

Modern Education Society's  
Nowrosjee Wadia College, Pune

**List of Student Publications**

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| 1. | <b>Vijaya Jadkar</b> , Amit Pawbake, Ashok Jadhavar, Ravindra Waykar, Subhash Pandharkar, Ajinkya Bhorde, Rahul Aher, Shruthi Nair, Bharat Gabhale, Ashish Waghmare, Dhirsing Naik, Priti Vairale, Suresh Gosavi, Sandesh Jadkar                              | 2019 | Excellent Response and Recovery Time of Photo-Detectors Based on Nc-Si:H<br><br>Films Grown by Using Hot Wire Method | ES Materials and Manufacturing  |
| 2. | Priti Vairale, Vidhika Sharma, Bharat Bade, Ashish Waghmare, Pratibha Shinde, Ashvini Punde, Vidya Doiphode, Rahul Aher, Subhash Pandharkar, Shruthi Nair, <b>Vijaya Jadkar</b> , Pandit Shelke, Mohit Prasad, Sandesh Jadkar                                 | 2020 | Melanin Sensitized Nanostructured ZnO Photoanodes for Efficient Photoelectrochemical                                 | Engineered Science              |
| 3. | Ajinkya Bhorde, Shruthi Nair, Haribhau Borate, Subhash Pandharkar, Rahul Aher, Ashvini Punde, Ashish Waghmare, Pratibha Shinde, Priti Vairale, Ravindra Waykar, Vidya Doiphode, <b>Vijaya Jadkar</b> , Yogesh Hase, Sachin Rondiya                            | 2020 | Highly stable and Pb-free bismuth-based perovskites for photodetector applications                                   | New Journal of Chemistry        |
| 4. | Pratibha Shinde, Vidhika Sharma, Ashvini Punde, Ashish Waghmare, Priti Vairale, Yogesh Hase, Subhash Pandharkar, Ajinkya Bhorde, Rahul Aher, Shruthi Nair, Vidya Doiphode, <b>Vijaya Jadkar</b> , Nilesch Patil, Sachin Rondiya, Mohit Prasad, Sandesh Jadkar | 2020 | 2D alignment of zinc oxide@ZIF8 nanocrystals for photoelectrochemical water splitting                                | New Journal of Chemistry        |
| 5. | Mohit Prasad, Vidhika Sharma, Subhash Pandharkar, Pratibha Shinde, Ashvini Punde, Vidya Doiphode, Ashish Waghmare, Rahul Aher, Priti Vairale, <b>Vijaya Jadkar</b> , Yogesh Hase, Sachin Rondiya, Sandesh Jadkar  | 2020 | Carbon functionalized bismuth vanadate thin films based photoelectrochemical logic gates                             | Journal of Alloys and Compounds |

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| 6.  | Bharat Gabhale, Haribhau Borate, Subhash Pandharkar, Ajinkya Bhorde, Rahul Aher, Shruthi Nair, Priti Vairale, Ashvini Punde, Ashish Waghmare, <b>Vijaya Jadkar</b> , Vidya Doiphode, Yogesh Hase, Nilesh Patil, Sachin Rondiya, Pratibha Shinde, Mohit Prasad, Sandesh Jadkar | 2020 | Effect of Phosphine Gas Conditions on Structural, Optical and Electrical Properties of Nc-Si:H Films Deposited by Cat-CVD Method   | ES Materials and Manufacturing |
| 7.  | Priti Vairale, Vidhika Sharma, Ashish Waghmare, Pratibha Shinde, Subhash Pandharkar, Ashvini Punde, Vidya Doiphode, Yogesh Hase, Rahul Aher, Shruthi Nair, <b>Vijaya Jadkar</b> , Nilesh Patil, Sachin Rondiya, Pandit Shelke, Mohit Prasad, Sandesh Jadkar                   | 2020 | Study of Structural, Optical, Morphology and Photoelectrochemical Properties of Melanin Sensitized TiO <sub>2</sub> Thin Films Prepared by Chemical Bath Deposition Method | ES Materials and Manufacturing |
| 8.  | Haribhau Borate, Ajinkya Bhorde, Ashish Waghmare, Shruthi Nair, Subhash Pandharkar, Ashvini Punde, Pratibha Shinde, Priti Vairale, <b>Vijaya Jadkar</b> , Ravindra Waykar, Sachin Rondiya, Yogesh Hase, Rahul Aher, Nilesh Patil, Mohit Prasad, Sandesh Jadkar                | 2021 | Single-step Electrochemical Deposition of CZTS Thin Films with Enhanced Photoactivity  | ES Materials and Manufacturing |
| 9.  | Sunil Barma, Sachin Rondiya, Yogesh Jadhav, Sagar Jathar, Ganesh Rahane, Avinash Rokade, Russell Cross, Mamta Nasane, <b>Vijaya Jadkar</b> , Nelson Dzade, Sandesh Jadkar   | 2021 | Structural, Optoelectronic, and Photoelectrochemical Investigation of CdSe NC's Prepared by Hot Injection Method   | ES Materials and Manufacturing |
| 10. | Ganesh Rahane, Sagar Jathar, Sachin Rondiya, Yogesh Jadhav, Sunil Barma, Avinash V. Rokade, Russell Cross, Mamta Nasane, Vijaya Jadkar, Nelson Dzade, Sandesh Jadkar  | 2021 | Photoelectrochemical Investigation on the Cadmium Sulfide (CdS) Thin Films Prepared Using Spin Coating Technique   | ES Materials and Manufacturing |
| 11. | Mamta Nasane, Sachin Rondiya, Chandradip Jadhav,<br><br>Ganesh Rahane, Russell Cross, Sagar Jathar, Yogesh Jadhav, Sunil Barma, Dhanaraj Nilegave, <b>Vijaya Jadkar</b> , Avinash Rokade, Adinath Funde,  | 2021 | An interlinked computational–experimental investigation into SnS nanoflakes for field emission applications  |                                |

