Brief Bio-data of Dr. Dakeshwar Kumar Verma

Dr. Dakeshwar Kumar Verma
(डॉ. डाकेश्वर कुमार वर्मा)

Email:
dakeshwarverma@gmail.com
drdakeshwarverma@gdcr.ac.in

Corresponding address
Asst. Professor, Dept. of Chemistry, Govt. Digvijay Autonomous P. G. College, Rajnandgaon (C.G.)
Pin: 491441

Mobile No.: +919993623996
Marital Status: Married
Academic Exp.: 10years, 00 months

Brief Bio-data

AREA OF INTREST

Corrosion Inhibition, Medicinal plants, Nanoparticles, Organic Synthesis, Metal Complexes, Material Science and DFT &MD-MC Simulations

CURRENT STATUS

Sep 09, 2017 to Present — **Assistant Professor**, Department of Chemistry, Govt. Digvijay Autonomous P. G. College, Rajnandgaon (C. G) 491441.

ACADEMIC EXPERIENCE (10 Years 00 Months, Up to 04 April 2026)

Apr 04,2016–Sep 08, 2017 (01Y06M00D) — **Assistant Professor**, Department of Chemistry, Vishwavidyalaya Engineering College, Lakhanpur, Sarguja University, Ambikapur (C. G.), Since April 04, 2016.

SUPERVISION (PH.D SCHOLARS)

- **Ph.D Awarded:**
  1. (Co-guide) ***Komal Kashyap***, research scholar at the Department of Chemistry, *National Institute of technology*, Raipur, Chhattisgarh
     Award date: 22.07.2024.
  2. Yeestdev Dewangan, Research Scholar at Department of Chemistry, Govt. Digvijay Auto. PG College, Rajnandgaon, Chhattisgarh (Affiliated to Hemchand Yadav University, Durg, Chhattisgarh)
     Title: Synthetic compounds as sustainable corrosion inhibitors for mild steel in acidic medium.
     Award date: 12.12.2025.
  3. Guiding 01 research scholar as co-guide at the Department of Chemistry, Govt. Digvijay Autonomous P. G. College, Rajnandgaon (C. G)

491441.

RESEARCH PROJECTs (Completed)

1. Project Title *"Exploring Health and Financial Impact Analysis of Medicinal Plants through Product Development and Scientific validation in remote Location of Chhattisgarh: Bridging Tribal Indigenous Knowledge through Artificial Intelligence."*
   Amount: 50 Lakh
   Funded By: IBITF IIT Bhilai under the DST scheme, New Delhi, India (March 2025)
   Tenure: 2 Years
2. Title "Biological synthesis, physico-chemical characterization and application of silver nanoparticles." Funded Institute: Autonomous cell Govt. Digvijay Autonomous College, Rajnandgaon (Chhattisgarh) 491441
   Tenure of Project: 02 Years (Completed).
3. Title: "*Bioactivity of silver nanoparticles from rare yellow palash*."
   Funded Institute: Autonomous cell Govt. Digvijay Autonomous College, Rajnandgaon (Chhattisgarh) 491441
   Tenure of Project: 01 Years (Completed).

EDUCATIONAL PROFILE

2013-2017	**Ph.D,** entitled "*Study on Selected Natural Plant Extracts as Mild Steel Corrosion Inhibitors in Acidic Media*" from Department of Chemistry, ***National Institute of Technology, Raipur, Chhattisgarh***, India.
2008-2010	**M.Sc. Chemistry (65.25%),** from Kamla Nehru College, Korba, ***Guru GhasidasCentralUniversity***, Bilaspur, Chhattisgarh, India.
2003-2006	**B.Sc. Biology (59.94% Ist Division by Grace),** from Govt. Digvijay P. G. College, Rajnandgaon, Pt. RavishankarShukla University, Raipur, Chhattisgarh, India.
2002-2003	**12th Biology (64.40%)** from Govt. Higher Secondary School Ghumka (Rajnandgaon), Chhattisgarh Board of Secondary Education, C. G. Raipur.

2000-2001	**10th(63.66%)** from Govt. Higher Secondary School Ghumka (Rajnandgaon),Board of Secondary Education, M.P. Bhopal.

ADDITIONAL QUALIFICATION

NET	Qualified ***CSIR-JRF*** (**June 2013**) Exam Jointly Conducted by Council of Scientific and Industrial Research (CSIR), and University Grant Commission (UGC) Government of India for doctoral research with *AIR-53.* **(NET-LS**: December 2012 & June 2015)
GATE	Qualified in the years **2012** Conducted by Indian Institute of Technology DELHI and **2013** Conducted by Indian Institute of Technology MUMBAI.
SET	Qualified in the year **2013** Conducted by CG VYAPAM, Raipur, Chhattisgarh.

Scholastic achievements

- **Listed among top 2% scientists worldwide in 2025 according to Standford University and Elsevier.**
- Awarded CSIR-JRF (**June 2013**) from the Council of Scientific and Industrial Research (CSIR), Government of India for doctoral research.
- Received MHRD fellowship during Ph.D Programme

Orientation Programme

1. Orientation Program from07 – 27 January 2020 at Human Resource Development Centre, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, INDIA 491441

Refresher Course

1. Refresher Course in Chemical Sciences at GOA University 10.03.2026 to 25.03.2026 UGC - Malaviya Mission Teacher Training Centre, GOA University.
2. Refresher Course in Natural Sciences at Calicut University, Kerala, 14.10.2024 to 28.10.2024 UGC -Malaviya Mission Teacher Training Centre, Calicut University, Kerala.
3. Completed Online Refresher Course in Chemistry for Higher Education-2021, Organized by Ministry of Human Resource Development, Delhi and examination taken by National Test Agency (NTA).
4. Completed Online Two Week Faculty Development Program Disciplinary Refresher Course (Natural Science) from 20/09/2021-04/10/2021, Organized by TLC Ramanujan College, Delhi

