Kisan Shikshan Sanstha's

Krantisinh Nana Patil College, Walwa

Faculty Profile

1	Name	Dr. Nitin Santaram Patil	
2	Designation	Associate Professor	
3	Date of Joining the Institute	5/7/1993	
4	Teaching Experience	U.G.: 31 yrs	P.G.: 5 years

Educational Qualification

B.Sc. Chemistry	Shivaji University, Kolhapur	1988
M.Sc. Chemistry	Shivaji University, Kolhapur	1990
Ph.D.	Shivaji University, Kolhapur	2009 -

6	Research Experience	09 yrs	
7	Area of Research	Material science	
9	No. of Research papers published in reputed & UGC recognized journals:		9

10 **LIST OF RESEARCH PAPERS PUBLISHED**

Year of Publication	Title	Journal
2008	Growth mechanism and characterisation of chemically grown Sb doped Bi_2Se_3 thin films	Applied Surface Science, 254 (2008) 5261-5265
2008	Preparation and characterization of thallium(I) doped molybdenum heteropolyoxometalate semiconducting thin films.	Material Chemistry and Physics, 112 (2008) 74-77
2008	Optostructural and electrical studies on electrodeposited Indium doped ZrS_2 thin films.	Journal of Alloys and Compounds, 112 (2008) 74-77.
2009	Effect of Sb doping on thermoelectric properties of chemically deposited bismuth selenide films.	Material Chemistry and Physics 115 (2009) 47-51.
2009	Electrochemical synthesis and characterisation of ZrSe2 thin films	International Journal of Electrochemical science, 4(2009) 887-894.
2009	Optostructural and electrical studies on electrodeposited zirconium sulphoselenide $(ZrS_{0.5}Se_{0.5})_2$ thin films	Rasayan J. Chem. Vol.2, No.2 (2009), 364-370
2010	Optical and electrical studies on MoBi2Se5 thin films prepared by Arrested Precipitation	Archives of Applied Science Research,

		Technique (APT)	2010, 2 (2):275-283
	2010	Synthesis and characterization of chemically deposited $Tl_3(PW_{12}O_{40})$ semiconducting thin films	Archives of Applied Science Research, 2010, 2 (2):294-303
	2012	XPS characterization and optostructural study of chemically deposited Sb (III) doped Bi_2(Te1-xSex)3 thin films	Archives of Physics Research, 2012, 3 (3):245-257

13 Papers Presented in Seminar/Conference/Symposia

	Title of Paper	**Title of Seminar/Conference**	**Organizer**	**Level**	**Date**
1)	Synthesis and Properties of $(Bi_{1-x}Sb_x)_2Se_3$ Thin Films	Twelfth Workshop on the Physics of Semiconductor Devices (IWPSD-2003)	I I T, Madras	Internati onal	16-20 Dec. 2003
2)	Studies on PEC properties of $[Mo(S_{1-x}Se_x)_2]$ Thin Films Electrode	Twelfth Workshop on the Physics of Semiconductor Devices (IWPSD-2003),	I I T, Madras	Internati onal	16-20 Dec. 2003
3)	Photoelectrode analysis and PEC Studies on Chemically Grown Bismuth sulphotelluride Thin Films	Twelfth Workshop on the Physics of Semiconductor Devices (IWPSD-2003),	I I T, Madras	Internati onal	16-20 Dec. 2003
4)	Effect of composition: Chemically Grown Molybdenum Sulphoselenide $Mo(S_{1-x}Se_x)_2$ Thin Films	National Seminar on Materials for Advanced Technologies (NASMAT-2006)	Shivaji University, Kolhapur	National	January 23-25, 2006
5)	Optostructural analysis of antimony bismuth selenide thin films elaborated by arrested precipitation technique	International conference on advanced materials and applications (ICAMA-2007)	Shivaji University, Kolhapur	Internati onal	Novemb er 15-17, 2007
6)	Electrosynthesis and characterisation of $ZrSe_2$ thin films	International conference on advanced materials and applications (ICAMA-2007)	Shivaji University, Kolhapur	Internati onal	Novemb er 15-17, 2007
7)	Studies on Cu (II) substituted Vanadium Heteropolyoxometallate thin films prepared by simple	UGC-SAP National Seminar on synthesis of new materials for industrial applications,	Shivaji University Kolhapur	National	Februar y 1st and 2nd, 2008

