

# Curriculum Vitae



**Dr. Manohar R. Patil**

[M. Sc., Ph. D., SET]

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- 1 Name** Dr. Manohar Rajendra Patil
- 2 Date of birth** 17. 10. 1985
- 3 Present Post / Designation** Assistance Professor
- 4 Name of university/college** G.T.P. College, Nandurbar-425412,  
**Where employed** (Affiliated to KBC, North Maharashtra, Jalgaon)
- 5 Address for correspondence** 16-A, Laxmi Nagar Korit Road Nandurbar
- 6. Total Teaching Experience : 15 Years**

## Academic Qualifications:

Examination	Name of the Board/ University	Month & Year of Passing	Division / Class	Subject
B.Sc.	NMU JALGAON	June, 2006	First Class with distinction	Chemistry
M.Sc.	NMU, JALGAON	June, 2008	First Class	Org. Chem.
SET	PUNE	May, 2011	-	Chem. Sci.
Ph. D	NMU JALGAON	Nov,2016	Awarded	Chemistry

**Details of the Ph.D. Work:**

<b>Title:</b>	Adsorptive removal of carcinogenic textile dyes from aqueous solutions by conducting organic polymer / magnetic nanocomposites and their potential application in medical and bio sensing.
<b>Guide</b>	Prof. Dr. V. S. Shrivastava
<b>Institute</b>	Deptt. Of chemistry, G. T. Patil College, Nandurbar-425412

**Employment History:**

<b>Date of joining</b>	<b>Name of the examination/ Degree/ Post as applicable</b>	<b>Area of specialization/ Subjects</b>	<b>Name of Institute/ University/</b>
<b>06/07/2011</b>	Asst. Professor	Organic chemistry	G. T. Patil College Nandurbar-425412

## Awards & Honors:

1. Recently awarded by “**Rashtriya Shikshak Ratna Puraskar**” by Indo global vision Development Gurukul Foundation at Nutan Maratha College Jalgaon.
2. **Four Indian Patents filed, published and out of which two are granted by the government of India.**
3. Best Paper Presentation Award in National Seminar held at Dondaicha (M.S) 2013.
4. Best Paper Presentation Award in National Conference held at Nandurbar (M.S) 2016.
5. Member of organizing committee Avishkar-2016.
6. Member of organizing committee Avishkar-2019.
7. Coordinator of KBC, NMU Innovation and entrepreneurship development cell (KIEDC) of the college.
8. Executive Council Member of Association of Chemistry Teachers (ACT), KBC, NMU Jalgaon.
9. Vice-President Local Unit (G. T. P. College, Nandurbar) of North Maharashtra University Teachers Organization.
10. Principal Co investigator of MPCB funded Project.
11. Convener of the National Conference Organized by PG Dept. of Chemistry.
12. Working as a NAAC Steering member of the college.
13. Worked as an Editor for two conference proceedings namely *Green synthesis of nanomaterials and their applications –12<sup>th</sup> Feb-2019*[ISBN:978-93-87098-24-4] and *Nanochemistry: Current scenario-29<sup>th</sup> June 2022*[ISBN:978-93-95199-02-5].

## List of Ph.D. Students:

Sr. No.	Name of Student
1	Mr. Gopal M. Shende
2	Mr. Narendra M. Patil
3	Mr. Vishwajit Y. Valvi (As a Co-Guide)
4	Mr. Ajay Pralhad Khairnar (As a Co-Guide)

## Highlights:

<b>1. Publications in Journals:</b>	20
<b>2. Articles in Books published:</b>	11
<b>3. Articles in conference proceeding:</b>	04
<b>4. Patents published:</b>	04
<b>5. Patents Granted:</b>	02
<b>6. Minor (VCRMS) project completed:</b>	01
<b>7. Major (MPCB) project Ongoing:</b>	01

## ❖ List of Publications in Journal:

- 1) Manohar R. Patil, Adsorptive removal of carcinogenic acid violet 19 dye from aqueous solution by polyaniline-Fe<sub>2</sub>O<sub>3</sub> nanocomposite, J. Mater. Environ. Science (South Africa) 6 (1), 11-21, (2015), **{I.F:1.09}**.
- 2) Manohar R. Patil, Adsorption of malachite green by polyaniline-nickel ferrite magnetic nanocomposite: Isotherm and kinetic study, Applied Nanoscience, (Springer-Germany) 5(7), 809-816.,2014, **(I.F-3.5)**.
- 3) Manohar R. Patil, Adsorptive removal of methylene blue from aqueous solutions by polyniline-nickel ferrite nanocomposite: A kinetic approach, Desalination water