Editorial Experience

1. https://pubs.acs.org/doi/pdf/10.1021/bk-2024-1465.ot001
2. https://esciencesspectrum.com/EditorialBoard.aspx

PUBLICATION (INTERNATIONAL JOURNALS: INDEXING IN: WEB OF SCIENCE, SCOPUS, UGC-CARE LIST, CLARIVATE JOURNAL LIST) Total: 60
Reference Style: Chicago

1. Mahish, Pramod Kumar, Shweta Singh, Kaushal Kumar Sahu, Dakeshwar Kumar Verma, Gajanan Ghodake, Ravishankar Chauhan, Shushil Kumar Rai, and Shailesh Kumar Jadhav. "GC-MS Metabolite Profiling and Computational Ranking of Butea Monosperma and Their Predicted Contribution to Antimicrobial Activity against MRSA." Phytochemistry Letters 72 (April 2026): 104131. https://doi.org/10.1016/j.phytol.2026.104131. Publisher: Elsevier BV. (ISSN: 1876-7486).
2. Tiwari, Kanha Singh, Shailendra Yadav, Mrityunjay Shukla, Rishikesh Chandravanshi, Brahim El Ibrahimi, Dakeshwar Kumar Verma, Akhil Saxena, and Laxmi Agnihotri. "Green synthesis, characterization, corrosion inhibition efficiencies, and DFT study of new triazole-based heterocyclic compounds for mild steel in 1 N HCl." *Journal of Engineering and Applied Science* 72, no. 1 (2025): 154. https://doi.org/10.1186/s44147-025-00709-6. Publisher: Springer Science and Business Media LLC. (Electronic **ISSN**: 2536-9512. Print **ISSN**: 1110-1903.)
3. Kaur, Jasdeep, Akhil Saxena, Konstantin P. Katin, Elyor Berdimurodov, and Dakeshwar Kumar Verma. "Utilization of expired drug Rosuvastatin as an efficient corrosion inhibitor for mild steel in 0.5 M H2SO4: a step toward the sustainability." *The European Physical Journal Plus* 140, no. 7 (2025): 618. https://doi.org/10.1140/epjp/s13360-025-06561-0. Publisher: Springer Science and Business Media LLC. (ISSN: 2190-5444).
4. Mishra, Purnima, Rajmani Patel, Dakeshwar Kumar Verma, and Akhil Saxena. "Halloysite-Cerium Nanocomposite Synthesis, Optimization, and Substantial Characterization for Effective Fluoride Removal from Aqueous Solutions." Inorganic Chemistry Communications 179 (September 2025): 114838. https://doi.org/10.1016/j.inoche.2025.114838. Publisher: Elsevier BV. (ISSN: 1387-7003).
5. Saxena, Akhil, Jasdeep Kaur, Vishal Mutreja, Krishna Kumar Yadav, Ahmad J. Obaidullah, Konstantin P. Katin, Elyor Berdimurodov, and Dakeshwar Kumar Verma. "Gravimetric, electrochemical, surface morphological, and simulation studies of the use of expired Meftal-P drug as a novel anti-corrosive coating material for steel in 0.5 M HCl." *The European Physical Journal Plus* 140, no. 6

(2025): 471. https://doi.org/10.1140/epjp/s13360-025-06434-6. Publisher: Springer Science and Business Media LLC. (ISSN: 2190-5444).

6. Sharma, Abhishek, Akhil Saxena, Jasdeep Kaur, Vishal Mutreja, Krishna Kumar Yadav, Ahmad J. Obaidullah, Dakeshwar Kumar Verma, Konstantin P. Katin, and Elyor Berdimurodov. "Exploration of the Ocimum americanum extract as a novel pickling agent for steel in sulfuric acid medium: electrochemical, surface modification, DFT, and MC simulation studies." *The European Physical Journal Plus* 140, no. 5 (2025): 412. https://doi.org/10.1140/epjp/s13360-025-06376-z. Publisher: Springer Science and Business Media LLC. (ISSN: 2190-5444).
7. Daoudi, Walid, Amarpreet Kour Bhatia, Shippi Dewangan, Rubina Sahin, Sonali Loya, Dakeshwar Kumar Verma, Ibrahim A. Naguib, and Abdelmalik El Aatiaoui. "Heterocyclic compounds and hybrid materials: green corrosion inhibitors for ferrous and non-ferrous materials." *Chemical Papers* 79, no. 8 (2025): 4865-4882. https://doi.org/10.1007/s11696-025-04122-4. Publisher: Springer Science and Business Media LLC. (ISSN: 2585-7290).
8. Arora, Charu, Aazad Verma, Sanju Soni, Santosh Kumar, Aparna Kesharwani, Nidhi Rai, Jyoti Mittal, and Dakeshwar Kumar Verma. "Recent advances in sequestration of dyes using metal–organic frameworks." *Chemical Papers* 79, no. 6 (2025): 3513-3545. https://doi.org/10.1007/s11696-025-04025-4. Publisher: Springer Science and Business Media LLC. (ISSN: 2585-7290).
9. Ansari, Iqbal, Charu Arora, Aazad Verma, Alaa El Din Mahmoud, Maha M. El-Kady, Ravikumar Rajarathinam, **Dakeshwar Kumar Verma**, and Pramod Kumar Mahish. "A Critical Review on Biological Impacts, Ecotoxicity, and Health Risks Associated with Microplastics." Water, Air, &Soil Pollution 236, no. 2 (January 7, 2025). https://doi.org/10.1007/s11270-024-07731-z. Publisher: Springer Science and Business Media LLC. (ISSN: 1573-2932).
10. Dewangan, Yeestdev, Walid Daoudi, **Dakeshwar Kumar Verma**, Raghvendra Kumar Mishra, Rajesh Haldhar, Elyor Berdimurodov, Seong-Cheol Kim, et al. "Examining the Outstanding Corrosion Inhibition Performance of Nicotinic Hydroxamic Acid in Acid Pickling: A Comprehensive Study." Chemical Papers 79, no. 3 (January 14, 2025): 1753–69. https://doi.org/10.1007/s11696-025-03886-z. Publisher: Springer Science and Business Media LLC. (ISSN: 2585-7290).
11. Jha, Hritik, Akhil Saxena, Jasdeep Kaur, Konstantin P. Katin, Elyor Berdimurodov, Dakeshwar Kumar Verma, and Farid S. Ataya. "Corrosion Inhibition Assessment of the Curcumis Melon Extract on Low-Carbon Steel in 0.5 M H2SO4 Using Potentiodynamic Polarization, Electrochemical Impedance Spectroscopy, Scanning Electron Microscope, DFT and MD Simulation Studies." The European Physical Journal Plus 139, no. 12 (December 17, 2024. https://doi.org/10.1140/epjp/s13360-024-05903-8. Publisher: Springer Science and Business Media LLC. (ISSN: 2190-5444).

