**Curriculum Vitae**





**Santosh S. Nandi**

**House Number-244/39, Tashildar Galli,**

**Belagavi, Karnataka-590001**

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**ORCiD:** <https://orcid.org/0000-0001-8609-2222>

**Scopus Author ID:** 57218248065

**GScholar:** <https://scholar.google.com/citations?user=4JFZZjEAAAAJ&hl=en>

**Web of Science Researcher ID:** ABG-8672-2022

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| **Objective:** |

 To pursue a challenging career and be part of a progressive organization that gives scope to enhance my knowledge, skills and to reach the pinnacle in the computing and research field with sheer determination, dedication and hard work.

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| **Research Areas:** |

 Functional Nanomaterials, Nanocomposites, Metal Organic Framework and their Electrical, Electronic, Optical Properties. Synthesis, Characterization of Organic Polymer Doping to Rare Earth Nanocomposite and Studying their Photovoltaic, Supercapacitor, Sensor, Photoluminescence Characteristics, gas storage, catalysis, luminescent materials, etc.

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| **Total Number of Experience:** |

Teaching Experience: 07 Years; R&D Experience: 06 Years.

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| **Educational Qualification:** |

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| **Course** | **Subjects/ Specialization** | **Institution** | **University/Board** | **Year of Passing & Percentage** |
| Ph.D. | Nanomaterials | Angadi Institute of Technology and Management, Belagavi | Visvesvaraya Technological University, Belagavi | March 2022 |
| B.Ed. | Physical Science | Shri Laxmanrao Jarkiholi College of Education, Gokak, Belagavi | Rani Chennamma University, Belagavi | January 2019(71.5 %) |
| M. Sc. | Organic Chemistry | Fergusson College, Pune. | Pune University, Pune | June 2014(64.5 %) |
| B. Sc. | CBG | G. S. Sc. College, Belagavi | Karnataka University Dharwad, Dharwad | May 2012(85.39 %) |
| PUC | PCMB | Bhartesh College of Science, Belagavi | Dept. of P.U. Education Board, Bengaluru | April 2009(52.45 %) |
| SSLC | Science & Mathematics | B.K. Model High School, Belagavi | K.S.E. Board, Bengaluru | March 2007(84.16 %) |

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| **Achievements:** |

* Received Gold medal in Geology graduation (B. Sc) from Karnataka University, Dharwad.
* Received Best Oral Award for a paper entitled “A Facile Synthesis of Poly (3-octyl thiophene): Ni0.4Sr0.6TiO3 Hybrid Nanocomposites for Solar Cell Applications” in Fourth International Conference on Advances in Material Science (ICAMS-2020) on 20-21 January 2020 organized by Post-Graduate Department of Physics, Raje Ramrao Mahavidyalaya, Jath- 416 404, Dist.-Sangli, Maharashtra, India

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| **Experience:** |

* Worked as Assistant Professor in Maratha Mandal Engineering College, Belagavi from 01/8/2014 to 30/07/2015
* Presently working as Assistant Professor in KLE Technological University’s Dr. M. S. Sheshgiri College of Engineering & Technology Belagavi from 01/08/2015

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| **Member of the Professional Bodies:** |

* Life Member of Indian Institute of Science
* Life Member of Indian Science and Technical Education
* Life Member of British Society for Nanomedicine
* Catalysis Society of India

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| **List of Papers Presented in International Conferences:** |

1. Presented paper entitled “A Facile Synthesis of Poly (3-octyl thiophene): Ni0.4Sr0.6TiO3 Hybrid Nanocomposites for Solar Cell Applications” in Fourth International Conference on Advances in Material Science (ICAMS-2020) on 20-21 January 2020 organized by Post-Graduate Department of Physics, Raje Ramrao Mahavidyalaya, Jath- 416 404, Dist.-Sangli, Maharashtra, India
2. Presented paper entitled “Synthesis, Impedance, and Current–Voltage Characteristics of Strontium-Manganese Titanate Hybrid Nanoparticles” in Fourth International Conference on Advances in Material Science (ICAMS-2020) on 20-21 January 2020 organized by Post-Graduate Department of Physics, Raje Ramrao Mahavidyalaya, Jath- 416 404, Dist.-Sangli, Maharashtra, India
3. Presented paper entitled “Synthesis, characterization and impedance studies of novel nanocomposites of gadolinium titanate” at Second International Conference on Materials Science and Manufacturing Technology (ICMSMT 2020) on 9th and 10th April 2020 at the Hotel Aloft, Coimbatore, Tamil Nadu, India
4. Presented paper entitled “Morphology, Fabrication, Co-precipitation Method of Synthesis Gd-Sb2O4 Nanostructures and their Application in High Performance Energy Storage Devices” in the International Conference on Nanoscience and Nanotechnology (ICONN 2021) organized by Department of Physics and Nanotechnology, SRM IST, India, during February 01 – 03, 2021, in association with Shizuoka University, Japan; National Chiao Tung University, Taiwan; GNS, New Zealand; University of Rome, Italy; RMIT University, Australia; Tata Institute of Fundamental Research and Springer Nature

