M. G. Vidyamandir's

Loknete Vyankatrao Hiray Arts, Science and Commerce College,

Panchavati, Nashik-422003

DEPARTMENT OF PHYSICS

Research Paper Publications/Presentations

Name of the Faculty: PROF. DR. SUNIL JAGANNATH PATIL

Research Papers Published in Journals: 30

Sr. No.	Title of Paper	Name of Journal	Year of Publication	ISSN Number	DOI/ Online link if any
1)	"Preparation and Characterization of WO3 Thick Film Resistors using Screen Printing Technique"	Asian journal of organic & medicinal chemistry (AJOMC). Vol. 7	April-June 2022	2456- 8937	http://ajomc.asianpubs.org/
2)	"Effect of thickness of Iron, Copper, Nickel, Aluminium and Brass on Modulus of Rigidity."	Ajanta International multidisciplinary quarterly research journal Vol. 8, Issue-I, Jan-Mar 2019	Jan-Mar 2019	2277- 5730	https://drive.google.com/drive/folders/12Vs5ZZD3U6p 2O5NFOtyLcv5ALSxoHmt f?usp=sharing
3)	Potentiometric Study and Statistical Analysis of Human Urine Samples using Reduced Graphene Oxide Screen Printed Electrodes	Asian Journal of Organic & Medicinal Chemistry (AJOMC)	Vol. 7 No. 2 (April-June, CRNSS 2022) Pp 237-242	2456- 8937	http://ajomc.asianpubs.org/
4)	Comparative studies of electrical and gas sensing properties of undoped and tin oxide doped with antimony and cadmium	Asian Journal of Organic & Medicinal Chemistry (AJOMC)	Vol. 7 No. 2 (April-June, CRNSS 2022) Pp 306-312	2456- 8937	http://ajomc.asianpubs.org/
5)	Electrical and Gas Sensing Properties of Cd-doped SnO2 thin films using PVD Technique	Journal of Emerging Technologies and Innovative Research	Volume 7 Issue 11 , November- 2020 pp 975- 980	2349- 5162	https://www.jetir.org/
6)	"Effect of thickness of Iron, Copper, Nickel, Aluminum and Brass on Modulus of Rigidity."	Ajanta International multidisciplinary quarterly research journal	Vol. 8, Issue- I, Jan-Mar 2019 Pp 94- 98	2277- 5730	https://publons.com/journal/525270/an-international-multidisciplinary-quarterly-resea/
7)	"Preparation and Characterizations of Bi- Doped Tin Oxide Thin Film Gas Sensor' Researcher's World"	Researchers World	Vol.–IX, Special Issue (Jan. 2018) pp 36-39	2231- 4172	https://www.citefactor.org/j ournal/index/10822/researc hers-world-journal-of-arts- science- commerce#.Yrklb_1Byos
8)	The young's modulus of Cu, Al, Fe, Stainless steel and Wood by using Y by bending of a bar technique.	Journal of Ultra- Scientist of Physical Sciences Section B	JUSPS -B Vol. 30(5) May-2018 Pp. 64-67	2231- 3478 2319- 8052	http://www.ultraphysicalsci ences.org/
9)	"Preparation and Characterization of Titania Thick Film Resistors"	Researchers World	VolIX sp. issue,	2231- 4172	https://www.citefactor.org/j ournal/index/10822/researc hers-world-journal-of-arts-

