

Rayat Shikshan Sanstha's

Yashavantrao Chavan Institute of Science, Satara (Autonomous) Lead College of Karmaveer Bhaurao Patil University, Satara

Faculty Profile

General information

Name : Mr. Suhas Hari Sutar

Designation : Assistant Professor

Department : Nanoscience and Technology

Educational Qualification : M.Sc.

Date of Appointment : 23/09/2024 **Teaching Experience** : UG: 02 years

PG: 03 years

Research Experience : 4 years

Research Area : Materials Science

Educational Qualification Details (undergraduate onwards)

Sr. No.	College/University	Degree	Subjects	Year	Class/ Percentage
1	Shri. Shiv Shahu Mahavidyalaya, Sarud	B.Sc.	Physics	2017	I st Class
2	Yashavantrao Chavan Institute of Science, Satara. (Shivaji University Kolhapur.)	M.Sc.	Physics	2019	Ist Class
3	Shivaji University Kolhapur.	Ph.D.	Physics	Pursuing	NA

Awards/Honors/Recognitions/Scholarship etc.:

Sr. No.	Name of the award/honor/recognition	Awarding Organization	Date and Year
1	Senior Research Fellow (SRF)	Mahajyoti, Nagpur	October, 2021

Details of Research Publications

A) Patent

Sr. No.	Title	Patent No.	Indian/US/ Any other	Granting date
	Metal Organic Framework		Indian	26-01-2024
	Derived Cobalt Phosphate			
1	Synthesized by SILAR for	202321090212		
	Oxygen Evolution Reaction			
	Application			

	A Method for Synthesis of Carbon		Indian	23-02-2024
	Quantum Dot Decorated Nickel			
2	Cobalt Layered Double	202421002826		
	Hydroxide Electrocatalyst for			
	Oxygen Evolution Reaction.			
	A METHOD FOR SYNTHESIS		Indian	22-03-2024
	OF REDUCED GRAPHENE			
	OXIDE- NICKEL OXIDE			
3	NANOFLAKES COMPOSITE	202421013237		
3	ELECTRODE FOR	202421013237		
	ELECTROCHROMIC			
	SUPERCAPACITOR			
	APPLICATION			

B) Books/Book Chapters

Sr. No	Title	Publisher	Year of Publication	ISBN No	Type (Reference/Te xt)
1	Recent Trends in Materials for Advanced Technologies	Aavishkar Publications	2022	978-81- 96470-7- 0	Reference

C) Research papers:

Sr.	Publication				
No	Details				
1.	Hydrothermally Prepared Vanadium Oxide Nanostructures for Photocatalytic				
	Application				
	Bapuso M. Babar, Komal B. Pisal, Suhas. H. Sutar, Sarfraj H. Mujawar, Laxman D.				
	Kadam, Habib M. Pathan, Udayraj T. Pawar, Prakash M. Kadam and Pramod S. Patil-				
	ES Energy & Envaronenment 2022, 15, 82-91				
	(https://dx.doi.org/10.30919/esee8c639)				
2.	Feasibility of Nickel Oxide as an Electrochromic Pseudocapacitor Device: Review				
	Suhas. H. Sutar, Bapuso M. Babar, Komal B. Pisal, Sarfraj H. Mujawar				
	(https://doi.org/10.1016/j.est.2023.109035)				
	(Published at Journal of Energy Storage I.F. 9.4)				
3.	Vanadium pentoxide (V2O5)-reduced graphene oxide (rGO) composite based				
	chemiresistive gas sensor for NO2 sensing				
	B. M. Babar, S. H. Sutar, S. H. Mujawar, V. L. Patil, L. D. Kadam, P. M. Kadam and				
	P. S. Patil (https://doi.org/10.1016/j.mseb.2023.116827)				
	(Published at Material Science and Engineering B I.F. 3.5)				