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| **List of International Publications:** |

1. Vinayak Adimule, Anusha Suryavanshi, **Santosh S. Nandi**. Synthesis, characterization and impedance studies of novel nanocomposites of gadolinium titanate. IOP Conf. Series: Materials Science and Engineering 872 (2020) 012099. https://doi.org/10.1088/1757-899X/872/1/012099
2. Vinayak Adimule, Anusha Suryavanshi, Yallur BC, **Santosh S. Nandi**. A Facile Synthesis of Poly (3-octyl thiophene): Ni0.4Sr0.6TiO3 Hybrid Nanocomposites for Solar Cell Applications. Macromol. Symp. 2020, 392, 2000001. <https://doi.org/10.1002/> masy.202000001
3. Anusha Suryavanshi, Vinayak Adimule, **Santosh S. Nandi**. Synthesis, Impedance, and Current–Voltage Characteristics of Strontium-Manganese Titanate Hybrid Nanoparticles. Macromol. Symp. 2020, 392, 2000002. https://doi.org/10.1002/masy.202000002
4. **Santosh S. Nandi**, Anusha Suryavanshi, Vinayak Adimule, and Basappa C. Yallur. Fabrication of novel rare earth doped ionic perovskite nanomaterials of Sr0.5, Cu0.4, Y0.1 and Sr0.5 and Mn0.5 for high power efficient energy harvesting photovoltaic cells. AIP Conference Proceedings 2274, 020005 (2020). <https://doi.org/10.1063/5.0022450>
5. **Santosh S. Nandi**, Anusha Suryavanshi, Vinayak Adimule, and Sanjeev Reddy Maradur. Semiconductor current-voltage characteristics of some novel perovskite ionic nanocomposites of Sr0.5, Cu0.4, Y0.1 and Sr0.5, Mn0.5 and their electronic sensor applications. AIP Conference Proceedings 2274, 020006 (2020); https://doi.org/10.1063/5.0022453
6. **Santosh S. Nandi**, Anusha Suryavanshi, Vinayak Adimule, and Basappa C. Yallur. Super capacitor characteristics of novel rare earth perovskite nanomaterials of Sr0.5, Cu0.4, Y0.1. AIP Conference Proceedings 2274, 020007 (2020); https://doi.org/10.1063/5.0022454
7. Vinayak Adimule,R.G. Revaiah, **Santosh S Nandi**, Adarsha Haramballi Jagadeesha. Synthesis, Characterization of Cr Doped TeO2 Nanostructures and its Application as EGFET pH Sensor. Electroanalysis. 33(3), 579-590, 2021. <https://doi.org/10.1002/elan.202060329>
8. Adimule Vinayak, **Santosh S.** **Nandi**, Yallur BC, Bhowmik D, Jagadeesha AH. Optical, Structural and Photoluminescence Properties of Gd x SrO: CdO Nanostructures Synthesized by Co Precipitation Method. J Fluoresc. 2021 Mar;31(2):487-499. PMID: 33433819. https://doi.org/10.1007/s10895-021-02683-7
9. Vinayak Adimule, **Santosh S. Nandi**, B.C. Yallur, D. Bhowmik and A.H. Jagadeesh. Enhanced photoluminescence properties of Gd(x-1) Srx O: CdO nanocores and their study of optical, structural, and morphological characteristics. Mater. Today Chem. Volume 20, June 2021, 100438. <https://doi.org/10.1016/j.mtchem.2021.100438>
10. S. S. Kerur, Sneha Bandekar, Manjunath S. Hanagadakar, **Santosh S. Nandi**, G. M. Ratnamala and Prasad G. Hegde, Removal of hexavalent Chromium-Industry treated water and Wastewater: A review. Materials today proceedings. 42(2), 2021, 1112-1121. <https://doi.org/10.1016/j.matpr.2020.12.492>
11. Vinayak Adimule, **Santosh S. Nandi**, H.J. Adarsha. A Facile Synthesis of Cr Doped WO3 Nanostructures, Study of their Current-Voltage, Power Dissipation and Impedance Properties of Thin Films. J. Nano. R., (67) 33-42, May 2021. [https://doi.org/10.4028/www.scientific.net/ JNanoR.67.33](https://doi.org/10.4028/www.scientific.net/%20JNanoR.67.33)
12. Vinayak Adimule, **Santosh S. Nandi**, S. S. Kerur. Recent Advances in the One-Pot Synthesis of Coumarin Derivatives from Different Starting Materials Using Nanoparticles: A Review. Top Catal (2022). https://doi.org/10.1007/s11244-022-01571-z
13. Vinayak Adimule, S. S. Kerur, Sampath Chinnam, Basappa C. Yallur, **Santosh S. Nandi**, Guar Gum and its Nanocomposites as Prospective Materials for Miscellaneous Applications: A Short Review. Top Catal (2022). https://doi.org/10.1007/s11244-022-01587-5
14. Santosh Ashok Kadapure, Poonam Kadapure, **Santosh Nandi**, Anil Shet. Overview on catalyst and co-solvents for sustainable biodiesel production. Proceedings of the Institution of Civil Engineers. 1-9 (2022). https://doi.org/10.1680/jener.21.00092

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| **Patent:** |

1. **Australian Innovation Patent:** Vinayak Adimule, Basappa C. Yallur, **Santosh S. Nandi.** (2022). PROCESS FOR SYNTHESIZING Y-DOPED ZNO NANOPARTICLES AND FABRICATING GAS SENSOR FOR DETECTING AMMONIA.

