Dr. Shrikrishna D. Sartale
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Personal details:

- Date of birth: 19 April 1976
- Citizenship: Indian

Education:

- **Ph.D.**, Feb. 2002, Major in Thin Film Physics, Shivaji University, Kolhapur, India
- **M.Sc.** Jun. 1998, Major in Physics - Applied Electronics, Shivaji University, Kolhapur, India

Professional Experience:

- **Professor** (April 2008 - till date), Savitribai Phule Pune University, Pune, India
- **NIMS research Fellow** (July 2007-April 2008) National Institute for Materials Science, Japan
  "Fabrication and investigation of MIM structure for nanoelectronics applications"
- **Post-doctorate Fellow** (July 2004-July 2007) National Central University, Taiwan
  "Growth of metal nanoclusters supported on oxide surface as a model catalyst"
- **Alexander von Humboldt Fellow** (July 2003-July 2004) Hahn-Meitner Institut, Germany
  "Chemical and electrochemical processes for solar cell applications"
- **Research Project Fellow** (June 2000-July 2001) Shivaji University, Kolhapur, India
  "Preparation and characterization of nanocrystalline group II-VI thin films".

Administrative Responsibilities:

- Member of Board of Studies, Physics, Solapur University, Solapur & YCIS, Satara, India

Memberships:

- American Association for the Advancement of Science ✦ Member: Institute of Physics, London, UK.
- NIMS Alumni, Japan
- Life Member: Chemical Research Society of India
- Life Member: Indian Association of Physics Teachers
- Life Member: The Indian Science Congress Association
- Life Member: Indian Society for Surface Science and Technology
- Life Member: Indian Physics Association
- Life Member: Materials Research Society of India
- Life Member: Indian Society for Materials Chemistry

Honors and Awards:

- Fellow of Engineered Science Society, USA, 2022
- Fellow of Maharashtra Academy of Sciences (FMASc), 2021
- Fellow of the Indian Chemical Society (FICS), 2020
- Japan Society for Promotion of Science (JSPS) Fellow (2007)
- Selected and attended Noble Laureate Meeting, Lindau, Germany (2004)
- Alexander von Humboldt Fellow, Germany (2003)
- Guest Editor, Journal of Nanotechnology Volume 2012, 2012

Research interest: Thin Films Science, Surface and interface science, NanScience and technology

RESEARCH GUIDANCE

Post-Doc

Sr. No.	Name	Name of the Fellowship	Title of the work	Duration
1	Punam A. Jadhav	CSIR Senior research Fellow (SRF)	Chemically synthesized ferroelectric gas sensors	11/06/2009-13/08/2010
2	Dr. Avinash V. Rokade	Savitribai Phule Pune University SPPU-Postdoctoral Fellowship	Transition Metal-Chalcogenides Nanostructure Based Electrodes: Synthesis, Modification, and Device Fabrication for Hybrid Supercapacitor Application	18/10/2021-18/10/2023

Ph. D. Guidance

Sr. No.	Name of the Student (Role)	Title of the work	Status
1	Abu Saad Ansari **(Guide)**	Growth of metal nanoparticles on oxide thin film by spin-coating technique as a model catalyst	**Awarded 28/01/2016**
2	Sanjay B. Kokane **(Guide)** Co-guide: Dr. R. Sasikala	Development of Heterojunction Photocatalyst for Hydrogen Generation and Dye Degradation Applications	**Awarded 30/12/2017**
3	Shreelekha N. Khatavkar **(Guide)**	Synthesis, Characterization and Supercapacitive study of iron oxide and copper oxide thin films by Liquid Phase Deposition	**Awarded 27/08/2019**
4	Ravi Vinayak Ingle **(Co-Guide)** Guide: Dr. H. M. Pathan	Optical and Electronic properties of Colloidal solution of Cadmium Sulfide for its Solar Cell Application Prospective	**Awarded 09/11/2020**
5	Mangesh A. Desai **(Guide)**	Hybrid nanostructures for energy applications	**Awarded 19/07/2021**
6	Amol Suhas Vedpathak **(Co-guide)** Guide: Dr. Sunita Bhagwat	Transition metal oxide-based nanostructures: Green synthesis and energy storage applications	**Awarded 25/04/2023**
7	Imran Shaikh **(Guide)**	Growth of Silver Nanoparticles by Spin Coating and SILAR methods for SERS Application	**Awarded 11/12/2023**
8	Akshay N. Vyas **(Guide)**	SILAR grown metal (Ni, Pd and Au) nanoparticles for ethanol electrooxidation	**Thesis submitted**
9	Smita M. Yadav (**Guide**)	Synthesis and characterization of g-C_3N_4 based Photocatalysts for Dye Degradation Application	**Thesis submitted**
10	Mohd. Abdul Haque Farooque Ah. **(Guide)**	Single Quantum Dot Blinking and Spectroscopy	**Thesis submitted**
11	Vishnu Mohan Gore **(Guide)**	Ion-exchange route for hybrid nanostructures for energy applications	**Working**
12	Reshma Dattatraya Jadhav **(Guide)**	Optical and electrical studies of nanostructures in conjunction with liquid crystals	**Working**
13	Tanuja Nagnath Shinde **(Guide)**	Development of oxide-based nanomaterials for efficient energy storage devices	**Working**
14	Nazmeen Akhtar Sayyed **(Guide)**	Investigation of Metal Nanomaterials for Electrocatalysis Applications	**Working**
15	Swapnali Vijay Waghmare **(Guide)**	Metal Phosphate Based Nanoarchitecture For Energy Applications	**Working**

M. Phil. Guidance

Sr. No.	Name of the Student	Title of the work	Status
1	Abu Saad A. Ansari	Studies on sputter deposited titanium dioxide thin films	**Awarded (05/04/2010)**
2	Ashwini Baburao Roham	Growth of nanopartyicles by spin coating technique	**Awarded (06/07/2012)**
3	Akshay Nandkishor Vyas	Deposition of molybdenum disulphide thin films by successive ionic layer adsorption and reaction method	**Awarded (28/03/2014)**
4	Smita M. Yadav	Chemical synthesis of nanocrystalline ceria	**Awarded (28/04/2014)**
5	Mangesh Appasaheb Desai	Engineering surface morphology of modified SILAR grown ZnO nanostructures	**Awarded (06/07/2015)**
6	Somnath Raghunath Bhopale	Spin coated zirconia thin films for MOS device	**Awarded (08/12/2015)**
7	Swamini Ashok Zaware	Deposition and characterization of CdS thin film by spin-SILAR method	**Awarded (10/05/2016)**
8	Shaikh Imran Shaikh Mukhtar	Growth of Ag nanoparticles for SERS application	**Awarded (01/03/2017)**
9	Rohit Ramdas Shendkar	Understanding chemical deposition of semiconductor thin films	**Awarded (29/12/2017)**
10	Mohini Rajendra Nashikkar	Mchanochemical synthesis of CdZnS nanoparticles	**Awarded (22/02/2018)**
11	Anuja Abdule	Deposition and characterization of Silver sulfide thin films by spin-SILAR method	**Awarded (19/10/2019)**