Sr. No.	Title of Paper	Name of Journal	Year of Publication	ISSN Number	DOI/ Online link if any
			2018, pp. 47-52		science- commerce#.Yrklb_1Byos
10)	"Gas Sensing Studies of Tin Oxide Thin Films Annealed at Different Temperatures"	IRA-International Journal of Technology & Engineering	Vol. 09, Issue 02 Nov. 2017 pp. 10- 15	2455- 4480	https://journals.research-advances.org/jte/
11)	"Effect of Bi doping on Electrical and Gas Sensing Properties of Tin Oxide Thin Film Gas Sensor Prepared by Physical Vapour Deposition Method"	Journal of Research & Development	Vol. 8 Sp.Issue 04 Dec. 2017 pp 93-96	2230- 9578	http://jrdrvb.com/
12)	"Preparation, Characterization and Gas Sensing Performance of Pure SnO ₂ Thin Films Deposited using Physical Vapour Deposition Technique"	IRA-International Journal of Technology & Engineering	Vol.04, Issue 02 Aug. 2016 Pp. 103-116	2455- 4480	https://journals.research- advances.org/jte/
13)	"Influence of Annealing Temperature on Structural and Electrical characteristics of Pure SnO2 Thin Films Deposited by Physical Vapour Deposition Technique"	Research Journey- International Multidisciplinary e- Research Journal	Feb. 2016 pp.15-22	2348- 7143	https://www.researchjourne y.net/
14)	"Influence of Firing Temperature on Compositional and Structural Parameters of Screen Printed TiO ₂ Thick Films"	Bionano Frontier	Vol. 8 (3), May- 2015, pp 63-66.	0974- 0678 2320- 9593	https://www.citefactor.org/journal/index/9760/bionano-frontier#.YrknaP1Byos
15)	"Role of firing temperature on structural and electrical characteristics of Titania thick film for sensor applications"	Journal of Optoelectronics and Advanced Materials	Vol.17, No. 5-6, May- June 2015, pp. 655-659	1454 - 4164 1841 - 7132 -	https://joam.inoe.ro/
16)	"Semiconductor metal oxide compounds based gas sensors: A literature review"	Frontiers of Material Science	Vol. 9(1), 2015, pp.14-37.	2095- 0268	https://www.springer.com/j ournal/11706
17)	"Effect of Firing Temperature on the Composition and Structural Parameters of Screen Printed	Sensors & Transducers Journal	Vol.9, Sp.Issue Dec.2010, Pp.223-232.	2306- 8515 1726/547	https://www.sensorsportal.c om/HTML/DIGEST/Submi tion.htm

Sr. No.	Title of Paper	Name of Journal	Year of Publication	ISSN Number	DOI/ Online link if any
	ZrO ₂ Thick Film Sensors"			9	
18)	"Photo conductivity study as a function of thickness and composition of Zn-Te thin films for different illuminated conditions at room temperature"	Optoelectronics and Advanced Materials- Rapid Communication	Vol.4, Issue.3, March 2010, p. 291-294	1842- 6573 On-line: ISSN 206 5-3824	https://oam-rc.inoe.ro/
19)	"Al-doped TiO ₂ Thick Film Resistors as H ₂ S Gas Sensor"	Sensors & Transducers Journal	Vol. 9, Sp. Issue, Dec. 2010, pp. 39-47.	2306- 8515 e-ISSN 1726/547	https://www.sensorsportal.c om/HTML/DIGEST/Submi tion.htm
20)	"Influence of Firing Temperature on Compositional and Structural Properties of TiO ₂ thick Films"	Inverties Journal of Science and Technology	Vol.3, No.3, July-Sept. 2010, pp. 184-193	0973- 8940) Online ISSN: 24 54-762X	https://indianjournals.com/i jor.aspX?target=ijor:ijst1&t ype=home
21)	"Effect on Ethanol Gas Sensing Performance of Cu Addition to TiO ₂ Thick Films"	Sensors & Transducers Journal	Vol. 116, issue 5, May 2010, pp. 28- 37	2306- 8515 e-ISSN 1726/547	https://www.sensorsportal.c om/HTML/DIGEST/Submi tion.htm
22)	"Formulation and Characterization of Cu Doped ZnO Thick Films as LPG Gas Sensor"	Sensors & Transducers Journal	Vol. 9, Sp. Issue, Dec. 2010, pp. 11- 20	2306- 8515 e-ISSN 1726/547	https://www.sensorsportal.com/HTML/DIGEST/Submition.htm
23)	"Study of Microstructural Parameters of Screen Printed ZnO Thick Film Sensors"	Sensors & Transducers Journal	Vol. 117, Issue 6, June 2010, pp.62- 70	2306- 8515 e-ISSN 1726/547	https://www.sensorsportal.c om/HTML/DIGEST/Submi tion.htm
24)	"Influence of Nb ₂ O ₅ doping on ZnO thick film gas sensors"	Journal of Optoelectronics and Advanced Materials	Vol. 12, Issue 6, 2010, pp. 1255- 1261	on-line: 1841- 7132)	https://joam.inoe.ro/
25)	"Influence of Firing Temperature on Compositional and Structural Characteristics of ZrO ₂ Thick Films Gas Sensor"	Sensors & Transducers Journal	Vol. 113, Issue 2, Feb. 2010, Pp.107-114	2306- 8515 e-ISSN 1726/547 9	https://www.sensorsportal.c om/HTML/DIGEST/Submi tion.htm

