Santanu Jana

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Personal details:

Academic Degrees: PhD

Department: Electronics

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Father's name: Jagannath Jana

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EDUCATIONAL QUALIFICATION:

DEGREE	BOARD\ UNIVERSITY	YEAR	CLASS/ DIVISION
PhD	Jadavpur University	2018	-
M. Sc	Vidyasagar University	2004	1st
B. Sc	Vidyasagar University	2002	1st
H.S	WBCHSE	1999	1st
Madhyamik	WBBSE	1997	1st

Publications:

Referred Journals:

1. **Santanu Jana**, et al., All-fiber acousto-electric energy harvester from magnesium salt-modulated PVDF nanofiber. Sustainable Energy Fuels, (**IF- 5.0**), 2021, 5, 1003–1013.

2. **Santanu Jana**, et al., ZnO nanoparticle confined stress amplified all-fiber piezoelectric nanogenerator for self-powered healthcare monitoring. Sustainable Energy Fuels, (**IF- 5.0**) 2021, 5, 4389-4400.

3. **Santanu Jana**, et al., Electrospun gelatin nanofiber based self-powered bio-e-skin for health care monitoring. Nano Energy, (**IF- 16.80**), 2017, 36, 166–175.

4. **Santanu Jana**, et al., The □-Crystalline Non-electrically Poled Photoluminescant ZnO-PVDF Nanocomposite Film for Fabrication of Flexible Nanogenerator to use as a Self-Powered Sources. Nanotechnology. (**I.F. 2.9**), 2016, 27, 445403−445415.

5. Santanu Jana, et al., Design of In Situ Poled Ce3+ -Doped Electrospun PVDF/Graphene Composite Nanofibers for Fabrication of Nanopressure Sensor and Ultrasensitive Acoustic Nanogenerator. ACS Appl. Mater. Interfaces. **(I.F. 8.5**), 2016, 8, 4532−4540.

6. **Santanu Jana**, et al., Graphene-Silver-Induced Self-Polarized PVDF-Based Flexible Plasmonic Nanogenerator Toward the Realization for New Class of Self Powered Optical Sensor. ACS Appl. Mater. Interfaces. (**I.F. 8.5**) 2016, 8, 14986−14993.

7. **Santanu Jana**, et al., Porous Polymer Composite Membrane Based Nanogenerator: A Realization of Self-powered Wireless Green Energy Source for Smart Electronics Applications. Journal of Applied Physics. **(I.F. 2.7**), 2016, 120, 174501−174511.

8. **Santanu Jana**, et al., The Influence of Hydrogen Bonding on the Dielectric Constant and the Piezoelectric Energy Harvesting Performance of Hydrated Metal Salt Mediated PVDF Films. Phys. Chem. Chem. Phys. 2015, (**I.F. 3.676**), 17, 17429─17436.

Conference Proceedings

1. **Santanu Jana**, and Dipankar Mandal. The Piezoelectric Effect in ZnO-PVDF Nanocomposite for Realistic Flexible Energy Harvesting Device Fabrication. IISRR-International Journal of Research (ISSN 2394-885X. Vol-1, Issue-2, Page No.-124) 2015.

2. **Santanu Jana**, and Dipankar Mandal. Electro-active Crystalline Phase Nucleation in Poly (vinylidene fluoride) Films by Metal Salts as Filler. International Conference on Nanotechnology (ICNT-2013), 25-26th October 2013, IICHE-HRC, Haldia, ISBN: 978-81-927756-0-9.

3. **Santanu Jana**, Prakriti Adhikary, and Dipankar Mandal. The High Fraction of Piezoelectric Phase in Electrospun PVDF Nanofibers for Acoustic Energy Harvesting Device Application. International Conference on Recent Trends in Energy Technology (ICRTET- 2016), 21-23rd January 2016, IICHE-HRC, Haldia, ISBN: 978- 81-927756-2-3.

Conference participation

1. **Santanu Jana**, and Dipankar Mandal. Electro-active Crystalline Phase Nucleation in Poly (vinylidene fluoride) Films by Metal Salts as Filler. International Conference on Nanotechnology (ICNT-2013), 25-26th October 2013, IICHE-HRC, Haldia, ISBN: 978-81-927756-0-9 (Poster)

2. **Santanu Jana**, Samiran Garain, and Dipankar Mandal. The High Fraction of Piezoelectric Phase in PVDF for Realistic Flexible Energy Harvesting Device Fabrication. SCHEMCON 2014, IICHE-HRC, Haldia 19-20th September 2014. (Oral)

3. **Santanu Jana**, Samiran Garain, and Dipankar Mandal. The Piezoelectric Effect in NiCl2-PVDF Composite for Self-Powered Flexible Electronic Devices Application. 4th International Conference on Advanced Nanomaterials and Nanotechnology (ICANN-2015), 8-15th December 2015, IIT Guwahati. (Poster)

4. **Santanu Jana**, Prakriti Adhikary, and Dipankar Mandal. The High Fraction of Piezoelectric Phase in Electrospun PVDF Nanofibers for Acoustic Energy Harvesting Device Application. International Conference on Recent Trends in Energy Technology (ICRTET- 2016), 21-23rd January 2016, IICHE-HRC, Haldia. ISBN: 978- 81-927756-2-3. (Oral)

5. **Santanu Jana**, and Dipankar Mandal. National Conference on Nanotechnology: Materials and Applications (NCoN:M&A 2016).16 -17th June, 2016, Jadavpur University, Kolkata. (Poster).

6. Samiran Garain, **Santanu Jana**, and Dipankar Mandal. In situ Poled Cerium Doped Electrospun PVDF/Graphene Composite Nanofiber: An Ultrasensitive Acoustic Energy Harvester. 4th International Conference on Advanced Nanomaterials and Nanotechnology (ICANN-2015), 8-15th December 2015, IIT Guwahati. (Poster).

7. Samiran Garain, **Santanu Jana**, and Dipankar Mandal. Ce3+ Complex Doped In situ Poled Electrospun PVDF/Graphene Composite Nanofiber: An Ultrasensitive Acoustic Nanogenerator. National Conference on Nanotechnology: Materials and Applications (NCoN:M&A 2016).16th -17th June, 2016, Jadavpur University, Kolkata. (Poster)

8. **Santanu Jana**, and Dipankar Mandal. A Flexible Piezoelectric Energy Harvester Based on NiCl2-PVDF Composite Film. Twist and Turn in Physics Research: Special Emphasis on Bio- and Condensed Matter Physics 2017, 21-22nd February 2017, Dept. of Physics, Jadavpur University, Kolkata, India (Poster).

Declaration

I hereby declare that the above written particulars are true to the best of my knowledge and belief.

Date: 14.05.2025

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