

CURRICULUM VITAE

Name: Kailas Kadaji Tehare

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Category: O.B.C.

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Gender: Male

Date of Birth: 8th September 1984

Academic Qualification: M.Sc., B.Ed., M.Phil., Ph.D., Post-doctorate

Sr. No	Qualification	College / Institute/University	Year of passing /Qualifying	Subjects	Performance
1	Post Doctorate	Shenzhen University, China	Nov. 2018	Physics	N/A
2	Ph. D.	SRTM university, Nanded	Oct. 2015	Physics	N/A
3	M. Phil.	SRTM university, Nanded	Oct. 2012	Physics	N/A
4	B.Ed.	Government College of education, Parbhani	2009	Mathematics, Science, Physiology, Stat	58.25 % (Second Class)

5	M.Sc.	School of Physical Sciences, SRTM University, Nanded	2008	Physics	7.43 (B ⁺ CGPA)
6	B.Sc.	Dnyanopasak Mahavidhyalaya, Parbhani	2006	Physics, Electronics, Computer Science	67 % (First class with Distinction)
7	H.S.C.	Shri Shivaji College, Parbhani	2003	Marathi, Hindi, English, Physics, Chemistry, Biology Maths	53.33 % (Second class)
8	S.S.C.	Balvidhya Mandir High-School, Parbhani	2000	Marathi, Hindi, English, Science, Maths, Social Sci.	56 % (Second class)

Computer programming languages: C, C++, JAVA, Visual Basic (VB), Assembly level programming language (ALP) for 8085 and 8086 microprocessor, Fortran 77

Online Course

1. National Programme on Technology Enhanced Learning (NPTEL) (07/2019 – 09/2019)

Online course organized by **Indian Institute of Technology (IIT), Roorkee**

Course Title: "Solar Photovoltaic Fundamentals, Technology and Applications"

2. National Programme on Technology Enhanced Learning (NPTEL) (07/2021 – 10/2021)

Online course organized by **Indian Institute of Technology (IIT), Kharagpur**

Course Title: "Physics of Renewable Systems"

❖ **Academic and Research experience:**

Sr. No	Name Of institute/ College/ University	Designation	Duration
Academic Experience			
1	K.K.M College, Manwat, Dist. Parbhani	Assistant Professor	1 Year (2021-22)
2	Sharda College, Parbhani	Assistant Professor	3 Year (2014-15, 2015-16, 2019-20)
3	Dayanand Science College, Latur	Assistant Professor	4 Months (7/2009-11/2009)
		Total	3 Year 4 Months
Research Experience			
1	Shenzhen University, China	Post doctorate fellow	2 Years (2016-2018)
2	National University of Singapore (NUS), Singapore	Visiting Post doctorate fellow	1 Year (2017-2018)
3	Hanyang University, Seoul, South Korea	Visiting Ph.D fellow	3 Months (10/2013-12-2013)
		Total	2 Year 3 Months

❖ **Research papers published:** 16

❖ **Number of Citations:** 252

❖ **h-index- 10**

❖ **Worked as Referee for Journals:** RSC Advances, Journal of Materials Chemistry A, Dalton Transactions, Solar Energy, Journal of Emerging Technologies and Innovative Research (JETIR).

❖ **Working as Editorial Board member:** Universal Journal of Physics Research

❖ **List of courses/subjects teaches previously:**

- (i) Mathematical Methods in Physics
- (ii) Solid State Physics
- (iii) Optics & Lasers
- (iv) Basic Electronics Waves Oscillations and Acoustics
- (v) Mechanics and Properties of Matter
- (vi) Electricity and Magnetism
- (vii) Heat and Thermodynamics
- (viii) Digital and communication Electronics
- (ix) Applied Electronics (Practical Course)
- (x) Solid State Physics (Practical Course)
- (xi) Digital Electronics (Practical Course)
- (xii) Spectroscopy (Practical Course)

❖ **Dissertation / Thesis completed**

- (i) Thesis completed for **Ph.D.** Degree entitled “**Chemical synthesis of TiO₂ nanostructures and their DSSCs applications**”
- (ii) Dissertation completed for **M.Phil.** Degree entitled “**Deposition container-based synthesis and DSSCs applications of TiO₂ nanostructures**”

