

## **FACULTY PROFILE**

1.	Name	Dr. Dhanaji Suresh Dalavi
2.	Department	Physics
3.	Qualification	<b>M.Sc.,Ph.D</b>
4.	Title of Thesis	"Synthesis and characterization of nanostructured NiO thin films and their electrochromic properties"
5.	Designation	Assistant Professor
6.	Specialization	Solid State Physics / Material Science
7.	Mobile No	<b>(R)+91-9527350402</b>
8.	Date of Birth	11 <sup>th</sup> January 1984
9.	Email	<a href="mailto:dhanuphysics@gmail.com">dhanuphysics@gmail.com</a>
10.	Teaching Experience	1.5 years
11.	Research Experience	07 years
12.	Membership in University	
13.	Membership in College	Member of UGC committee Member of NAAC (Teaching Learning and Evaluation Criteria),
14.	Membership of professional bodies	
15.	Awards received	<ol style="list-style-type: none"> <li>1. Rajiv Gandhi Junior Research Fellowship during 1<sup>st</sup> July 2008 to 30 June 2010.</li> <li>2. Rajiv Gandhi Senior Research Fellowship from 1<sup>st</sup> July 2010 13<sup>th</sup> Feb 2013.</li> <li>3. Selected for Dr. D. S. Kothari Post Doctoral Fellowship sponsored by UGC.</li> <li>4. Selected for Post Doctoral Fellowship sponsored by Ministry of Economy, South Korea.</li> <li>5. Excellent poster award, IUMRS-ICA-2011, Taiwan.</li> </ol>
16.	Refresher Orientation Courses	Nil
17.	Seminars/colloquium/workshop /conferences-Attended/ Participated	<b>Seminars:</b> <ol style="list-style-type: none"> <li>1. Surfactant Assisted growth of chemically bath deposited Nickel oxide thin films and its electrochromic performance, D. S. Dalavi, M. J. Suryavanshi, D. S. Patil, S. S. Kalagi, P.S. Patil, NCSSI 9-11<sup>th</sup> Dec 2009.</li> </ol>

	<ol style="list-style-type: none"><li>2. Multicoloured chromogenic coatings of organo-inorganic materials, A. C. Sonawane, D. S. Dalavi, H. P. Deshmukh, P. M. Kadam, P. S. Patil, National seminar on Preparation of nanomaterials and their applications, ACS college, Nandgaon, 20<sup>th</sup>-22<sup>th</sup> Feb, 2010,</li><li>3. Chemical Bath Deposition of CdS thin films for solar cell application, S. A. Vanalakar, S. S. Mali, D. S. Dalavi, A. S. Kamble, N. D. Koshti, M. P. Survanshi, P. S. Patil, National Seminar on Advanced Materials-2010 (NSAM), Dept. of Physics, Shivaji University, Kolhapur, 19<sup>th</sup>-20<sup>th</sup> Mar, 2010,.</li><li>4. Growth of ZnO Hierarchical Nanorods for Dye Sensitized Solar Cells. R. C. Pawar, J. S. Shaikh, D. S. Dalavi, P. M. Dhere, A. A. Babar and P.S. Patil, National Seminar on Advanced Materials-2010 (NSAM), Dept. of Physics, Shivaji University Kolhapur, 19<sup>th</sup>-20<sup>th</sup> Mar, 2010,</li><li>5. Surfactant Mediated Growth of NiO thin films and its electrochromic performance. D. S. Dalavi, S. S. Kalagi, P. S. Patil, National Seminar on Advanced Materials-2010 (NSAM), National Seminar on Advanced Materials-2010 (NSAM), Dept. of Physics, Shivaji University Kolhapur, 19<sup>th</sup>-20<sup>th</sup> Mar, 2010,</li><li>6. Synthesis and characterization of PMA thin films for supercapacitor application. D. S. Patil, D. S. Dalavi, J. S. Shaikh, P. S. Patil, National Seminar on Advanced Materials-2010 (NSAM), Dept. of Physics, Shivaji University Kolhapur, 19<sup>th</sup>-20<sup>th</sup> Mar, 2010,</li><li>7. Effect of synthesis conditions and morphology on the electrochromic performance of Na<sub>2</sub>WO<sub>4</sub>.2H<sub>2</sub>O and</li></ol>
