

CURRICULAM VITAE

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Dr. Rahul Bharamgonda Patil

PERMANENT ADDRESS:

A/P: Umalwad,
Tal: Shirol, Dist: Kolhapur,
State: Maharashtra, India.
Pin Code: 416101
Mobile: +91 9503962022



PERSONAL DETAILS:

Date of Birth: 13/ 10/ 1980
Nationality: Indian
Religion: Hindu Lingayat
Category: Open
Marital status: Married
Email: rrahulpatil@gmail.com

PASSPORT NUMBER:

G6586239

ACADEMIC CREDENTIALS:

1. Postdoctorate
Department of Physics,
National Central University, Taiwan.
2. Ph. D.
Shivaji University, Kolhapur.
Title of Thesis:
Study of optical and mechanical properties of tin oxide and bismuth oxide thin films
for thin film optical coatings
Supervisor: Dr. R. K. Puri
Professor and Head,
University Science Instrumentation Centre
(USIC), Shivaji University, Kolhapur.

ACADEMIC RECORD:

Sr No	Exam. Passed	University	Subject	Class Obtained	Year of Passing
1.	Ph. D.	Shivaji University	Physics	Awarded	Oct. 2008
2.	M. Sc.	Shivaji University	Physics	Higher Second Class (B+)	May 2003
3.	B. Sc.	Shivaji University	Physics	First Class	April 2001

FELLOWSHIP/S:

1. Postdoctoral Research Fellowship:
From Feb. 2009 to Sept. 2010.
National Central University, Taiwan.
2. Departmental Research Fellowship:
From Sept. 2005 to Dec. 2007.
Shivaji University, Kolhapur, India.

MEMBERSHIP/S:

1. Indian Society for Technical Education (ISTE) – LM 92087

BOOK/S PUBLISHED:

1. Understanding of Basic Electronic Devices - LAP LAMBERT Academic Publishing, Germany (July 2022). ISBN – 978-3-8443-9066-7.
2. Vapour Chopping Technique – published by LAP LAMBERT Academic Publishing, Germany (June 2011). ISBN – 978-3-8443-9066-7.
3. Text Book of Physics (B. Sc. I Paper II) – Anuradha Publications, Kolhapur. (March 2018). ISBN - 978-93-5300-645-7.
4. Text Book of Physics (B. Sc. I Paper IV) – Anuradha Publications, Kolhapur. (April 2018). ISBN - 978-93-5300-904-5.
5. Text Book of Physics (B. Sc. II Paper VI) – Anuradha Publications, Kolhapur. (September 2018). ISBN - 978-93-5321-314-5.
6. Text Book of Physics (B. Sc. I Paper I) – Utkranti Publications, Kolhapur. (July 2019). ISBN – 978-81-938664-6-7
7. Text Book of Physics (B. Sc. I Paper II) – Utkranti Publications, Kolhapur. (August 2019). ISBN – 978-81-938664-5-0

TEACHING EXPERIENCE:

Sr. No.	College Name	Designation	Period
1	Shri. Yashwantrao Patil Science College, Solankur	Head and Assistant Professor	28/04/2014 till to date
2	Sanjeevan Engineering and Technology Institute, Panhala.	Assistant Professor	09/08/2011 to 26/04/2014
3	Rajarambapu Institute of Technology, Sakharale.	Lecturer	15/12/2010 to 30/06/2011
4	Rajaram Shinde Institute of Engineering and Technology, Chiplun.	Lecturer	Aug. 2008 to Jan. 2009
5	Sahyadri Polytechnic, Sawarde, Chiplun.	Lecturer	Nov. 2003 to May 2005

ADMINISTRATIVE EXPERIENCE:

1] IQAC Coordinator – June 2014 to December 2017. Successfully handled the 1st cycle accreditation process of YPSC, Solankur and received NAAC score 2.14

2] Head – Working as Head, Department of Physics since June 2014.

