



Personal Profile

- 1) Name** - **DR. ARUN VITTHAL PATIL**
- 2) Address** - 303, Harshraj Appt., Behind Millennium
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- 3) Contact** - aruptl@gmail.com , patilav_777@yahoo.co.in
+919604828463
- 4) Date of Birth** - 28/02/1966
- 5) Gender** - Male
- 6) Designation** - Principal & Professor in **Physics-Electronics**
- 7) Date of Appointment** - 7/10/1988
- 8) Name of the Present Collage** - M.G. Vidyamandir's, A.S.C. College, Surgana Dist.
Nashik
- 9) Educational Qualification** - M.Sc. Physics (Electronics), Ph.D.

Sr.No.	Year	Degree	University	Class Obtained	Percentage
01.	1985	B.Sc.	Pune	I st	76.40%
02.	1987	M.Sc	Pune	I st	68.00%
03.	2010	Ph.D	Pune	Declared on 19/11/2010	-

- 10) Total teaching Experience** - UG-: 35 Years, PG-: 15 Years
Approved as PG recognized teacher w.e.f.
01/01/2007 by Pune University, Pune
- 11) Title of Ph.D work** - Study of Electrical, Structural and gas sensing
characteristics of ZnO thick solid films with
different dopants
- 12) Study Leave (FIP)** - Teacher Fellowship by UGC for Ph.D. from 14th
August 2008 to 13th Aug. 2010

- 13) University Bodies**
- 1. Working as BOS Physics Member, SPPU, Pune
 - 2. Worked as BOS Electronic Sci. Member, SPPU, Pune for 2018-2022
 - 3. Working as BOS Physics, TCSC College Kandivalli, Mumbai (Autonomous College)
 - 4. Working as BOS Physics, Sathe College, Vile Parle(E) Mumbai (Autonomous College)
 - 5. Working as Panel Member for Physics-Electronics, Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli
- 14) Research grant**
- Rs.1, 00,000/- for the years 2006 – 2008 by BCUD, Pune University, Pune (Maharashtra), India
 - Rs 12,51,800/- for three years 2012-2015 by UGC, New Delhi, India
- 15) Research Guidance**
- **04 Ph.D. declared, 08 Pursing**
 - 1. Recognized by University of Pune for guiding and teaching M.Phil (by Research) in the **Electronic Science** w.e.f.11/11/2013
 - 2. Recognized by University of Pune for guiding Ph.D. in of **Electronic Science** w.e.f.20/02/2015
 - 3. Recognized by University of Pune for guiding Ph.D.in **Physics** w.e.f.20/02/2015
 - 4. Recognized by North Maharashtra University Jalgaon for guiding Ph.D.in **Electronics** w.e.f.11/06/2014

16) Research Publications – 112

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✓ **2023:**

- P.112 Onkar M. Pardeshi¹, Anil B. Gite², Gotan H. Jain³, Balasaheb M. Palve⁴, and **Arun V. Patil**, Sol gel auto-combustion synthesis of bismuth vanadate (BiVO₄) nanoparticles and its supercapacitor applications J Mater Sci: Mater Electron (2023) 34:1817
<https://doi.org/10.1007/s10854-023-11229-5> ISSN No.-1573-482X
- P.111 Archana H. Bendale, Chandrakant. G. Dighavkar, Umesh. J. Tupe, **Arun V. Patil**, A Review on: Biological Synthesis Techniques of Zinc Oxide Nanomaterials Using Different Plant Extracts and Their Biomedical Applications Journal of Xi'an University of Architecture & Technology Volume XV, Issue 9, 2023 ISSN No : 1006-7930
- P.110 Sajid Naeem, U P Shinde, and **A V Patil**, Cobalt hydroxide-based electrodes for supercapacitors: Synthesis, characterization, and electrochemical performance optimization Energy Storage. 2023;e516. John Wiley & Sons Ltd. <https://doi.org/10.1002/est2.516>
- P.109 Sajid Naeem, A V shaikh, U P Shinde, and **A V Patil**, Electrochemical Deposition, Synthesis, and Characterization of Dopant- Free Cobalt Hydroxide as an Enhanced Electrode Material for Supercapacitors, ES Energy & Environment, 2023,21,915
<https://dx.doi.org/10.30919/esee915> ISSN-2578-0654
- P.108 Sajid Naeem, Abid Ali, Khalid Memon, Mohammed Bavluwala, UP Shinde, **AV Patil**, A

- review of flexible high-performance supercapacitors for the internet of things (IoT) and artificial intelligence (ai) applications, Energy Thermofluids Eng. 3: 1-9 (2023)
- P.107 Sajid Naeem , **Arun V. Patil**, Arif V. Shaikh, U. P. Shinde, Dilawar Husain , Md Tanwir Alam, Manish Sharma , Kirti Tewari, Shameem Ahmad, Aqueel Ahmed Shah, Syed Abbas Ali , and Akbar Ahmad , A Review of Cobalt-Based Metal Hydroxide Electrode for Applications in Supercapacitors, Hindawi Advances in Materials Science and Engineering Volume 2023, Article ID 1133559, 15 pages <https://doi.org/10.1155/2023/1133559>
- P.106.Dharma K. Halwar, Vikas V. Deshmane, **Arun V. Patil**, The Combination of Nickel Oxide (NiO) and Molybdenum Trioxide (MoO₃) for Pollutant Gas Detection, Journal of Electronic Materials volume 52, pages1840–1853 (2023) <https://doi.org/10.1007/s11664-022-10130-x>