12. Mishra, Purnima, Lakhvinder Kaur, Rajmani Patel, Raghvendra Kumar Mishra, Dakeshwar Kumar Verma*, and Walid Daoudi. "Synthesis and Characterization of Halloysite-Cerium Nanocomposite for Removal of Manganese." Journal of Environmental Chemical Engineering 12, no. 6 (December 2024): 114611. https://doi.org/10.1016/j.jece.2024.114611. Publisher: Elsevier BV. (ISSN: 2213-3437).

13. Raghvi, Akhil Saxena, Jasdeep Kaur, Elyor Berdimurodov, and Dakeshwar Kumar Verma. Synergistic Mixture of the DactylocteniumAegyptium Extract and KI as an Environment Friendly and Highly Efficient Corrosion Inhibitor for Steel in 0.5 M HCl." Journal of the Indian Chemical Society 101, no. 10 (October 2024): 101317. https://doi.org/10.1016/j.jics.2024.101317. Publisher: Elsevier BV. (ISSN=0019-4522).

14. Jain, Bhawana, Walid Daoudi, Ajaya K. Singh, Garima Pravin Pandey, Surend ra Prasad, Dakeshwar Kumar Verma, and Elyor Berdimurodov. "Graphene Bas ed Nanocomposites Enhanced Fenton Process for Azo Dye Degradation." Nan o-Structures & Nano-Objects 40 (December 2024): 101329. https://doi. org/10.1016/j.nanoso.2024.101329. Publisher: Elsevier BV. (ISSN: 2352-50 7X).

15. Jain, Bhawana, Dakeshwar Kumar Verma, Reena Negi Rawat, and Elyor Berdi murodov. "Nanomaterials in Targeting Cancer Cells with Nanotherapeutics: Tr ansitioning Towards Responsive Systems." Current Pharmaceutical Design 30, no. 38 (November 2024): 3018–37. https://doi.org/10.2174/011381612831 7407240724065912. Publisher: Bentham Science Publishers Ltd. (ISSN: 138 1-6128).

16. Mahish, Pramod Kumar, Dakeshwar Kumar Verma*, Anjali Ghritlahare, Charu Arora, and Paz Otero. "Microbial Bioconversion of Food Waste to Bio-Fertilizer s." Sustainable Food Technology 2, no. 3 (2024): 689–708. https://doi.org/10 .1039/d3fb00041a. Publisher: Royal Society of Chemistry (RSC), (ISSN 2753 -8095).

17. Singh, Sanju, Jaya V. Gade, Dakeshwar Kumar Verma, Berdimurodov Elyor, a nd Bhawana Jain. "Exploring ZnO Nanoparticles: UV–Visible Analysis and Diffe rent Size Estimation Methods." Optical Materials 152 (June 2024): 115422. ht tps://doi.org/10.1016/j.optmat. 2024.115422. Publisher: Elsevier BV. (ISSN: 0925-3467).

18. Ansari, Iqbal, Maha M. El-Kady, Alaa El Din Mahmoud, Charu Arora, Aazad Verma, Ravikumar Rajarathinam, Priyanka Singh, Dakeshwar Kumar Verma, and Jyoti Mittal. "Persistent Pesticides: Accumulation, Health Risk Assessment, Management and Remediation: An Overview." Desalination and Water Treatment 317 (January 2024): 100274. https://doi.org/10.1016/j.dwt.2024.100274. Publisher: Elsevier BV) (ISSN: 1944-3986)

19. Sangma, Samson Rosly, Mayur Mausoom Phukan, VahshiChongloi, Dakeshwar Kumar Verma, Plaban Bora, Sony Kumari, and Pranay Punj Pankaj. "Phytochemical Profiling, Antioxidant and Antimicrobial Investigations on Viburnum Simonsii Hook. f. & Thoms, an Unexplored Ethnomedicinal Plant of Meghalaya, India." Future Journal of Pharmaceutical Sciences 9, no. 1 (December 11, 2023. https://doi.org/10.1186/s43094-023-00567-0. Publisher: Springer Science and Business Media LLC. (ISSN: 2314-7253)

20. Hamdi, Abdeljalil, Walid Daoudi, Mohamed Aaddouz, Mohamed Azzouzi, Hassan Amhamdi, Abdellah Elyoussfi, Abdelmalik El Aatiaoui, Dakeshwar Kumar Verma, Mohamed Abboud, and M'hamedAhari. "Various Synthesis and Biological Evaluation of Some Tri -Tetra-Substituted Imidazoles Derivatives: A Review." Heliyon 10, no. 10 (May 2024): e31253. https://doi.org/10.1016/j.heliyon.2024.e31253. Publisher: Elsevier BV. (ISSN: 2405-8440).