Sr. No.	Title of Paper	Name of Journal	Year of Publication	ISSN Number	DOI/ Online link if any
26)	"Effect of Firing Temperature on Electrical and Structural characteristics of Screen Printed TiO ₂ Thick Films"	Opto-electronics & Advanced Materials- Rapid Communications (OAM-RC)	Vol.3 Issue 10, 2009, pp. 1013- 1017.	1842- 6573 On-line: ISSN 206 5-3824)	https://oam-rc.inoe.ro/
27)	"Formulation and characterization of Cr ₂ O ₃ doped ZnO thick films as H ₂ S gas Sensor"	Sensors & Transducers Journal	Vol. 108, Issue 9, Sept. 2009, pp.189- 197	2306- 8515 e-ISSN 1726/547	https://www.sensorsportal.c om/HTML/DIGEST/Submi tion.htm
28)	"Effect of Firing Temperature on Electrical and Structural characteristics of Screen Printed ZnO Thick Films"	Optoelectronics & Advanced Materials— Rapid Communications	Vol. 3, Iss.9, 2009, pp. 879 – 883	1842- 6573 On-line: ISSN 206 5-3824	https://oam-rc.inoe.ro/
29)	"Effect on H ₂ S Gas Sensing Performance of Nb ₂ O ₅ Addition to TiO ₂ Thick Films"	Sensors & Transducers Journal	Vol. 109, Issue 10, Oct. 2009, pp. 117-125	2306- 8515 e-ISSN 1726/547	https://www.sensorsportal.c om/HTML/DIGEST/Submi tion.htm
30)	"Ammonia gas Sensing performance of Cr ₂ O ₃ loaded TiO ₂ thick film resistors"	Solid state Science And Technology	Vol. 17, No.2,2009, pp.197-207	0128- 7389	https://myjms.mohe.gov.m y/index.php/masshp

***** Research Papers Presented in Conferences/Workshops/Seminars/Webinars: 16

INTE	INTERNATIONAL LEVEL						
Sr. No.	Conference topic	Title of the paper	Place	Year			
1	Innovations in teaching Learning and Evaluation in Higher Education	Physical Properties of Zink Sulphide (ZnS) Thin Film by Electrochemical Deposition.	L.V.H. Arts, Sci. and commerce college Panchavati, Nashik, M.S., India.	23-24 Jan. 2019			
2	Emerging trends and issues in research and development	"Study of some parameters of semiconductor metal oxide thick film resistors"	MSG College, Malegaon Camp, Malegaon, M.S., India	17-18 Feb. 2016			
3	Emerging trends and challenges in science and technology	"Structural parameters of Screen printed TiO2 thick film"	Bionano Frontier and International So. of science and technology Mumbai in association with Sinsil International Ltd. Bangkok, Thailand	3-5 Nov. 2014			