✓ 2022:

- P.105.**Yogesh R. Bhamare , Chandrakant G.Dighavkar , **Arun V.Patil**, ANALYSIS OF MILK PARAMETERS USING ELECTRONIC SENSORS, Journal of the Maharaja Sayajirao University of Baroda (ISSN :0025-0422) Volume-56, No.1 (VIII) 2022 Pp.73-78
- P.104.**Sonali Laxman Wagh, Umesh Jagannath Tupe , Anil Bhimrao Patil , **Arun Vitthal Patil** Influence of Annealing Temperature on Structural and Electrical Properties of Screen Printed Lanthanum Oxide Thick Films, Iranian Journal of Materials Science and Engineering, Vol. 19, Number 4, December 2022, Pp.1-9 [DOI: 10.22068/ijmse.2716](https://doi.org/10.22068/ijmse.2716)
- P.103.**Satish Arvind Ahire , Ashwini Ashok Bachhav , Thansing Bhavsing Pawar , Bapu Sonu Jagdale, **Arun Vitthal Patil** , Prashant Bhimrao Koli, The Augmentation of nanotechnology era: A concise review on fundamental concepts of nanotechnology and applications in material science and technology, Results in Chemistry 4 (2022) 100633, <https://doi.org/10.1016/j.rechem.2022.100633> ,Elesveir Publication
- P.102.**Anil B. Patil, Umesh J. Tupe, Dharma K. Halwar, Vikas V. Deshmane, **Arun V. Patil**, Investigation of structural and optical properties of graphene derivatives as a route for optical sensing, <https://doi.org/10.1016/j.matpr.2022.09.549>, Materials Today: Proceedings, Elsevier Publication.
- P.101.** Somnath A. Wankhede , Vijay S. Kale , A.D. Shaligram , **Arun Patil** , Dharma K Halwar, IoT based dielectric constant measurement system for solid or semi-liquid materials using Arduino WeMos D1R1, <https://doi.org/10.1016/j.matpr.2022.10.022>, Materials Today: Proceedings, Elsevier Publication
- P.100.**Dharma K. Halwar, Vikas V. Deshmane, **Arun V. Patil**, Al Modified Orthorhombic Molybdenum Trioxide as NO₂ Gas Sensor, International Journal of Nanoscience Vol. 21, No. 2 (2022) 2250011pp 1-11, [DOI: 10.1142/S0219581X22500119](https://doi.org/10.1142/S0219581X22500119) ISSN- 1793-5350
- P.99.**Vikas V. Deshmane, Sarika Shinde, Dharma K. Halwar, Gotan Jain, **Arun V. Patil**, Tin Modified Fe₂O₃ Thick Films for Monitoring Environmental and Industrial Pollutant Gases, Chemistry Africa <https://doi.org/10.1007/s42250-022-00398-1>, The Tunisian Chemical Society and Springer Nature Switzerland AG 2022, ISSN- 2522-5758 (Impact Factor-2.2),Published on 30th June 2022.
- P.98.**S.J. Patil, **A.V. Patil**, K.S. Thakare, A.B. Patil and R. R. Ahire, Preparation and Characterization of WO₃ Thick Film Resistors using Screen Printing Technique, Asian