21. Verma, Chandrabhan, Dheeraj Singh Chauhan, Ruby Aslam, Priyabrata Banerjee, Jeenat Aslam, Taiwo W. Quadri, Saman Zehra, et al. "Principles and Theories of Green Chemistry for Corrosion Science and Engineering: Design and Application." Green Chemistry 26, no. 8 (2024): 4270–4357. https://doi.org/10.1039/d3gc05207a. Publisher: Royal Society of Chemistry (RSC). (ISSN: 1463-9270).

22. El Mahamdi, Mohamed, Walid Daoudi, Omar Dagdag, Hansang Kim, Firdaouss Eddaoudy, Dakeshwar Kumar Verma, Sangeeta Gupta, et al. "Integrating Experimental and Theoretical Studies in the Development of a Novel Alginate-Based Bio-Composite for Copper Anticorrosion in 3.5 % NaCl Environments." International Journal of Biological Macromolecules 257 (February 2024): 128600. https://doi.org/10.1016/j.ijbiomac.2023.128600. Publisher: Elsevier BV. (ISSN: 0141-8130).

23. Kaur, Jasdeep, Hamad Almujibah, Mohammad Mahtab Alam, Abha Singh, Akhil Saxena, Dakeshwar Kumar Verma, and Elyor Berdimurodov. "Electrochemical and DFT Studies of the Pistacia Integerrima Gall Extract: An Eco-Friendly Ap

proach towards the Corrosion of Steel in Acidic Medium." ACS Omega, Februa ry 8, 2024. https://doi.org/10.1021/acsomega.3c06824. Publisher: American Chemical Society (ACS). (ISSN: 2470-1343).

24. Daoudi, Walid, Ashish Tiwari, Mukesh Tyagi, Priyanka Singh, Akhil Saxena, Da keshwar Kumar Verma*, Omar Dagdag, Hemant Kumar Sharma, Paz Otero Fu ertes, and Abdelmalik El Aatiaoui. "Carbon Dots Nanoparticles: A Promising Br eakthrough in Biosensing, Catalysis, Biomedical and Authers Applications." Na no-Structures & Nano-Objects 37 (February 2024): 101074. https://doi. org/10.1016/j.nanoso.2023.101074. Publisher: Elsevier BV. (ISSN: 2352-50 7X).

25. Verma, Chandrabhan, Dakeshwar Kumar Verma, Elyor Berdimurodov, Imad B arsoum, Akram Alfantazi, and Chaudhery Mustansar Hussain. "Green Magneti c Nanoparticles: A Comprehensive Review of Recent Progress in Biomedical a nd Environmental Applications." Journal of Materials Science 59, no. 2 (Decem ber 21, 2023): 325–58. https://doi.org/10.1007/s10853-023-08914-5. Publi sher: Springer Science and Business Media LLC. (ISSN: 1573-4803).

26. Dehghani, Ali, Elyor Berdimurodov, Chandrabhan Verma, Dakeshwar Kumar V erma, Khasan Berdimuradov, M. A. Quraishi, and Nizomiddin Aliev. "Construct ing Efficacy: A Novel Perspective on Organic Corrosion Inhibitors and Interfaci al Interactions." Chemical Papers 78, no. 3 (November 16, 2023): 1367–97. h ttps://doi.org/10.1007/s11696-023-03181-9. Publisher: Springer Science an d Business Media LLC. (ISSN: 2585-7290).

27. Abuelela, Ahmed M., Jasdeep Kaur, Akhil Saxena, Mahmoud A. Bedair, Dakes hwar Kumar Verma, and Elyor Berdimurodov. "Electrochemical and DFT Studi es of Terminalia Bellerica Fruit Extract as an Eco-Friendly Inhibitor for the Cor rosion of Steel." Scientific Reports 13, no. 1 (November 8, 2023. https://doi.o rg/10.1038/s41598-023-45283-0. Publisher: Springer Science and Business Media LLC. (ISSN: 2045-2322).

28. Verma, Dakeshwar Kumar, Reema Sahu, Elyor Berdimurodov, Chandrabhan V erma, M.A. Quraishi, Vikas Kumar Jain, and Khasan Berdimuradov. "Isatin as a New Core in the Development of Corrosion Inhibitors: A Comprehensive Rev iew." Journal of Molecular Structure 1294 (December 2023): 136313. https:// doi.org/10.1016/j.molstruc.2023.136313. Publisher: Elsevier BV. (ISSN: 002 2-2860).

29. Verma, Chandrabhan, Elyor Berdimurodov, Dakeshwar K. Verma*, Khasan Berdimuradov, Akram Alfantazi, and Chaudhery Mustansar Hussain. "3D Nanomaterials: The Future of Industrial, Biological, and Environmental Applications." Inorganic Chemistry Communications 156 (October 2023): 111163. https://doi.org/10.1016/j.inoche.2023.111163. Publisher: Elsevier BV. (ISSN: 1387-7003).

30. Kashyap, Komal, Dakeshwar Kumar Verma, Subrat Kumar Pattanayak, and Fahmida Khan. "Green Synthesized Cerium Oxide Nanoparticles as Efficient Adsorbent for Removal of Fluoride Ion from Aqueous Solution." Water, Air, & Soil Pollution 234, no. 3 (March 2023. https://doi.org/10.1007/s11270-023-06191-1. Publisher: Springer Science and Business Media LLC. (ISSN: 1573-2932).