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		<p>polymer composites, S. S. Kalagi, S. S. Mali, D. S. Dalavi, R. S. Patil and P. S. Patil, National Seminar on Advanced Materials-2010 (NSAM), Dept. of Physics, Shivaji University Kolhapur, 19<sup>th</sup>-20<sup>th</sup> Mar, 2010,</p> <p>8. National Seminar and Exhibition on "Emerging Trends in Renewable and Non-Renewable Energy Technologies" Shivaji University, Kolhapur, 22<sup>nd</sup> Oct, 2010,</p> <p>9. Hierarchical nanostructure of NiO thin film and its electrochromic performance, D. S. Dalavi, S. S. Pol, S. S. Kalagi, N. L. Tarwal and P. S. Patil, Advances in Synthetic Methodologies and New Materials. Dept. of Chemistry Shivaji University, Kolhapur, Jan 21-22, 2011</p> <p>10. Spectroelectrochemical studies of tungsten oxide (WO<sub>3</sub>)-polyaniline (PANI) electrochromic thin films, S. S. Kalagi, S. S. Mali, D. S. Dalavi, A. I Inamdar, P. S. Patil, National Seminar on Physics of Materials and Materials Based Device Applications (NSPM-MDF-2011), 17-18<sup>th</sup> Feb, 2011.</p> <p>11. Spray deposited CeO<sub>2</sub>-TiO<sub>2</sub> thin films and their performance as optically passive counter electrode, A.K.Bhosale, D.S.Dalavi, P.M.Kadam, P.S.Patil, National Seminar on Physics of Materials and Materials Based Device Applications (NSPM-MDF-2011), 17-18<sup>th</sup> Feb, 2011.</p> <p>12. Nanostructured electrodeposited WO<sub>3</sub> thin films for smart window application, D. S. Dalavi, S. S. Pol, S. S. Kalagi, R. S. Patil, P. S. Patil, National Seminar on Physics of Materials and Materials Based Device Applications (NSPM-MDF-2011), 17-18<sup>th</sup> Feb, 2011.</p> <p>13. Electrochromic performance of sol-gel</p>
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		<p>deposited WO<sub>3</sub> thin film, <u>Dhanaji S. Dalavi</u>, Namdev S. Harale, Anup J. More, Pramod S. Patil, National Seminar on Physics of Materials and Materials Based Device Fabrication, Department of Physics, Shivaji University, Kolhapur, 19-20<sup>th</sup> Dec 2014,</p> <p><b>Colloquium:</b></p> <p><b>Workshop:</b></p> <ol style="list-style-type: none"> <li>1. Synthesis and characterization of Prussian blue/PPy composite thin films for smart windows, <b>D. S. Dalavi</b>, D. S. Patil, R. S. Patil, P. R. Jadhav, A. C. Sonawane, P. S. Patil, Int. workshop on Nanotechnology and Advanced Functional Materials, NCL, Pune. 9-11<sup>th</sup> July 2009</li> <li>2. Synthesis of CNT-Co-PANI composites for electrochemical NO<sub>x</sub> gas sensor, S. S. Mali, <b>D. S. Dalavi</b>, R. C. Pawar, S. S. Kalagi, B. B. Dhale, P. S. Patil. Int. workshop on Nanotechnology and Advanced Functional Materials, NCL, Pune, 9-11<sup>th</sup> July 2009</li> <li>3. National Workshop on Materials Chemistry (Functional Materials), NWMC-2011, 7<sup>th</sup>-8<sup>th</sup> Dec, 2011, BARC, Mumbai.