RESEARCH PROJECTS

Sr. No.	Title of the Project	Investigators	Funding Agency	Duration	Amount (Rs.)	Remark
1.	Studies on nanocrystalline ceria prepared by chemical method	**PI: Dr. S. D. Sartale** Co-PI: Dr. H. M. Pathan	BCUD, Univ. of Pune	Oct. 2009 to Sept. 2011	₹2, 00,000	Completed
2.	Deposition of layered transition metal chalcogenides thin films by SILAR method for their tribological applications	**PI: Dr. S. D. Sartale** Co-PI: Dr. H. M. Pathan	ISRO-UoP Technology Cell, Univ. of Pune	**2 Years**	₹7, 00,000	Completed
3.	Growth of metal nanoparticles on oxide thin film by spin-coating technique as a model catalyst	**PI: Dr. S. D. Sartale** Co-PI: Dr. H. M. Pathan Co-PI: Dr. V. L. Mathe	CSIR, India	**4 Years** June 2010 to June 2014	₹22,00,400	Completed

4.	Understanding the growth mechanism cadmium zinc sulfid thin films deposited novel chemical bath deposition method	**PI: Dr. S. D. Sartale**	UGC, India	**3 years** 24 August 2012 to 24 August 2015	**₹**12,99,800	Completed
5.	Nanocomposite photocatalysts for environmental cleaning application	**Dr. S. D. Sartale (PI/Guide)** Dr. R. Sasikala (Co-guide)	BRNS, India (University of Pune, BARC joint Ph.D. program)	**5 years** Oct. 2012 to Oct. 2017	**₹**15,62,000	Completed
6.	Studies on SILAR deposited metal nanoparticles thin films	**PI: Dr. S. D. Sartale**	BCUD, Univ of Pune	**2 years** April. 2014 to Mar. 2016	**₹** 2, 70, 000	Completed
7.	Investigation of effect of size of ferrite nanoparticles synthesized by ball milling	**PI: Dr. S. D. Sartale**	DST (Fast track Young Scientist Scheme), India	**4 Years** 25 June 2013 to 25 June 2017	**₹**17,00,000	Completed
8.	Equipment and Books Donation to Alexander von Humboldt Fellow	--	Alexander von Humboldt Foundation, Germany	07 Oct. 2014	**~ 10,000 €**	--
9.	Investigation of Spin Coated Metal Nanoparticles by Total Reflection X-ray Fluorescence (TXRF) measurements	**PI: Dr. S. D. Sartale** Dr. M. K. Tiwari (RRCAT, Indore) Collaborator	UGC-DAE CSR	**4 years** 01 Aug. 2015 to July 2020	**₹**7,00,000	Completed
10.	Fabrication of CdS/PbS thin film solar cell by using Spin-SILAR deposition	**PI: Dr. S. D. Sartale**	BCUD, Savitribai Phule Pune University	**2 Years** April. 2016 to Mar. 2018	**₹** 3,00,000	Completed
	technique					
11.	EXAFS studies to explore the internal structure of graded naocrstals	**PI: Dr. S. D. Sartale** Dr. D. Bhattacharya (RRCAT, Indore) Collaborator	UGC-DAE CSR	**5 years** 01 Aug. 2021 to July 2026	**₹**7,00,000	In progress

LIST OF PUBLICATIONS

Book Chapters:

1. *Atoms, Molecules and Nanoparticles manipulation by scanning probe microscopy*
   A. Tseng, **S. D. Sartale**, M. F. Luo, C. C. Kuo and Z. Li
   Chapter 1 "Nanofabrication: Fundamentals and Application", Editor A. A. Tseng, World Scientific Publishing Company (June 2008) pp 1-32

2. *Plasmonic Metal Nanoparticles Decorated ZnO Nanostructures for Photoelectrochemical (PEC) Applications*
   Mangesh A. Desai and **Shrikrishna D. Sartale**
   Chapter 12 "chemically deposited nanocrystalline metal oxide thin films, synthesis, characterizations and their applications", Editors- Fabian I. Ezema, Jose Rajan, Chandrakant D. Lokhande, Springer nature (2021) pp 293-328

3. *Liquid Phase Deposition of Nanostructured Materials for Supercapacitor Applications*
   Shreelekha N. Khatavkar and **Shrikrishna D. Sartale**
   Chapter 26 "chemically deposited nanocrystalline metal oxide thin films, synthesis, characterizations and their applications", Editors- Fabian I. Ezema, Jose Rajan, Chandrakant D. Lokhande, Springer nature (2021) pp 725-764

4. *Chemically Deposited Iron Chalcogenide-Based Carbon Composites for Supercapacitor Applications*
   Shreelekha N. Khatavkar and **Shrikrishna D. Sartale**
   Chapter 3 "Chemically Deposited Metal Chalcogenide-based Carbon Composites for Versatile Applications" Editors- Fabian I. Ezema, Chandrakant D. Lokhande Abhishek C. Lokhande, Springer nature (2023) pp 83-121

Peer reviewed Articles:

114	*Facile Synthesis of KV3O8 Nanobelts for Solid-State Supercapacitors* Amol S. Vedpathak, Shubham S. Kalyane, Tanuja N. Shinde, Qian Wang, Ravindra N. Bulakhe, Ji Man Kim, and **Shrikrishna D. Sartale*** Journal of Power Sources (in press)
113	*Development of nickel oxide thin film by chemical route for supercapacitor application* Aarti D. Narang, Satish P. Gupta, Poonam P. Sanap, Suman S. Kahandal, Rameshwar S. Tupke, Hansol Kim, Qian Wang, Amol S. Vedpathak, **Shrikrishna D. Sartale**, Vikas K. Gade, Pradip B. Shelke, Anuradha C. Pawar, Ji Man Kim, and Ravindra N. Bulakhe Journal of Materials Science: Materials in Electronics 35 (2024) 1335
112	*Zn Alloying Strategy to Improve Photoluminescence of $CuGaS_2$/ZnS Core/Shell Quantum Dots* Mohammed Abdul Haque, Amruta Lohar, Yogesh Jadhav, Ravi Kumar, S.N. Jha, D. Bhattacharyya, Sandesh Jadkar, **Shrikrishna Sartale** and Shailaja Mahamuni Journal of Materials Chemistry A 12 (2024) 10726-10736