31. El-Kady, Maha M., Iqbal Ansari, Charu Arora, Nidhi Rai, Sanju Soni, Dakeshwar Kumar Verma*, Priyanka Singh, and Alaa El Din Mahmoud. "Nanomaterials: A Comprehensive Review of Applications, Toxicity, Impact, and Fate to Environment." Journal of Molecular Liquids 370 (January 2023): 121046. https://doi.org/10.1016/j.molliq.2022.121046. Publisher: Elsevier BV. (ISSN: 0167-7322).

32. Ashish Kumar, Asatkar, Verma Dakeshwar Kumar, and Elyor Berdimurodov. " Recent Trends in Noble-Metals Based Composite Materials for Supercapacitors : A Comprehensive and Development Review." Journal of the Indian Chemical Society 100, no. 1 (January 2023): 100817. https://doi.org/10.1016/j.jics.2022.100817. Publisher: Elsevier BV. (ISSN: 0019-4522).

33. Kaur, Jasdeep, Akhil Saxena, Elyor Berdimurodov, and Dakeshwar Kumar Verma. "Euphorbia Prostrata as an Eco-Friendly Corrosion Inhibitor for Steel: Electrochemical and DFT Studies." Chemical Papers 77, no. 2 (October 15, 2022): 957–76. https://doi.org/10.1007/s11696-022-02533-1. Publisher: Springer Science and Business Media LLC. (ISSN: 2585-7290).

34. Verma, Dakeshwar Kumar, Yeestdev Dewangan, Ajaya Kumar Singh, Raghvendra Mishra, Md Abu Bin Hasan Susan, Rajae Salim, Mustapha Taleb, Fadoua El Hajjaji, and Elyor Berdimurodov. "Ionic Liquids as Green and Smart Lubricant Application: An Overview." Ionics 28, no. 11 (August 5, 2022): 4923–32. https://doi.org/10.1007/s11581-022-04699-w. Publisher: Springer Science and Business Media LLC. (ISSN: 1862-0760).

35. Berdimurodov, Elyor, Ilyos Eliboyev, Khasan Berdimuradov, Abduvali Kholikov, Khamdam Akbarov, Omar Dagdag, Mohamed Rbaa, et al. "Green β-Cyclodextrin-Based Corrosion Inhibitors: Recent Developments, Innovations and Future Opportunities." Carbohydrate Polymers 292 (September 2022): 119719. https://doi.org/10.1016/j.carbpol.2022.119719. Publisher: Elsevier BV. (ISSN: 0144-8617).

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37. Kashyap, Komal, Fahmida Khan, Dakeshwar Kumar Verma, and Sonalika Agrawal. "Effective Removal of Uranium from Aqueous Solution by Using Cerium Oxide Nanoparticles Derived from Citrus Limon Peel Extract." Journal of Radioanalytical and Nuclear Chemistry 332, no. 7 (February 8, 2022): 2435–45. https://doi.org/10.1007/s10967-021-08138-4. Publisher: Springer Science and Business Media LLC. (ISSN: 1588-2780).

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Green Corrosion Inhibitors: A Prospective Review." Journal of Molecular Liquids 349 (March 2022): 118124. https://doi.org/10.1016/j.molliq.2021.118124. Publisher: Elsevier BV. (ISSN: 0167-7322)

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nhibitors." Environmentally Sustainable Corrosion Inhibitors, 2022, 219–44. ISBN: 9780323854054. Publisher: Elsevier. https://doi.org/10.1016/b978-0-323-85405-4.00011-2.

31. Haldhar, Rajesh, Seong-Cheol Kim, Elyor Berdimurodov, Dakeshwar Kumar Verma, and Chaudhery M. Hussain. "Corrosion Inhibitors: Industrial Applications and Commercialization." Sustainable Corrosion Inhibitors II: Synthesis, Design, and Practical Applications, November 15, 2021, 219–35. ISBN: 9780841297876. Publisher: American Chemical Society. https://doi.org/10.1021/bk-2021-1404.ch010.

32. Dewangan, Yeestdev, Amit Kumar Dewangan, Shobha, and Dakeshwar Kumar Verma. "Carbon Nanotubes as Corrosion Inhibitors." Organic Corrosion Inhibitors, November 7, 2021, 371–85. ISBN: 9781119794516. Publisher: Wiley. https://doi.org/10.1002/9781119794516.ch16.

33. Dewangan, A. K., Y. Dewangan, and **Dakeshwar Kumar Verma***. "Pyrazine Derivatives as Green Corrosion Inhibitors." *Theory and Applications of Green Corrosion Inhibitors* 86 (2021): 161-182.ISSN=2471-8904.Publisher: Materials Research Forum LLC. https://doi.org/10.21741/9781644901052-6.

34. Dewangan, Y., A. K. Dewangan, and **Dakeshwar Kumar Verma***. "Polysaccharide as Green Corrosion Inhibitor." *Sustainable Corrosion Inhibitors* 107 (2021): 70.ISSN=2471-8904. Publisher: Materials Research Forum LLC. https://doi.org/10.21741/9781644901496-4.

35. Verma, Dakeshwar Kumar. "Density Functional Theory (DFT) as a Powerful Tool for Designing Corrosion Inhibitors in Aqueous Phase." Advanced Engineering Testing, October 24, 2018. ISBN: 9781789842449. Publisher: InTech. https://doi.org/10.5772/intechopen.78333.

Awards

2025

1. Mahant Raja SarweshwarDas Academic Excellence Award 2025 in recognition of outstanding dedication, academic excellence, and research during International Seminar, "Sustainable Development and Climate Change (ISSDC-2025)" held from 04 to 06 March 2025.

2. Listed in World top 2% Scientist in the year 2025, Data verified and Sourced from ELSEVIER and Stanford

University's Top 2% Scientific list.