</li> <li>4. Two days workshop on Research Writing Ethics, Plagiarism and Publishability, Shivaji University, Kolhapur, 26<sup>th</sup>-27<sup>th</sup> July, 2012,</li> <li>5. One day workshop on "B.Sc, Part-II (Sem III/paper V, VI and Practicals) Revised Syllabus" organized by S.M. Dr. Bapuji Salunkhe Mahavidyalaya, Miraj, 11<sup>th</sup> August, 2014.</li> </ol> <p><b>Conferences:</b></p> <ol style="list-style-type: none"> <li>1. Synthesis of a novel multiwalled Carbon nanotube-polyaniline nanofibrous composites and their characterization, S. S. Mali, D. S. Dalavi, L. D. Kadam and P.S. Patil, International Conference on</li> </ol>
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		<p>Nanomaterials for Advanced Applications (ICNAMA-2008), 9-11 Dec 2008, Kolhapur.</p> <ol style="list-style-type: none"> <li>2. Organic additives aided synthesis of WO<sub>3</sub> thin films for smart window application, D. S. Dalavi, S. S. Kalagi, S. S. Mali, P. S. Patil, (ICNAMA) 9-11 Dec 2008, Kolhapur.</li> <li>3. Synthesis of PVA/PANI thin films as stable and superior electrodes for supercapacitor, D. S. Patil, J. S. Shaikh, D. S. Dalavi, P. S. Patil, Commercialization of Renewable Energy Technology (CRET-2009) Dr. D. Y. Patil University, Kolhapur, 21<sup>st</sup>-23<sup>rd</sup> Oct, 2009,</li> <li>4. Thickness dependent electrochromic behaviour behavior of NiO thin films, D. S. Dalavi, S. S. Mali, P. S. Patil, Commercialization of Renewable Energy Technology (CRET-2009) Dr. D. Y. Patil University, Kolhapur, 21<sup>st</sup>-23<sup>rd</sup> Oct, 2009,</li> <li>5. Synthesis of highly reversible WO<sub>3</sub> thin films by a soft chemical route, S. S. Kalagi, D. S. Dalavi, P. M. Kadam, P. S. Patil, Commercialization of Renewable Energy Technology (CRET-2009) Dr. D. Y. Patil University, Kolhapur, 21<sup>st</sup>-23<sup>rd</sup> Oct, 2009,</li> <li>6. Growth of Hierarchical MnOx via soft chemical route for supercapacitor application, P. R. Jadhav, R. C. Pawar, N. L. Tarwal, V. V. Shinde, D. S. Dalavi, P. S. Patil, Commercialization of Renewable Energy Technology (CRET-2009) Dr. D. Y. Patil University, Kolhapur, 21<sup>st</sup>-23<sup>rd</sup> Oct, 2009,</li> <li>7. Chemical synthesis of NiO microspheres with flake like nanostructures and their application in electrochromic smart windows, D. S. Dalavi, S. S. Pol, N. L. Tarwal, P. S. Patil, National Conference on Recent Trends in Harnessing of Non-</li> </ol>
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		<p>Conventional Energy Resources, Dept. Of Chemistry Vivekananda College, Kolhapur, 15-16<sup>th</sup> Dec, 2010,</p> <p>8. Intercalation/Deintercalation kinetics studies of Tungsten oxide and PANI films. S. S. Kalagi, S. S. Mali, D. S. Dalavi, N. S. Harale, S. A. Pawar, P. S. Patil, National Conference on Recent Trends in Harnessing of Non-Conventional Energy Resources, Dept. Of Chemistry Vivekananda College, Kolhapur, 15-16<sup>th</sup> Dec, 