PROFESSIONAL LEADERSHIP:

[1] **Convener:** NCMES-2017:- National Conference on Materials and Environmental Science, Feb 15, 2017.

[2] **Editor:** NCMES-2017 Souvenir.

[3] **Convener:** ICMES-2018:- International Conference on Materials and Environmental Science, Dec 07-08, 2018.

[4] **Editor:** ICMES-2018 Souvenir [ISBN – 978-93-5346-224-6]. Coordinator Special Issue of ICMES-2018 in Materials Today Proceedings (Elsevier) (Scopus indexed journal) – Vol 23 Issue P2 (2020).

[5] **Coordinator** ICFMET-2020:- International eConference on Mechanical Engineering and nanotechnology, November 27-28, 2020.

[6] **Guest Editor** – Materials Today Proceedings (Elsevier) (Scopus indexed journal) - ICFMET-2020 Special Issue Vol 47 Issue P16 (2021).

[7] **Guest Editor** – International Journal of Nanotechnology (Inderscience) (Scopus indexed journal) - ICFMET-2020 Special Issue Vol 18 Issue 11/12 (2021).

[8] **Editor** – Souvenir ICF-MET-2020.

[9] **Organizing Secretary** – ICF-CEET-2021:- International eConference on Frontiers in Computer & Electronics Engineering and nanoTechnology, November 19-20, 2021.

[10] **Guest Editor** – Journal of Active and Passive Electronic Devices (Old City Publishing) (Scopus indexed journal) – ICF-CEET 2021 – Special issue Vol 16 No. 2 (2022).

[11] **Guest Editor** – Journal of Advanced Applied Scientific Research (WOS indexed journal) – ICF-CEET 2021 – Special issue Vol 4 No. 1 (2022).

[12] **Convener** – ICF-MET-2023:- International eConference on Frontiers in Materials Engineering and nanoTechnology, May 05 – 06, 2023.

RESEARCH PAPERS PUBLISHED IN JOURNALS:

<i>Journal</i>	<i>Total</i>
National	-
International	26

LIST OF RESEARCH PUBLICATIONS:

- 1) **R. B. Patil**, J. B. Yadav, R. K. Puri, Vijaya Puri; “Optical properties and adhesion of air oxidized vacuum evaporated bismuth thin films” (*Journal of Physics and Chemistry of Solids*, **68 (4) (2007) 665-669**) [ISSN: 0022-3697] [IF: 2.207].
DOI: <http://dx.doi.org/10.1016/j.jpics.2007.02.019>
- 2) **R. B. Patil**, R. K. Puri, Vijaya Puri; “Oxidation temperature dependent optical properties of bismuth oxide thin films: effect of vapour chopping and air exposure” (*Applied Surface Science*, **253 (2007) 8682-8688**) [ISSN: 0169-4332] [IF:4.439].
DOI: <http://dx.doi.org/10.1016/j.apsusc.2007.04.041>
- 3) J. B. Yadav, **R. B. Patil**, R. K. Puri, Vijaya Puri; “Studies on undoped SnO₂ thin film deposited by Chemical Reactive Evaporation method” (*Material Science and Engineering B*, **139 (2007) 69-73**) [ISSN: 0921-5107] [IF: 3.316].
DOI: <http://dx.doi.org/10.1016/j.mseb.2007.01.032>
- 4) J. B. Yadav, **R. B. Patil**, R. K. Puri, Vijaya Puri; “Optical properties of the chopped and nonchopped vacuum evaporated polyaniline thin film” [*Journal of Non-Crystalline Solids*, **353 (2007) 4691-4696**] [ISSN: 0022-3093] [IF: 2.488].
DOI: <http://dx.doi.org/10.1016/j.jnoncrysol.2007.06.060>
- 5) **R. B. Patil**, R. K. Puri, Vijaya Puri; “Effect of chopping on the properties of bismuth oxide thin films” [*Materials Letters*, **62 (2008) 198-201**] [ISSN: 0167-577X] [IF: 2.687].
DOI : <http://dx.doi.org/10.1016/j.matlet.2007.04.102>