**Patent Number:2021102726**

1. **Australian Innovation Patent:** Vinayak Adimule, Basappa C Yallur, Sheetal R Batakurki, Malathi, Challa, Manjunatha D. H, Ravi Sankannavar, Rajeev Joshi, Pallavi Gupta and **Santosh S Nandi.** Title of the invention : A PROCESS FOR SYNTHESIS OF CHROMIUM DOPED TELLURIUM DIOXIDE NANOSTRUCTURES FOR EGFET PH SENSOR APPLICATION

**Patent Number: 2021104485**

1. **Indian Patent:** Vinayak Adimule, Basappa C Yallur, Sheetal R Batakurki, Malathi Challa, Manjunatha D. H, Ravi Sankannavar, Gangadhar Bagihalli, **Santosh S Nandi**

Title of the invention: “A PROCESS FOR SYNTHESIZING POLY-3-BUTYL THIOPHENE DOPED ZRY2O3/ZRCOY2O3 NANOSTRUCTURES”

Date of Grant : 13/06/2022, **Patent Number: 398977.**

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| **Book Chapters:** |

1. Vinayak Adimule, **Santosh S. Nandi,** Jagadeesha Gowda A.H. (2021) Enhanced Power Conversion Efficiency of the P3BT (Poly-3-Butyl Thiophene) Doped Nanocomposites of Gd-TiO3 as Working Electrode. In: Pawar P.M., Balasubramaniam R., Ronge B.P., Salunkhe S.B., Vibhute A.S., Melinamath B. (eds) Techno-Societal 2020. Springer, Cham. <https://doi.org/10.1007/978-3-030-69925-3_6>
2. Vinayak Adimule, **Santosh S. Nandi,** Jagadeesha Gowda A.H. (2021) A Facile Synthesis of Gadolinium Titanate (GdTiO3) Nanomaterial and Its Effect in Enhanced Current-Voltage Characteristics of Thin Films. In: Pawar P.M., Balasubramaniam R., Ronge B.P., Salunkhe S.B., Vibhute A.S., Melinamath B. (eds) Techno-Societal 2020. Springer, Cham. <https://doi.org/10.1007/978-3-030-69925-3_7>
3. Vinayak Adimule, **Santosh S. Nandi,** Basappa Yallur, Nilofer Shaikh. CNT/Graphene-Assisted Flexible thin-film preparation for stretchable electronics and superconductors. In Sensors for Stretchable Electronics in Nanotechnology, CRC Press. 2021:89-103. https://doi.org/10.1201/ 9781003123781
4. Vinayak Adimule, Basappa C. Yallur, Debdas Bhowmik and **Santosh S. Nandi.** A Modified Nanostructured Gd-WO3, Sensing Interface Morphology, their Voltammetric Determination and Applications in Advanced Energy Storage Devices. Voltammetry for Sensing App. 2022:134-157. [https://doi.org/10.2174/ 97898150397191220 10007](https://doi.org/10.2174/%2097898150397191220%2010007)
5. Vinayak Adimule, **Santosh S.** **Nandi,** Yallur, B.C. (2022). Devices and Sensors Based on Additively Manufactured Shape-Memory of Hybrid Nanocomposites. In: Maurya, M.R., Sadasivuni, K.K., Cabibihan, JJ., Ahmad, S., Kazim, S. (eds) Shape Memory Composites Based on Polymers and Metals for 4D Printing. Springer, Cham. https://doi.org/10.1007/978-3-030-94114-7\_15

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| **Reviewer for Journals:** |

1. Topics in Catalysis, Springer Nature
2. Polymer Bulletin, Springer Nature
3. Optical and Sensor Characteristics of Nanocomposites, Scientific.net
4. Current Nanoscience, Bentham Science Publishers

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| **Personal Details:** |

 **Name** **:** Santosh Subhash Nandi

 **Father’s name** **:** Subhash A Nandi

 **Religion** **:**  Hindu-Lingayat

 **Date of birth** **:** 21/07/1991

 **Languages known** **:** English, Hindi, Kannada, Marathi

 **Nationality** **:** Indian

 **Sex** : Male

 **Marital Status** : Single

 **Hobbies** : Cricket, Reading Newspaper, Photography, Travel.

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| **References:** |

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Declaration: I hereby declare that the above information and details provided by me are correct to the best of my knowledge.

Thanking you.

Place: Belagavi 

Date: 05/06/2022 (Dr. Santosh S. Nandi)