

CURRICULUM VITAE (CV)

Dr. RAJENDRA CHARANDEO PAWAR

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Research Grants

Sr. No.	Project Title	Role	Reference number	Amount of Grants (INR)	Status
1	Development of Green Syngas (CO/H ₂) technology via solar dry reforming reaction at low temperature	PI	SPARC/2024-2025/ENSU/P3732	50.72 Lakh	On-going (01/04/2024 to 31/09/2026)
2	Dynamic Research Ecosystem for Advanced Materials (DREAMS) ANRF-PAIR-IIT Ropar	Co-PI	ANRF/PAIR/2025/000006/PAIR-A (G)	10.45 Cr	On-going (20/09/2025 to 31/03/2030)

Research/Teaching Credentials

(i)	Assistant Professor, Department of Physics, Central University of Rajasthan, India	06/2023 to present
(ii)	Research Associate Professor, Hanyang University, South Korea	03/2022 to 05/2023
(iii)	President's International Postdoctoral Fellow, Chinese Academy of Sciences (PIFI-CAS), Dalian Institute of Chemical Physics (DICP), China,	06/2018 to 09/2020
(iv)	Assistant Professor (on-contract), Central institute of plastics engineering and technology (CIPET), Ahmadabad	08/2017 to 03/2018
(v)	Research Professor, Hanyang University, South Korea	03/2014 to 07/2017
(vi)	Brain Korea Post-doc fellow, Hanyang University, South Korea	08/2011 to 02/2014

Academic Credentials

(i)	Thesis title: Studies on dye sensitized solar cells based on nanostructured zinc oxide (ZnO) thin films by an aqueous chemical route. Shivaji University, Kolhapur 416 004 India	Ph.D. May 2011
(ii)	Shivaji University, Kolhapur 416 004 India With first class (Specialization – Energy Science)	M. Sc. June 2006
(iii)	Shivaji University, Kolhapur – 416 004, India With first class (Physics, Chemistry, Mathematics and Statistics)	B. Sc. June 2004

Awards (03):

- (i) **Best Poster Award:** International Conference on Advances in Electron Microscopy and Related Techniques (EMSI-2010) and XXXI Annual Meeting of EMSI Organized by Electron Microscope Society of India (EMSI) and Bhabha Atomic Research Centre (BARC), Mumbai. (M.S.) India.
- (ii) **Outstanding Poster Award:** 12th Annual Meeting of International Union of Materials Research Societies (IUMRS) - International Conference in Asia (ICA), held in Taipei, Taiwan from 19 to 22, September 2011.
- (iii) **Best Researcher Award** for outstanding research achievement during the year 2016, Hanyang University, South Korea, 14 January 2017.

Books (02):

- (i) Heterogeneous nanocomposites-photocatalysis for water purification
Elsevier: Micro and Nano Technologies Series
ISBN: 978-0-323-39310-2 (2015) (**Royalty** received >500 USD)
- (ii) Zinc oxide thin film: Dye sensitized solar cells, LAMBERT Academic Publishing GmbH & Co. KG, Germany; ISBN: 978-3-659-11656-8 (2012).

Research interest: Photo-thermocatalytic dry reforming reaction (CO₂ and CH₄ conversion), Photocatalytic water splitting and detoxification and Energy Materials.

List of selected publications (Total= 82): h-index: 40, Total citations: 4530

<https://scholar.google.co.in/citations?user=DhhzokgAAAAJ&hl=en>

(i)	Boosting photocatalytic CO ₂ conversion using strongly bonded Cu/reduced Nb ₂ O ₅ nanosheets Rajendra C. Pawar , P. J Chengula, H. Khan, H. Charles and Caroline S. Lee Dalton Transactions 52 (2023) 12832-12844
(ii)	Growth of 3D nanowall-like structures of FeVO ₄ by controlling reaction rate for effective CO ₂ reduction using UV-visible light Rajendra C. Pawar , H. Khan, H. Charles and Caroline S. Lee Journal of Environmental Chemical Engineering 11 (2023) 110236
(iii)	In situ reduction and exfoliation of g-C ₃ N ₄ nanosheets with copious active sites via a thermal approach for effective water splitting, Rajendra C. Pawar , Suhee Kang, Hyuksu Han, Heechae Choi and Caroline S. Lee, Catalysis Science and Technology 9 (2019) 1004-1012.

Countries visited for work and conferences:

South Korea (2011-17 & 2022), Germany (2012), United Kingdom (2014), Canada (2015), and China (2018-20)

I hereby declare that all the information given above is correct to the best of my knowledge.

Date-June 4, 2026

Dr. Rajendra C. Pawar