111	*Modified successive ionic layer adsorption and reaction for interconnected bismuth vanadate nanograins: Highly active visible light harvesting photoanodes* Shirin P. Kulkarni, Vikas V. Magdum, Yogesh M. Chitare, Prashant D. Sawant, Shweta V. Talekar, Shraddha A. Pawar, Amol U. Pawar, Dhanaji B. Malavekar, **Shrikrishna D. Sartale**, Ayman A. Ghfar, Jayavant L. Gunjakar Journal of Photochemistry and Photobiology A: Chemistry, 454 (2024) 115737
110	*Enzymatic Synthesis of Biocompatible Polypyrrole with Enhanced Electrochemical Properties for Supercapacitors* Seema S. Bhoyar, Vijay B. Sangale, Mangesh A. Desai, Priyanka A. Khot, Satish K. Pardeshi, **Shrikrishna D. Sartale** and Kisan M. Kodam Journal of Power Sources 607 (2024) 234599
109	*Fabrication of ZnO Scaffolded CdS Nanostructured Photoanode with Enhanced Photoelectrochemical Water Splitting Activity under Visible Light* Avinash Rokade, Ganesh K. Rahane, Aleksandar Živkovic, Swati N. Rahane, Hemant S. Tarkas, K. Hareesh, Nora H. de Leeuw, **Shrikrishna Dattatraya Sartale**, Nelson Y. Dzade, Sandesh R. Jadkar, and Sachin R. Rondiya Langmuir 44 (2024) 6884-6897
108	*Wheat bran as an efficient agro-process waste for enhanced yellow laccase production by Lentinus tigrinus SSB_W2 and its application in anthraquinone dye degradation* S. S. Bhoyar, A. U. Chaudhari, M. A. Desai, R. V. Latpate, **S. D. Sartale** and K. M. Kodam 3 Biotech 14 (2024) 33
107	Evolution of α-V_2O_5 into electrochemically transformed NaV_3O_8 structure: Structural changes and supercapacitor application Amol Vedpathak, Mangesh A. Desai, Balu R. Thombare, Ramchandra Kalubarme, Guoqing Guan, Sunita Bhagwat and **Shrikrishna. D. Sartale*** Journal of Electroanalytical Chemistry 958 (2024) 118150
106	*1D Layered $LiVO_3$ Nanorods Synthesized by Ultrasonic-Assisted Chemical Route for Supercapacitor Applications* Tanuja Nagnath Shinde, Amol Vedpathak, Balasaheb J. Nagare, Digambar M. Sapkal, Mangesh Desai, Pradeep Prabhakar Atre, and **Shrikrishna D. Sartale*** Energy Technology 12 (2023) 2301056
105	*Palladium nanoparticles grown by using successive ionic layer adsorption and reaction* *method and their ethanol electrooxidation application* Akshay Nandkishor Vyas, Jalindar Dnyandeo Ambekar, Bharat Bhanudas Kale and **Shrikrishna Dattatraya Sartale*** Journal of the Electrochemical Society 170 (2023) 084508
104	*Superoxide ($\bullet O^{2-}$) radical species driven type II TiO_2/g-C_3N_4 heterojunction photocatalyst for RhB dye degradation* Smita M. Yadav, Mangesh A. Desai, **Shrikrishna D. Sartale*** Journal of Materials Science: Materials in Electronics 34 (2023) 1651
103	*The effect of surface treatment and polymer matrix on photoluminescence intermittency of strongly confined $CsPbBr_3$ quantum dots* Mohammed Abdul Haque, Amruta Lohar, Richa Gahlaut, Imran Shaikh, **Shrikrishna Sartale**, and Shailaja Mahamuni Journal of Materials Science: Materials in Electronics 34 (2023) 1642
102	*Simple chemical synthesis of CeO_2 nanoparticles for toxic NO_2 gas detection*

	Tanaji M. Nimbalkar, Yogesh M. Jadhav, Reshma N. Dhanawade, Nanasaheb S. Pawar, Avinash C. Molane, Shivani S. Gavande, Ganesh T. Chavan, Chan-Wook Jeon, **Shrikrishna D. Sartale**, Vikas B. Patil Journal of Alloys and Compounds 966 (2023) 171461
101	*One-Dimensional Layered Sodium Vanadate Nanobelts: A Potential Aspirant for High-Performance Supercapacitor Applications* Amol S. Vedpathak, Tanuja Shinde, Mangesh A. Desai, Balu R. Thombare, Ranjit Hawaldar, Suyog Asaram Raut, Ram Kalubarme, **Shrikrishna. D. Sartale*** and Sunita Bhagwat ACS Applied Energy Materials 6 (2023) 4693-4703
100	*Spin coated Ag NPs SERS substrate: Trace detection study of methylene blue and melamine* Imran M. Shaikh and **Shrikrishna Sartale*** Applied Physics A 129 (2023) 1-12
99	*Intercalation of two-dimensional graphene oxide in WO3 nanoflowers for NO2 sensing* Gajanan M. Hingangavkar, Sujit A. Kadam, Yuan-Ron Ma, **Shrikrishna D. Sartale**, Ramesh N. Mulik, Vikas B. Patil Nano-Structures & Nano-Objects 34 (2023) 100964
98	*Synthesis, characterization, electrochemical and catalytic performance of NiO nanostructures and Ag-NiO nanocomposite* Chaitali V. Khedkar, Amol S. Vedpathak, Abhijeet V. Dhotre, Krishna D. Daware, Yesh D. Kolekar, Shrikrishna D. Sartale, Suresh W. Gosavi, Shankar I. Patil Chemical Physics Impact 6 (2023) 100153
97	*MoS_2 nanosheets as bifunctional electrode for oxygen evolution reaction and electrochemical supercapacitor* Komal B. Pisal, Bapuso M. Babar, Sarfraj H. Mujawar, Sawanta S. Mali, Chang Kook Hong, **Shrikrishna D. Sartale**, Laxman D. Kadam International Journal of Energy Research 46 (2022) 18312-18327
96	*Spin Coated Ag NPs SERS substrate: Role of electromagnetic and chemical enhancement in trace detection of methylene blue and congo red* Imran M. Shaikh, Mohammed Abdul Haque, Habib Pathan and **Shrikrishna Sartale*** Plasmonics 17 (2022) 1889-1900
95	*Investigations on the Magnetic Properties of Patterned Cobalt Grown on a Mechanically Scratched Copper Substrate* M. S. Gadwal, J. Kaur, S. F. Shaikh, P. E. Lokhande, V. L. Mathe, **S. D. Sartale** and H M Pathan ES Materials & Manufacturing 18 (2022) 1-9
94	*A green strategy for synthesis of K^+ pre-inserted MnO_2/rGO and its electrochemical conversion to Na-MnO_2/rGO for high performance supercapacitor* Amol S. Vedpathak, Mangesh A. Desai, Sunita Bhagwat and **Shrikrishna. D. Sartale*** Energy Fuels 36 (2022) 4596-4608
93	*Role of oxidation states of iron on the super-capacitive behaviour of iron oxide films* Jayant Yadav, Akshay Vyas, **Shrikrishna Sartale** & Brajesh Pandey Applied Physics A 128 (2022) 290
92	*Mesoporous Nanohybrids of 2D Ni-Cr-Layered Double Hydroxide Nanosheets Pillared with Polyoxovanadate Anions for High-Performance Hybrid Supercapacitor*