- Journal of Organic & Medicinal Chemistry Vol. 7 No. 2 (April-June, CRNSS 2022),pp. 249-257, ISSN Online: 2456-8937 UGC CARE APPROVED JOURNAL.
- P.97.** Anil B. Patil, Umesh. J. Tupe, Vikas V. Deshmane, Dharma K. Halwar, Sunil J. Patil and **Arun V. Patil**, Potentiometric Study and Statistical Analysis of Human Urine Samples using Reduced Graphene Oxide Screen Printed Electrodes, Asian Journal of Organic & Medicinal Chemistry Vol. 7 No. 2 (April-June, CRNSS 2022), pp. 243-248, ISSN Online: 2456-8937 UGC CARE APPROVED JOURNAL.
- P.96.** Somnath Wankhede, Vijay Kale, Arvind Shaligram, **Arun Patil** and Dharma K Halwar, IoT Based Low-Cost Capacitance Measurement System using Arduino WeMos D1R1, Asian Journal of Organic & Medicinal Chemistry Vol. 7 No. 2 (April-June, CRNSS 2022), pp. 92-99, ISSN Online: 2456-8937 UGC CARE APPROVED JOURNAL.
- P.95.** Ejaz Nazir Shaikh, Umesh. J. Tupe, **Arun V. Patil**, Chandrakant. G. Dighavkar, Review on: Synthesis of Perovskite using Sol-Gel approach, International Journal of Creative Research Thoughts (IJCRT) Volume 10, Issue 2 February 2022 pp. 289-301 ISSN: 2320-2882
- P.94.** Umesh J. Tupe, M. S. Zambare, **A. V. Patil**, C.G. Dighavkar, Amol S. Patil, Synthesis And Characterizations Of Cuo-Zno Nano Composite Binary Oxide Thick Films As H₂s Gas Sensor, International Journal of Creative Research Thoughts (IJCRT) Volume 10, Issue 2 February 2022 PP. 159-173 ISSN: 2320-2882
- P.93.** Amol S. Patil , **Arun V. Patil** , Chandrakant G. Dighavkar , Vishnu A. Adole , Umesh J. Tupe, Synthesis techniques and applications of rare earth metal oxides semiconductors: A review, Chemical Physics Letters 796 (2022) 139555, <https://doi.org/10.1016/j.cplett.2022.139555> ISSN: 0009-2614 I.F. 2.328 Elsevier Publication
- P.92.** Archana A. Chaudhari, Umesh. J. Tupe, **Arun V. Patil**, Chandrakant. G. Dighavkar, Study of Electrical, Structural and Gas Sensing Properties of ZnO Nanoparticles Synthesized By Green Synthesis Method, IJSDR March 2022 | Volume 7 Issue 3 PP. 15-24
- P.91.** Satish Arvind Ahire , Ashwini Ashok Bachhav , Thansing Bhavsing Pawar , **Arun Vitthal Patil** , Swapnil Sampatrao Shendge And Prashant Bhimrao Koli, Green Synthesis of Ceria Nanoparticles Using Azadirachta Indica Plant Extract: Characterization, Gas Sensing and Antibacterial Studies, Mat. Sci. Res. India, Vol. 18(3), pg. 285-297 (2021) ISSN: 0973-3469
- P.90.** Rohit Shankar Shinde, Subhash Dharmaraj Khairnar, Manohar Rajendra Patil, Vishnu Ashok Adole, Prashant Bhimrao Koli ,Vikas Vasant Deshmane, Dharma Kisan Halwar, Rahul Ashok Shinde, Thansing Bhavsing Pawar, Babu Sonu Jagdale, **Arun Vitthal Patil**, Synthesis and Characterization of ZnO/CuO Nanocomposites as an Effective Photocatalyst and Gas Sensor for Environmental Remediation, Journal of Inorganic and Organometallic Polymers and Materials <https://doi.org/10.1007/s10904-021-02178-9>, Springer Publisher,ISSN-1574-1451(IF-3.543)

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- P.89.** Satish Arvind Ahire , Prashant Bhimrao Koli, **Arun Vitthal Patil** , Babu Sonu Jagdale , Ashwini Ashok Bachhav, Thansing Bhavsing Pawar, Designing of screen-printed stannous oxide (SnO₂) thick film sensors modified by cobalt and nitrogen elements for sensing some

- toxic gases and volatile organic compounds, *Current Research in Green and Sustainable Chemistry* 4 (2021) 10021pp 1-12 ISSN: 2666-0865
- P.88.** Anil B. Patil, Umesh. J. Tupe, **Arun V. Patil**, Reduced Graphene Oxide Screen Printed Thick Film as NO₂ Gas Sensor at Low Temperature, *Advanced Materials Research*, Vol. 1167, pp 43-55, 2021 ISSN: 1662-8985
- P.87.** Vishnu Ashok Adole, Rahul Ashokrao More, Rahul Ashok Shinde, Sunil Laxman Dhonnar, Babu Sonu Jagdale, Sachin Girdhar Shinde, **Arun Vitthal Patil**, Thansing Bhavsing Pawar, Spectroscopic (FTIR and UV), quantum Chemical, antifungal and antioxidant investigations of (E)-7-(4-(trifluoromethyl)benzylidene)-1,2,6,7-tetrahydro-8H-indeno[5,4-b]furan-8-one: A combined experimental and theoretical study, *Vietnam J. Chem.*, 2021, 59(5), 689-700 DOI: 10.1002/vjch.202100034
- P.86.** Vinayak Ramdas Bagul, Ganesh Ramdas Bhagure, Satish Arvind Ahire, **Arun Vitthal Patil**, Vishnu Ashok Adole, Prashant Bhimrao Koli, Fabrication, characterization and exploration of cobalt (II) ion doped, modified zinc oxide thick film sensor for gas sensing characteristics of some pernicious gases, *Journal of the Indian Chemical Society* 98 (2021) 100187, PP- 1-10, Elsevier publication.
- P.85.** Vishnu A. Adole, Rahul A. More, Babu S. Jagdale, Thansing B. Pawar, Santosh S. Chobe, Rahul A. Shinde, Sunil L. Dhonnar, Prashant B. Patil, **Arun V. Patil**, Abhijit R. Bukane, Rajesh N. Gacche, Microwave promoted solvent free synthesis of new series of heterocyclic tagged 7-arylidene indanone hybrids and their computational, antifungal, antioxidant and cytotoxicity study, *Bioorganic Chemistry*, Vol.115, October 2021,105259, PP. 1-13, Elsevier publication (Impact factor = 5.275).
- P.84.** Ejaz Nazir Shaikh, **Arun V. Patil**, Umesh. J. Tupe, Chandrakant. G. Dighavkar, A Review on: Renewable Energy Sources and Generation of Photovoltaic Solar Technology, *International Journal of Scientific Development and Research (IJS DR)* April 2021 IJS DR | Volume 6, Issue 4 (ISSN: 2455-2631)
- P.83.** Umesh Jagannath Tupe, Madhukar Sarvottam Zambare, **Arun Vitthal Patil** and Prashant Bhimrao Koli, Stannous Oxide Thick Film Nanosensors Design by Screen Printing Technology: Structural, Electrical Parameters and H₂S Gas Detection Study, *Material Science Research India* Vol.18, No.(1) 2021, Pg. 1- 9 ISSN: 0973-3469
- P.82.** Shelar Rajendra, **Patil Arun** and Nirwan Ramesh FTIR Spectra, HF and DFT Analysis of o-Chlorophenol and Diphenyl Ether, *Res. J. Chem. Environ.* Vol. 25 (2) February (2021) p.168-173