4	Nanoscience and	"Role of Firing temperature on	B.B.A. Central	18-20
	Nanotechnology	structural and electrical	University, Lucknow,	Nov.2013
		characteristics of Titania thick	U.P., India.	
		film sensors		
5	Frontiers in material	"Study of firing temperature on	Loyola college, Chennai,	11-13 Jan.
	science for energy and	the composition, structural	Tamil Nadu, India.	2012
	Environment	parameters of screen printed		
		ZrO2 thick sensors"		
6	Interdisciplinary	"Influence of firing	Jamia Millia Islamia	2-4 December
	Science Conference	Temperatures on	Central University	2010
		Compositional and Structural		
		properties of ZrO2 thick films"		
7	workshop and	"Study of Compositional and	Centre for Material for	7-10, July
	symposium on	Micro Structural Parameters of	Electronics Technology	2010
	synthesis and	ZrO2 Thick Film Sensors with	C-MET, Pune	
	characterization Glass	Firing Temperatures"		
	/ glass ceramics			
8	Sensing Technology	. "Effect of Firing Temperature	Salento University, Lecce,	3-5 June 2010
		on the Composition and	Italy.	
		Structural Parameters of Screen		
		Printed ZrO2 Thick Film		
		Sensors"		
NATI	IONAL LEVEL			
9	"Material Science:	Chaired a Session	L. K. Dr. P. R. Ghogare	20 Feb. 2019.
	Advancement and		Science College, Dhule.	
	Innovations		Chaired a Session	
10	"Non Conventional	Chaired a Session	Uttamrao Patil Arts &	6 Jan. 2018
	Energy sourses for		Science College Dahivel,	0 va ii. 2010
	Rural development of		Dist. Dhule	
	India."			
11	"Recent development	TiO2, WO3 Thick film	"G. T. Patil Arts, Science	5-6 Feb. 2016
	_	1		2 0 1 00. 2010
	in Nanomaterial's &	resistors as LPG gas Sensor	and Commerce College	
	in Nanomaterial's & their Applications.	resistors as LPG gas Sensor	and Commerce College, Nandurbar	
10	their Applications.		Nandurbar	10.10.1
12	their Applications. Recent Trends in	RF Based Remote Robot for	Nandurbar L.V.H. College,	12-13, Jan.
12	their Applications. Recent Trends in Advanced	RF Based Remote Robot for detection of gas in hazardous	Nandurbar L.V.H. College, Panchavati, Nashik, Dist.	12-13, Jan. 2015.
12	their Applications. Recent Trends in	RF Based Remote Robot for	Nandurbar L.V.H. College,	*
12	their Applications. Recent Trends in Advanced	RF Based Remote Robot for detection of gas in hazardous	Nandurbar L.V.H. College, Panchavati, Nashik, Dist.	*
	their Applications. Recent Trends in Advanced Communication."	RF Based Remote Robot for detection of gas in hazardous area	Nandurbar L.V.H. College, Panchavati, Nashik, Dist. Nashik,	2015.
	their Applications. Recent Trends in Advanced Communication."	RF Based Remote Robot for detection of gas in hazardous area Role of firing temperature on	Nandurbar L.V.H. College, Panchavati, Nashik, Dist. Nashik, ". K.T.H.M. College,	2015. 21-23, Oct.
	their Applications. Recent Trends in Advanced Communication."	RF Based Remote Robot for detection of gas in hazardous area Role of firing temperature on structural and electrical	Nandurbar L.V.H. College, Panchavati, Nashik, Dist. Nashik, ". K.T.H.M. College,	2015. 21-23, Oct.
	their Applications. Recent Trends in Advanced Communication."	RF Based Remote Robot for detection of gas in hazardous area Role of firing temperature on structural and electrical characteristics of TiO2 thick	Nandurbar L.V.H. College, Panchavati, Nashik, Dist. Nashik, ". K.T.H.M. College,	2015. 21-23, Oct.
13	their Applications. Recent Trends in Advanced Communication." "Nanomaterials Avenue	RF Based Remote Robot for detection of gas in hazardous area Role of firing temperature on structural and electrical characteristics of TiO2 thick film sensors.	Nandurbar L.V.H. College, Panchavati, Nashik, Dist. Nashik, ". K.T.H.M. College, Nashik, Dist. Nashik	2015. 21-23, Oct. 2013