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|     | Padmakar Chavan, Robert Hoye, Nelson Dzade, Sandesh Jadkar   |      |  |   |
| 12. | Sayed Abdul Saboor, Vidhika Sharma, Ebrima L. Darboe, Vidya Doiphode, Ashvini Punde, Pratibha Shinde, <b>Vijaya Jadkar</b> , Yogesh Hase, Ashish Waghmare, Mohit Prasad, Sandesh Jadkar  | 2021 | Influence of Au plasmons and their synergistic effects with ZnO nanorods for photoelectrochemical water splitting applications       | Journal of Material Science: Materials in Electronics                     |
| 13. | Vidya Doiphode, Priti Vairale, Vidhika Sharma, Ashish Waghmare, Ashvini Punde, Pratibha Shinde, Shruti Shah, Subhash Pandharkar, Yogesh Hase, Rahul Aher, Shruthi Nair, <b>Vijaya Jadkar</b> , Bharat Bade, Mohit Prasad, Sachin Rondiya, Sandesh Jadkar | 2021 | Solution-processed electrochemical synthesis of ZnFe <sub>2</sub> O <sub>4</sub> photoanode for photoelectrochemical water splitting | Journal of Solid-State Electrochemistry                                   |
| 14. | DR.P.K.Bhadane, Prof.Suchita Bhangale  | 2019 | Investigation of electronic measurement system for characterization of glass membrane  | Pramana research Journal  |
| 15. | DR.P.K.Bhadane, Prof.Suchita Bhangale  | 2019 | Development of ARM-7 based potentiostat for the electrochemical laboratory,  | International Journal of Modern electronics and communication engineering |
| 16. | DR.P.K.Bhadane, Prof.Suchita Bhangale, Gagan Raipurkar, Shivam Gavli   | 2019 | Construction of homemade microphone using graphite lead,   | Journal of Emerging Technologies and Innovative Research                  |
| 17. | DR.P.K.Bhadane, Prof.Suchita Bhangale, Aparna Lal, Bharat Paradeshi  | 2019 | Construction of electronic system for the measurement of heart pulse rate,   | International Journal of Research and Analytical Reviews                  |

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| 18 | DR.P.K.Bhadane, Prof.Suchita Bhangale             | 2019 | ARM based data acquisition system for Physics experiments,   | International Journal of Computer Sciences and Engineering                |
| 19 | DR.P.K.Bhadane, Prof.Suchita Bhangale             | 2019 | On selection of optimum parameter operational amplifier for transimpedance amplifier,                              | International Journal of modern Electronics and Communication Engineering |
| 20 | DR.P.K.Bhadane, Prof.Suchita Bhangale, Aparna Lal | 2018 | On selection of optimum parameter operational amplifier for transimpedance amplifier,                              | International Journal of modern Electronics and Communication Engineering |
| 21 | DR.P.K.Bhadane, Prof.Suchita Bhangale             | 2018 | Improved accuracy pH meter : A circuit designers approach,   | International Journal of Electronics Engineering                          |
| 22 | DR.P.K.Bhadane, Prof.Suchita Bhangale, Aparna Lal | 2018 | Microcontroller for Sun Photometer,  | Journal of Emerging Technologies and Innovative Research                  |
| 23 | DR.P.K.Bhadane, Prof.Suchita Bhangale             | 2018 | Microcontroller for Smart Process control System,  | Journal of Emerging Technologies and Innovative Research                  |
| 24 | DR.P.K.Bhadane, Prof.Suchita Bhangale             | 2018 | Development of signal conditioning of potentiometric pH measurement system for undergraduate chemistry laboratory, | International Journal of Research and Analytical Reviews                  |

