

# Curriculum vitae

## Dr. Vijay Baburao Khajone

M.Sc., Ph.D.

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## OBJECTIVE

To enhance my professional skills, capabilities and knowledge in an organization which recognizes the value of hard work and trusts my dedication with responsibilities and challenges.

## EXPERIENCE

Vellore institute of technology, Vellore, TN

Teaching cum research assistant (1/12/2017 to 30/11/2020) [3 years]

Research assistant (01/08/2017 to 22/07/2021) [4 years]

## EDUCATION

Sr. No.	Degree	Topic/ Subject	Institute/ University	Publications /CGPA/%	Years
1.	Ph.D.	Design and synthesis of ionic liquid Functionalized porphyrin/ phthalocyanine for photocatalytic applications	Vellore institute of technology Vellore (TN)	7 Research paper + 1 Book Chapter	2017 – Present
2.	M.Sc.	Organic Chemistry	SGBAU Amravati (MH)	6.1/10	2015 - 2017
3.	B.Sc.	Physics, Chemistry, Mathematics	SGBAU Amravati (MH)	56.16 %	2011-2015

Cumulative impact factor: 31.762

Average impact factor: 4.537

## SKILLS ACQUIRED:

- ✓ Design and synthesis of Novel Heterogeneous Photocatalysts and their characterizations using NMR, IR, DRS etc.
- ✓ Expertise in multi-step synthesis of organic compounds from milligram to gram scale.
- ✓ Synthesis, structural characterizations and their spectral evaluation of variation organic compounds.
- ✓ Strong laboratory skills in handling air and moisture sensitive compounds.
- ✓ Extensive understanding of FT-IR, NMR, GC-MS, SEM/EDX, TGA, BET, UV-Vis. and HPLC.
- ✓ Molecular designing using chemistry software's Chem Draw, topspin, Origin Pro and computer handling (Word, Excel, Power point...etc).
- ✓ Literature survey of the required study.

- ✓ Developed teaching/Laboratory skills to perform organic transformation at given conditions.

## STRENGTH

- Punctuality
- Easy Adaptability with Group
- Sincerity and Honesty
- Ready to Accept Challenging work
- Ready to Take Responsibility as a Leader with support of Colleagues of Department

## WEAKNESS

- ✓ Impatient,
- ✓ Multitasking
- ✓ Public speaking
- ✓ Saying 'No'

## PROJECTS

**“Design and Synthesis of Ionic Liquid Functionalized Porphyrin/Phthalocyanines for photocatalytic applications”** I have completed oral exam for PhD on dated 25<sup>th</sup> October 2021.

**“The spectroscopical and antibacterial effect of leaves of cassine glauca plant extracts”** completed as my MSc project during 2016-2017 at SGBAU Amravati University.

## LIST OF PUBLICATIONS

1. **Vijay Baburao Khajone**, Subodh Uttamrao Raut, Shubham Avinash Deshmukh, Karan Jivanlal Bhansali, Kamlesh Rudreshwar Balinge, Prashant Narayan Muskawar, Pundlik Rambhau Bhagat., Recyclable polymer-supported carboxyl functionalized Zn–Porphyrin photocatalyst for transfer hydrogenation of levulinic acid to  $\gamma$ -Valerolactone’, Biomass Conversion and Biorefinery (2021) (**IF = 4.987**)
2. **Vijay Baburao Khajone**, Kamlesh Rudreshwar Balinge and Pundlik Rambhau Bhagat. Polymer-Supported Fe-Phthalocyanine Derived Heterogeneous Photo-Catalyst for the Synthesis of Tetrazoles Under Visible Light Irradiation. Catalysis Letter. (2020), (**IF = 3.186**)
3. **Khajone, Vijay B.**, and Pundlik R. Bhagat. "Brønsted acid functionalized phthalocyanine on perylene diimide framework knotted with ionic liquid: an efficient photo-catalyst for production of biofuel component octyl levulinate at ambient conditions under visible light irradiation." Fuel 279 (2020): 118390. (**IF = 6.609**)
4. **Vijay Baburao Khajone**, Pundlik Rambhau Bhagat, Synthesis of polymer-supported Brønsted acid-functionalized Zn–porphyrin complex, knotted with benzimidazolium moiety for photodegradation of azo dyes under visible-light irradiation, Research on Chemical Intermediates (2020) (**IF = 2.914**)

5. **Vijay B Khajone**, Kamlesh R Balinge, Pundlik R Bhagat, Synthesis and Characterization of Polymer Supported Fe-Phthalocyanine Entangled with Carboxyl Functionalized Benzimidazolium Moiety: A Heterogeneous Catalyst for Efficient Visible-light-driven Degradation of Organic Dyes from Aqueous Solutions, Journal of Molecular Liquids (2019) (IF = 6.165)
6. Kamlesh Rudreshwar Balinge, Sagar Krushnarao Datir, **Vijay Baburao Khajone**, Karan Jivanlal Bhansali, Avinash Ganesh Khiratkar and Pundlik Rambhau Bhagat, Iron (III)-salen Complex on a Polymer Scaffold: A Heterogeneous Catalyst for Benzimidazoles Synthesis, Research on Chemical Intermediate (2019) (IF = 2.914)
7. Karan J Bhansali, Kamlesh R Balinge, Subodh U Raut, Shubham A Deshmukh, M Senthil Kumar, Dipesh S Patle, **Vijay B Khajone**, Pundlik R Bhagat., Design of Metal-free Porphyrin Photocatalyst: Synergetic Effect of Donor–Acceptor Phenomenon for 1, 1-Diethoxyethane Production under Visible Light’. **Biomass Conversion and Biorefinery** (2022) February. (IF = 4.987)

## BOOK CHAPTER

1. Patle, D. S., Khajone, V., Bhagat, P. R., Jaiswal, A. K., & Kumar, S. Functionalized Ionic Liquids for the Photodegradation of Dyes. In Water Pollution and Remediation: Photocatalysis (pp. 391-409). Springer, Cham. (**Book Chapter**)

## POSTER/PAPERS PRESENTED AT INTERNATIONAL/NATIONAL CONFERENCES

- I. Recent Trend in Science and Technology S.S.S.K.R. Innani Mahavidyalaya, Karanja (Lad), Dist. Washim (MH) (International Conference 22nd-23rd March, 2018) (**oral presentation**)
- II. National Conference on Advances in Science, Humanities and Technology (NCASHT-2019) Saveetha school of engineering Chennai (TN) (National Conference 11th-12th July, 2019) (**Oral presentation**)

Four National and International Conference (**Poster presentation**) Two National and International Conference (**Attended**)

## RESEARCH AWARDS

Raman Research awards promote the research Scholar of academic scientists within the first three years of joining the tenure track or research in VIT Vellore. I got three time research award.

## PERSONAL DETAILS

Date of Birth: 08/11/1990

Marital Status: Single

Nationality: Indian

## REFERENCES

- 1) Dr. Pundlik Rambhau Bhagat  
M.Sc., Ph.D., NET  
Professor, Department of Chemistry,  
School of Advanced Sciences, VIT, Vellore (TN) India-632014.  
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- 2) Dr. S Senthil Kumar  
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Associate professor, Department of Chemistry,  
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- 3) Dr. Dipesh Shikchand Patle  
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## DECLARATION

Hereby I declare that the above said information are true and correct to my knowledge.

**Date:** - 13/05/2022

**Place:** - Jarud



**Dr. Vijay Baburao Khajone**