji university, Kolhapur	74 %	I
M.Sc. [Inorganic Chemistry]	June-2010	Shivaji university, Kolhapur	65 %	I
B.Sc [Chemistry]	April-2008	Shivaji university, Kolhapur	67 %	I

➤ Teaching Experience

Designation	Years	Institute
Asst.Professor (Ad-Hoc)	(15-Nov-2021-till date)-PG	Dept.of Chemistry, Shivaji university, Kolhapur
Asst.Professor (Contributory)	03 (2018-2021)-PG	Dept.of Chemistry, Shivaji university, Kolhapur
Asst.Professor (Ad-Hoc)	01 (19-Aug-17 to 24-May-2018)-PG	Dept.of Chemistry, Shivaji university, Kolhapur
Asst.Professor	01 (1-7-16 To 28-04-2017)-UG	Gopal Krishna Gokhale College, Kolhapur
Lecturer	03 (14-06-2013 To 31-05-2016)-UG	Dr.Bapuji Salunkhe Instt.of Engg. & Tech., Kolhapur
Asst.Professor	02 (01-07-11 To 31-05-13)-UG	Dr.D.Y.Patil Technical campus,Talsande, Kolhapur
Total Experience	12 Years [PG(06)+UG (06)]	
➤ Papers and posters presented at symposia and conferences		
<ol style="list-style-type: none"> 1. Participated in the online course on “Advances in Remote Sensing Techniques for Geological Applications” during 13-03-2023 to 24-03-2023 organized by ISRO, IIRS Dehradun, India. 2. Professional Development Programme on ‘Implementation of NEP-2020 for University and College Teachers’ held from 21-29 Sept. 2022. UGC-Approved Short-Term Professional Development Programme organized by IGNOU, New Delhi, India. 3. Presented paper under in Young Researcher category in International Conference on “Chemical Sciences in Sustainable Technology and Development” [2nd IC²S²TD] (24th – 26th November 2021) organized by the Department of Chemistry, Sardar Vallabhbhai National Institute of Technology, India in Association with the Department of Chemistry, Chung-Ang University, South Korea. 4. Presented an innovative idea in INNOVATION MEET(23 Nov 2021) organized by Shivaji university center for Innovation, Incubation, and Linkages(SCIIL) and SUK research and Development foundation (SUKRDF) 5. Participated in “Workshop and Hands on training on XRD” (11th -12th Nov. 2021) organized by SAIF and CFC under stride programme, Shivaji University Kolhapur. 6. Online Lecture Series Program under UGC-stride component –I-Scheme for Trans Disciplinary Research for India’s developing economy (27th Jan-1stFeb 2021), Dept.of Chemistry, Shivaji University Kolhapur. 		

7. Emerging Trends in Chemical and Material Sciences [ETCMS] (6 - 7 th March, 2020) Dept.of Chemistry, Shivaji University Kolhapur.
8. Hands on training of instrumental methods for chemical analysis (23 rd Dec-29 th Dec 2019) Dept. of Chemistry, Shivaji University Kolhapur.
9. Recent Trends in Chemistry and Materials Science [RTCMS] (9 th & 10 th Feb, 2019) Dept. of Chemistry, Shivaji University Kolhapur.
10. International Conference on Advanced Chemical Science [ICACS](1 st , 2 nd , & 3 rd Feb, 2018) Dept. of Chemistry, Shivaji University Kolhapur.
11. Ph. D program on application of nanotechnology in medical science (18 th & 19 th Oct, 2012) D. Y. Patil Medical college, Kolhapur.
➤ Ph.D. Thesis Title
Synthesis and Photocatalytic Studies of Carbon Based Metal Oxide Nanocomposites.
➤ Rewards
1. Swachhatta Saarthi Award (SSF), Waste to Wealth Mission-Government of India.(14-10-2022)
2. Golden Jubilee Research Fellowship (GJRF) Shivaji university Kolhapur.(8-2-20 to 11-11-21)
3. Research Assistant Fellowship under DST- PURSE, Phase-II. New Delhi. (8-12-18 to 7-11-19)
➤ Research publications/Book chapter/Book edited
1. Futuristic Trends in Chemical Material Sciences & Nano Technology Volume 3-2024, Book 17, IIP Series, e - ISBN: 978-93-5747-876-2, Publisher: Iterative International Publishers (IIP), Selfpage Developers Pvt Ltd.
2. Terminalia bellirica (Gaertn.) Roxb. extract-mediated green synthesis of magnesium oxide nanoparticles for multifunctional applications. Pradnya Patil, Nisha Nerlekar, Aviraj Kuldeep, Pradnya Patil, Prafull Dandge, Tukaram Dongale, Padma Dandge, Gajanan Rashinkar. Plant nano biology 8, 2024, 100069 https://doi.org/10.1016/j.plana.2024.100069
3. Highly Efficient Nanostructured TiO ₂ @carbon Thin Film for Photocatalytic degradation and Environment Remediation:A Green Approach Aviraj R. Kuldeep, Utkarsh U. More. Thin Film Nanomaterials: Synthesis, Properties and Innovative Energy Applications, 2024, 89-110. Bentham Science Publishers, Netherland.
4. Low cost synthesis and photocatalytic study of TiO ₂ -graphite nanocomposite A. Kuldeep, U. More, S. S. Patil, S. Patil, A Patil. Res. Chem. Intermed. 49 (2023) 3765–3785.
5. Green Synthesis of TiO ₂ /CDs Nano Hybrid Composite as an Active Photocatalyst for the Photodegradation of Methyl Orange. A. R. Kuldeep, R. D. Waghmare, K. M. Garadkar, J. Mater. Sci. Mater. Electron. 33 (2022) 7933–7944.
6. Development of g-C ₃ N ₄ -TiO ₂ Visible Active Hybrid Photocatalyst For The Photodegradation of Methyl Orange. A. R. Kuldeep, R. S. Dhabbe, K. M. Garadkar, Res. Chem. Intermed. 47 (2021) 5155-5174.
7. Enhanced photocatalytic performance of TiO ₂ –carbon nanocomposite, A. R. Kuldeep, A. S. Bhosale, K. M. Garadkar, J. Mater. Sci. Mater. Electron. 31 (2020) 9006–9017.
8. Photocatalytic degradation of methyl orange by Eu doped SnO ₂ nanoparticles, T. T. Bhosale, A. R. Kuldeep, S. J. Pawar, B. S. Shirke, K. M. Garadkar, J. Mater. Sci. Mater. Electron. 30 (2019) 18927–18935.
➤ Extension Work carried out