	Navnath S Padalkar, Shrikant V Sadavar, Rohini B Shinde, Akash S Patil, Umakant M Patil, Dattatray S Dhawale, Habib M Pathan, **Shrikrishna D Sartale**, Vinayak G Parale, Ajayan Vinu, Chandrakant D Lokhande, Jayavant L Gunjakar Advanced Materials Interfaces 9 (2022) 2101216
91	*Fabrication and evaluation of symmetric flexible solid state supercapacitor device based on α-Fe_2O_3 thin films by LPD* S. N. Khatavkar and **S. D. Sartale*** AIP Conference Proceeding 2335 (2021) 040008
90	*Study of front panel electrode coatings for combined visible and short wavelength infrared photodetectors* M. Aleksandrova, G. Dobrikov, H. Pathan, **S. D. Sartale** and V. Videkov Materials Today Proceedings 54 (2022) 57-62
89	*An investigation of chemical and electrochemical conversion of SILAR grown Mn_3O_4 thin films into MnO_2* Mangesh A. Desai, Amol S. Vedpathak, Abhishekh R. Bhapkar, Ganesh D. Saratale and **Shrikrishna D. Sartale*** Journal of Environmental Management 299 (2021) 113564 : 1-9
88	*Structural correlation with the electrochemical properties of carbon nano-spheres/polyaniline nanocomposite films* Rashmi S. Adoor, Narasimha.H. Ayachit, Sushant A. Haladkar, **Srikrishna Saratale**, Mangesh Desai & Kishor Upadhyaya Polymer Bulletin 79 (2022) 1669-1677
87	*SILAR Grown K^+ and Na^+ Ions Preinserted MnO_2 Nanostructures for Supercapacitor Applications: A Comparative Study* Mangesh A. Desai, Aditi Kulkarni, Girish Gund, and **Shrikrishna D. Sartale*** Energy Fuels 35 (2021) 4577-4586
86	*Photoelectrochemical performance of MWCNT–Ag–ZnO ternary hybrid: a study of Ag loading and MWCNT garnishing* Mangesh A. Desai, Vidhika Sharma, Mohit Prasad, Girish Gund, Sandesh R. Jadkar, and **Shrikrishna D. Sartale*** Journal of Materials Science 56 (2021) 8627-8642
85	*Superior Supercapacitive Performance of Grass-like CuO Thin Films Deposited by Liquid Phase Deposition Technique* Shreelekha N. Khatavkar and **Shrikrishna D. Sartale*** New Journal of Chemistry 44 (2020) 6778-6790
84	*Seed-Layer-Free Deposition of Well-Oriented ZnO Nanorods thin films by SILAR and Their Photoelectrochemical Studies* Mangesh A. Desai, Vidhika Sharma, Mohit Prasad, Sandesh R. Jadkar, Ganesh D. Saratale and **Shrikrishna D. Sartale*** International Journal of Hydrogen Energy 45 (2020) 5783-5792
83	*Recent Developments in nickel based electrocatalysts for ethanol electrooxidation* Akshay Nandkishor Vyas, Ganesh D. Saratale and **Shrikrishna Dattatraya Sartale*** International Journal of Hydrogen Energy 45 (2020) 5928-5947
82	*Nickel nanoparticles grown by successive ionic layer adsorption and reaction method for ethanol electrooxidation and electrochemical quartz crystal microbalance study* Akshay Nandkishor Vyas, Mangesh Appasaheb Desai, Deodatta Moreshwar Phase, Rijuta Ganesh Saratale, Jalindar Dnyandeo Ambekar, Bharat Bhanudas Kale, Habib Mohiddin Pathan and **Shrikrishna Dattatraya Sartale***

	New Journal of Chemistry 43 (2019) 2955-2965
81	*An efficient fabrication of ZnO-Carbon Nanocomposites withenhanced photocatalytic activity and superior photostability* Santosh B. Babara, Nana L. Gavade, Dhanaji P. Bhopate, Abhijit. N. Kadam, Sanjay B. Kokane, **Shrikrishna D. Sartale**, Anna Gophane, Kalyanrao M. Garadkar and Vijaykumar M. Bhuse Journal of Materials Science: Materials in Electronics 33 (2019) 1133-1147
80	*α-Fe_2O_3 thin film on stainless steel mesh: A flexible electrode for supercapacitor* Shreelekha N. Khatavkar and **Shrikrishna D. Sartale*** Materials Chemistry and Physics 225 (2019) 284-291.
79	*Zinc oxide superstructures: Recent synthesis approaches and application for hydrogen production via photoelectrochemical water splitting* Mangesh A. Desai, Akshay N. Vyas, Ganesh D. Saratale and **Shrikrishna D. Sartale*** International Journal of Hydrogen Energy 44 (2019) 2091-2127
78	*Magnetic interactions and electrical properties of Tb^{3+} substituted NiCuZn ferrites* S. M. Kabbur, S. D. Waghmare, D. Y. Nadargi, **S. D. Sartale**, R. C. Kambale, U. R. Ghodake, S. S. Suryavanshi Journal of Magnetism and Magnetic Materials 473 (2019) 99-108
77	*Investigating functional groups in GO and r-GO through spectroscopic tools and effect on optical properties* Swapnil J. Rajoba, **Shrikrishna D. Sartale**, Lata D. Jadhav Optik - International Journal for Light and Electron Optics 175 (2018) 312–318
76	*SILAR grown Ag nanoparticles as an efficient large area SERS substrate* Imran M. Shaikh and **S. D. Sartale** Journal of Raman Spectroscopy 49 (2018) 1274-1287
75	*Assessment of Ecologically Prepared Carbon-Nano-Sphere for Fabrication of Flexible and Durable Supercell Device* Sushant Arun Haladkar, Mangesh A. Desai, **Shrikrishna Dattatraya Sartale,** Prashant S. Alegaonkar Journal of Materials Chemistry A16 (2018) 7246-7256
74	*Cadmium Sulfide coated zinc oxide photoelectrode: Preparation and characterization* R. V. Ingale, A. T. Supekar, **S. D. Sartale**, P. K. Baviskar and H. M. Pathan Optik - International Journal for Light and Electron Optics161 (2018) 166-171
73	*Magnetic, Electric and Optical Properties of Mg-Substituted Ni-Cu-Zn Ferrites* S.M. Kabbur, U.R. Ghodake, Rahul C. Kambale, **S.D. Sartale**, L.P. Chikhale, S.S. Suryavanshi, Journal of Electronic Materials, 46 (2017) 5693-5704
72	*α-Fe_2O_3 Thin Films by Liquid Phase Deposition: Low Cost Option for Supercapacitor* S. N. Khatavkar, **S. D. Sartale*** Journal of Solid State Electrochemistry21 (2017) 2555-2566
71	*Photocatalytic degradation of methylene blue by hydrothermally synthesized CZTS nanoparticles* Shilpa A. Phaltane, S. A. Vanalakar, T. S. Bhat, P. S. Patil, **S.D. Sartale**, L. D. Kadam Journal of Materials Science: Materials in Electronics, 28 (2017) 8186-8191
70	*Architecture of 3D $ZnCo_2O_4$ marigold flowers: Influence of annealing on cold emission and photocatalytic behavior*