2010,</p> <p>9. A novel Mn doped polyaniline electrode for electrochemical supercapacitor, D. S. Patil, J. S. Shaikh, D. S. Dalavi, N. S. Harale, P. S. Patil, National Conference on Recent Trends in Harnessing of Non-Conventional Energy Resources, Dept. of Chemistry Vivekananda College, Kolhapur, Dec 15-16, 2010,</p> <p>10. Chemical Synthesis of Nanoporous Electrochromic NiO, P. M. Kadam, D. S. Dalavi, S. S. Kalagi, N. L. Tarwal, P. S. Patil, IUMRS-ICA-2011, 12<sup>th</sup> International Conference in Asia Taipei, Taiwan, 19-22<sup>nd</sup> Sept 2011.</p> <p>11. Electrochromic Devices Based on WO<sub>3</sub> Nanostructured Electrode by Pulsed Spray Pyrolysis, P.M. Kadam, D. S. Dalavi, N.L. Tarwal, H.P. Deshmukh, R.S. Patil, P.S. Patil, 1<sup>st</sup> International Conference on Physics of Materials and Materials Based Device Fabrication (ICPM-MDF-17-19 Jan 2012).</p> <p>12. ZnO nanomorphologies for advanced functional devices, R. S. Patil, D. S. Dalavi, S. S. Mali, R. C. Pawar, P.S. Patil, 1<sup>st</sup> International Conference on Physics of Materials and Materials Based Device Fabrication (ICPM-MDF-17-19 Jan 2012).</p> <p>13. Fabrication of WO<sub>3</sub>-PEDOT:PSS/PANI Electrochromic Smart Window, S. S.</p>
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		<p>Kalagi, S. S. Mali, D. S. Dalavi, Y. R. Ma, R. S. Devan, P. S. Patil, 1<sup>st</sup> International Conference on Physics of Materials and Materials Based Device Fabrication (ICPM-MDF-17-19 Jan 2012).</p> <p>14. Studies on Self Powered Switchable Smart Windows (SSSW), Sawanta S. Mali, D. S. Dalavi, S. H. Pisal, A. More, R. S. Devan, Y.R. Ma, R.S. Patil, H. P. Deshmukh, M. M. Karanjkar, A. V. Moholkar , P.S. Patil, 1<sup>st</sup> International Conference on Physics of Materials and Materials Based Device Fabrication (ICPM-MDF-17-19 Jan 2012).</p> <p>15. Enhanced Optical Modulation of Electrodeposited Nanostructured WO<sub>3</sub> Thin Film, D. S. Dalavi, A.J. More, N. L. Tarwal, R. S. Patil, R. S. Devan, Y. R. Ma, P. S. Patil, 1<sup>st</sup> International Conference on Physics of Materials and Materials Based Device Fabrication (ICPM-MDF-17-19 Jan 2012).</p> <p>16. Hydrothermally Grown Tungsten Oxide Microbricks and their Gas Sensing Performance, <b>Dhanaji S. Dalavi</b>, Namdev S. Harale, Vidula V. Shinde, Vikas B. Patil, Raghunath S. Patil, J.H. Kim, Pramod S. Patil, International Conference on Advanced and Applied Material Science, Gokhale College, Kolhapur, 15-16 Jan 2014.</p> <p>17. One step synthesis of silver nanoparticles and study of their antimicrobial activity, Vidula V. Shinde, <b>Dhanaji S. Dalavi</b>, J.H. Kim, Pramod S. Patil, International Conference on Advanced and Applied Material Science, Gokhale College, Kolhapur, 15-16 Jan 2014.</p> <p><b>Symposium:</b></p> <p>1. Surfactant mediated growth of NiO thin films and its electrochromic performance, <b>D. S. Dalavi</b>, D. S. Patil, R.</p>