- 6) **R. B. Patil**, R. K. Puri, Vijaya Puri; “Physical properties of tin oxide thin films improved by vapour chopping” [*Journal of Alloys and Compounds*, **463** (2008) 453-457] [ISSN:0925-8388] [IF: 3.779].
DOI: <http://dx.doi.org/10.1016/j.jallcom.2007.09.033>
- 7) **R. B. Patil**, R. K. Puri, Vijaya Puri; “Intrinsic stress of bismuth oxide thin films: effect of vapour chopping and air ageing” [*Journal of Physics: Conference Series*, **114** (2008) 012036] [ISSN: 1742-6588] [IF: 0.45].
DOI: <http://iopscience.iop.org/1742-6596/114/1/012036>
- 8) **R. B. Patil**, R. K. Puri, Vijaya Puri; “Improvement in the mechanical properties of tin oxide thin films due to chopping” [*Journal of Alloys and Compounds*, **462** (2008) 235-239] [ISSN: 0925-8388] [IF: 3.779].
DOI: <http://dx.doi.org/10.1016/j.jallcom.2007.08.003>
- 9) J. B. Yadav, **R. B. Patil**, R. K. Puri, Vijaya Puri; “Studies on spin coated PANI/PMMA composite thin film: effect of post deposition heating” [*Applied Surface Science*, **255** (2008) 2825-2829] [ISSN: 0169-4332] [IF: 4.439].
DOI: <http://dx.doi.org/10.1016/j.apsusc.2008.08.015>
- 10) **R. B. Patil**, R. K. Puri, Vijaya Puri; “Optical transmission loss in tin oxide thin film optical waveguide” [*Applied Surface Science*, **255** (2009) 4271-4273] [ISSN: 0169-4332] [IF: 4.439].
DOI: <http://dx.doi.org/10.1016/j.apsusc.2008.11.027>
- 11) **R. B. Patil**, J. B. Yadav, R. K. Puri, Vijaya Puri; “Optical properties of vapour chopped and nonchopped tin oxide thin films” [*Vacuum*, **83** (2009) 1355-1358] [ISSN: 0042-207X] [IF: 2.067].
DOI: <http://dx.doi.org/10.1016/j.vacuum.2009.04.046>
- 12) S. H. Tamboli, **R. B. Patil**, R. K. Puri, Vijaya Puri; “Modification in optical properties of MgO thin films by vapour chopping” [*Journal of Alloys and Compounds*, **477** (2009) 855-859] [ISSN: 0925-8388] [IF: 3.779].
DOI: <http://dx.doi.org/10.1016/j.jallcom.2008.11.011>
- 13) S. H. Tamboli, S. V. Kamat, S. P. Patil, **R. B. Patil**, J. B. Yadav, Vijaya Puri, R. K. Puri, O. S. Joo; “Oxidation temperature and vapour chopping effects on superficial properties of Bi₂O₃ thin film prepared on glass and alumina substrates” [*Archives of Physics Research*, **1/4** (2010) 73-81] [ISSN: 0976-0970] [IF: 1.35].
- 14) **Rahul B. Patil**, R. K. Puri, Vijaya Puri; “Mechanical properties of bismuth oxide thin films” (*Archives of Physics Research*, **2/1** (2011) 31-38). [ISSN: 0976-0970]. [IF: 1.35].