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- P.81.** Anil B. Patil, Umesh. J. Tupe, Vikas V. Deshmane, and Arun V. Patil, Potentiometric Taste Sensing Using Reduced Graphene Oxide Screen Printed Electrodes, *Sensor Lett.* 18 (12), 881–888 (2020). DOI: <https://doi.org/10.1166/sl.2020.4302>
- P.80.** Umesh Jagannath Tupe, Madhukar Sarvottam Zambare, **Arun Vitthal Patil** and Prashant Bhimrao Koli, The Binary Oxide NiO-CuO Nanocomposite Based Thick Film Sensor for the Acute Detection of Hydrogen Sulphide Gas Vapours, *Material Science Research India* Vol.17, No.(3) 2020, Pg. 260-269 ISSN: 0973-3469
- P.79.** Nimba B. Kothawade, Vikas V. Deshmane, **Arun V. Patil** MoO₃: In₂O₃ binary oxide thin films as CO gas sensor, *Int.J. Microstructure and Materials Properties*, Vol.15, No.2

(2020) Pp. 229-241 DOI: [10.1504/IJMMP.2020.110525](https://doi.org/10.1504/IJMMP.2020.110525) (ISSN 1741-8429, Impact fac. 0.7)

P.78. Vikas V. Deshmane **Arun V. Patil**, Effects of Additives on Structural and Magnetic Properties of Iron Oxide, International Journal of Nanoscience. 19, No. 4 (2020) 1950025 (1-12) DOI: [10.1142/S0219581X1950025X](https://doi.org/10.1142/S0219581X1950025X), ISSN -1793-5350 Impact factor -0.11)

P.77. Vikas V. Deshmane **Arun V. Patil**, Cobalt oxide doped hematite as a petrol vapor sensor, Materials Chemistry and Physics 246 (2020) 122813 Pp.1-10 ISSN-0254-0584 (Impact Factor- 3.408) <https://doi.org/10.1016/j.matchemphys.2020.122813>

✓ 2019:

P.76 Sunil L. Chaudhari , Vivek A. Rane , Umesh Tupe , G. J. Phatak , **Arun Patil**, NiCoZn Ferrite Sintered With BBSZ Glass For LTCC Based Inductive Devices, JETIR February 2019, Volume 6, Issue 2pp.169-174

P.75 Sonali L. Wagh,, **Arun V. Patil**, Metal Oxide Semiconductor based gas sensors and monitoring of various gas detection systems using LabVIEW: A Review, JETIR January 2019, Volume 6, Issue 1 PP. 1087-1092 (ISSN-2349- 5162)

P.74 Sonali L. Wagh,, Umesh. J. Tupe, , **Arun V. Patil**,,Review on: Synthesis Approaches and Applications of Lanthanum Oxide Nanoparticles JETIR January 2019, Volume 6, Issue 1 PP. 910-918 (ISSN-2349- 5162)

P.73. Seema V. Aware , U. P. Shinde , V. V. Aware , A. G. Mohod , **A. V. Patil** and P. U. Shahare, Sensors and Controller for Efficient Utilization of Agricultural Sprayers a Review, International Journal Of Tropical Agriculture Volume 37 Number 2 2019 pp. 255-263 (ISSN : 0254-8755)

P.72. Dharma K Halwar, Vikas V Deshmane and **Arun V Patil**, Orthorhombic molybdenum trioxide micro-planks as carbon monoxide gas sensor, Mater. Res. Express 6 (2019) 105913 <https://doi.org/10.1088/2053-1591/ab403e>, April 2019 pp-1-12(ISSN-2053-1591 Imp.Fac.-1.449)

P.71. **A. V. Patil**, U. J. Tupe, A. B. Patil, V. S. Raut, T. C. Thete, S. A. Nale, U. P. Shinde, Impact of the Evolution of Smart Phones in Education Technology and its Applications in Learning Electronic Circuits, Ajanta, Vol-VIII, Issue-1, pp. 11-19, Jan-Mar-2019

