

CURRICULUM VITAE



Personal Information:

1.	Name of the teacher	Prof. (Dr.) SATISH MADHUKAR PATIL
2.	Designation	Professor
3.	Birth Date	31/07/1982
4.	Date of Appointment	14/07/2006
5.	Permanent Address	A/P-Kavane, Tal-Karveer Dist-Kolhapur, Pin 416207,(MS), India.
6.	Mob.No.	7588620895
7.	Email-id	satishpatil324@gmail.com
8.	Marrital status	Married
9.	Gender	Male
10.	Blood Group	A+ve

Educational Qualifications:

Exam	Board/University	Year of Passing	Class/Grade/ Rank
Ph. D.	Shivaji University, Kolhapur	2019	Awarded
NET	CSIR-UGC, New Delhi	2004	Qualified
M.Sc.	Mumbai University, Mumbai	2004	First with Distinction
B.Sc.	Shivaji University, Kolhapur	2002	First with Distinction
H.S.C.	Kolhapur Divisional Board	1999	Second class
S.S.C.	Kolhapur Divisional Board	1997	First class

Teaching Experience:

Name of the institute	Subject	Number of years
1. Br. Balasaheb Khardekar College, Vengurla, Dist: Sindhudurg - 416516 2.Karmaveer Hire College, Gargoti Tal: Bhudargad, Dist: Kolhaour - 416209	Chemistry	19 yrs

List of Publications:

1. Surface Modifications of Binder Free ZnO Nanorod Thin Films through Cds Quantum Dots for Dye Sensitized Solar Cells K. V. More, S. M. Patil *et al* **Journal of Shivaji University: Science and Technology** Volume-49, Issue-1 Pages 36-49 (2023).
2. Chemical and gas sensing property tuning of cadmium sulfide thin films SA Vanalakar, VL Patil, **SM Patil**, SP Deshmukh, PS Patil, JH Kim **Materials Science and Engineering: B** 282, 115787 (2022). <https://doi.org/10.1016/j.mseb.2022.115787>
3. Preparation of 2,4,5-triarylimidazole derivatives using green *Syzygium Cumini* seed catalyst **SM Patil**, M Asif, SM Bagwan **RASĀYAN Journal of Chemistry** 15 (3), 1861-1866 (2022). http://rasayanjournal.co.in/admin/php/upload/3675_pdf.pdf
4. Recent progress in Nanostructured Metal Oxides based NO₂ gas sensing in India S Vanalakar, VL Patil, **SM Patil**, SB Dhavale, TD Dongale, PS Patil **Journal of Materials NanoScience** 9 (1), 13-25 (2022). <https://pubs.thesciencein.org/journal/index.php/jmns/article/view/294>
5. Ultrasonochemically Modified Ag@TiO₂ Nanocomposites as Potent Antibacterial Agent in the Paint Formulation for Surface Disinfection SP Deshmukh, VB Koli, AG Dhodamani, **SM Patil**, VS Ghodake **ChemistrySelect** 6 (1), 113-122 (2021). <https://doi.org/10.1002/slct.202002903>
6. Sulfated TiO₂/SnO₂ nanocomposite as a green heterogeneous catalyst for direct amide formation reaction **SM Patil**, SA Vanalakar, SA Sankpal, SP Deshmukh, SD Delekar **Results in Chemistry** 3, 100102 (2021). <https://doi.org/10.1016/j.rechem.2021.100102>
7. Synergistics of Cr (III) doping in TiO₂/MWCNTs nanocomposites: Their enhanced physicochemical properties in relation to photovoltaic studies AG Dhodamani, KV More, **SM Patil**, AR Shelke, SK Shinde, DY Kim **Solar Energy** 201, 398-408 (2020). <https://doi.org/10.1016/j.solener.2020.03.001>
8. Interfacially interactive ternary silver-supported polyaniline/multiwalled carbon nanotube nanocomposites for catalytic and antibacterial activity SP Deshmukh, AG Dhodamani, **SM Patil**, SB Mullani, KV More **ACS Omega** 5 (1), 219-227 (2019). <https://doi.org/10.1021/acsomega.9b02526>
9. Silver nanoparticles as an effective disinfectant: A review SP Deshmukh, **SM Patil**, SB Mullani, SD Delekar **Materials Science and Engineering: C** 97, 954-965 (2019). <https://doi.org/10.1016/j.msec.2018.12.102>
10. Sulfated TiO₂/WO₃ nanocomposite: An efficient photocatalyst for degradation of Congo red and methyl red dyes under visible light irradiation **S.M. Patil**, S.P. Deshmukh, K.V. More, V.B. Shevale, S.B. Mullani, SD Delekar **Materials Chemistry and Physics** 225, 247-255 (2019). <https://doi.org/10.1016/j.matchemphys.2018.12.041>
11. Ag Nanoparticles Connected to the Surface of TiO₂ Electrostatically for Antibacterial Photoinactivation Studies SP Deshmukh, SB Mullani, VB Koli, **SM Patil**, PJ Kasabe, PB