- 15) S. H. Tamboli, R. K. Puri, V. Puri, **R. B. Patil**, M. F. Luo; “Comparative study of physical properties of vapor chopped and nonchopped Al₂O₃ thin films” [*Materials Research Bulletin*, **46** (2011) 815-819] [ISSN: 0025-5408] [IF: 2.873].
DOI: <http://dx.doi.org/10.1016/j.materresbull.2011.02.037>
- 16) S. V. Kamat, S. H. Tamboli, V. Puri, R. K. Puri, **R. B. Patil**, M. F. Luo; “Determination of optical transmission loss in poly-3-methyl thiophene thin film planar waveguide: Effect of vapour chopping” [*Progress in Electromagnetics Research-M*, **18** (2011) 197-207] [ISSN: 1937-8726] [IF: 1.62].
DOI: [10.2528/PIERM11032501](https://doi.org/10.2528/PIERM11032501)
- 17) S. H. Tamboli, C. B. Singh, **R. B. Patil**, V. Puri, Vandana Singh, R. K. Puri, M. F. Luo; “Enhanced secondary electron emission yield of MgO thin films by vapor chopping technique for plasma display panels” [*Journal of Nano-electronics and Opto-electronics*, **6** (2011) 1-6] [ISSN: 1555-130X] [IF: 1.069].
DOI: <http://dx.doi.org/10.1166/jno.2011.1152>
- 18) Chiun-Yu Ho, **Rahul B. Patil**, Chao-Chuan Wang, Chen-Sheng Chao, Yu-Da Li, Hsing-Chung Hsu, Meng-Fan Luo, Yin-Chang Lin, Yu-Lin Lai, Yao-Jen Hsu; “Methanol-driven structuring of Au-Pt bimetallic nanoclusters on a thin film of Al₂O₃/NiAl(100)” [*Surface Science*, **606** (2012) 1173-1179] [ISSN: 0039-6028] [IF: 1.997].
DOI: <http://dx.doi.org/10.1016/j.susc.2012.03.015>
- 19) **Rahul B. Patil**, Aviraj Jatrakar, Rupesh Devan, Yuan-Ma, Vijaya Puri, J.B. Yadav; “Effect of pH on the properties of chemical bath deposited polyaniline thin films” [*Applied Surface Science*, **327** (2015) 201-204] [ISSN: 0169-4332] [IF: 4.439].
DOI: <http://dx.doi.org/10.1016/j.apsusc.2014.11.128>
- 20) S. H. Tamboli, **R. B. Patil**, A. A. Jatrakar, G. G. Chougale, S. M. Bargir, J. B. Yadav, Vijaya Puri; “Vapor chopped MgO thin film optical waveguide” [*Materials Today Proceedings*, **23/2** (2020) 175-181] [ISSN: 2214-7853] [Scopus Cite Score: 1.8].
DOI: <https://doi.org/10.1016/j.matpr.2020.02.015>
- 21) Santosh B. Parit, Vijay C. Karade, **Rahul B. Patil***, Nilesh V. Pawar, Rushikesh P. Dhavale, Madhumita Tawre, Karishma Pardesi, Umesh Jadhav, Vishal Davkar, Rahul Tanpure, Jin Hyeok Kim, Jyoti Jadhav, Ashok D. Chougale; “Bioinspired synthesis of multifunctional silver nanoparticles for enhanced antimicrobial and catalytic applications with tailored SPR properties” [*Materials Today Chemistry*, **17** (2020) 100285] [ISSN: 2468-5194] [IF: 8.3].
DOI: <https://doi.org/10.1016/j.mtchem.2020.100285>