P.70. A. B. Patil, V. S. Raut, S.A. Nale, T. C. Thete, U. J. Tupe, U. P. Shinde, **A. V. Patil**, Virtual Laboratory- An Innovative Teaching and Learning Method, Ajanta, Vol-VIII, Issue-1,pp-20-27, Jan-Mar-2019

P.69. **A. V. Patil**, U. P. Shinde, U. J. Tupe, A. B. Patil, V. S. Raut, T. C. Thete, S.A. Nale, RF Controlled Arduino Based Mine Detector and Position Spying Robot, Ajanta, Vol-VIII, Issue-1, pp-77-85, Jan-Mar-2019

P.68. Manisha K. Borse, **Arun V. Patil**, Basics of Biometry Feature Finger Print and its Matching Algorithm, Ajanta, Vol-VIII, Issue-1, pp-73-80, Jan-Mar-2019

P67. U. P. Shinde, A. A. Nikam, R. S. Gosavi, A. B. Patil, **A. V. Patil**, SWAYAM- A Digital Platform for Distance Learning in Higher Education, Ajanta, Vol-VIII, Issue-1,pp-137-139, Jan-Mar-2019 ISSN 2277-5730

P.66. Vikas V. Deshmane, **Arun V. Patil**, “Synergy of semiconductor (Hematite) & catalytic (Ni) properties enhance gas sensing behavior to NO₂”, Mater. Res. Express 6 (2019) 075910

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- P.65. Arun Patil**, Rakesh Deore, Smita Nikam, Jitendra Borse, “Study of Tin and Cobalt Oxide Thin Film Prepared by Electrochemical Deposition by Two Electrode Configuration System”, GRD Journal-Global Research and Development Journal of Engineering, Vol. 4, Issue. 5, April 2019, pp.15-18. ISSN-2455-5703, <https://doi.org/10.6084/m9.figshare.8015759.v1>.
- P.64.** K.S.Sonawane, N.A.Davkhar, J.A.Borse J.M.Shewale, **A.V.Patil**, C.G.Dighavkar, Physical Properties of Zinc Sulphide (ZnS) thin film by Electrochemical Deposition, JETIR April 2019, Volume 6, Issue 4
- P.63.** D.K.Halwar, N.B.Kothavade, V.V.Deshmane, **A.V.Patil**, Study of Cu₀-ZnO Screen Printed Thick Films as LPG Sensor at Room Temperature, Ajanta, Volume – VIII, Issue-I_January –March 2019 pp. 133-141 ISSN 2277-5730
- P.62.** Rahul Dheerendra Singh, Prashant Bhimrao Koli, Bapu Sonu Jagdale, **Arun Vitthal Patil**, Effect of firing temperature on structural and electrical parameters of synthesized CeO₂ thick films, SN Applied Sciences (2019) Vol.1 Iss.4 1:315 ISSN-2523-3963
<https://doi.org/10.1007/s42452-019-0246-5>
- P.61.** Ejaz Nazir Shaikh, 2 Umesh. J. Tupe, 3 Arun V. Patil, 4 Chandrakant. G. Dighavkar, Review on: Perovskite recent progress and synthesis, characteristic, Applications, 9 IJRAR January 2019, Volume 6, Issue 1(E-ISSN 2348-1269, P- ISSN 2349-5138)
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- P.60.** Onkar Pardeshi , **Arun V. Patil**, Green synthesis of cobalt oxide nanoparticles using Polyalthia longifolia leaves extract, JETIR January 2018, Volume 5, Issue 1, <https://doi.org/10.1729/Journal.26601>
- P.59.** A.S. Mandawade, A.A. More, J.A.Borse, **A.V.Patil**, Synthesis And Structural Characterization of Cadmium Sulphide (CdS) Thin Film by Electrochemical Deposition Of Two Electrode System, JETIR <https://doi.org/10.1729/Journal.19281>, December 2018, Volume 5, Issue 12 (ISSN-2349- 5162) (Impact Factor – 5.87)
- P.58** V. V. Deshmane, **A. V. Patil**, Study of In₂O₃ and α -Fe₂O₃ nano-composite as a petrol Vapor Sensor, Mater. Res. Express 6 (2019) 025904 <https://doi.org/10.1088/2053-1591/aaed90>, November 2018 pp-1-11(ISSN-2053-1591 Imp.Fac.-1.449)
- P.57** Anil B. Patil, Umesh. J. Tupe, **Arun V. Patil**, A Review on Graphene & its Derivatives for Gas Sensors, JETIR <https://doi.org/10.1729/Journal.25942>, November 2018, Volume 5, Issue 1((ISSN-2349- 5162)
- P.56** V. V. Deshmane, **A. V. Patil**, Study of Relation Between Particle Size And Magnetic Saturation of Synthesized Undoped Iron Oxide, IJCPS Vol. 7, No. 2 , Mar-Apr 2018 pp 8-12(ISSN-2319-6602)