<ol style="list-style-type: none"> 1. Presented an innovative idea in INNOVATION MEET(23 Nov 2021) organized by Shivaji university center for Innovation, Incubation, and Linkages(SCIIL) and SUK Research and development Foundation (SUKRDF). 2. Worked as External examiner B.Sc-M.Sc, Nanoscience-nanotechnology 2022. 3. Worked as an Expert for question bank preparation in Industrial chemistry 2022. 4. Worked as Paper Setter for semester exam 2022. 5. Participated actively in the National Science week program held in the Dept. of chemistry February-2022. 6. Worked as Reviewer for the International Journal-South African Journal of Chemical Engg.- ELSVIER-2023. 7. Worked as Reviewer for the International Journal-Chemical Papers-SPRINGER-2023. 8. Worked as Reviewer for the International Journal -Sustainable chemical engineering- UNIVERSAL WISER-2023. 9. Worked as Editor of the International edited book-‘Futuristic trends in Chemical Material Sciencesand Nanotechnology’-Book 17,Volume 03, 2024.
➤ Extracurricular activities
<ol style="list-style-type: none"> 1. Participated in Online course Advances in Remote sensing technologies for geological applications (13-3-23 to 24-03-23) 2. Participated in the online course on advances in remote sensing techniques for geological applications during 13-03-2023 to 24-03-2023 3. Participated in G20 summit quiz 2023. Ministry of education Govt.of India. 4. Participated in international day of yoga quiz 2.0 2023 Ministry of Ayush Govt.of India. 5. Participated in the place to include the potton millet based food in daily diet and to maintain household nutrition security 2023-indian institute of millets research Govt.of India. 6. Participated in chandrayan 3 maha quiz 2023-ISRO Govt.of India. 7. Participated in sardar unity Trinity quiz 2023 Samarth Bharat Govt.of India. 8. Worked as Sports coordinator and done Anchoring in the Inauguration ceremony of Annual sports Event " Shiv-Spnadan" khel mahotsav, 2023 shivaji university, kolhapur. 9. Participated in ‘Pariksha pe charcha’ Programme, 31 July 2023’. 10. UGC approved professional development program on implementation of NEP 2020 for university and college teachers. Held from 21 to 29 September 2022 11. Actively participated in ‘Science week’ under azadi ka amrit mahotsav held at the Dept.of chemistry. Feb-2022. 12. Delivered guest lecture at Ashokrao Mane College of Pharmacy, Peth Vadgaon, on the occasion of ‘National Science Day’ -28 Feb 2024. 13. External Examiner at M.Sc- I,Sem- II practical exam at Bhogavati college,Krukali,Kolhapur during 03 April 2024 to 06 April 2024. 14. Participated in NEP Orientation & Sensitization Programme under Faculty Development Programme held from 4th June 2024 – 13th June 2024. Centre for Professional Development in Higher Education (CPDHE)UGC - Malaviya Mission Teacher Training Centre (MMTTC)University of Delhi Delhi - 110 007
➤ Research Guidance
<ol style="list-style-type: none"> 1. M. Sc- Projects : 20 2. M. Phil/ Ph. d. : Nil.

Dr. Aviraj R. Kuldeep