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| 25 | DR.P.K.Bhadane, Prof.Suchita Bhangale, Aparna Lal         | 2018 | Understanding the parts of PCB Layout,   | Int. J. of electrical and electronics research  |
| 26 | DR.P.K.Bhadane, Prof.Suchita Bhangale, Aparna Lal         | 2016 | Basics of SIM card: Technical overview   | Int. J. of Advanced Res. In Sc. Eng & Tech  |
| 27 | Sharad R.Chaudhary, DR.P.K.Bhadane, Prof.Suchita Bhangale | 2016 | Development of Microcontroller Based System for the Diagnosis of pH Electrode                        | International Journal of Innovative Research in Science, Engineering and Technology                 |
| 28 | , Prof.Suchita Bhangale                                   | 2016 | Development of Embedded System Based Colorimeter for the Analysis of Copper in Waste Water           | International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)       |
| 29 | DR.P.K.Bhadane, Prof.Suchita Bhangale, R. P. Bhadane      | 2016 | Development of embedded system-based colorimeter for the analysis of nickel: an algorithmic approach | International Journal of Computer Science Engineering and Information Technology Research (IJCEITR) |
| 30 | Shantaram L.Bonde , DR.P.K.Bhadane, Prof.Suchita Bhangale | 2016 | Investigation of some electronic properties of combined pH,  | International Journal of Innovative Research in Science, Engineering and                            |

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|----|--|--------|--|---|
|    |  |        |  | Technology (IJIRSET)  |
| 31 | DR.P.K.Bhadane, Prof.Suchita Bhangale, M. S. Hira                | 2016   | Development of microcontroller based inexpensive water analyser: A photoelectric design approach | International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET) |
| 32 | DR.P.K.Bhadane, Prof.Suchita Bhangale                            | 2016   | Development of microcontroller based two channel colorimeter for the analysis of cobalt in water | International Journal of Engineering research & technology (IJERT)                            |
| 33 | DR.P.K.Bhadane, Prof.Suchita Bhangale                            | 2016   | Development of Differential Colorimetric Analyzer for the Measurement of Iron in Water Solution, | International Journal of Engineering research & technology (IJEIT)                            |
| 34 | Pravin Bhadane, Suchita Bhangale, Gagan Raipurkar, Shivam Gavli, |        | Construction of homemade microphone using graphite lead,   | Journal of Emerging Technologies and Innovative Research                                      |
| 35 | Pravin Badhane, Aparna Lal, Tushar Kille,                        | (2019) | Overview of modern electronics components,   | International Journal of Research and Analytical Reviews                                      |
| 36 | Pravin Bhadane, Aparna Lal                                       |        | Analog to Digital Convertor Made Simple: An Overview for IoT applications,                       | International Journal of Research and   |

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|    |  |         |  | Analytical Reviews   |
| 37 | Pravin Bhadane, Aparna Lal                             | 2018),  | Simplified Procedure for Making of Artwork for Prototype PCB.                                | International Journal of Computer Sciences and Engineering                         |
| 38 | Pravin Bhadane, Aparna Lal                             | (2018), | User Interface for Real Time Microcontroller System: Case Study of ESP32, 6(4), pp 1112-1118 | International Journal of Research in electronics and Computer Engineering (IJRECE) |
| 39 | Pravin Bhadane, Pooja Patil, Nisha Singh, Priya Mishra | (2018)  | Control of electric motor using Bluetooth, 6(10), pp 541- 544,                               | International Journal of Computer Sciences and Engineering                         |
| 40 | Pravin Bhadane and Aparna Lal                          | (2018), | Beginners Approach to the Open Source Programming: Case Study Arduino with ESP32 ,           | International Journal of Computer Sciences and Engineering                         |