2018

3. **2nd** Best poster presentation on National Seminar, Dept. of Physics, Govt. Digvijay P. G. Autonomous College, Chhattisgarh, 29th January 2018.

International/National Conferences/Seminar/Workshop Organized

2025

1. ***Organizing committee member*** at Three Days workshop on "Indian Knowledge System", Organised by IKS committee, Govt. Digvijay P. G. Autonomous College, Chhattisgarh, INDIA from 29 to 31 October 2025.

2. ***Convener*** at Two Days National Workshop on "Healing Herbs: A Practical Workshop on Natural Wellness", Organised by the Department of Chemistry, Govt. Digvijay Autonomous P.G. College, Rajnandgaon, Chhattisgarh on 1-2 September 2025.

3. ***Organizing Secretory*** at Seven Days Workshop on Employment Guidance & Personality Development Organised by Govt. Digvijay Autonomous P.G. College, Rajnandgaon, Chhattisgarh on the occasion of International Youth Day from 23 to 30 August 2025.

2023

1. **Organising Secretary** at International Conference on Roll of Applied Sciences in Social Implications, 6-8th February 2023, Organised by Department of Science, Govt. Digvijay Auto. P.G. College, Rajnandgaon (C.G.) INDIA.

2021

1. ***Organising Secretary*** at International Web Conference on *Emerging Fields in Chemistry: Advances And Applications*, 10-11th August 2021, Organised by Department of Chemistry, Govt. KamladeviRathi Girls P.G. College, Rajnandgaon (C.G.) INDIA.
2. ***Organizing committee member*** at National Web-Conference on "*Novel Trends in Chemical Sciences (NTCS 2021*), 20-21 October 2021, Organised by Department of Chemistry, Govt. Digvijay P. G. Autonomous College, Chhattisgarh, INDIA.

International Conferences/Seminar/Workshopn (Invited talk/Paper presented/Session Chaired)

2026

1. Invited talk on "Indigenous Knowledge of Medicinal and Herbal Plants for Viksit Bharat" in "National Science Day Celebration 2026 "Indigenous Technologies for Viksit Bharat" Organized by Faculty of Science, Govt. Lal Chakradhar Shah PG College, Ambagarh Chowki (C.G.) India on dated 27.02.2026 & 28.02.2026.
2. Invited talk on "National Science Day 2026 "Igniting Young Minds: Science & Innovation" Organized by Dhurwarao Madia Government College, Bhairamgarh Dist. Bijapur (C.G.) India on dated 23.02.2026.
3. Invited talk on "Medicinal plant-driven herbal formulations: Bridging ancient Indian wisdom and modern sustainability at two days National Seminar on "Indian Knowledge System: Legacy of the past, the relevance of the present, and the direction of the future" Organized by Dhurwarao Madia Government College, Bhairamgarh Dist. Bijapur (C.G.) India on dated 24.02.2026 and 25.02.2026.
4. Session Chair at two days National Seminar on "Indian Knowledge System: Legacy of the past, the relevance of the present, and the direction of the future" Organized by Dhurwarao Madia Government College, Bhairamgarh Dist. Bijapur (C.G.) India on dated 24.02.2026 and 25.02.2026.
5. Invited talk on "Medicinal Plants as a Sustainable and eco-friendly substitute for MOF synthesis" at International Scientific Meeting Cum hands-on training on "Pharmaceutical, Environmental, and Industrial Applications of Metal-Organic Frameworks (MOFs)" Organised by Dept. of Chemistry, Guru Ghasidas Vishwavidhyalaya, Bilaspur (CG), India on 13-14 February 2026.

2025

1. Invited talk on "The Comprehensive Importance of Chhattisgarh's Endangered Plants: From Tribal Knowledge to Scientific Conservation" at International Conference on "Emerging Trends in Science, Technology and Management (ICETSTM - 2025)" Organised by Department of Chemistry & IQAC, Govt. S.P.M. College Sitapur, Surguja (C.G.) in Collaboration with Association of Chemistry Teachers (ACT) India on 28-29 November 2025.
2. Invited talk as a resource person on a Seven Days Workshop on "RESEARCH METHODOLOGY & ETHICS" Organised by Research and Project Promotion Committee, Govt. Digvijay Autonomous P.G. College, Rajnandgaon, Chhattisgarh on 11 to 17 November 2025.
3. Invited talk in two days workshop on "Scientific Innovation in Green Society" Organised by Rani Rashmi Devi Singh Govt. College, Khairagarh, Chhattisgarh on 29-30 October 2025.
4. Invited talk at Skill Development Workshop on Development of Herbal Products from Marigold, Organised by Dept. of Chemistry, in collaboration with Skill Development Cell, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh from 27 to 28 March 2025.
5. Invited talk on the topic "Citation & Indexing" on a Seven Days workshop on "Research Methodology" Organised by Govt. Digvijay Autonomous P.G. College, Rajnandgaon, Chhattisgarh on 6 February 2025.

2024

1. Session Chairperson at 3rd "International Conference on Environment, Agriculture, Human, and Animal Health" jointly organized by Voice Of Indian Concern for the Environment (VOICE), India (www.voiceindia.org.in); Global Digital University (GDU), New Delhi, India

(www.gdunversity.org); All India Institute of Training and Education (AIITE), New Delhi, India (www.aiiteindia.com) and Somnogen Canada Inc., Toronto, Canada on 16-17 August 2024.

2. Invited talk on "Predictive tools based on experimental and computational modeling for the design of potential corrosion inhibitors" at International Seminar on " Environment and sustainable development: Perespective and issues" Organised by the faculty of science, Govt. Shayama Prasad Mukharjee College, Sitapur, Chhattisgarh, India, on 10th -11th February 2024.