- treatment, (**Taylor and Fancies, UK**), DOI: 10.1080/19443994.2015.1004594. (2015). {**I.F: 1.27**}.
- 4) Manohar R. Patil, Photocatalytic removal of Acid violet 19 dye by using Fe<sub>3</sub>O<sub>4</sub>/PANI nanocomposite, Applied Nanoscience (**Springer-Germany**) DOI:10.1007/s 13204-015-0465-z,2015 (**I.F-3.5**).
  - 5) Manohar R. Patil, Photocatalytic degradation of malachite green dye using magnetic nanostructure CoFe<sub>2</sub>O<sub>4</sub> thin Film prepared by spray pyrolysis method, Asian J. of chem. and Env. Research, 7(1-2), 15-18, (2014).
  - 6) Manohar R. Patil, "Detection & identification of organics from aqueous Industrial Wastewater sample by GC-MS & FTIR" Asian J.Chem. and Env.Research,6 (1-2),22-26, (2013).
  - 7) Manohar R. Patil, Photocatalytic degradation of carcinogenic methylene blue by polyaniline-nickel ferrite nanocomposite, Der chemical sinica, 5(2), 8-17, (2014).
  - 8) Manohar R. Patil ,Study of the physic-chemical characteristics of water samples and statistical analysis of collected results of some rivers of Maharashtra, IJMSET 2, (10), 19-27[2015].
  - 9) *Manohar R.Patil, Synthesis and antimicrobial activity of magnetic cobalt ferrite nanoparticles IJPRD 6(12),107-110[2015].*
  - 10) Manohar R. Patil, Statistical analysis of collected physic chemical results. AJCER 9 (1-4), 111-115,(2016).
  - 11) Manohar R. Patil, Hydrothermally modified nanocrystalline Nb<sub>2</sub>O<sub>5</sub> and its visible photocatalytic activity for degradation of congo red and methylene blue, Iranian Journal of Catalysis 8(2), 2018, 143-150 (**IF.1.27**).
  - 12) Manohar R. Patil, Synthesis of magnetic Nano sized cobalt ferrite thin film by chemical bath deposition method and their photocatalytic application for removal of Congo red dye, Journal of applicable Chem.7(4), 1-6, **2018**.
  - 13) Manohar R. Patil, Synthesis of magnetic Nano sized PANI/NiFe<sub>2</sub>O<sub>4</sub>/PEG thin film by chemical deposition method and their photocatalytic application for removal of Erichrome black T dye, AJCER, 11(1), **2018**.
  - 14) Manohar R. Patil, Synthesis of Magnetic Nanocomposites And Their Applications: A Review, J. Applicable Chem. 7(5), **2018**.
  - 15) Manohar R. Patil Fabrication and characterization of pure and modified Co<sub>3</sub>O<sub>4</sub> Nanocatalyst and their application for photocatalytic degradation of eosine blue dye:

- a comparative study, Journal of Nanostructure in Chemistry (**Springer-Germany**). 8:453-463 (2018) [I.F. 7.96].
- 16) Manohar R. Patil, Solvent-free grindstone synthesis of four new (E)-7-(arylidene)-indanones and their structural, spectroscopic and quantum chemical study: a comprehensive theoretical and experimental exploration, Molecular Simulation 46 (14), 1045-1054, 2020. (I.F. 2.1)
  - 17) Manohar R. Patil, Synthesis and Characterization of ZnO/CuO Nanocomposites as an Effective Photocatalyst and Gas Sensor for Environmental Remediation, Journal of Inorganic and Organometallic Polymers and Materials 32 (3), 1045-1066, 2022. (I.F. 3.6).
  - 18) Manohar R. Patil, Review on application of various Nanocomposites for the production of biodiesel, Asian Journal of Organic and Medicinal Chemistry 7(2), 68-71, 2022.
  - 19) Manohar R. Patil, Ionic Liquid mediated Synthesis of TiO<sub>2</sub>-ZnO-BMIMBr Nanocomposite for Electrochemical Sensing of neurotransmitter, J. Mater. Sci.: Mater. Electron 34:641, 2023, [I.F. 2.77].
  - 20) Manohar R. Patil, Designing of TiO<sub>2</sub>-MoO<sub>3</sub>-BMIMBr composite by a solvothermal method Communicated in RSC advances 2023.

#### **# List of Publications in Conference proceedings (ISBN books):**

- 21) Manohar R. Patil, Photocatalytic degradation of crystal violet dye by using Fe<sub>3</sub>O<sub>4</sub> nanomaterial, UGC sponsored national conference on CSNAE-2016 8<sup>th</sup> and 9<sup>th</sup> feb 2016 at G.T. Patil College, Nandurbar.
- 22) Manohar R. Patil Synthesis of magnetic nanosized PANI/NiFe<sub>2</sub>O<sub>4</sub> thin film by chemical deposition method and their application for removal of acid violet 19 dye page no.19, Green synthesis of nanomaterials and their applications –12<sup>th</sup> Feb-2019 [ISBN:978-93-87098-24-4].
- 23) M. R. Patil, An overview of green synthesis and biomedical applications of silver nanoparticles, page no.73, Nanochemistry: Current scenario-29<sup>th</sup> June 2022 [ISBN:978-93-95199-02-5].
- 24) M.R. Patil, Synthesis of different Iron oxide nanoparticles : A short review, page no.39, Nanochemistry: Current scenario-29<sup>th</sup> June 2022 [ISBN:978-93-95199-02-5].

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