- 22) PK Salokhe, SS Shetti, VD Patil, TR Patil, RM Nille, AB Chougale, KT Gurav, RB Sutar, AA Jatrakar, GG Chougale, JB Yadav, BM Mohite, SM Bargir, **Rahul B Patil**, SH Tamboli; “Study of physical properties of chemical bath deposited nickel oxide thin films” [*Materials Today Proceedings*, **43 (2021) 2810-2813**] [ISSN: 2214-7853] [Scopus Cite Score: 1.8]
DOI: <https://doi.org/10.1016/j.matpr.2020.09.328>
- 23) **Rahul B. Patil***, Ashok D. Chougale; “Analytical methods for the identification and characterization of silver nanoparticles: A brief review” [*Materials Today Proceedings*, **47/P16 (2021) 5520-5532**] [ISSN: 2214-7853] [Scopus Cite Score: 1.8]
DOI: <https://doi.org/10.1016/j.matpr.2021.03.384>
- 24) **Rahul B. Patil***, Ashok D. Chougale; “On the shape based SPR of silver nanostructures” [*Inderscience Int J Nanotechnol.* **18/11-12 (2021)1015-1027**] [ISSN: 1741-8151] [IF: 0.37; Scopus Cite Score: 1.3]
- 25) Karade Vijay; **Patil Rahul**; Parit Santosh; Kim Jin Hyeok; Chougale Ashok; Dawkar Vishal; “Molecular insights into shape-based silver nanoparticles: a weapon to cope with pathogenic attacks” [*ACS Sustainable Chemistry & Engineering*, **9 (2021) 12476-12507**] [ISSN: 2168-0485] [IF: 8.1]
DOI: <https://doi.org/10.1021/acssuschemeng.1c03797>
- 26) Rupali Chavan, Nilesh Bhat, Santosh Parit, K Narasimharao, Rupesh Devan, **Rahul Patil**, Vijay Karade, Nilesh Pawar, JH Kim, JP Jadhav, AD Chougale; “Development of magnetically recyclable nanocatalyst for enhanced Fenton and photoFenton degradation of MB and Cr(VI) photo-reduction” [*Materials Chemistry and Physics*, **293 (2023) 126964**] [ISSN:0254-0584] [IF: 4.7]
DOI: [10.1016/j.matchemphys.2022.126964](https://doi.org/10.1016/j.matchemphys.2022.126964)
- 27) Tanaji Patil, RS Kamble, **Rahul Patil**, Satish Gangawane, Mansing Takale; “Enhanced Supercapacitive Performance Of Electrodeposited Nanostructured Molybdenum Doped Mn₃O₄ Thin Films” [*International Journal of Materials Research, Submitted, Accepted*] [ISSN: 2195-8556][IF: 0.68]
- 28) Santosh Parit, Vijay Karade, RP Dhavale, **Rahul Patil**, Ashok Chougale; “Bimetallic AgSn Nanoparticles: An Efficient and Sustainable Heterogeneous Catalyst designed for ultrafast removal of dyes” [Under Preparation][ISSN:][IF:]

29)

INTERNATIONAL:

1. **R. B. Patil**, R. K. Puri, Vijaya Puri; “Intrinsic stress of bismuth oxide thin films: effect of vapour chopping and air ageing”, Poster presentation, International Symposium on Vacuum Science and Technology (IVS 2007), Bhabha Atomic Research Centre (BARC) Mumbai, Nov. 28-30, 2007.
2. **R. B. Patil**, S. H. Tamboli, R. K. Puri, Vijaya Puri; “Reduction in ambient air ageing effect of bismuth oxide thin films due to vapour chopping”, Oral presentation, International Conference on Advanced Materials and Applications, Shivaji University, Kolhapur, Maharashtra, India. 15-17 Nov. 2007.
3. S. H. Tamboli, S. V. Kamat, **R. B. Patil**, R. K. Puri, Vijaya Puri; “Adhesion and intrinsic stress of MgO thin films”, poster presented, International conference on Emerging microelectronics and Interconnection technology (EMIT-08), Bangalore, India. Dec. 15-18, 2008.
4. J. B. Yadav, **R. B. Patil**, R. K. Puri, Vijaya Puri; “Composition and thickness dependent optical properties of electro polymerized polyaniline thin film”. Poster presentation, International Symposium on advances in electrochemical science and technology, Goa, India. 28-30 Nov. 2006.
5. J. B. Yadav, **R. B. Patil**, R. K. Puri, Vijaya Puri; “Deposition parameter dependent optical properties of CVD SnO₂ thin film”, Poster presentation, International conference on optics and optoelectronics, Deharadun, India. 12-15 Dec. 2005.
6. S. V. Kamat, **R. B. Patil**, V. S. Patil, R. K. Puri, Vijaya Puri; “Adhesion of the chemical bath deposited polythiophene thin films”, Oral presentation, International conference on Macro and supramolecular Architecture and Materials (MAM 12) – Nano Systems and Applications, Coimbatore, Tamilnadu, India. Nov. 21 to Nov. 25, 2012.
7. **R. B. Patil**, J. B. Yadav, R. K. Puri, “Optical transmission loss in Polyaniline thin films”; Poster Presentation, 2nd International Conference on Physics of Materials & Material based Device Fabrication [ICPM-MDF-2014], Shivaji University, Kolhapur, India. January 13-15, 2014.
8. **R. B. Patil**, G. G. Chougale, “Comparison of adhesion of oxide (Sn, Bi, Mg, Al) thin films”; Poster presentation, International Conference on Emerging Trends in Basic and Applied Sciences [ETBAS – 2015], Karmveer Hire Arts, Science, Commerce and Education college, Gargoti, India. March 10, 2015.
9. AA Jatratkar, JB Yadav, **Rahul B. Patil**, SH Tamboli, V. Puri, RK Puri; “Environmental and Thermal stability of glow discharged plasma polymerized Polypyrrole thin film optical waveguide” International Conference on Materials and Environmental Science [ICMES-2018] Shivaji University Kolhapur December 07-08, 2018.