	chemical growth process				
8)	Studies on optostructural properties of $Bi_{2-x}Sb_xSe_3$ thin films prepared by arrested precipitation technique (APT)	UGC-SAP National Seminar on synthesis of new materials for industrial applications,	Shivaji University Kolhapur	National	February 1st and 2nd, 2008
9)	Morphological, compositional and structural studies of thallium (I) substituted tungsten heteropolyoxometalate thin films	UGC-SAP National Seminar on synthesis of new materials for industrial applications,	Shivaji University Kolhapur	National	February 1st and 2nd, 2008
10)	Structural, morphological and optical studies of chemically deposited zirconium dichalcogenide thin films	UGC-SAP National Seminar on synthesis of new materials for industrial applications,	Shivaji University Kolhapur	National	February 1st and 2nd, 2008
11)	Properties of chemically deposited Bi_2Se_3 thin films	International conference on material science research and nanotechnology (ICMSRN2008)	Mother Teresa Women's University, Kodaikanal.	International	27-29 February 2008
12)	Structural and electrical studies on thallium (I) substituted molybdenum heteropolyoxometalate semiconducting thin films.	International conference on material science research and nanotechnology (ICMSRN2008)	Mother Teresa Women's University, Kodaikanal.	International	27-29 February 2008
13)	Synthesis and characterisation of ZrS_2 thin films	International conference on material science research and nanotechnology (ICMSRN2008)	Mother Teresa Women's University, Kodaikanal.	International	27-29 February 2008
14)	Electrosynthesis and characterization of Zirconium Sulphoselenide thin films	International conference on "Biomedical Engineering and Nanotechnology" (ICBENT-2008)	D. Y. Patil University, Kolhapur.	International	21-23rd October 2008
15)	Synthesis and Characterization of a	International	D. Y. Patil	Internati	21-23rd

	New Quaternary $MoBiInSe_5$ Mixed Chalcogenide Thin Films	conference on "Biomedical Engineering and Nanotechnology" (ICBENT-2008)	University, Kolhapur.	onal	October 2008
16)	Influence of Tl^+ doping on optostructural and electrical properties $Tl_3(PW_{12}O_{40})$ thin films.	International conference on nanomaterials and applications (ICNAMA-2008)	Shivaji University, Kolhapur	Internati onal	9-11th Decemb er 2008
17)	Electrosynthesis and characterization of Indium doped $ZrSe_2$ thin films	International conference on nanomaterials and applications (ICNAMA-2008)	Shivaji University, Kolhapur	Internati onal	9-11th Decemb er 2008
18)	Preparation and Chracterization of chemically deposited New ternary $MoBiSe_3$ mixed chalcogenide thin films	International conference on nanomaterials and applications (ICNAMA-2008)	Shivaji University, Kolhapur	Internati onal	9-11th Decemb er 2008
19)	Influence of Bi^{3+} on photoconductive properties of chemically deposited Sb_2Se_3	International conference on nanomaterials and applications (ICNAMA-2008)	Shivaji University, Kolhapur	Internati onal	9-11th Decemb er 2008
20)	Synthesis and characterization of chemically deposited nanomaterial thin films of copper iron sulfide	International conference on nanomaterials and applications (ICNAMA-2008)	Shivaji University, Kolhapur	Internati onal	9-11th Decemb er 2008
21)	Optostructural and photoelectrochemical studies on $MoBiInSe_3$ thin films for Solar applications.	National Seminar on advanced materials-2010 (NSAM-2010)	Shivaji University, Kolhapur	National	19-20 March 2010
22)	Photoelactrochemical and and	National Seminar on	Shivaji University,	National	19-20 March

	compositional studies on WSe_2 thin films	advanced materials-2010 (NSAM-2010)	Kolhapur		2010
23)	Effect of Tl^+ doping on photoelectrochemical performance of chemically deposited Tungsten heteropolyoxometalate thin films.	National Seminar on advanced materials-2010 (NSAM-2010)	Shivaji University, Kolhapur	National	19-20 March 2010
24)	Electrochemical Synthesis and Characterization of Indium doped $ZrSe_2$ Thin Films	National seminar on Chemistry and its role in human development-2012 (NSCRHD12)	Dr. Patangrao Mahavidyalaya, Sangli	National	26th March 2012

15	**Contribution to University level committees** **1) Member, Selection Committee for Assst. Professor** **2) Member, Local Inquiry Committee** **3) Chairman, B. Sc. III (Sugar Tech) syllabus committee**		
16	**Contribution to Institution level committees**		
	Name of the Committee/Activity	**Position Held/Role Played**	**Duration /Date**
1	**PBAS/CAS Committee**	**Chairman**	**From 2012 to 2020**
2	**Student Counselling, career guidance**	**Chairman**	**From 2008 to 2020**
3	**Extension activity**	**Member**	**From 2012 to 2020**
21	**Best Practice created in Teaching, Learning and Evaluation**		
	1) Seminar activity **2) Project work** **3) Bridge course for B. Sc. I** **4) ICT teaching** **5) Value added course** **6) Remedial teaching** **7) Simplified Reading Material**		

Date: **Name with Signature**