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		<p>C. Pawar, P. S. Patil, 21<sup>st</sup> AGM of MRSI: Advanced Ceramic Materials: monoliths to composites, Sardar Patel University, Vallabh Vidyanagar, Gujarat, 9<sup>th</sup>-11<sup>th</sup> Feb, 2010,</p> <p>2. Synthesis of PMA thin films for supercapacitor application, <b>D. S. Dalavi</b>, J. S. Shaikh, V. V. Shinde, P. S. Patil, 21<sup>st</sup> AGM of MRSI: Advanced Ceramic Materials: monoliths to composites, Sardar Patel University, Vallabh Vidyanagar, Gujarat, 9<sup>th</sup>-11<sup>th</sup> Feb, 2010,</p> <p>3. Dye sensitized solar cells based on ZnO bottle brush, R. C. Pawar, J. S. Shaikh, <b>D. S. Dalavi</b>, P. M. Dhere, A. A. Babar, P. S. Patil, 21<sup>st</sup> AGM of MRSI: Advanced Ceramic Materials: monoliths to composites, Sardar Patel University, Vallabh Vidyanagar, Gujarat, 9<sup>th</sup>-11<sup>th</sup> Feb, 2010,</p> <p>4. Dye Sensitized Properties of Hydrothermally Grown Nanocoral TiO<sub>2</sub>: A comparative studies of dye, S. S. Mali, D. S. Dalavi, C.A. Betty, P. N. Bhosale, P. S. Patil, 56<sup>th</sup> DAE-SSPS symposium, SRM University, Chennai, 19-23<sup>rd</sup> Dec, 2011.</p> <p>5. Electrochromic properties of electrodeposited Tungsten Oxide (WO<sub>3</sub>) thin film, D. S. Dalavi, S. S. Kalagi, S. S. Mali, A. J. More, R. S. Patil, P. S. Patil, 56<sup>th</sup> DAE-SSPS symposium, SRM University, Chennai, 19-23<sup>rd</sup> Dec, 2011</p>
18.	Publications	<p><b>Papers:</b></p> <p>1. Polymer assisted deposition of electrochromic tungsten oxide thin films, S. S. Kalagi, <u>D. S. Dalavi</u>, R. C. Pawar, S. S. Mali, N. L. Tarwal, P. S. Patil, Journal of Alloys and Compound 493 (2010) 335-339.</p> <p>2. Simple and rapid synthesis of NiO/PPy thin films with improved electrochromic performance, A. C. Sonavane, A. I. Inamdar, <u>D. S. Dalavi</u>, H.</p>



		<p>P. Deshmukh, P. S. Patil, <i>Electrochimica Acta</i> 55 (2010) 2344-2351.</p> <p>3. Nanoporous nickel oxide thin films and its improved electrochromic performance: Effect of thickness, <u>Dhanaji S. Dalavi</u>, M. J. Suryavanshi, D. S. Patil, S. S. Mali, A.V. Moholkar, S. S. Kalagi, S. A. Vanalkar, S. R. Kang, J. H. Kim, P. S. Patil, <i>Applied Surface Science</i> 257 (2011) 2647–2656.</p> <p>4. Low temperature aqueous chemical synthesis of CdS sensitized ZnO nanorods, S. A. Vanalakar, R. C. Pawar, M. P. Suryawanshi, S. S. Mali, <u>D. S. Dalavi</u>, A. V. Moholkar, K. U. Sim, Y. B. Kown, J. H. Kim, P. S. Patil, <i>Materials Letters</i> 64 (2011) 548-551.</p> <p>5. Photoluminescence of zinc oxide nanopowder synthesized by a combustion method, N. L. Tarwal, P. R. Jadhav, S. A. Vanalakar, S. S. Kalagi, R. C. Pawar, J. S. Shaikh, S. S. Mali, <u>D. S. Dalavi</u>, P. S. Shinde, P. S. Patil, <i>Powder Technology</i> 208 (2011) 185-188.</p> <p>6. An Mn doped polyaniline electrode for electrochemical supercapacitor, D. S. Patil, J. S. Shaikh, <u>D. S. Dalavi</u>, M. M. Karanjkar, R. S. Devan, Y. R. Ma and P. S. Patil. <i>J. Electrochemical Society</i>, 158 (5) (2011)1-5.</p> <p>7. Chemical synthesis of highly stable PVA/PANI films for supercapacitor application, D. S. Patil, J. S. Shaikh, <u>D. S. Dalavi</u>, P. S. Patil, <i>Materials Chemistry and Physics</i> 128 (2011) 449–455.</p> <p>8. Limitations of dual and complementary inorganic–organic electrochromic device for smart window application and its colorimetric analysis, S. S. Kalagi, S. S. Mali, <u>D. S. Dalavi</u>, A. I. Inamdar, Hyunsik Im, P. S. Patil, <i>Synthetic Metals</i>, 161 (11) 2011) 1105–1112.</p>