(iii) Dissertation completed for M.Sc. Degree entitled “**Studies of microwave antennas**”

(iv) Dissertation completed for B.Sc. Degree entitled “**Development of online software in Visual basic (VB) for VCD library management**”

❖ Research Papers Published

1. Pankaj A. Chalikwar, **Kailas K. Tehare**, Sambhaji S. Bhande, Optical absorption enhancement of CdS nanoparticles by SILAR method and its physical characteristics, *JETIR* 6 (2019) 1385. **(Impact Factor - 7.95 Calculate by Google and Semantic Scholar)**
2. Sandesh Mutkule, **Kailas Tehare**, Shyam Gore, Krishna Chaitanya Gunturu, and Rajaram Mane, Ambient temperature operable Bi-Co ferrite NO₂ sensors with high sensitivity and selectivity, *Mat. Res. Bull.*, 115 (2019) 150. **(Impact Factor – 4.64)**
3. Sandesh Mutkule, Sachin Navale, Vikas Patil, **Kailas Tehare**, Xinke Liu, Krishna Chaitanya Gunturu, and Rajaram Mane, Chemical bath deposition of ZnO films at low pH for high chemosensitivity towards NO₂ gas, *Mat. Res. Exp.*, 5 (2018) 075021. **(Impact Factor – 1.61)**
4. **Kailas K. Tehare**, Sachin T. Navale, Florian J. Stadler, Zubing He, Haitao Yang, Xinbo Xiong, Rajaram S. Mane, and Xinke Liu, Enhanced DSSCs performance of TiO₂ nanostructure by surface passivation layers, *Mat. Res. Bul.* 99 (2018) 491. **(Impact Factor – 4.64)**
5. **Kailas K. Tehare**, [Sambhaji S. Bhande](#), Sandesh U. Mutkule, Florian J. Stadler, Jing Ping Ao, Rajaram Mane, and Xinke Liu, Low-temperature chemical synthesis of rutile

and anatase mixed phase TiO₂ nanostructures for DSSCs photoanodes, *J. of Alloys and Comp.*, 704 (2017) 187. **(Impact Factor – 5.31)**

6. **Kailas K. Tehare**, Manohar K. Zate, Sambhaji S. Bhande, Sanjay L. Gaikwad, Sachin T. Navale, Supriya A. Patil, Shayam K. Gore, Mu. Naushad, Sulaiman M. Alfadul and Rajaram S. Mane, Electrochemical Supercapacitors of Cobalt Hydroxide Nanoplates Grown on Conducting Cadmium Oxide Base-electrodes, *Arabian journal of chemistry*, 10 (2017) 515. **(Impact Factor – 5. 16)**
7. **Kailas K. Tehare**, Manohar K. Zate, Sambhaji S. Bhande, Supriya A. Patil, Sanjay L. Gaikwad, Seong Joon Yoon, Rajaram S. Mane, Soo-Hyoung Lee, and Sung-Hwan Han, Effect of a deposition container on the nanostructural growth and DSSC application of rutile TiO₂, *J. Materials Chemistry A*, 2014, 2 (2), 478-483. **(Impact Factor – 12.73)**
8. Sachin T. Navale, V. V. Jadhav, **Kailas K. Tehare**, RUR Sagar, CS Biswas, M. Galluzzi, W. Lang, Vikas Patil, Rajaram S. Mane, and Florian J. Stadler, Solid-state synthesis strategy of ZnO nanoparticles for the rapid detection of hazardous Cl₂, *Sensors and Actuators B: Chemical* 238 (2017) 1102. **(Impact Factor – 7.34)**
9. Janardhan H. Shendkar, Manohar Zate, **Kailas Tehare**, Vijaykumar V. Jadhav, Rajaram S. Mane, Mu. Naushad, Moon Yund Kwang Ho Kim, Polyaniline-cobalt hydroxide hybrid nanostructures and their supercapacitor studies, 180 (2016) 226. **(Impact Factor – 4.09)**
10. ST Navale, **KK Tehare**, SF Shaikh, VB Patil, BN Pawar, Mu Naushad, FJ Stadler, RS Mane, Hexamethylenetetramine-mediated TiO₂ films: Facile chemical synthesis strategy and their use in nitrogen dioxide detection, *Mat. Let.*, 173 (2016) 9. **(Impact Factor – 3.42)**