- P.55 A.V. Patil**, N.B. Kothawade, Low Temperature Sensing of TiO₂ Thin Films As Ethanol Sensor, IJCPS Vol. 7, Special Issue 12 ICAFM (Part-II) – March 2018 pp 558-562(ISSN-2319-6602)
- P.54 A.V. Patil**, D. K. Halwar, Study of Structural and Electrical Characteristics of Screen Printed MoO₃ Thick Films, IJCPS Vol. 7, Special Issue 12 ICAFM (Part-II) – March 2018 pp 506-511(ISSN-2319-6602)
- P.53 V. V. Deshmane, A. V. Patil**, Structural and Electrical Properties of Synthesized Undoped Iron Oxide Films, IJCPS Vol. 7, Special Issue 12 ICAFM (Part-II) - March 2018 pp 425-430(ISSN-2319-6602)
- P.52 K. B. Bhamare, R.Y. Borse, A. V. Patil, C. G. Dighavkar, T. R. Mahale**, NO₂ Gas Sensing Properties of Screen Printed WO₃ Thick Films, IJCPS Vol. 7, Special Issue 12 ICAFM (Part-II) - March 2018 pp 375-381(ISSN-2319-6602)
- P.51 Sajid Naeem, A V Patil & Arif V Shaikh**, A Matlab Framework Simulation: Real Time Monitoring and Analysis for Chemical Sensor Films of Lanthanum Oxide (La₂O₃) And Cerium Oxide (CeO₂), Researcher World, Vol. – IX, Special Issue, January 2018 pp. 79-82 (ISSN – 2231-4172)
- P.50 Umesh J. Tupe, M. S. Zambare, A. V. Patil & P. B. Koli**, Sensing behavior of Screen printed nanocrystalline copper oxide thick films in presence of H₂S atmosphere, Researcher World, Vol. – IX, Special Issue, January 2018 pp. 53-57 (ISSN – 2231-4172)
- P.49 S. J. Patil, A. V. Patil, K. S. Thakare & R. R. Ahire**, Preparation and Characterization of Titania Thick Film Resistors, Researcher World, Vol. – IX, Special Issue, January 2018 pp.47-52 (ISSN – 2231-4172)
- P.48 A.V. Patil & N.B. Kothawade**, Study of structural and electrical characteristics of Screen printed TiO₂ thin films prepared by Spray Pyrolysis, Researcher World, Vol. – IX, Special Issue, January 2018 pp. 25-28 (ISSN – 2231-4172)
- P.47 V. V. Deshmane & A.V. Patil**, Study of Morphological and Gas Sensing Properties of Synthesized Un-doped Iron Oxide Films, Researcher World, Vol. – IX, Special Issue, January 2018 pp. 20-24 (ISSN – 2231-4172)
- P.46 A.V. Patil & D.K. Halwar**. Study of Screen Printed MoO₃ thick films as NH₃ sensor, Researcher World, Vol. – IX, Special Issue, January 2018 pp. 16-19 (ISSN – 2231-4172)
- P.45 C. G. Dighavkar, M.G. Thakare, A.V. Patil & J.S. Aher**, Mechanochemical synthesis, characterization and photocatalytical degradation of Methyl orange by nano-ZnO Researcher World, Vol. – IX, Special Issue, January 2018 pp. 10-15 (ISSN – 2231-4172)
- P.44 B.P. Bhangale, P. A. Patil & Dr. A. V. Patil**, Design Considerations In All Types Of

Solar Pv Applications, Researcher World, Vol. – IX, Special Issue, January 2018 pp. 05-09 (ISSN – 2231-4172)

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✓ **2016:**

P.42 **A.V. Patil**, Mood recognition system using EEG signals, Researcher World, Vol.6, Issue 4(4), Dec..2016 pp. 163-167 (ISSN – 2231-4172)

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- P.32** Chandrakant Dighavkar, **Arun Patil**, Rajendra Shelar, Synthesis and Characterization of the nanocrystalline Zinc Oxide thick films by chemical bath deposition, International Journal of Multidisciplinary Research, Vol.II, Issue 3(IV), June 2013pp.-85-89 (ISSN:2277-9302)
- P.31** R.N.Shelar, **A.V.Patil**, C.G. Dighavkar, S.K. Sonawane, Fe₂O₃ Doped ZnO Thick films as NH₃ Gas Sensors, International Journal of Multidisciplinary Research, Vol.II, Issue 3(IV), June 2013pp.80-84(ISSN:2277-9302)
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- P.11 A.V. Patil**, C.G. Dighavkar, S.K. Sonawane, S. J. Patil and R.Y. Borse, Influence of Nb₂O₅ doping on ZnO thick film gas sensors, Journal of Optoelectronics and Advanced Materials, Vol. 12, ISS. 6, 2010, pp. 1255-1261(ISSN: ON-LINE: 1841-7132, Impact Factor- 0.412).
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Paper presented in International Conferences/ Symposiums:

- 1) Formulation and Characterization of Cu Doped ZnO Thick Films as LPG Gas Sensor, International Conference on Sensing Technology (ICST-2010), 3-5, June 2010, University of Salento, Lecce, Italy.
- 2) Influence of Al Doping on ZnO Thick Films Gas Sensors, International workshop and Symposium on the Synthesis and Characterization of Glass / Glass-ceramics (IWSSCGGC-2010), July 7-10, 2010, Pune, India.
- 3) Effect of Cr₂O₃ by doping and dipping on gas sensing characteristics of ZnO thick Films, International Interdisciplinary Science Conference 2010 on Nanobiotechnology: An Interface between Physics and Biology, 2-4 Dec. 2010, Jamia Millia Islamia, Delhi, India.