3. Session Chair at National Conference on "Increasing Importance of Science and Technology in Foreign Policy" organised by Guru Ghasidas Central University, Bilaspur, Chhattisgarh, on 20-21 Feb., 2024. Sponsored by the Indian Council for World Affairs (ICWA), New Delhi.

2023

1. "Green Corrosion Inhibitors: Fundamentals to Advance", 12th **National Conference** on Emerging Materials &Nanotechnology(NCEMN-2022) Organised by Department of Chemistry Govt. V.Y.T. PG Autonomous College Durg, Chhattisgarh, India, November 18-19, 2022.

2021

1. Invited lecture on "Important problems in the contemporary organic Chemistry" at ***International Conference*** organized by Department of Chemistry, Karshi State University, **Uzbekistan** on dated; 01 May 2021.

2. Invited lecture on "Synthetic Organic Compounds as Green Corrosion Inhibitors" at ***International Scientific and Practical Conference***, The Republic of **Uzbekistan**, Tashkent city, 28 May, 2021.

3. Invited lecture on "Corrosion inhibition mechanism and its

characterization techniques" National University of **Uzbekistan**, 25 November 2021.

2017

1. *International conference* on Electronics, Physics & Chemistry, JyotiNivas College Autonomous Bangalore, Karnataka, 16-18 February **2017**.

2014

1. 2nd Annual *International Conference* (AIC-2) & Industry – CCRS Congress (ICC), Andhra University, Visakhapatnam, 13-14 December **2014**.
2. *International conference* on Recent Advances in Analytical Science (RAAS-2014), Department of Chemistry, IIT BHU, Varanasi, 27-29 March, **2014**.

National Conference/Seminar (Invited talk/Paper presented/Session Chaired)

2026

1. Oral Presentation on "The Metaphorical Effectiveness of Specific Therapeutic Plants" at International Seminar on "Sustainable Development and Climate Change 2025 (ISSDC-2025)" Organised by Department of Zoology, Govt. Digvijay P.G. Autonomous College, Rajnandgaon, Chhattisgarh, India on 04 to 06 March 2025.

2023

1. National Conference on Futuristic Materials (NCFM - 2023), Department of Chemistry, Govt. V.Y.T. PG Autonomous College, Durg (C.G.), 22-23 June **2023**

2019

1. National conference on Recent Advances in Physical Sciences, Department of Mathematics, Physics & Chemistry, Govt. Kamladevi Rathi Girls P. G. College, Rajnandgaon, Chhattisgarh, 18-19 November**2019**.

2018

1. National conference on Advance in Environment & Chemical Sciences, School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, 22-23 March **2018**.
2. A National Seminar on Advance Research in Physics-Its Roll in the Development of Society, Dept. of Physics, Govt. Digvijay P. G. Autonomous College, Chhattisgarh, 29th January **2018**.
3. Determination of Redlich–Kister Coefficients of N-1-Naphthyl-o-ethoxybenzo hydroxamic Acid-Ethanol System, Priyanka Singh, Gokul Ram Nishad, YounusRaza Beg and ***Dakeshwar Kumar Verma***, National Seminar on

Advanced Research in Physics-its Role in the Development of Society, Govt. Digvijay PG Autonomous College, Rajnandgaon (C.G.), India, 29 Jan., 2017.

4. Study on fluoride contamination in groundwater at Dongargaon Block, Chhattisgarh, India, Gokul Ram Nishad, Priyanka Singh, YounusRaza Beg and ***Dakeshwar Kumar Verma*** National Seminar on Advanced Research in Physics-its Role in the Development of Society, Govt. Digvijay PG Autonomous College, Rajnandgaon (C.G.), India, 29 Jan., 2017.
5. Synthetic route for the conducting polymer: a Review, YounusRaza Beg, ***Dakeshwar Kumar Verma***, Priyanka Singh and Gokul Ram Nishad, National Seminar on Advanced Research in Physics-its Role in the Development of Society, Govt. Digvijay PG Autonomous College, Rajnandgaon (C.G.), India, 29 Jan., 2017.
6. Antioxidant and DNA Cleavage Protection Activity of *N*-1-Naphthyl-2-Methylbenzohydroxamic Acid, Priyanka Singh, Gokul Ram Nishad, YounusRaza Beg and ***Dakeshwar Kumar Verma*** National Conference on Advancements and Globalisation of Chemical Sciences for Man, Materials and Environment, C.V. Raman University, Bilaspur (C.G.), India, 09-10 Mar., 2018.
7. A Review on Synthesis, Properties and Applications of Conducting Polymer YounusRaza Beg, Priyanka Singh, ***Dakeshwar Kumar Verma***, Gokul Ram Nishad National Conference on Advancements and Globalisation of Chemical Sciences for Man, Materials and Environment, C.V. Raman University, Bilaspur (C.G.), India, 09-10 Mar., 2018.
8. Green synthesis of silver nanoparticles medicated by *Cassia Tore* seeds extract in aqueous solution ***Dakeshwar Kumar Verma***, YonusRaza Beg, Gokul ram Nishad, Priyanka Singh *National Conference* on Advancements and Globalisation of Chemical Sciences for Man, Materials and Environment, C.V. Raman University, Bilaspur (C.G.), India, 09-10 Mar., 2018.
9. Study on Fluoride contamination and its comparative analysis with other Physicochemical parameters of groundwater in Central India, Dongargaon block, Rajnandgaon district, Chhattisgarh, India Gokul Ram Nishad, Priyanka Singh, YounusRaza Beg and ***Dakeshwar Kumar Verma*** *National Conference* on "JalSanrakshan :SamaykiMang", Pt. SundarLal Sharma Open University (C.G.), India, 29-30 Mar., 2018.

