

List of Publications

1. **Anupama Gaur**, Rahul Shukla, Brijesh Kumar, Arkab Pal, Sandeep Chatterji, Rajeev Ranjan, and Pralay Maiti, 2016. Processing and nanoclay induced piezoelectricity in poly (vinylidene fluoride-co-hexafluoro propylene) nanohybrid for device application. **Polymer** 97, 362-369.
2. **Anupama Gaur**, Chandan Kumar, Rahul Shukla, and Pralay Maiti, 2017. Induced Piezoelectricity in Poly (vinylidene fluoride) Hybrid as Efficient Energy Harvester. **ChemistrySelect** 2 (27), 8278-8287.
3. **Anupama Gaur**, Chandan Kumar, Shivam Tiwari, and Pralay Maiti, 2018. Efficient energy harvesting using processed poly (vinylidene fluoride) nanogenerator. **ACS Applied Energy Materials** 1 (7), pp 3019–3024.
4. Chandan Kumar, **Anupama Gaur**, Sanjay Kumar Rai, and Pralay Maiti, 2017. Piezo devices using poly (vinylidene fluoride)/reduced graphene oxide hybrid for energy harvesting. **Nano-Structures & Nano-Objects** 12, 174-181.
5. Chandan Kumar, **Anupama Gaur**, Shivam Tiwari, Sanjay Kumar Rai, and Pralay Maiti, 2019. Bio-waste polymer hybrid as induced piezoelectric material with high energy harvesting efficiency. **Composite Communication**, 11, 56-61.
6. Shivam Tiwari, **Anupama Gaur**, Chandan Kumar, and Pralay Maiti, 2019. Enhanced piezoelectric response in nanoclay induced electrospun PVDF nanofibers for energy harvesting. **Energy**, 171, 485-492.
7. **Anupama Gaur**, Shivam Tiwari, Chandan Kumar, and Pralay Maiti, 2019. Biobased Piezoelectric Nanogenerator for Mechanical Energy Harvesting using Nanohybrid of Poly(vinylidene fluoride). **Nanoscale Advances**, 1, 3200-3211.

8. **Anupama Gaur**, Dipak Rana, and Pralay Maiti. Mechanical and Wear Behaviour of Poly(vinylidene fluoride)/ Clay Nanocomposite. **Journal of Materials Research and Technology** (Accepted)
9. **Anupama Gaur**, Chandan Kumar, Shivam Tiwari, and Pralay Maiti. Bio-waste Orange Peel and Polymer Hybrid for Efficient Energy Harvesting. (Communicated)
10. **Anupama Gaur**, Shivam Tiwari, Chandan Kumar and Pralay Maiti. Polymer Bio-waste Hybrid for Superior Energy Harvesting. (Communicated)
11. Shivam Tiwari, **Anupama Gaur**, Chandan Kumar and Pralay Maiti. Electrospun Hybrid Nanofibers of Poly(vinylidene fluoride) and Functionalized Graphene Oxide as Piezoelectric Energy Harvester. (Communicated)
12. Shivaji H. Wankhade, Shivam Tiwari, **Anupama Gaur** and Pralay Maiti. Efficient piezoelectric energy harvesting from PVDF-PZT nanohybrid. (Communicated)

Book Chapters:

1. Polymer Composites for Structural, Device and Biomedical Applications. **Anupama Gaur**, Aparna Shukla, Dipti Saxena, and Pralay Maiti, 2018. Materials Science and Technology, Wiley.
2. Reinforced polymers for electroactive devices. **Anupama Gaur**, Pralay Maiti. Springer (In review)

Patents:

1. Bio-waste polymer hybrid with high energy harvesting efficiency. **Anupama Gaur**, Chandan Kumar, Shivam Tiwari, Sanjay Kumar Rai and Pralay Maiti. Application No. 201811016816. 3rd May, 2018.
2. Nanohybrid with high energy harvesting efficiency. **Anupama Gaur**, Shivam Tiwari, Chandan Kumar and Pralay Maiti. Application No. 201811018838. 19th May, 2018.
3. A bio-piezoelectric device and a method of preparation thereof. **Anupama Gaur**, Shivam Tiwari, Chandan Kumar and Pralay Maiti. Application No. 201911013972, 7th April, 2019.

Conference Contributions:

Poster presentation in International Conference on Recent Advances in Analytical Science, **RAAS-2014**, Varanasi, India.

Poster presentation in International conference on Advancements in Polymer Science and Technology, **APA-2015**, Rajkot, India.

Poster presentation in International conference on Advances in Polymer Science and Technology, **APA-2017**, New Delhi, India.

Short Term course on **SMART-RTI-2017**, IIT (BHU), Varanasi.

Poster presentation in International Conference on Polymer Science and Technology, **Macro-2017**, Kerala, India. (Best Poster Award)

Poster presentation in International Conference on Polymer Science and Technology **SPSI-Macro 2018**, Pune, India.

Poster presentation in International Conference on Recent Advances in Composite Materials, **ICRACM-2019**, Varanasi, India. (Best Poster Award)