

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. KAVERI BAPURAO BHAMARE**

**❖ Research Papers Published in Journals: 16**

Sr. No.	Title of Paper	Name of Journal	Year of Publication	ISSN Number	DOI/ Online link if any
1	Research Study of Structural, Morphological and Optical Properties of Screen-Printed thick Films of Titanium Oxide with Tin Oxide Composition	Asian Journal of Organic & Medicinal Chemistry Volume 7, Number 2, 2022 Pp 1-6	April-June 2022	2456-8937	<a href="https://drive.google.com/file/d/1W9UXwkyZJW5ShJkA61Cg_3C_PWTRmu18/viiew">https://drive.google.com/file/d/1W9UXwkyZJW5ShJkA61Cg_3C_PWTRmu18/viiew</a>
2	Structural characterization and gas sensing performance of TiO <sub>2</sub> metal oxide semiconductor for NO <sub>2</sub> detection.	Journal of the Maharaja Sayajirao University of Baroda, Volume-55, No.1(IV) 2021. Pp 5-11	2021	0025-0422	<a href="https://drive.google.com/drive/folders/1YbPuhJUGXyRDvJTAdRITryMGWqtYP14?usp=sharing">https://drive.google.com/drive/folders/1YbPuhJUGXyRDvJTAdRITryMGWqtYP14?usp=sharing</a>
3	Sensitivity of screen printed WO <sub>3</sub> thick film chemiresistance gas sensor with alteration in firing temperature	International Journal of Scientific Development and Research (IJS DR) Volume 6 Issue 1. Jan 2021. Pp 262-268	Jan-21	2455-6211	<a href="http://doi.one/10.1729/Journal.27970">http://doi.one/10.1729/Journal.27970</a>
4	Indoor Power Generation by Vaseline Glass Plate Modulated Solar Photo-Voltaic Panel.	International Journal for Research Trends and Innovation Vol. 5 Issue 5, May 2020 Pp 122-125	May-20	2456 - 3315	<a href="http://doi.one/10.1729/Journal.27969">http://doi.one/10.1729/Journal.27969</a>
5	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	<a href="https://drive.google.com/drive/folders/12Vs5ZZD3U6p2O5NFOtyLcv5ALSxoHmtf?usp=sharing">https://drive.google.com/drive/folders/12Vs5ZZD3U6p2O5NFOtyLcv5ALSxoHmtf?usp=sharing</a>
6	The effect of Temperature on the Viscosity of Glycerine, Water, Paraffin Oil.	Ajanta International multidisciplinary quarterly research journal Vol. 8, Issue-I, Jan-Mar 2019 Pp 112-115	Jan-Mar 2019	2277-5730	<a href="https://drive.google.com/drive/folders/12Vs5ZZD3U6p2O5NFOtyLcv5ALSxoHmtf?usp=sharing">https://drive.google.com/drive/folders/12Vs5ZZD3U6p2O5NFOtyLcv5ALSxoHmtf?usp=sharing</a>
7	Comparative study of Viscosity variation with functional group of liquid molecules using FT-IR spectroscopy.	Journal of Emerging Technologies and Innovative Research, JETIR Vol. 6 Issue 1 2019	2019	2349-5162	<a href="http://doi.one/10.1729/Journal.27845">http://doi.one/10.1729/Journal.27845</a>
8	Preparation and Characterization of Tungsten Oxide Thick Film Gas Sensor.	International Journal of Engineering Science Invention (IJESI) Vol. 7 Issue 7 (July 2018) pp 66-77	Jul-18	2319-6734	<a href="http://www.ijesi.org/papers/Vol(7)i7/Version-2/H0707026677.pdf">http://www.ijesi.org/papers/Vol(7)i7/Version-2/H0707026677.pdf</a>
9	Measurement Studies: Mixing Properties of Binary Liquid Mixtures of Ester	Researchers World, Vol- IX, special Issue, (2018) pp 95-97	2018	2231-4172	<a href="https://sciencedocbox.com/Chemistry/86248318-">https://sciencedocbox.com/Chemistry/86248318-</a>