10. SH Tamboli, **R.B. Patil**, AA Jatrakar, GG Chougale, SM Bargir, JB Yadav, Vijaya Puri; “Vapour chopped MgO thin film optical waveguide” International Conference on Materials and Environmental Science [ICMES-2018] Shivaji University Kolhapur December 07-08, 2018.
11. PK Salokhe, SS Shetti, VD Patil, TR Patil, RM Nille, AB Chougale, KT Gurav, RB Sutar, AA Jatrakar, GG Chougale, JB Yadav, BM Mohite, SM Bargir, **Rahul B Patil**, SH Tamboli; “Study of physical properties of chemical bath deposited nickel oxide thin films” Poster, 2nd International Conference on Multifunctional and Hybrid Materials For Energy and Environment (MHMEE-2020) at YCIS Satara. January 29-31, 2020.
12. NV Pawar, **Rahul B. Patil**, A. D. Chougale; “Antioxidant activity and phytochemical analysis of G. Resinifera” Poster, International Conference on Multifunctional and Hybrid Materials for Energy and Environment [MHMEE-2020], Yashwantrao Chavan Institute of Science, Satara January 29-31, 2020.
13. **Rahul B. Patil**, AD Chougale; “On the shape based SPR of silver nanostructures” Poster, 3rd International eConference on Frontiers in Mechanical Engineering and nanotechnology [ICFMET] November 27-28, 2020.
14. **Rahul B. Patil**; ‘Photocatalytic Applications of Spinel Ferrite Nanoparticles for Wastewater Remediation’ 3rd International Conference Multidisciplinary Approach in Basic and Applied Sciences (MABAS-2023), Padmabhushan Dr Vasantrodada Patil College Tasgaon, February 23-24, 2023.

NATIONAL:

1. **R. B. Patil**, S. P. Patil, S. Tamboli, R. K. Puri, Vijaya Puri; “Vapor chopping effect on the properties of bismuth oxide thin films”, Oral presentation, National conference on Emerging Materials (NCEM-2009), Department of Physics, NBKR Science college, SPS Nellore district, Andhra Pradesh. 18-19 July 2009.
2. **R. B. Patil**, R. K. Puri, Vijaya Puri; “Effect of chopping on the adhesion of the tin oxide thin film”, Oral presentation, National conference on Smart Materials and Recent Technologies (SMART - 2007), Shri Venkateshwara National University, Tirupati, India. 22-23 Feb. 2007.
3. **R. B. Patil**, R. K. Puri, Vijaya Puri; “Comparison of the structural properties of chopped and nonchopped bismuth oxide thin films” Poster presentation, 18th Annual General Meeting of the Material Research Society of India (MRSI), A Theme Symposium on Materials for Energy Generation and Storage, National Physical Laboratory, New Delhi, India. 12-14 Feb. 2007.
4. **R. B. Patil**, R. K. Puri, Vijaya Puri; “Optical study of tin oxide thin films obtained by air oxidation of vacuum evaporated tin”, Poster presentation, National Seminar on Materials for Advanced Technologies (NASMAT), Shivaji University, Kolhapur, India. 23-25 Jan. 2006.
5. **R. B. Patil**, R. K. Puri, Vijaya Puri; “Effect of chopping on the optical and mechanical properties of tin oxide and bismuth oxide thin films” , Poster presentation, Workshop on

