

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 functionalities 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

- ❖ Not Very Fluent in English speaking, but improve in future definitely

PROJECTS

“Design and Synthesis of Ionic Liquid Functionalized Porphyrin/Phthalocyanines for photocatalytic applications” I have completed oral exam for PhD on dated 25th 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 γ -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
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Professor, Department of Chemistry,
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- 2) Dr. S Senthil Kumar
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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.



Dr. Vijay Baburao Khajone