	Sanjay B. Kokane, Sachin B. Suryavanshi, R. Sasikala, Mahendra A. More and **Shrikrishna. D. Sartale***, Materials Chemistry Physics 194 (2017) 55-64
69	*In_2S_3 nanoparticles on gC_3N_4 sheet heterojunction: photoinduced charge transfer and photoelectrochemical performance* Sanjay B. Kokane, D, M. Phase, R. Sasikala, and **S. D. Sartale***, Journal of Materials Science52 (2017) 7077-7090
68	*SILAR deposited porous polyaniline-titanium oxide composite thin film for supercapacitor application* P. R. Deshmukh, S. V. Patil, R. N. Bulakhe, **S. D. Sartale** and C. D. Lokhande, Materials Today Communication 8 (2016) 205-213
67	*Narrow size distributed Ag nanoparticles grown by spin coating and thermal reduction: effect of processing parameters* A. A. Ansari, **S. D. Sartale*** Materials research Express 3 (2016) 085023
66	*Synthesis of Zinc Ferrite Nanoparticles by Mechanochemical Method* Somnath R. Bhopale, **S. D. Sartale*** Advanced Science Letters 22 (2016) 839-842
65	*Zinc Oxide Thin Films: Nanoflakes to Spongy Balls via Seed Layer* Mangesh A. Desai, **S. D. Sartale*** Advanced Science Letters 22 (2016) 880-883
64	*The Calculation of Electronic Parameters of Al/TiO_2/p-Si MOS Structure Formed Using TiO_2 Thin Films Grown by Thermal Oxidation of Sputtered Ti Films* A. A. Ansari, **S. D. Sartale*** Advanced Science Letters 22 (2016) 1013-1016
63	*Polythiophene-carbon nanotubes composites as energy storage materials for supercapacitor application* A. K. Thakur, R. B. Choudhary, **S. D. Sartale**, and Mangesh Desai AIP Conference Proceedings 1728 (2016) 020030
62	*Dodecyl benzene sulfonic acid (DBSA) doped polypyrrole (PPy) films: Synthesis, structural, morphological, gas sensing and impedance study*, A.T. Mane, **S. D. Sartale** and V.B. Patil Journal of Materials Science: Materials in Electronics 26 (2015) 8497-8506
61	*Effect of processing parameters on size, density and oxygen reduction reaction (ORR) activity of Pd nanoparticles grown by spin coating*, A. A. Ansari, **S. D. Sartale*** Surface Coating Technology281 (2015) 68-75
60	*A facile soft solution route to engineer hierarchical morphologies of ZnO nanostructures*, M. A. Desai, **S. D. Sartale*** Crystal Growth Design15 (2015) 4813-4820
59	*Photocatalytic performance of Pd decorated TiO_2-CdO composite: role of in situ formed CdS in the photocatalytic activity*, Sanjay B. Kokane, **S. D. Sartale***, K. G. Girija, Jagannath and R. Sasikala International Journal of Hydrogen Energy40(2015) 13431-13442
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Talks/Presentation at Conferences/Workshops:

1. Growth of metal nanoparticles: SERS and nanocatalysis applications, **S. D. Sartale,** Rani Chenamma University, Belgavi, India April 05, 2022 **(INVITED TALK)**
2. Enhancement in Raman Signal for trace detection of pollutant and food adulterants, **S. D. Sartale,** National Webinar on "Novel Molecules & Materials for current Societal Needs" (NMMCSN-2021), Indira Gandhi Institute of Technology, Sarang, Dhenkanal, Odisha, September 3-5, 2021 **(INVITED TALK).**
3. Nanomaterials as sensors for trace detection by using surface enhanced Raman spectroscopy, **S. D. Sartale,** AICTE - ISTE Sponsored One Week Online Refresher Program "Recent Development in Advanced Materials" G H Raisoni College of Engineering & Management, Pune, April 5-10, 2021 **(INVITED TALK).**
4. Nanomaterials for environment and energy applications, **S. D. Sartale,** One Day National Conference on 'Advances in Functional Materials-2021, MAEER's MIT College of Railway Engineering and Research, Barshi, March 16, 2021 **(INVITED TALK)**
5. Role of nanomaterials in SERS, **S. D. Sartale,** AICTE Sponsored One Week Short Term Training program on "Nanotechnology, Science and Applications" at Rajarshi Shahu College of Engineering, Kolhapur October 26-31, 2020 **(INVITED TALK).**
6. Surface enhanced Raman scattering**, S. D. Sartale,** International Web-seminar on Recent trends in nanostructured materials-based devices and their applications, D. P. Bhosale College, Koregaon, July 18, 2020 **(INVITED TALK)**
7. Surface Enhanced Raman Scattering Spectorcopy: Understanding and Application, **S. D. Sartale,** Two Day International Webinar on Advanced Materials for Functional and Substantial Application, S. M. Joshi College, Hadapsar, Pune, June 29-30, 2020 **(INVITED TALK)**
8. Importance of noble metals in SERS detection, **S. D. Sartale,** National online seminar on Advanced Materials and Their Applications, Rajashri Chhatrapati Shahu College, Kolhapur, June 19, 2020 **(INVITED TALK)**
9. Surface Enhanced Raman Spectroscopy, **S. D. Sartale,** Recent Trends in Applied Physics, Yashvantrao Chavan Institute of Science, Satara, India, February 06, 2020 **(INVITED TALK).**
10. Research Ethics, **S. D. Sartale**, IQAC sponsored State Level Workshop on "Intellectual Property Rights (IPR)", D. P. Bhosale College, Koregaon, April 04, 2019 **(CHIEF GUEST & INVITED RESOURCE PERSON)**
11. Trace detection of adulterant and pollutant by surface enhanced Raman spectroscopy, **S. D. Sartale**, One-day national seminar on Advanced Nano-materials and Nanotechnology, Karmaveer Bhaurao Patil College, Vashi, Navi Mumbai, January 11, 2019 **(INVITED TALK)**
12. Post Graduate Physics Laboratory Experiments, **S. D. Sartale**, Two-Day State Level Workshop on "Laboratory Experiments in Physics", Ahmednagar College, Ahmednagar, January 11-12, 2019 **(INVITED RESOURCE PERSON)**
13. Trace detection of food adulterant and industrial pollutant using Ag nanostructures SERS substrate, **S. D. Sartale**, 1st International Conference on Materials and Environmental Science [ICMES-2018], Shivaji University, Kolhapur, India, December 07-08, 2018, **(INVITED TALK)**
14. Trace detection of food adulterant and industrial pollutant using Ag nanostructures SERSsubstrate, **S. D. Ssartale**, 1st International Conference on Materials and

