Dr. R. D. Suryavanshi Curriculum vitae

Name

: Dr. Ramchandra Dattatray Suryavanshi

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PERSONAL SUMMARY:

I completed my Ph.D. in Dec 2018 entitled "PHOTOELECTROCATALYTIC DEGRADATION OF ORGANIC COMPOUNDS USING SPRAY DEPOSITED Fe2O3/ZnO THIN FILMS". After completing my Ph.D. I was work as a Temporary Assistant Professor in the department of physics at Shivaji University, Kolhapur (India) from 2019 to 2020. Then due to COVID-19 and my family problem (medical) at the end of the year 2021 to 2022, I was a little bit away from my academic work to support my family (financially, physically and mentally). During this time, I never quit my research work and published 3 research papers as well as I tobk various classes for my village student and guide them to build their beautiful journey.

PERSONAL DATA:

Date of birth

: 3rd July 1992

Nationality

: Indian

Sex

: Male

Languages Known: English, Hindi, Marathi and Kannad.

EDUCATIONAL QUALIFICATION:

Examination	Main Subjects	Board/ University	% of marks	Class	Year of Passing
Ph.D.	Physics	Shivaji University Kolhapur.	-	-	2018
M.Sc.	Physics	Shivaji University Kolhapur.	68.83	I Class	2015
B.Sc.	Physics	Shivaji University Kolhapur.	77.60	I Class	2013
H.S.C.	P.C.M.B.	Kolhapur Board	52.83	II Class	2010
S.S.C.	All subjects	Kolhapur Board	80.46	I Class	2008

RESEARCH EXPERIENCE: (7 years)

Ph.D. : Thesis Title: "PHOTOELECTROCATALYTIC DEGRADATION OF ORGANIC COMPOUNDS USING SPRAY DEPOSITED Fe₂O₃/ZnO THIN FILMS" (2015-2018).



TEACHING EXPERIENCE:

- Research scholar and visiting researcher at Shivaji University Kolhapur (2015-2022)
- Temporary Assistant Professor at Shri Swami Vivekanand Shikshan Sanstha Kolhapur (June 2019- July 2019).
- Temporary Assistant Professor at Sanjay Ghodawat University (Aug 2019- Sep 2020).
- Temporary Assistant Professor at Shivaji University Kolhapur (2019-2020).
- Temporary Assistant Professor (CHB) at Shikshan Maharshi Dr. Bapuji Salunkhe College, Miraj (Present).

DST Project Fellow:

Successfully completed the major research project entitled "Photocatalytic Purification of Wastewater Using Fe2O3/TiO2 Nano-composite Thin Films" funded by DST (SERB), New Delhi. Project No. SB/S2/CMP-0041/2013.

Other:

Research work done with **Prof. Michael Neumann-Spallart, CNRS, France**, on photoelectrocatalysis of organic species using nanocrystalline transition metal oxide thin films, 2015-2017, (Every year one Month)

RESEARCH INTERESTS:

Synthesis and characterizations of

- Nanostructured Materials
- Phocatalytic materials
- Multi-layer oxide thin film
- Carbon based materials

CHARACTERIZATION TECHNIQUES:

X-ray diffraction (XRD), Fourier Transform IR Spectroscopy (FTIR), X-ray Photoelectron Spectroscopy (XPS), Scanning Electron Microscopy (SEM), Transmission Electron Microscopy (TEM), Atomic force microscopy (AFM), UV-Vis Spectroscopy, Electrochemical characterization and Flat band potential etc.

AWARD:

Project Fellow, DST (SERB), New Delhi. Project No. SB/S2/CMP- 0041/2013

RESEARCH PUBLICATIONS:

- ❖ Papers published in International Journals 8
- ❖ Papers presented in National/International Conferences − 03
- ❖ Citations: 152 h-index: 06 i10-index:05

Google Scholar link:

https://scholar.google.co.in/citations?hl=cn&user=nPS98tYAAAAJ& view_op=list_works&sortby=pubdate

Masters level projects:

Electrochemical Impedance Spectroscopy (2014-2015)

INSTRUMENTS HANDLED:

- UV-Visible Spectrophotometer
- * X-ray diffractometer
- High-temperature programmable furnace
- Potentiostat
- Contact angle goniometer

LIST OF PUBLICATIONS (8)