2017

1. National Conference on Research Challenges in Environmental Chemistry for National Development, Department of Chemistry, Bhilai Institute of Technology,

Durg, Chhattisgarh 28th March **2017**.

2016

1. Traditional Knowledge and Biodiversity of Chhattisgarh, Royal College of Pharmacy, Chhattisgarh Council of Science & Technology, Raipur, March 4-5, **2016**.

2015

1. 13th Chhattisgarh Young Scientists Congress – 2015, Indira Gandhi KrishiVishwavidyalaya, Raipur, Chhattisgarh, 28th Feb – 1st March **2015**.

Workshops/STTP Attended

2025

1. Seven Days Faculty Development Program on "Indian Knowledge System" organized by Human Resource Development Cell, Govt. Digvijay Autonomous P.G. College, Rajnandgaon, Chhattisgarh from 24 to 30 April 2025.

2. SWAYAM NPTEL Workshop Conducted by Indian Institute of Technology Kanpur at MATS University, Raipur on 24 April 2025.

2024

1. Invited talk at Three Days National Workshop on Development of Herbal Products, Organised by Dept. of Chemistry, Guru GhasidasVishwavidhyalaya, Bilaspur, Chhattisgarh from 20 to 24 March 2024.

2023

1. One Week Faculty Development Programme on "Introductive Training of Government Servants" Organised by Human Resource Development Cell and Internal Quality Assurance Cell, Govt. Digvijay Autonomous P.G. College, Rajnandgaon, Chhattisgarh from 01 to 08 August 2023.

2022

1. 07 days Faculty Development Program, Organized by, Govt. Digvijay PG college Rajnandgaon, 06 to 13 January 2022.

2018

1. Seven Days National Workshop on "Enzymology and its applications (Isolation, Purification and Immobilization of Enzymes-Amylase and Lipase) from Various Sources" 12th – 18th January 2018, Dept. of Biotechnology and Microbiology, BhilaiMahilaMahavidyalaya, Bhilai, Chhattisgarh

1. Workshop on Different Funding Agencies & Art of Effective

2017

Writing of Research Papers and Projects, 27th September, **2017**, Department of Chemistry Govt. Digvijay Autonomous P. G. College, Rajnandgaon, Chhattisgarh.

2. राज्य स्तरीय हिंदी कार्यशाला" कार्यालयीन हिंदी ; स्वरुप एवं विशेषताए " 6 अक्टूबर **2017**, हिंदी विभाग, शासकीय दिग्विजय स्नातकोत्तर स्वशासी महाविद्यालय, राजनांदगाँव(छत्तीसगढ़).

2016

1. ***One week Short Term Training Programme*** on "Advances in Analytical Techniques in Chemistry and Material Science" (AATCMS-2016), February 08-12, **2016**, Department of Chemistry, National Institute of Technology, Raipur, Chhattisgarh.

2. Workshop on "Advanced Techniques in Materials Characterization" 22nd – 23nd January **2016**, Department of Metallurgical Engineering (Under TEQUIP-II), National Institute of Technology, Raipur, Chhattisgarh.

2015

1. National Level ***Short Term Training Programme*** on *Advance in Chemical Analysis (ACA – 2015),* 6th – 10th July **2015**, Department of Chemistry, National Institute of Technology, Raipur, Chhattisgarh.

2. National Level ***Short Term Training Programme*** on *Environment Challenges and Remedies (ECR* – 2015), 25th – 29th May **2015**, Department of Chemical Engineering and Chemistry, National Institute of Technology, Raipur, Chhattisgarh.

2014

1. National Level ***Short Term Training Programme*** on *Nano-Materials: Characterizations and Applications (NCA– 2014),* 1th – 5th December **2014**, Department of Chemistry, National Institute of Technology, Raipur, Chhattisgarh.

2. *BARC Outreach Programme* 23rd September, **2014**, National Institute of Technology Raipur &Bhabha Atomic Research Centre, National Institute of Technology Raipur, Chhattisgarh.

3. Short Term Training Programme on *Uses of E-Resources* 10th September **2014**, Central Library NITR Raipur, National Institute of Technology, Raipur, Chhattisgarh.

4. National Level ***Short Term Training Programme*** on *Recent Trends in Heterocyclic Compounds and Material Science ,* 26th – 30th May **2014**, Department of Chemistry, National Institute of Technology, Raipur, Chhattisgarh.

5. *Workshop on Academic Ethics and IPR*, 4th -5th April, **2014**, National Institute of Technology Raipur & Chhattisgarh Council of Science and Technology, National Institute of Technology, Raipur, Chhattisgarh.

2013

1. Workshop on *E-books in libraries,* 15th – 16th November **2013**, Central Library NITR Raipur, National Institute of Technology, Raipur, Chhattisgarh.

Research Academic links

Google Scholar || SCOPUS || ORCID ID
WOS/PUBLONS || Institutional Link
Details of Authored/Edited books

PERSONAL PROFILE

Name	**Dakeshwar Kumar Verma**
Date of Birth	31/03/1985
Father's name:	Shri Sadabrij Verma
Mother's name	Smt. Budhiyarin Bai
Sex	Male
Marital Status	Married
Nationality	Indian
Languages known	English and Hindi
Permanent address	Dakeshwar Kumar Verma Ward No. 11, H. No. 429, Rani Avanti Chowk, Village & Post- Ghumka Thana- Ghumka, Dist.- Rajnandgaon (C.G) PIN-491444
Contact no.	09993623996
Contact Email ID	dakeshwarverma@gmail.com

Date: 10.04.2026
Place:Rajnandgaon

I hereby declare that all information furnished in this application are true and correct to the best of my knowledge and belief.

Dr. Dakeshwar Kumar Verma