11. Supriya A. Patil, Dipak V. Shinde, Do Young Ahn, Dilip V. Patil, **Kailas K. Tehare**, Vijaykumar V. Jadhav, Joong K. Lee, Rajaram S. Mane, Nabeen K. Shrestha and Sung-Hwan Han, A simple, room temperature, solid-state synthesis route for metal oxide nanostructures, *J. Materials Chemistry A*, 2 (2014) 13519.
(Impact Factor – 12.73)
12. [Sambhaji S. Bhande](#), [Dipak V. Shinde](#), **Kailas K. Tehare**, [Supriya A. Patil](#), [Rajaram S. Mane](#), [Mu. Naushad](#), [Z.A Alothman](#), [K.N. Hui](#), [Sung Hwan Han](#), DSSCs synergic effect in thin metal oxide layer-functionalized SnO₂ photoanodes, *Photochem. Photobio. A*, 295 (2014) 64. **(Impact Factor – 3.07)**
13. Manohar K. Zate, ShoyebMohamad F. Shaikh, Vijaykumar V. Jadhav, **Kailas K. Tehare**, S.S. Kolekar, [K.N. Hui](#), B.N. Pawar, [Rajaram S. Mane](#) and [Mu. Naushad](#), Synthesis and electrochemical supercapacitive performance of nickel-manganese ferrite composite films, *Analytical and applied pyrolysis*, 166 (2015) 177.
(Impact Factor – 5.54)
14. **Kailas K. Tehare**, R. S. Mane, and Sung-Hwan Han
Enhanced Photoelectrochemical cell Performance and stability of CdSe Thin Films in Presence of ZnO Layer, *SRTMU's Res. J. Sci.* 2012, 1(1), 1 - 13.
15. Vijaykumar S. Jadhav, Sambhaji S. Bhande, **Kailas K. Tehare**, Rajaram S. Mane, Sung-Hwan Han, Significance of compact layers on DSSCs performance of chemically deposited TiO₂-based Dye-sensitized solar cells, *International journal of engineering and sciences*, 4 (2015) 30-34.

16. Jivan R. Kote, Kadam A.S., Mane R.S, **Tehare K. K.** , Mulani R.M, Studies on Antimycobacterial activity and cytotoxicity, antioxidant of newly synthesized copper Nano particles from *Artemisia pallens* L., *ICFFM-2015*, Dec 28-30 2015.

❖ **Awards**

1. **'National seminar in material science (RAMS-2014)'** held at M.P.A.S.C. college, Panvel, Dist. Raighad, India, during **Feb.2014**. Got **Third prize for poster presentation.**
2. **'National conference on nanotechnology and intellectual property rights and patents in science and technology from nanotechnology perspective'** held at Dr. B.A.M. University, Aurangabad, india, during **Feb. 2012**. Got **Consolation prize poster presentation.**

❖ **Poster /Oral Presentations**

1. RSC symposium on **'Frontiers of Advances in Chemistry and Techonology-2015 (FACT-2015)'** , at North Maharashtra University, Jalgaon, India, during **11-12 Dec 2015**.
2. **'International conference on nanoscience and nanotechnology (ICNN-2011)'**, at SRTM University, Nanded, (MH) India, during 11-13 Jan 2011.
3. **'International conference on innovations in energy, Polymer and environmental sciences'** held at Yashwantrao Chavan Institute of science, satara, India, during **10-12 Jan 2014**.
4. Workshop on **"Interdisciplinary Nanoscience"** at SRTM university, Nanded, India, during **Feb. 26, 2012**.

❖ **Conferences Attained:**

Total Conferences attained: **35**

International Level- **08**

National Level- **15**

State Level- **12**

❖ **Worked as organizing committee member in**

- 1. IUCAA-SRTMUN National Workshop on ‘ Astronomy with Small Telescopes’**
at SRTM university, Nanded, , India, during **8-10 Dec., 2015.**
- 2. ‘International conference on nanoscience and nanotechnology (ICNN-2011)’**, at SRTM University, Nanded, (MH) India, during 11-13 Jan 2011.
- 3. Workshop on “Intedisciplinary Nanoscience”** at SRTM University, Nanded, during feb. 26, 2012.