- 4) Effect of Cr₂O₃ as an additive on Structural and Electrical properties of screen printed ZnO thick films, International Conference on Frontiers in Materials Science for Energy and Environment (ICFMS 2012), January 11-13, 2012, LIFE, Loyola College, Chennai, India
- 5) Effect of Cr₂O₃ as an additive on Structural and Electrical properties of screen printed ZnO thick films, International Conference at First Hotel, Bangkok, Thailand on 20th & 21st June, 2013
- 6) Managing and Analysis of Acoustic Signal Model for Speaker Identification, international Conference 2014 on Multi-facets of Business Management ,9-11 Jan. 2014, MGV's Institute of Management and Research, Panchavati, Nashik-3 (M.S.), India
- 7) Ethanol paper sensing properties of Nitrogen doped ZnO fabricated by Spray pyrolysis, 7th International conference on Advanced Materials Development & Performance, July 17-20, 2014, Korea Maritime and Ocean University, Busan, South Korea
- 8) Screen Printed ZnO films as H₂S gas sensors, International Conference on Functional Materials and Microwaves (ICFMM-2015) Dec. 28-30, 2015, organized by Dept. of Physics, BAMU, Aurangabad(M.S.), India
- 9) Spray Pyrolysis-chemical synthesis of nanostructures International conference on Functional Materials@Nanoscale: Concerns and Challenges(ICFMNCC-2015, Mar.9-11, 2015, Pandharpur (M.S.), India
- 10) Detection of dominated brain regions for emotion using Song Induced activities, International conference on Emerging Trends and Issues in Research & Development (ETIRD -2016) 17 & 18 Feb. 2016, M.S.G. college, Malegaon(M.S.), India
- 11) Mood recognition system using EEG signals, International conference on Pure and Applied Sciences, 12-14 Dec. 2016, M.S.G. College, Malegaon
- 12) ZnO-CuO nanocomposites as a gas sensor, International Conference on Advances in Physical, Chemical & Mathematical Sciences (ICAPCM 2020), 13-16 February 2020, RTMN University, Nagpur

Paper presented at National Conference / Symposium:

- 1) Paper presented in National Conference "Physics & Chemistry of Materials PCM-08" at MAE, Alandi (D), Pune, January 3-4, 2008.
- 2) Paper presented in Pune University Teachers "INNOVATION-2007" held at University of Pune, November 19-20, 2007.
- 3) Participated in Pune University Teachers "INNOVATION-2008-09" held at PVP College, Pravaranagar, November 26-27, 2008.

- 4) Participated in National seminar on “Nanoscience” held on Jan. 21-23, 2010 at G.M.D. Arts, Com. & Science College, Sinnar, Dist. Nashik.
- 5) Paper presented in State level seminar “Advance Trends in sensors” at M.S.G.College, Malegaon, 27-28 Jan.2010
- 6) Paper presented in National Conference “Preparation of Nanomaterials and Their Applications” Arts, Com. and Sci. College, Nandgaon, 20-22 Feb. 2010
- 7) Paper presented in State level seminar at S. G. Patil A. S. C. College, Sakri, Dist.Dhule, March 8-9, 2010.
- 8) Participated in State level seminar at SPH Mahila Mahavidyalaya, Malegaon Camp on 24-25 January 2011.
- 9) Paper Presented in National Workshop on “Recent Trends in Mathematics” at L.V.H.College, Panchavati, Nasik-3 on 27-29 January 2011
- 10) Participated in National Seminar on “ Higgs boson – The God Particle” at Abeda Inamdar College, Pune on 01st September 2012
- 11) Paper presented in National Conference on “Indian Development in Recent and Ideal Semiconductor for Novel Applications” at A.S.C. College, Navapur on 06-07 Oct.2012
- 12) Presented paper in State level Conference on Recent Trends in Nanotechnology at L.V.H. College, Panchavati, Nashik-3 on 28 and 29 Dec.2012
- 13) Participated in One day University level workshop on E-learning:Resources, applications and Effectiveness organized by K.K.W. A.S.C. College, Pimpalgaon on 28th Mar. 2013
- 14) Paper presented in National Conference in K.T. H. M. College, Nashik, on Dec 21-23,2013.
- 15) Participated in State level seminar on Recent Trends in Advance Communication at Satana College, Satana Dist. Nashik on 5-6 Feb. 2014
- 16) Paper presented in 103rd Indian Science Congress held at University of Mysore 3-7 Jan.2016
- 17) Worked as a resource person for one day seminar on “**Recent Trends in Electronics**” at A.S.C. College, Surgana Dist. Nasik (Maharashtra), India
- 18) Worked as **Convener of State level Conference** on Recent Trends in Nanotechnology at L.V.H. College, Panchavati, Nashik-3 on 28and 29 Dec.2012
- 19) Worked as **Co-Ordinator** for Two Days Workshop on **Computerized Financial Accounting** on 11-12 Oct. 2013, PCMCS College, Panchavati, Nashik-3