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15. Raman Scattering, S. D. Sartale, Refresher Course in Science 'Recent Innovative Trends of Nanomaterials in Chemical, Biological and Physical Sciences', Modern College of Arts, Science & Commerce, Pune, October 11, 2018 (**INVITED RESOURCE PERSON**)
16. Scanning Probe Microscopy, S. D. Sartale, Refresher Course in Science 'Recent Innovative Trends of Nanomaterials in Chemical, Biological and Physical Sciences', Modern College of Arts, Science & Commerce, Pune, October 12, 2018 (**INVITED RESOURCE PERSON**)
17. Nanoscience Nanotechnology and Catalysis, **S. D. Sartale**, National Seminar on New Nano Materials, Devices, Technology & Applications in Physics and Electronics (NNMDTA – 2018), Shri Shivaji Mahavidyalaya, Barshi, January 24, 2018 (**INVITED TALK**)
18. Electrochemical Deposition, **S. D. Sartale**, Two Days State Level Workshop Two Days on "Functional Materials" (Hands on Training), Vidya Pratishthan's Arts Science & Commerce College, Baramati, January 05-06, 2018 (**INVITED RESOURCE PERSON**)
19. Understanding and Developing Nanostructured Materials for Energy Applications, **S. D. Sartale**, National Level Seminar on Recent Trends in Synthesis and Applications of Nanomaterials (RTSAN-2017), Dada Patil College, Karjat, Ahmadnagar India, December 08, 2017 (**INVITED TALK**)
20. International Conference on Nanotechnology addressing the convergence of Materials Sciece, Biotechnology and Medical Science, D. Y. Patil Education Society (deemed to be University), Kolhapur, November 9-11, 2017 (**Chaired Oral Presentation Session**)
21. Applications of metal nanoparticles in Surface Enhanced Raman Scattering and Catalysis, **S. D. Sartale**, National Seminar on Nano Science and Nano Technology 2017, Sadguru Gadage Maharaj College, Karad, India, February 11, 2017 (**INVITED TALK**)
22. Nanoscience and Nanotechnology in Catalysis, NANOWORLD event, Yashvantrao Chavan Institute of Science, Satara, India, February 01, 2017 (**INVITED RESOURCE PERSON**).
23. SILAR: An effective method for deposition of nickel metal electrode, Akshay N. Vyas and **S. D. Sartale***, International Conference on Nanoscience and Technology, Indian Institute of Science, Education and Research, Pune, India, February 29 – March 02, 2016 (**POSTER PRESENTATION**)
24. Photocatalytic activity of Mechanochemical synthesized ZnS nanoparticles for Hydrogen production and Methylene blue degradation, Mohini Nashikkar, Sanjay B. Kokane, R.Sasikala, **S. D. Sartale***, International Conference on Nanoscience and Technology, Indian Institute of Science, Education and Research, Pune, India, February 29 – March 02, 2016 (**POSTER PRESENTATION**)
25. Coverage dependent SERS activity of R6G using SILAR grown silver nanoparticulate thin films, Imran M. Shaikh and **S. D. Sartale***, International Conference on Nanoscience and Technology, Indian Institute of Science, Education and Research, Pune, India, February 29 – March 02, 2016 (**POSTER PRESENTATION**)
26. Understanding and developing nanostructured materials for energy applications, **S. D. Sartale**, National Seminar on Non-conventional sources of Energy, D. P. Bhosale College, Koregaon, India February 13, 2016 (**INVITED TALK**)
27. Growth of monodispersed metal nanoparticles for fuel cells applications, **S. D. Sartale**, National Conference on Materials for Energy Conversion and Storage,

Mahatama Phule Mahavidyalaya, Pimpri, India, February 12-13, 2016 (**INVITED TALK**)

28. Mechanochemical synthesis of zinc ferrite nanoparticles with help of H_2O_2, Somnath R. Bhopale, **S. D. Sartale***, Raman Memorial Conference, Department of Physics, Savitribai Phule Pune University, Pune (**ORAL PRESENTATION**)
29. Supercapacitive performance of a α-Fe2O3 thin films deposited by liquid phase deposition, Shreelekha N. Khatavkar, **S. D. Sartale***, Raman Memorial Conference, Department of Physics, Savitribai Phule Pune University, Pune (**ORAL PRESENTATION**)
30. Enhanced photocatalytic activity of gC3N4/In2S3 nanocomposite for Rhodamine B dye degradation, Sanjay B. Kokane, R. Sasikala, **S. D. Sartale***, Raman Memorial Conference, Department of Physics, Savitribai Phule Pune University, Pune (**ORAL PRESENTATION**)
31. Synthesis of nanocrystalline cadmium sulfide by chemical route and their optical properties, R. V. Ingale, **S. D. Sartale**, H. M. Pathan*****, Raman Memorial Conference, Department of Physics, Savitribai Phule Pune University, Pune (**ORAL PRESENTATION**)
32. Deposition and characterization of CdS thin films by spin-SILAR method, Swamini A. Zaware, **S. D. Sartale***, Raman Memorial Conference, Department of Physics, Savitribai Phule Pune University, Pune (**POSTER PRESENTATION**)
33. Mechanochemical synthesis of ZnS nanoparticles and photocatalytic activity for dye degradation under UV light irradiation, Mohini Nashikkar, **S. D. Sartale***, Raman Memorial Conference, Department of Physics, Savitribai Phule Pune University, Pune (**POSTER PRESENTATION**)
34. Enhanced supercapacitive performance of metal oxide decorated of ZnO nanostructures , Mangesh A. Desai, **S. D. Sartale***, International Conference on Materials Science and Ionizing Radiation Safety & Awareness, Shivaji University, Kolhapur, January 28-30, 2016 (**POSTER PRESENTATION**)
35. Understanding of the growth of Cadmium Zinc Sulfide Thin Films by Chemical Bath Deposition Method, Mangesh A. Desai, **S. D. Sartale***, International Conference on Materials Science and Ionizing Radiation Safety & Awareness, Shivaji University, Kolhapur, January 28-30, 2016 (**POSTER PRESENTATION**)
36. Nanostructured materials for environmental applications, **S. D. Sartale**, Humboldt Kolleg on Sustainable development: Mega Trends of the 21st Century, Goa, Nov. 19-21, 2015 (**ORAL PRESENTATION**)
37. Studies on SILAR deposited metal nanoparticles thin films, **S. D. Sartale**, Regional Research Conference INNOVATION – 2015 for Savitribai Phule Pune University Department Teachers in the subject Physics, Savitribai Phule Pune University, Pune, India August 13, 2015 (**ORAL PRESENTATION**).
38. Studies on Spin Coating of Metal Nanoparticles on Flat Support for Catalytic Applications, A. A. Ansari, **S. D. Sartale***, International Photovoltaic Solar Energy Conference (Solar Asia - 2015), July 30 – August 01, 2015, Savitribai Phule Pune University, Pune, India (**THESIS ORAL PRESENTATION**)
39. Use of ultrasonication to tune the size of SILAR grown silver nanoparticles for Surface Enhanced Raman Scattering (SERS) studies, Imran M. Shaikh, Akshay N. Vyas and **S. D. Sartale***, International Photovoltaic Solar Energy Conference (Solar Asia - 2015), July 30 – August 01, 2015, Savitribai Phule Pune University, Pune, India (**POSTER PRESENTATION**)
40. Deposition of cadmium sulfide (CdS) thin films using novel CBD for photovoltaic applications: effect of cadmium salts, Mangesh A. Desai, **S. D. Sartale*,** International

Photovoltaic Solar Energy Conference (Solar Asia - 2015), July 30 – August 01, 2015, Savitribai Phule Pune University, Pune, India (**POSTER PRESENTATION**)

