

CURRICULUM VITAE



Name: Dr. Amitkumar Rajgonda Patil

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Subject & Area of specialization: Physics (Solid State physics)

Qualification: M.Sc., Ph.D., SET

Details of educational qualifications:

Year	Exam	School / College	Board / University
2008	S.S.C	New English School, Sangavade Wadi	Maharashtra State Board,Pune
2010	H.S.C	B.M.Rote Junior College,Kolhapur	Maharashtra State Board,Pune
2013	B.Sc. (Physics)	The New College, Kolhapur	Shivaji University,Kolhapur
2015	M.Sc. (Physics)	Yashvantrao Chavan Institute of Science,Satara	Shivaji University,Kolhapur
2018	SET		Pune University, Pune
2023	Ph.D.		Shivaji University,Kolhapur

Teaching Experience: 2 years at UG level

- (i) Rajarshi Chatrapati Shahu College, Kolhapur (2015-2016)
- (ii) The New College, Kolhapur (2018-2019)

Research activities:

Papers at international journals

(1) **Amitkumar R. Patil**, Tukaram D. Dongale, Sunil S. Nirmale, Rajanish K. Kamat, **Keshav Y. Rajpure**, Bipolar resistive switching and memristive properties of sprayed deposited Bi_2WO_6 thin films. *Materials Today Communications* 28 (2021) 102621. (Impact factor: 3.662)

- (2) **Amitkumar R. Patil**, Tukaram D. Dongale, Rajanish K. Kamat, **Keshav Y. Rajpure**, Spray pyrolysis deposited iron tungstate memristive device for artificial synapse application. *Materials Today Communications* 29 (2021) 102900. (Impact factor: 3.662)
- (3) **Amitkumar R. Patil**, Tukaram D. Dongale, Rajanish K. Kamat, **Keshav Y. Rajpure**, Spray deposited zinc tungstate thin film for non-volatile memory application. *Materials Letters* 322 (2022) 132494. (Impact factor: 3.574)
- (4) **Amitkumar R. Patil**, Tukaram D. Dongale, Rajanish K. Kamat, **Keshav Y. Rajpure**, Binary metal oxide-based resistive switching memory devices: A status review. *Materials Today Communications* 34 (2023) 105356. (Impact factor: 3.662)
- (5) **Amitkumar R. Patil**, Tukaram D. Dongale, Lahu D. Namade, Santosh V. Mohite, Yeonho Kim, Santosh S. Sutar, Rajanish K. Kamat, **Keshav Y. Rajpure**, Sprayed FeWO_4 thin film-based memristive device with negative differential resistance effect for non-volatile memory and synaptic learning applications. *Journal of Colloid and Interface Science* 642 (2023) 540-553. (Impact factor: 9.965)
- (6) S.M. Kumbhar, S.S. Shevate, **A.R. Patil**, S.K. Shaikh, **K.Y. Rajpure**, Dip coated TiO_2 based metal-semiconductor-metal ultraviolet photodetector for UV A monitoring. *Superlattices and Microstructures* 141 (2020) 106490. (Impact factor: 3.22)
- (7) R.S. Pedanekar, S.B. Madake, N.A. Narewadikar, S.V. Mohite, **A.R. Patil**, S.M. Kumbhar, **K.Y. Rajpure**, Photoelectrocatalytic degradation of Rhodamine B by spray deposited Bi_2WO_6 photoelectrode under solar radiation. *Materials Research Bulletin* 147 (2022) 111639. (Impact factor: 5.6)
- (8) S. B. Madake, **A. R. Patil**, R. S. Pedanekar, N. A. Narewadikar, J. B. Thorat, and **K. Y. Rajpure**, The influence of nickel substitution on the structural and gas sensing properties of sprayed ZnFe_2O_4 thin films. *J Mater Sci: Mater Electron* 33 (2022) 6273–6282. (Impact factor: 2.719)
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Papers presented at national and international conferences

Sr. No.	Conference	Organizer	Title
1.	International Conference on Frontier Areas of Science and Technology, (ICFAST-2022) 9-10 th September 2022	University of Hyderabad	Spray deposited iron tungstate thin film memristive device for non-volatile memory application
2.	International Conference on Emerging Trends in Material Science 9-10 th November, 2022	D. P. Bhosale College, Koregaon, District Satara	Memristive properties of Sprayed FeWO ₄ thin films for non-volatile memory
3.	Recent trends in Fabrication of Nano-materials and Their Applications (ICRTFNA-2023) 15 th March, 2023	Rajarshi Chhatrapati Shahu College, Kolhapur	Hydrothermally synthesized iron tungstate thin film memristive device for non-volatile memory
4.	Emerging Trends in Fabrication of Nanomaterials and Their Applications (NCETFNA-2023) 29 th April, 2023	Prof. Dr. N. D. Patil Mahavidyalaya, Malkapur-Perid	Memristive properties of chemically synthesized iron tungstate thin film memristive device for non-volatile memory

Date: 04/11/2023

Place: Kolhapur