- 20) Worked as Nashik district **Coordinator for FDP in commerce** from 12-18 May 2014
- 21) Worked as **Coordinator of International Conference** on Innovations in nanomaterials and their applications organized by L. V. H. College, Panchavati, Nashik-3 on 18,19 and 20 Jan.2018
- 22) Worked as a resource person for two day conference on **“Synthesis, Characterization and Application of nanomaterials”** at K.V.N.Naik College, Nasik (Maharashtra), India on 09th and 10th Feb. 2018
- 23) Worked as a resource person for Refresher Course on **“Teaching, Learning and Evaluation”** at L. V. H. College, Panchavati, Nasik (Maharashtra), India on 29th October 2018
- 24) Worked as a resource person for two-day State Level Conference on **“Synthesis, Characterization and Application of nanomaterials”** at L. V. H. College, Panchavati, Nasik (Maharashtra), India on 31st January. 2019
- 25) Worked as a resource person for One Month Ph.D. course work on **“Research Methodology”** at KTHM College, Nasik (Maharashtra), India on 11th April 2019.
- 26) Worked as a resource person for 20 days Ph.D. course work on **“Research Methodology”** at LVH College, Nashik (Maharashtra), India
- 27) Worked as a resource person for two-day National Level Conference on **“Synthesis, Characterization of promising Nano-materials for energy and environmental application”** at KVN Naik A.S.C. College, Nasik (Maharashtra), India on 15th February 2020

Book

- 1) **Arun Patil**, ZnO thick films Gas Sensor, Lambert Academic Publishing GmbH & Co.KG Dudweiler Landstraße 99 D - 66123 Saarbrücken, Germany (ISBN – 978-3-8454-1056-2)
- 2) **Dr. A.V.Patil & others**, A text book of Physics, T.Y.B.Sc. paper IV- Electronics II, Vrinda Publications Bhimsing Market, Station Road, Jalgaon (ISBN – 81-7815-025-5)
- 3) **Dr. A.V.Patil & others**, Physics for CSIR-NET/SET, Vaishali Prakashan, Pune, (2019), (ISBN-978-81-934781-8-9).

Communication Electronics	INSC International Publisher, Chikkamagaluru, Karnataka	Dr. A. V. Patil
Electronic Devices & Circuits	Dream Book Publishing, Pune	Dr. A. V. Patil
Semiconductor Devices and Basic Electronic Systems	INSC International Publisher, Chikkamagaluru, Karnataka	Dr. A. V. Patil

Award

- **Best Paper Award for Paper** “Ethanol paper sensing properties of Nitrogen doped ZnO fabricated by Spray pyrolysis” Presented at International Conference AMDP 2014, Busan, Korea
- **Best Teacher Award 2020** by Mahavir International, Nashik

Member of Editorial Board

- 1) Appointed as a Member of Editorial Board for **International journal of Electronics Communication and Computer Engineering (ISSN:2249-071x)**
- 2) Appointed as a Member of Editorial Board for **International journal- E3 Journal of Energy Oil and Gas Research**
- 3) Appointed as a Member of Editorial Board for **Research Journal – Knowledge Insight (ISSN 2277– 4890)**
- 4) Appointed as guest editor for **Research Journal of Chemistry and Environment Vol. 16(4) December 2012(Print ISSN No. 0972-0626; E-ISSN No. 2278-4527, Impact Factor -0.379)**
- 5) Appointed as guest editor for **Researcher World, Vol. – IX, Special Issue, January 2018 (ISSN – 2231-4172)**

Review work:

- 1) Worked as a reviewer for the International Journal - **Sensors Letters, Patras, Greece.**
- 2) Worked as a reviewer for the International Journal – **Material Research, Brazil**
- 3) Worked as a reviewer for the International Journal – **IEEE Sensors Journal**
- 4) Worked as a reviewer for the International Journal – **Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry, University of Missouri-Columbia, MO 65212, USA, Elsevier Publications**
- 5) Worked as a reviewer for the International Journal –**Materials Chemistry and Physics, Elsevier Publications**
- 6) Worked as a reviewer for the International Journal – **E3 Journal of Energy oil and gas research**
- 7) Worked as a Judge for National Project Competition at **K.K.W. Polytechnique, Nasik, Maharashtra, India**
- 8) Worked as a Examiner for Nasik district School Science Exhibition **under Prime Minister’s Inspire Award Scheme 2011 organized by Z.P. Nasik, (M.S.), India**

I, **DR. ARUN VITTHAL PATIL**, hereby declare that the information given by me in this profile is true and correct to the best of my knowledge and belief.

A handwritten signature in black ink, appearing to read 'A.V. Patil', with a horizontal line underneath the name.

Place: Nasik
Date: 03/03/2022

Signature of the teacher
(Dr. A.V. Patil)