13	their Applications. Recent Trends in Advanced Communication." "Nanomaterials Avenue Advanced Materials	RF Based Remote Robot for detection of gas in hazardous area Role of firing temperature on structural and electrical characteristics of TiO2 thick film sensors. Study of Morphological and	Nandurbar L.V.H. College, Panchavati, Nashik, Dist. Nashik, ". K.T.H.M. College, Nashik, Dist. Nashik SVS Arts and Science	2015. 21-23, Oct. 2013
13	their Applications. Recent Trends in Advanced Communication." "Nanomaterials Avenue Advanced Materials	RF Based Remote Robot for detection of gas in hazardous area Role of firing temperature on structural and electrical characteristics of TiO2 thick film sensors. Study of Morphological and Structural parameter of TiO2-	Nandurbar L.V.H. College, Panchavati, Nashik, Dist. Nashik, ". K.T.H.M. College, Nashik, Dist. Nashik SVS Arts and Science	2015. 21-23, Oct. 2013
13	their Applications. Recent Trends in Advanced Communication." "Nanomaterials Avenue Advanced Materials and its Applications	RF Based Remote Robot for detection of gas in hazardous area Role of firing temperature on structural and electrical characteristics of TiO2 thick film sensors. Study of Morphological and Structural parameter of TiO2-WO3 composites.	Nandurbar L.V.H. College, Panchavati, Nashik, Dist. Nashik, ". K.T.H.M. College, Nashik, Dist. Nashik SVS Arts and Science College, Dondaicha.	2015. 21-23, Oct. 2013 1-2, Feb. 2013
13	their Applications. Recent Trends in Advanced Communication." "Nanomaterials Avenue Advanced Materials and its Applications	RF Based Remote Robot for detection of gas in hazardous area Role of firing temperature on structural and electrical characteristics of TiO2 thick film sensors. Study of Morphological and Structural parameter of TiO2-WO3 composites.	Nandurbar L.V.H. College, Panchavati, Nashik, Dist. Nashik, ". K.T.H.M. College, Nashik, Dist. Nashik SVS Arts and Science College, Dondaicha. K.T.H.M. College,	2015. 21-23, Oct. 2013 1-2, Feb. 2013 28-30, Mar.
13	their Applications. Recent Trends in Advanced Communication." "Nanomaterials Avenue Advanced Materials and its Applications Applications of Electronics in	RF Based Remote Robot for detection of gas in hazardous area Role of firing temperature on structural and electrical characteristics of TiO2 thick film sensors. Study of Morphological and Structural parameter of TiO2-WO3 composites.	Nandurbar L.V.H. College, Panchavati, Nashik, Dist. Nashik, ". K.T.H.M. College, Nashik, Dist. Nashik SVS Arts and Science College, Dondaicha. K.T.H.M. College,	2015. 21-23, Oct. 2013 1-2, Feb. 2013 28-30, Mar.
13	their Applications. Recent Trends in Advanced Communication." "Nanomaterials Avenue Advanced Materials and its Applications Applications of Electronics in Astonomy &	RF Based Remote Robot for detection of gas in hazardous area Role of firing temperature on structural and electrical characteristics of TiO2 thick film sensors. Study of Morphological and Structural parameter of TiO2-WO3 composites.	Nandurbar L.V.H. College, Panchavati, Nashik, Dist. Nashik, ". K.T.H.M. College, Nashik, Dist. Nashik SVS Arts and Science College, Dondaicha. K.T.H.M. College,	2015. 21-23, Oct. 2013 1-2, Feb. 2013 28-30, Mar.
13	their Applications. Recent Trends in Advanced Communication." "Nanomaterials Avenue Advanced Materials and its Applications Applications of Electronics in Astonomy & Astrophysics	RF Based Remote Robot for detection of gas in hazardous area Role of firing temperature on structural and electrical characteristics of TiO2 thick film sensors. Study of Morphological and Structural parameter of TiO2-WO3 composites. Participation	Nandurbar L.V.H. College, Panchavati, Nashik, Dist. Nashik, ". K.T.H.M. College, Nashik, Dist. Nashik SVS Arts and Science College, Dondaicha. K.T.H.M. College, Nashik, Dist.Nashik	2015. 21-23, Oct. 2013 1-2, Feb. 2013 28-30, Mar. 2013.

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