- Dandge **Photochemistry and photobiology** 94 (6), 1249-1262 (2018).
<https://doi.org/10.1111/php.12983>
12. NH₃ gas sensing performance of ternary TiO₂/SnO₂/WO₃ hybrid nanostructures prepared by ultrasonic-assisted sol-gel method **SM Patil**, SA Vanalakar, AG Dhodamani, SP Deshmukh, VL Patil, PS Patil, SD Delekar **Journal of Materials Science: Materials in Electronics** 29 (14), 11830-11839 (2018). <https://doi.org/10.1007/s10854-018-9283-x>
 13. Molecular self-assembled designing and characterization of TiO₂ NPs-CdS QDs-dye composite for photoanode materials S Delekar, K More, A Dhodamani, **SM Patil**, T Dongale, K Maity, N Dalal **Materials Characterization** 139, 337-346 (2018).
<https://doi.org/10.1016/j.matchar.2018.03.006>
 14. Multi-applicative tetragonal TiO₂/SnO₂ nanocomposites for photocatalysis and gas sensing **SM Patil**, AG Dhodamani, SA Vanalakar, SP Deshmukh, SD Delekar **Journal of Physics and Chemistry of Solids** 115, 127-136 (2018).
<https://doi.org/10.1016/j.jpcs.2017.12.020>
 15. Simplistic eco-friendly preparation of nanostructured Cu₂FeSnS₄ powder for solar photocatalytic degradation JH Kim, Sharadrao A. Vanalakar, **Satish M. Patil**, Vithoba L. Patil **Materials Science & Engineering B** 229, 135-143 (2018).
<https://doi.org/10.1016/j.mseb.2017.12.034>
 16. Sunlight-assisted photocatalytic degradation of textile effluent and Rhodamine B by using iodine doped TiO₂ nanoparticles Rani P. Barkul, Meghshyam K. Patil, **Satish M. Patil**, Vrushali B. Shevale Sagar D. Delekar **Journal of Photochemistry and Photobiology A: Chemistry** (2017). <https://doi.org/10.1016/j.jphotochem.2017.09.011>
 17. Different Strategies for Modification of Titanium Dioxide as Heterogeneous Catalyst in Chemical Transformations **SM Patil**, SP Deshmukh, AG Dhodamani, KV More, SD Delekar **Current Organic Chemistry** 21, 1-13 (2017).
<https://www.ingentaconnect.com/content/ben/coc/2017/00000021/00000009/art00006>

Book Chapters:

1. Mixed metal oxide nanocomposites for environmental remediation.
 SM Patil, SA Vanalakar, SD Delekar
 Advances in Metal Oxides and Their Composites for Emerging Applications, 425-477
 ISBN- 978-0-323-85705-5 (Elsevier) (2022) <https://doi.org/10.1016/B978-0-323-85705-5.00014-2>
2. Gas Sensors Based on Chalcogenides
 SA Vanalakar, SP Deshmukh, SM Patil
 Smart Nanostructure Materials and Sensor Technology, 201-223
 ISBN- 978-981-19-2685-3 (Springer) (2022) https://doi.org/10.1007/978-981-19-2685-3_10
3. Solid State Thin Films Deposition and Their Applications
 SD Sharadrao Vanalakar, Satish Patil
 LAP LAMBERT, 56

Participations in Conference/Seminars/Workshops:

1. **TAAL** short term programme (FDP) organized by **MSFDA, Pune** at Symbiosis International University, Pune from **19/02/2024 to 24/02/2024**.
2. National Level Seminar on **“Recent Trends In Chemical Sciences” (RTCS-2022)** organized by Sangola College, Sangola on **14th September 2022**.
3. One Day Online Workshop on **“Changed Syllabus of B.Sc. III Chemistry, Semester V & VI”** organized by Yashwantrao Chavan College of Science, Karad on **11th February 2021**.
4. State level Seminar on **„Intellectual Property Rights” (IPR)** with Special Focus on Patents and Patent Filing Process organized by IQAC and Dept. of Chemistry, Sangola College Sangola, Dist. Solapur, on **6th March 2021**.
5. one day national online seminar on **“New Frontiers in Chemical Sciences”** organised by IQAC & PG-Department of Chemistry, Shri Pancham Khemraj Mahavidyalaya, Sawantwadi on Wednesday, **20th Oct. 2021**.
6. International Conference **“Sustainable Development in Chemistry & Scientific Applications” SDCSA-2021** organized by Department of Chemistry, Sadguru Gadage Maharaj College, Karad, during **16th & 17th December 2021**.
7. International Conference on **„Advances in Chemical Science” (ICACS-2018)** organized by Department of Chemistry, Shivaji University, Kolhapur on **1st to 3rd February 2018**.
8. National Conference on **„Recent Trends in Chemical Science and Its Interdisciplinary Applications”** organised by Dept. of Chemistry, Shri Yashwantrao Patil Science college, Solankur held on **06 Jan 2018**.
9. National Workshop on **„Theory and Practice of X-ray Diffraction Techniques”** organized by Alagappa Chettiar College of Engineering and Technology, Karaikudi, Tamilnadu on **25th to 27th May 2017**.
10. National Conference on **„Innovative Research in Chemical Science” (IRCS-2017)** organized by Department of Chemistry, Shivaji University, Kolhapur on **1st to 2nd February 2017**.
11. National Seminar on **„Application of Chemical and Material Science for Sustainable Development”** organized by Department of Chemistry, Shivaji University, Kolhapur on **20th February 2016**.
12. International Conference on **„Emerging Trends in Basic and Applied Sciences” (ETBAS)** organized by Karmaveer Hire Arts, Science, Commerce & Education College, Gargoti on **10th March 2015**.

Invited Lectures / Talks etc:

Delivered invited lecture series for PG chemistry students on “Chemistry of transition elements” organized by Department of Chemistry, Bhogawati Mahavidyalaya, Kurukali on 23rd and 24th August 2024.

Delivered invited lecture series for UG/PG chemistry students on “Nanotechnology” organized by Department of Chemistry, Bhogawati Mahavidyalaya, Kurukali on 9th and 10th March 2021.

Social/ Extension Activities:

1. Successfully completed the duties of Loksabha and Vidhansabha election as presiding officer in the years 2019, 2024.
2. Attended the interviews as Subject Expert in Chemistry at Karmaveer Hire college, Bhogawati College, ICRE, Gargoti etc..
3. Successfully completed the duties of Internal Senior supervisor as well as Junior Supervisor allotted for college and University Exam.
4. As a BOS member of subject Chemistry, contributed in designing of B. Sc. I Chemistry I and M. Sc. I Inorganic Chemistry paper I syllabi as per NEP 2020.



Signature