41. Mechanochemical synthesis of ZnS nanoparticles and photocatalytic activity for H2 production by water splitting, Mohini Nashikkar, Sanjay B. Kokane, R.Sasikala, **S. D. Sartale***, International Photovoltaic Solar Energy Conference (Solar Asia - 2015), July 30 – August 01, 2015, Savitribai Phule Pune University, Pune, India (**POSTER PRESENTATION**)
42. Improved photocurrent efficiency of In_2S_3 nanoparticles coupled with C_3N_4 sheet, Sanjay B. Kokane, R. Sasikala and **S. D. Sartale***, International Photovoltaic Solar Energy Conference (Solar Asia - 2015), July 30 – August 01, 2015, Savitribai Phule Pune University, Pune, India (**ORAL PRESENTATION**)
43. α-Fe_2O_3 Thin Films by LPD: A Good Option for Supercapacitor, Shreelekha N. Khatavkar, **S. D. Sartale***, International Photovoltaic Solar Energy Conference (Solar Asia - 2015), July 30 – August 01, 2015, Savitribai Phule Pune University, Pune, India (**POSTER PRESENTATION**)
44. Fabrication of CdS/PbS thin film solar cell by spin-SILAR method, Swamini A. Zaware and **S. D. Sartale***, International Photovoltaic Solar Energy Conference (Solar Asia - 2015), July 30 – August 01, 2015, Savitribai Phule Pune University, Pune, India (**POSTER PRESENTATION**)
45. Model Catalytic systems, **S. D. Sartale**, Refresher Course (July 02-22, 2015) with the theme Experimental Physics, Department of Physics, Savitribai Phule Pune University, July 10, 2015 (**INVITED TALK**).
46. Scanning Probe Microscopy, **S. D. Sartale**, Summer School, Department of Physics, Savitribai Phule Pune University, June 03, 2015 (**RESOURCE PERSON**)
47. Investigation of electronic properties of TiO_2 thin films, A. A. Ansari and **S. D. Sartale***, 3rd International Conference NANOCON 2014 Smart Materials, Composites, Applications and New Inventions, Bharati Vidyapeeth, Pune, India, October 14-15, 2014 (**Oral Presentation**). Synthesis of zinc ferrite nanoparticles by mechanochemical method, S. R. Bhopale and **S. D. Sartale***, 3rd International Conference NANOCON 2014 Smart Materials, Composites, Applications and New Inventions, Bharati Vidyapeeth, Pune, India, October 14-15, 2014 (**Oral Presentation**).
48. Zinc oxide thin films: nanoflakes to spongy balls via seed layer, M. A. Desai and **S. D. Sartale***, 3rd International Conference NANOCON 2014 Smart Materials, Composites, Applications and New Inventions, Bharati Vidyapeeth, Pune, India, October 14-15, 2014 (Oral Presentation).
49. Titania based nanocomposites for efficient photoctalytic hydrogen production, S. B. Kokane, R. Sasikal and **S. D. Sartale***, 3rd International Conference NANOCON 2014 Smart Materials, Composites, Applications and New Inventions, Bharati Vidyapeeth, Pune, India, October 14-15, 2014 (Oral Presentation).
50. Facile way for deposition of CdS nanoflakes , Mangesh A. Desai, **S. D. Sartale***, National Conference on Materials for Future Technolgy, Rajaram College, Kolhapur, India, September 26-27, 2014 (Poster Presentation).
51. A Novel way to grow monodispersed Metal Nanoparticles on flat support, A. A. Ansari, **S. D. Sartale***, National Conference on Materials for Future Technology, Rajaram College, Kolhapur, India, September 26-27, 2014 (**POSTER PRESENTATION**).
52. Synthesis of zinc ferrite nanoparticles by ball milling method, Somnath R. Bhopale, **S. D. Sartale***, National Conference on Materials for Future Technology, Rajaram College, Kolhapur, India, September 26-27, 2014 (**POSTER PRESENTATION**).

53. Modified chemical method for the deposition of nanocrystalline nickel thin films, Akshay N. Vyas and **S. D. Sartale***, National Conference on Recent Trends in Physics, Yashvantrao Chavan Institute of Science, Satara, India, October 10-11, 2014 (**POSTER PRESENTATION**).
54. Quartz crystal microbalance study of Cadmium Sulfide nanoflakes, Mangesh A. Desai and **S. D. Sartale***, National Conference on Recent Trends in Physics, Yashvantrao Chavan Institute of Science, Satara, India, October 10-11, 2014 (**ORAL PRESENTATION**).
55. Improved photocatalytic activity of Pd-TiO2-CdO nanocomposite by extending the lifetime of photoexcited charge carriers, Sanjay B. Kokane, **S. D. Sartale***, R. Sasikal, National Conference on Recent Trends in Physics, Yashvantrao Chavan Institute of Science, Satara, India, October 10-11, 2014 (**POSTER PRESENTATION**).
56. Mechanochemical synthesis of zinc ferrite nanoparticles, Somnath R. Bhopale, **S. D. Sartale***, National Conference on Recent Trends in Physics, Yashvantrao Chavan Institute of Science, Satara, India, October 10-11, 2014 (**POSTER PRESENTATION**).
57. Mahamrutunjay Mantra: useful for synthesis of silver nanoparticles, National Conference on Ancient Science and Technology: Retrospection and Aspirations, Fergusson College, Pune, India, January 10-11, 2015 (**POSTER PRESENTATION**).
58. Growth of Metal Nano particles of different size by low cost process, **S. D. Sartale**, National Seminar on Challenges in the Quest for clean energies, S. S. Arts College & T. P. Science Institute Sankeshwar, Karnataka, India February 27-28, 2015 (**INVITED TALK**).
59. Cost effective processes to metal chalcogenide nanostructures, **S. D. Sartale**, National Conference on Chemistry of Chalcogenes and Related Topics, Defence Institute of Advanced Technology (DU), Pune, India, January 12-13, 2015 (**INVITED TALK**).
60. "Growth of supported Pd nanoparticles", A. A. Ansari, **S. D. Sartale**, 1st National Conference on Energy and Environment, University of Pune, Pune, India February 20-22, 2014 (**POSTER PRESENTATIONS**).
61. "Effect of low temperature TiCl4 treatment of ZnO photoanode for dye sensitized solar cells" S. S. Khadtare, A. A. Ansari, **S. D. Sartale**, S. R. Jadkar, H. M. Pathan, 1st National Conference on Energy and Environment, University of Pune, Pune, India February 20-22, 2014 (**POSTER PRESENTATIONS**).
62. "Deposition of hematite thin films useful for photo-conversion" S. N. Khatavkar, **S. D. Sartale**, 1st National Conference on Energy and Environment, University of Pune, Pune, India February 20-22, 2014 (**POSTER PRESENTATIONS**).
63. "Room temperature synthesis of deposition of CdS nanoflakes" M. A. Desai, N. Saykar, **S. D. Sartale**, 1st National Conference on Energy and Environment, University of Pune, Pune, India February 20-22, 2014 (**POSTER PRESENTATIONS**).
64. "Efficient hydrogen production from SrIn2O4-TiO2 composite under visible light" S. B. Kokane, B. T. Padekar, **S. D. Sartale**, R. Sasikala, 1st National Conference on Energy and Environment, University of Pune, Pune, India February 20-22, 2014 (**POSTER PRESENTATIONS**).
65. "Metal Nanoparticle grown on flat support as model catalyst" **S. D. Sartale**, 5th Humboldt Kolleg On "Surface Science and Engineered Surfaces", Convention Centre Lavasa, Pune, February 14-15, 2014 (**INVITED SPEAKER**).
66. "Growth of monodispersed metal nanoparticles for fuel cells" **S. D. Sartale**, National Conference on Recent Trends and Issues in Renewable Energy, Rajarshi Chhatrapati Shahu College, Kolhapur, India, January 27-28, 2014 (**INVITED TALK**).