1	Authors	R. D. Suryavanshi, S. V. Mohite, A. A. Bagade, K. Y. Rajpure.				
	Title	Photoelectrocatalytic activity of immobilized Fe2O3 photoelectrode for degradation of salicylic acid and methyl orange dye under				
		visible light illumination.				
	Journal Ionics 24 (2018) 1841-1853.					
2	Authors	R. D. Suryavanshi, S. V. Mohite, A. A. Bagade, S. K. Shaikh, J. B. Thorat, K. Y. Rajpure				
	Title	Nanocrystalline immobilized ZnO photocatalyst for degradation of benzoic acid and methyl blue dye.				
Olive S	Journal	Materials Research Bulletin 101(2018) 324-333.				
3	Authors	R. D. Suryavanshi, K. Y. Rajpure.				
8	Title	Spray deposited Fe2O3 and stratified Fe2O3/ZnO novel				
		photoelectrode for photoelectrocatalytic degradation of benzoic acid under solar light illumination.				
	Journal	Journal of Photochemistry and Photobiology A: Chemistry 357(2018) 72-80.				
4	Authors					
4		R. D. Suryavanshi, S. V. Mohite, S. K. Shaikh, J. B. Thorat K. Y. Rajpure.				
	Title	Spray deposited Fe2O3 photoelectrode for degradation of benzoic				
		acid and methyl blue dye under solar radiation.				
	Journal	Journal of Materials Science: Materials in Electronics 29(2018)2087-20884				
5	Authors	I R Thorat S V Makita S D M 1 1 7 7 7				
		J. B. Thorat, S. V. Mohite, S. B. Madake, R. D. Suryavanshi, K. Y. Raipure, T. I. Shinda, V. I. Enlavi, N. S. Shinda, V. Shinda, V. S. Shinda, V. S. Shinda, V. Shinda, V. Shinda, V. Sh				
	Title	K. Y. Rajpure, T. J. Shinde, V. J. Fulari, N. S. Shinde Electrochemical and surface deformation studies on				
		electrochemical and surface deformation studies on electrodeposited nanostructured Bi2Te3 thin films.				
	Journal	Optics & Laser Technology 113 (2019) 384-393				
6	Authors					
0		R. D. Suryavanshi, S. V. Mohite, A. A. Bagade K. Y. Rajpure,				
	Title	photoelectrocatalytic activity of spray deposited Fe2O2/7nO				
		photoelectrode for degradation of salicylic acid and methyl				
	100	orange dye under solar radiation				
	Journal	Materials Science & Engineering B 248 (2019)114386				

		THE RESIDENCE OF THE PARTY OF T
7	Authors	N. A. Narewadikar, R. D. Suryavanshi, , K. Y. Rajpure.
	Title	Enhanced Photoelectrocatalytic Degradation Activity of
1		Titanium Dioxide Photoelectrode: Effect of Film Thickness.
	Journal	Colloid Journal 83 (2021) 107-115
8	Authors	R. D. Suryavanshi, P. V. Babar, N. A. Narewadikar, K. Y. Rajpure
	Title	Sunlight-assisted novel spray deposited Bi2WO6 photoelectrode for degradation of organic pollutants,
	Journal	Journal of Physics and Chemistry of Solids (2022)

International/ National conferences were attended and papers presented

1	R. D. Suryavanshi, S. V. Mohite, A. A. Bagade, K. Y. Rajpure, Nanocrystalline ZnO photoelectrode for degradation of salicylic acid and methyl orange dye,				
	Innovative Research in Science and Technology (ICIRST – 2017) 7th - 8th, November 2017, Gopal Krishna Gokhale College, Kolhapur.				
2	R. D. Suryayaushi, S. V. Mohite, A. A. Bagade, K. Y. Rajpure				
	Photoelectrocatalytic activity of spray deposited Fe2O3/ZnO photoelectrode for degradation of salicylic acid and methyl orange dye under solar illumination,				
	International Conference on Nanotechnology Addressing the Convergence of Materials science, Biotechnology and Medical science, (IC-NACMBM- 2017) 9th - 11th November 2017, D.Y. Patil Education Society Deemed University, Kolhapur.				
3	R. D. Suryavanshi, K. Y. Rajpure				
	Spray deposited Fe2O3 and stratified Fe2O3/ZnO novel photoelectrode for photoelectrocatalytic degradation of benzoic acid under solar light illumination,				
	International Conference on Physics of Materials & Materials-based Device Fabrication (ICPM MDF-2019) 10th - 11th, January 2019, Department of Physics, Shivaji University, Kolhapur				