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	with Alkanols at Various Temperature.				<a href="http://Volume-ix-special-issue-january-2018.html">Volume-ix-special-issue-january-2018.html</a>
10	Influence of Firing Temperature on Nature of Screen Printed WO <sub>3</sub> Thick Films.	Researchers World, Vol. 9 (2018) pp 1-4	2018	2231-4172	<a href="https://sciedocbox.com/Chemistry/86248318-Volume-ix-special-issue-january-2018.html">https://sciedocbox.com/Chemistry/86248318-Volume-ix-special-issue-january-2018.html</a>
11	NO <sub>2</sub> Gas Sensing Properties of Screen Printed WO <sub>3</sub> Thick Films.	International Journal of Chemical and Physical Sciences-IJCPS Vol. 7 (2018), pp 375-381	2018	2319-6602	<a href="http://10.13140/RG.2.2.17128.16640">10.13140/RG.2.2.17128.16640</a>
12	Synthesis and Ammonia gas sensing study of Al doped WO <sub>3</sub> nanoparticles.	International Journal of Research and Analytical Reviews (IJRAR.ORG) Vol.5, Issue 3, August 2018 pp.225-235,	Aug-18	2349-5138	<a href="https://ijrar.org/viewfull.php?&amp;p_id=IJRAR19D2904">https://ijrar.org/viewfull.php?&amp;p_id=IJRAR19D2904</a>
13	Indoor Power Generation by Vaseline Glass Plate Doped with Non-Fermi Liquid behaviour of Electron Metals (U <sub>x</sub> Th <sub>1-x</sub> PdSi <sub>2</sub> , x ≤ 0.07).	International Journal of Creative Research Thoughts (IJCRT), Vol.5, Issue ,1 March 2017 pp.871-873	Mar-17	2320-2882	<a href="http://doi.one/10.1729/Journal.27968">http://doi.one/10.1729/Journal.27968</a>
14	Excess internal pressure and excess enthalpies of some binary liquid mixtures of Ethyl Acetate with alkanols (C <sub>1</sub> -C <sub>4</sub> ) at 298.15 K, 303.15 K and 308.15 K.	Journal of Emerging Technologies and Innovative Research, JETIR Vol. 3 Issue 2	Feb-16	2349-5162	<a href="https://www.jetir.org/view.php?paper=JETIR1701571">https://www.jetir.org/view.php?paper=JETIR1701571</a>
15	Development of H <sub>2</sub> S gas sensor using Nano Tungsten Oxide.	Researchers World, Vol. 7, Special Issue-4 (5), Dec. 2016, pp117-118	Dec-16	2231-4172	<a href="https://drive.google.com/file/d/1ZGtydmvYECF-M08uKP-rnawYM7HSht6e/view?usp=sharing">https://drive.google.com/file/d/1ZGtydmvYECF-M08uKP-rnawYM7HSht6e/view?usp=sharing</a>
16	Screen Printed ZnO Films as H <sub>2</sub> S Sensor.	Bionano Frontier Vol. 8 (3) (2015) pp 87-89	2015	0974-0678 (2320-9593)	<a href="https://drive.google.com/file/d/1eTQGDS_zZplc-eRxJ0Ctcius2QdanZXQ/view?usp=sharing">https://drive.google.com/file/d/1eTQGDS_zZplc-eRxJ0Ctcius2QdanZXQ/view?usp=sharing</a>

❖ **Research Papers Presented in Conferences/Workshops/Seminars/Webinars: 10**

INTERNATIONAL LEVEL				
Sr. No.	Conference topic	Title of the paper	Place	Year
1	Herbal and Synthetic drug studies.	Measurement study of liquid mixtures of ester with alkanols at various temperature.	M. C. E. Society's Abeda Inamdar Senior College of ASC, Pune.	7-9 Jan 2016
2	Pure and Applied Sciences	H <sub>2</sub> S gas sensor using Nano Tungsten Oxide.	M. G. V's MSG College, Malegaon camp (Nashik).	12-14 Dec 2016.
3	Advances in functional materials	Gas Sensing Properties of Screen Printed WO <sub>3</sub> Thick Films.	Maratha Vidya Prasarak Samaj's, KTHM College, Nashik.	12-13 January 2018

4	Innovations in Nanomaterials and their applications	Effect of firing temperature on nature of screen printed WO <sub>3</sub> thick films.	M. G. V's LVH College, Panchavati, Nashik-03.	18-20 January 2018
5	Current Research in Chemistry and Nanosciences (CRCNS-2022)	Study of structural, morphological and optical properties of screen-printed thick films of titanium oxide with tin oxide composition.	M. G. V's LVH College, Panchavati, Nashik- 03.	18-20 January 2022.

### NATIONAL LEVEL

6	Emerging Trends in Chemistry and Nanoscience	Sensitivity enhancement of a SnO <sub>2</sub> doped tungsten oxide LPG sensor.	M. G. V's LVH College, Panchavati, Nashik-03.	20-21 January 2017
7	Innovative Research Techniques in Chemical and Physical Sciences.	Density and viscosity study of sucrose & maltose in aqueous KBR at 308.15 K and 313.15 K.	Rayat Shikshan Sanstha's SSGM College, Kopargaon, A'nager.	7-8 August 2015
8	Recent Trends in Advance Communication	Investigation on the performance of zero pollution and high efficiency of otto engine.	M. G. V's LVH College, Panchavati, Nashik-03.	12-13 January 2015
9	Women Empowerment	Research article: Gender equality and women empowerment.	M. G. V's SPH College, Malegaon camp (Nashik).	23-24 Oct 2013
10	Modern Techniques in chemical Analysis	Research paper: Excess internal pressure and excess enthalpies of some binary liquid mixtures of Ethyl Acetate with alcohols.	Arts and Science College, Dondaicha, Dist. Dhule.	6-7 Feb 2013

### STATE LEVEL

1	Advanced materials and innovative processing ideas	H <sub>2</sub> S gas sensitivity enhancement of ZnO doped tungsten oxide sensor.	Sahyadri Shikshan Mandal's Dindori, ASC College, Karanjali, Peth (Nashik).	27-28 January 2017.
2	Innovative nano materials have better future in emerging basic sciences	H <sub>2</sub> S gas sensor by WO <sub>3</sub> and ZnO as additive thick film.	Sahyadri Shikshan Mandal's Dindori, ASC College, Karanjali, Peth (Nashik).	20-21 January 2020.

### SYLLABUS REFRAMING WORKSHOP

1	Co-coordinator of one day workshop on the T. Y. B. Sc. Physics syllabus revision on 28 <sup>th</sup> Jan 2015 at L. V. H. College.
2	Participated in one day workshop on revision of syllabus for S. Y. B. Sc. Physics on 18 <sup>th</sup> Jan 2020 at K. T. H. M. College, Nashik.