67. "Facile synthesis of nanomaterials for energy applications" **S. D. Sartale**, International Conference on "Innovations in Energy, Polymer and Environmental Science", Yashvantrao Chavan Institute of Science, Satara, India January 10-12, 2014 (**INVITED TALK**).
68. "Crack free alumina thin films by spin coating" S. R. Bhopale, **S. D. Sartale**, International Conference on "Innovations in Energy, Polymer and Environmental Science", Yashvantrao Chavan Institute of Science, Satara, India January 10-12, 2014 (**POSTER PRESENTATION**).
69. "Enhanced photocatalytic hydrogen production of SrIn2O4-TiO2 composite" S. B. Kokane, **S. D. Sartale**, International Conference on "Innovations in Energy, Polymer and Environmental Science", Yashvantrao Chavan Institute of Science, Satara, India January 10-12, 2014 (**POSTER PRESENTATION**).
70. "Gold nanoparticles incorporated ZnO photoanode for dye sensitized solar cells", S. S. Khadtare, A. A. Ansari, S. R. Jadkar, **S. D. Sartale**, H. M. Pathan, International Conference on "Innovations in Energy, Polymer and Environmental Science", Yashvantrao Chavan Institute of Science, Satara, India January 10-12, 2014 (**POSTER PRESENTATION**).
71. "Growth of Monodispersed Metal Nanoparticles by Spin Coating" **S. D. Sartale**, National Conference on Physics and Chemistry of Advanced Materials, C. B. Khedgi's Basaveshwar Science, Raja Vijaysinh Commerce & Raja Jaysinh Arts College, Akkalkot, Solapur, India, December 18-19, 2013 (**INVITED TALK**)
72. "Low cost methods to develop model systems for understanding catalysis" **S. D. Sartale**, National Conference on "Emerging Trends & Techniques in Chemistry", Yashvantrao Chavan Institute of Science, Satara, India, October 10-12, 2013 (**INVITED TALK**).
73. Novel chemical method for deposition of CdS nanoflakes at room temperature, M. A. Desai, **S. D. Sartale**, International Workshop on Nanotechnology & Advanced Functional Materials, National Chemical Laboratory, Pune, India, July 24-25, 2013 (**POSTER PRESENTATION**).
74. A facile method to grow supported Ag nanoparticles, A. A. Ansari, **S. D. Sartale**, International Workshop on Nanotechnology & Advanced Functional Materials, National Chemical Laboratory, Pune, India, July 24-25, 2013 (**POSTER PRESENTATION**).
75. Synthesis and characterization of CdO/TiO_2 nanocomposite photocatalysts and its photocatalytic activity, S. B. Kokane, **S. D. Sartale**, R. Sasikala, International Workshop on Nanotechnology & Advanced Functional Materials, National Chemical Laboratory, Pune, India, July 24-25, 2013 (**POSTER PRESENTATION**).
76. Deposition of MoS_2 thin films using layer by layer deposition method, A. N. Vyas, **S. D. Sartale**, International Workshop on Nanotechnology & Advanced Functional Materials, National Chemical Laboratory, Pune, India, July 24-25, 2013 (**POSTER PRESENTATION**).
77. Formation of iron oxide films via liquid phase deposition method, S. Khatavkar, **S. D. Sartale**, International Workshop on Nanotechnology & Advanced Functional Materials, National Chemical Laboratory, Pune, India, July 24-25, 2013 (**POSTER PRESENTATION**).
78. "Scanning Probe Microscopy: a versatile tool in nanotechnology" **S. D. Sartale**, National Seminar on "Advances in Nano-structured Materials and their Applications", C. H. C. Arts, S. G. P. Commerce and B. B. J. P. Science College, Taloda, Nadurbar, India Januray 22-23, 2013 (**INVITED TALK**)
79. "Growth of Ag nanoparticles by spin coating", **S.D. Sartale**, A. A. Ansari, Nannocon 012, 2nd International Conference on Nanotechnology-Innovative Materials, Processes,

Products and Applications, Bharati Vidyapeeth, Pune, October 18-19, 2012 (**ORAL PRESENTATION**)

80. "Cost effective methods useful for catalytic investigations"**S. D. Sartale**, National Conference on Recent Trends in Nanotechnology, Vivekanand College, Kolhapur, India, December 14-15, 2012 (**INVITED TALK**).
81. "Chemical synthesis of nanocrystalline ceria thin films and powders", **S. D. Sartale**, INNOVATION – 2012 Regional Research Conference, May 21, 2012, Department of Physics, University of Pune (**ORAL PRESENTATION**).
82. Quantum dots SnO_2 films: deposition using spin coating, optimization and their physical properties, K. R. Gbashi, F. M. D. Attar, A. A. Ansari, **S. D. Sartale**, H. M. Pathan. 1st International Conference on Functional Materials for Defence, May 18- 20, 2012, Defence Institute of Advanced Technology (DIAT), Pune, India (**POSTER PRESENTATION**).
83. "How to prepare NET/SET examination in Physics" **S. D. Sartale**, One Day Workshop on "NET/SET Examination Guidance", March 12, 2012, Yashvantrao Chavan Institute of Science, Satara, India (**INVITED RESOURCE PERSON).**
84. "Control over Crack Formation by Spin Coating", A. A. Ansari, **S. D. Sartale** 1st International Symposium on Physics and Technology of Sensors, March 8-10, 2012, YASHADA Auditorium, Pune, India (**POSTER PRESENTATION**).
85. **"**Opportunities in Nanoscience and Nanotechnology**" S. D. Sartale,** Department Activity on Recent Trends in Science and Technology, March 6, 2012, Mahatama Phule Mahavidyalaya, Pimpri, Pune, India (**INVITED RESOURCE PERSON).**
86. "TiO_2 thin film formation by spin coating: Effect of acceleration", A. A. Ansari, **S. D. Sartale**, Raman Memorial Conference, March 2-3, 2012, Department of Physics, University of Pune, Pune, India (**ORAL PRESENTATION**).
87. "Nanotechnology in Catalysis",**S. D. Sartale**, National workshop on nanoscience and nanotechnology (MWNST), January 6-7, 2012, MIT College of Engineering, Pune (**INVITED TALK**).
88. "Nanotechnology" **S. D. Sartale**, Rotary Club of Pune Riverside morning meeting, December 13, 2011, (**INVITED TALK**).
89. "Effect of Ultrasonication on Properties of Sequential Layer Deposited Nanocrystalline Silver Thin Films", Ashwini B. Rohom, **S. D. Sartale**, 56th DAE SSPS 2011, December 19-13, 2011 SRM University, Tamilnadu, India (**POSTER PRESENTATION**).
90. "Effect of oxidizing agents in CeO_2 Film formation", S. M.Yadav, **S. D. Sartale**, 56th DAE SSPS 2011, December 19-13, 2011 SRM University, Tamilnadu, India (**POSTER PRESENTATION**).
91. "Model catalyst from UHV to ambient" **S. D. Sartale**, Humboldt Kolleg on Science Globalization and Human Development, November 11-13, 2011, Bagmola Beach Resort, Goa, India (**ORGANIZING COMMITTEE MEMBER AND ORAL PRESENTATION**).
92. "Studies on spin coated TiO_2 thin films", A. A. Ansari, **S. D. Sartale**, Seminar on synthesis and applications of functional materials (SAFM), September 23, 2011, National Defense Academy, Pune, India (**ORAL PRESENTATION**).
93. "Chemical deposition of CeO2 Films: effect of oxidizing agent", S. M. Yadav, **S. D. Sartale**, Seminar on synthesis and applications of functional materials (SAFM), September 23, 2011, National Defense Academy, Pune, India (**ORAL PRESENTATION**).
94. "Effect of deposition parameters on SILAR deposited silver thin films", A. B. Rohom, **S. D. Sartale**, Seminar on synthesis and applications of functional materials (SAFM),

September 23, 2011, National Defense Academy, Pune, India (**ORAL PRESENTATION**).