- Frontiers in Physics and Chemistry Vision to 21st Century: First Interdisciplinary Shivaji University (India)- Han yang University (South Korea), Bilateral Summit, Indo-Korean workshop, 8-10 Jan. 2007, Shivaji University, Kolhapur, India.
6. **R. B. Patil**, R. K. Puri, Vijaya Puri; “Chopping effects on oxide thin films useful for optical coatings”, Poster presentation, Campaign on University Research and Training (COURT), Shivaji University, Kolhapur, India. 6-7 Oct. 2006.
 7. A. A. Jatratar, **R. B. Patil**, J. B. Yadav, R. K. Puri, Vijaya Puri; “Optical waveguiding properties of vapour chopped polyaniline thin film for integrated optics”, Poster presentation, National Conference on Emerging Technologies for Sustainable Developments, Department of Technology, Shivaji University, Kolhapur, India. Dec. 27 to Dec. 28, 2012.
 8. A. A. Jatratar, J. B. Yadav, **R. B. Patil**, Vijaya Puri, R. K. Puri; ‘Effect of oxidant to monomer ratio on optical and structural properties of Polypyrrole thin films deposited by oxidation polymerization technique’, Poster presentation, National Conference on Research Trends in Smart Materials [NCRTSM-2014], Guru Nanak College of Arts, Science & Commerce, GTB Nagar, Sion, Mumbai, India. January 3-4, 2014.
 9. **R. B. Patil**; “ Comparison of intrinsic stress of oxide (Sn, Bi) thin films”, Poster presentation, National Conference on Recent Trends in Chemical Sciences, Devchand College, Nipani, India. September 18-19, 2014.
 10. S. H. Tamboli, **R. B. Patil**, N. L. Tarwal; “Effect of oxidation temperature and thickness on MgO planar optical waveguide”, Oral presentation, National Conference on Biophysics, Devchand College, Nipani, India. September 19-20, 2014.
 11. **Rahul B. Patil**, S. H. Tamboli, Aviraj Jatratar, J. B. Yadav, Vijaya Puri; “Comparison of adhesion of oxide (Sn, Bi, Mg, Al) thin films”, Poster presentation, National Conference on Materials for Future Technology, Rajaram College, Kolhapur. September 26-27, 2014.
 12. **Rahul B. Patil**; “Vapour chopping effects on the optical properties of vacuum evaporated TeO₂ thin films”, Poster presentation, National Conference on Materials and Environmental Science [NCMES], Oral, Yashwantrao Patil Science College, Solankur, India. February 15, 2017.
 13. **Rahul B. Patil**; “Comparison of physical properties of tin oxide thin films synthesized by vacuum evaporation and chemical reactive evaporation” National Conference on Recent Trends in Chemical Science and its Interdisciplinary Applications [RTCSIA], Poster, Yashwantrao Patil Science College, Solankur, India. January 06, 2018.
 14. **Rahul B. Patil**; ‘Spinel Ferrite Nanoparticles: Remarkable Candidate for Wastewater Treatment’ 5th National Conference on Recent Trends in Pure and Applied Sciences (RTPAS-2023), Dr Patangrao Kadam College Sangli, February 17, 2023.