Symmetric Supercapacitor Based on Biosynthesized Nanosheets of Reduced Graphene Oxide (rGO): Characterization and Electrochemical Behavior Avinash Ashok Survase, Suhas Hari Sutar, Shivaji Bhaurao Ubale, Shivangi Shivraj Kanase (https://doi.org/10.1016/j.jelechem.2023.118020) (Published at Journal of Electroanalytical Chemistry **I.F. 4.5**) Electrochemical and Impedance Analysis of Nickel Oxide Nanoflakes based Electrodes for Efficient Chromo Supercapacitors Suhas. H. Sutar, Sushant B. Patil, Love Bansal, Shivaji B. Sadale, Rajesh Kumar, Sarfraj H. Mujawar (https://doi.org/10.1016/j.electacta.2024.144614) (Published at Electrochimica Acta **I.F. 6.6**) 6. Electrodeposited Tungsten Trioxide (WO3) Thin Films for Electrochromic **Applications** Chemsci advances (2024) P. S. Chavan, P.S. Shedge, S.S. Deshmukh, R. R. Bhandalkar, S.H. Sutar, S. H. Mujawar

E) Paper Presentation in Conference /Seminar/ Symposia:

Sr. No.	Title of the paper	Name of the Conference	Level (Int/Natl/S tat/Uni)	Organizer
1.	Highly Nanoporous Nickel Oxide Thin Film by Hydrothermal Route for Bifunctional Electrochromic Energy Storage Application	Innovation in Smart & Technomaterials	International	SGM College, Karad on 16 th and 17 rd January 2023
2.	Effect of electrolyte concentration on hydrothermally prepared nanoporous nickel oxide coatings for bifunctional electrochromic supercapacitor	International Conference on Nanobiotechnology- 2023	International	YC College, Satara on 17 th and 18 th March 2023
3.	Hydrothermally prepared nanoporous nickel oxide coatings for bifunctional electrochromic supercapacitor	Emerging Trends in Fabrication of Nanomaterials and Their Applications	National	Prof. Dr. N. D. P College, Malakapur on 29 th April 2023

4.	Optimization of Reaction	National Conference on	National	Shivaji
	Time for Hydrothermally	Physics of Materials and		University,
	Prepared Nanoporous	Materials based Device		Kolhapur on
	Nickel Oxide Coatings for	Fabrication		November
	Bifunctional			25-26, 2023
	Electrochromic			
	Supercapacitor			
5.	Pseudocapacitive	Integrative	International	AAAC and
	Performance of Chemical	Nanotechnology		HBGSC,
	Bath Deposited Ni (OH)2	Perspectives for		Manchar,
	Nanoporous Thin Film	Multidisciplinary		Tal.
		Applications 2022		Ambegaon,
				Dist.Pune

F) Citation Index

Index	Google Scholar
Citations	43
h-index	4
i10-index	2

Participation in Orientation/Refresher/FDP/Short Term/Training Programs:

Sr.No.	Name of the programme	Organizing institute	Date
1	Basic Training Program in Nano	Indian Institute of	13 th to 15 th
1	Science and Technology	Science, Bangalore	March 2023
	FDP on Recent Advancement in	Sathyabama Institute of	20 th to 25 th
2	Smart Materials for Sustainable	Science and Technology,	November 2023
	Energy Applications	Chennai	November 2023

Resource person in Conference/Seminar/Workshop/Any other programs: (2018 2023)

Sr. No.	Title of the Event	Level (Int/Natl/Stat/Uni)	Organizer	Date
1.	Three Days on Training Workshop on 'Fabrication and Characterization of Materials	National	Department of Physics, Y. C. I. S. Satara	24-26 April 2023

2.	Five Days on Training Workshop	National	Department of	10-14
	on 'Fabrication and		Physics,	June
	Characterization of Materials		Y. C. I. S. Satara	2024
3.	One Day Workshop on Research	Local	Department of	03
	Methodology		Forensic	August
			Science,	2024
			Y. C. I. S. Satara	

Signature of Faculty