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		<p>9. Effect of Annealing on Microstructural and Optoelectronic Properties of nanocrystalline TiO<sub>2</sub> Thin Films, S. G. Pawar, M. A. Chougule, <u>D. S. Dalavi</u>, P. S. Patil and V. B. Patil, J. Sensor Technology, 1 (2011) 9-16.</p> <p>10. CdS Sensitized TiO<sub>2</sub> nanocorals: Hydrothermal Synthesis, Characterization, Application, S. S. Mali, S. K. Desai, <u>D. S. Dalavi</u>, C. A. Betty, P. N. Bhosale and P.S. Patil. Photochem. Photobiol. Sci. 10 (10) (2011) 1652-1658.</p> <p>11. Variation in noble metal morphology and its impact on functioning of hydrogen mitigation catalyst, K. K. Sanap, S. Varma, <u>D. S. Dalavi</u>, P. S. Patil, S. B. Waghmode and S. R. Bharadwaj, International Journal of Hydrogen Energy: 36 (2011) 10455-10467.</p> <p>12. Fabrication of Nanocrystalline TiO<sub>2</sub> Thin Film Ammonia Vapor Sensor, Shailesh Pawar, Manik Chougule, Sanjay Patil, Bharat Raut, <u>Dhanaji S. Dalavi</u>, Pramod Patil, Shashwati Sen, Pradeep Joshi, Vikas Patil, J. Sensor Technology, 1 (2011) 9-16.</p> <p>13. Efficient maximization of coloration by modification in morphology of electrodeposited NiO thin films prepared with different surfactants, <u>Dhanaji S. Dalavi</u>, M. J. Suryavanshi, S. S. Mali, D. S. Patil, P. S. Patil, J Solid State Electrochem 16 (2012) 253–263.</p> <p>14. Electrochromic properties of electrodeposited tungsten oxide (WO<sub>3</sub>) thin film, <u>Dhanaji S. Dalavi</u>, S. S. Kalagi, S. S. Mali, A. J. More, R. S. Patil, P. S. Patil, AIP Conference Proceedings 1447 (1) (2012) 451.</p> <p>15. Electro-optical properties of copper phthalocyanines (CuPc) vacuum deposited thin films. S. S. Mali, <u>D. S</u></p>
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		<p><u>Dalavi</u>, P. N Bhosale, C. A Betty, A. K Chauhan, P. S. Patil, RSC Adv. 2 (5) (2012) 2100-2104.</p> <p>16. CSA doped Polyaniline/CdS organic-inorganic nanohybrid: Physical and gas sensing properties, B. T. Raut, M. A. Chougule, S. R. Nalage, <u>D. S. Dalavi</u>, S. S. Mali, P. S. Patil, V. B. Patil Ceramics International 38 (7) (2012) 5501–5506.</p> <p>17. Farming of ZnO nanorod arrays via aqueous chemical method for their photoelectrochemical performance, S. A. Vanalakar, R. C. Pawar, N. L. Tarwal, S. S. Mali, <u>D. S. Dalavi</u>, P. S. Patil, Ceramics International 38 (2012) 6461–6467.</p> <p>18. Novel method for fabrication of room temperature polypyrrole-ZnO nanocomposite NO<sub>2</sub> sensor, M. A. Chougule, <u>D. S. Dalavi</u>, Sawanta Mali, P. S. Patil, A. V. Moholkar, G. L. Agawane, J. H. Kim, Shashwati Sen, V. B. Patil, Measurement 45 (2012) 1989–1996.</p> <p>19. Transmission attenuation and Chromic contrast characterization of R.F. sputtered WO<sub>3</sub> thin films for Electrochromic device applications, S. S. Kalagi, S. S. Mali, D. S. Dalavi, A. I. Inamdar, H. Im and P. S. Patil, Electrochimica Acta: Electrochimica Acta 85 (2012) 501–508.</p> <p>20. Study of Novel WO<sub>3</sub>-PEDOT:PSS bilayered thin film for electrochromic applications, S. S. Kalagi, <u>D. S. Dalavi</u>, S. S. Mali, A. I. Inamdar, R. S. Patil, P. S. Patil. J. Nanoscience and Nanotechnology Letters 4 (2012) 1-9.</p> <p>21. Electrochromic performance of sol-gel deposited NiO thin film, <u>Dhanaji S. Dalavi</u>, R. S. Devan, R. S. Patil, Y-R. Ma, Pramod S. Patil. Materials Letter: 90 (2013) 60–63.</p>
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		<p>22. Polyaniline–CuO hybrid nanocomposites: synthesis, structural, morphological, optical and electrical transport studies, D. M. Jundale, S. T. Navale, G. D. Khuspe, <u>D. S. Dalavi</u>, P. S. Patil, V. B. Patil, J Mater Sci: Mater Electron, 24 (9) (2013) 3526-3535.</p> <p>23. CdS sensitized ZnO nanorods for solar cell application: Synthesis and Characterization, S. A. Vanalakara, S. S. Mali, <u>D. S. Dalavi</u>, M.P. Suryawanshi, A.V. Moholkar, P. S. Patil Vol-X (1) 2013, ISSN:2231-0975.</p> <p>24. Electrochromic properties of Dandelion flower like nickel oxide thin films, <u>Dhanaji S. Dalavi</u>, Rupesh S. Devan, Raghunath S. Patil, Yuan-Ron. Ma, Myeong-Gil Kang, Jin-Hyeok Kim, Pramod S. Patil, J. Mater. Chem. A, 2013, 1, 1035</p> <p>25. Efficient Electrochromic Properties of Nanoparticulate WO<sub>3</sub> Thin Films, <u>Dhanaji S. Dalavi</u>, Rupesh S. Devan, Ranjit A. Patil, Raghunath S. Patil, Yuan-Ron Ma, Shivaji B. Sadale, In-Young Kim, Jin-Hyeok Kim, and Pramod S. Patil, J. Mater. Chem. C, 2013, 1, 3722-3728.</p> <p>26. Surfactant free microwave assisted synthesis of ZnO microspheres: Study of their Antibacterial and Photocatalytic Activity, Vidula V. Shinde, Dhanaji S. Dalavi, Sawanta S. Mali, C. K. Hong, S. W. Shin, Jin H. Kim, Pramod S. Patil, Applied Surface Science. 2014</p> <p>27. Electrodeposition of nano-granular tungsten oxide thin films for smart window application, A. J. More, R.S. Patil, D. S. Dalavi, S.S. Mali, C.K. Hong, M.G. Gang, J.H. Kim, P.S. Patil, Materials Letter, 134 (2014) 298–301.</p> <p><b>28.</b> Nanoporous network of Nickel oxide for Ammonia gas detection. <u>D. S. Dalavi</u>, N. S. Harale, I. S. Mulla, V. K. Rao, V. B. Patil,</p>
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		<p>I. Y. Kim, J. H. Kim, P. S. Patil. Materials Letter, 146, (2015) 103-107.</p> <p><b>Books:</b></p> <p>1. "Nanostructured NiO thin Films for Smart Window Application" Lambert Academic Publishing, Germany, 10 April, 2015, ISBN:978-369-64857-1.</p>
19.	Invited Talk	Nil
20.	Conference/seminar/workshop/exhibition organized	Nil
21.	Projects	Nil
22.	Student Supervision	Nil
23.	Other contributions	
24.	Consultancy	
25.	Co-curricular activities	Worked as Junior Supervisor, Worked as Examiner for B.Sc.Part-I, II Practical.