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## Dr. Akash Roy

**Objective** To endeavour with my skills, intentions, and spirit of learning in the field of education and research.

**Education** **PhD, Physics, 2011,**  
**Lucknow University, Lucknow**  
Guide: Dr. Narendra Kumar Pandey

**M.Sc., Physics, Christ Church College, Kanpur, C.S.J.M University,**  
Kanpur, 67.5%

**B.Sc., Physics, Lucknow Christian College, Lucknow, University**  
of Lucknow

### Achievement

- **Ex-Editorial Board Member** of “International Journal of Engineering, Technology, Science and Research”.
- **Ex-Editorial Board Member** of “American journal of Nanosciences”.
- **Ex-Editorial Board Member** of “International Journal of Materials, Mechanics and Manufacturing”.
- **Technical Program Committee Member** of “2019 2<sup>nd</sup> Environment, Climate Change and Sustainable Development’ (ECCDD 2019)” to be held in Shanghai, China during September 22-23 September 2019.
- **Technical Committee Member** of “2019 3<sup>rd</sup> European Conference on Materials, Mechatronics and Manufacturing” (ECMMM 2019) to be held in **Amsterdam, Netherland** during February 16-18, 2019.
- **Technical Program Committee Member** of “2<sup>nd</sup> International Conference on Functional Materials and Biomaterials” to be held in Saina, Hainan, **China** on 23-24 Nov. 2018.
- **International Technical program Committee member** of “The 2<sup>nd</sup> International Workshop on Material Sciences and Mechanical Engineering” held in Qingdao, Shandong Province, **China** on 26-28 October 2018.
- **Technical Program Committee Member** of “2018 2<sup>nd</sup> International Conference on Advances in Management Science and Engineering” to be held in **Xi’an, China** on 24-25 June, 2018.
- **Technical Committee Member** of “2<sup>nd</sup> European Conference on Materials, Mechatronics and Manufacturing” (ECMMM 2018) held in **Krakow, Poland** during February 10-12, 2018.
- **Technical Program Committee Member** of “European Conference on Materials, Mechatronics and Manufacturing” (ECMMM 2017) held in **Paris, France** during February 15-17, 2017.
- **Technical Program Committee Member** of “2017 International Conference on Energy, Power and Environmental Engineering” (ICEPEE 2017) held in **Shanghai, China** on 23-24 April 2017.
- **Technical Program Committee Member** of “3<sup>rd</sup> Annual International Workshop on Materials Science and Engineering” held in Guangzhou, Guangdong, **China** on Sep. 8-10, 2017.
- **Technical Program Committee Member** of “International Conference on Functional Materials and Biomaterials” held in Yichang, Hubei, **China** on Nov. 17-19, 2017.

- **Editorial Board member** of “International Conference on Emerging Trends of Engineering, Science, Management and its Applications’ 15” held in JNU convention centre, New Delhi, India on 1<sup>st</sup> March 2015.
- **Technical Program Committee Member** of “International Conference on Recent Development in Engineering, Science, Management” (ICRDESM’15) held in YMCA, 1 Jai Singh Road, Connaught Palace, New Delhi on 2<sup>nd</sup> May 2015.
- **Organizing Committee Member** of “5<sup>th</sup> National Conference on Nanotechnology and Materials Science” (NATCON NAMTECH) organized by Department of Physics, University of Lucknow on 21-23 Dec 2013.
- **Reviewer** of several International Journals and reviewed several research papers of international Journals and international conferences.
- Three papers are accepted/published in Proceedings of International Conferences held in *Italy*, *New Zealand*, and *China*.

### Computers

Basic knowledge of computer

### memberships

- ❖ **Membership:** Member of Applied Physics Society (APS) of “International Association of Computer Science and Information Technology”, Singapore

### Experience

August 2022 – Till date	Dream Institute of Technology, ECE, Samali, Thakurpukur-104 Associate Professor of Physics (Department of BSHU)
Jan. 2014 – August 2022	Hooghly Engineering and Technology College, Pipulpati, Hooghly, Assistant Professor of Physics, (Dept. BSH)
June 2012 – January 2014	Inderprastha Engineering College, Ghaziabad, India. Assistant Professor of Physics, (Dept. BSH)
July 2011 – June 2012	Maharana Pratap Engineering College, Kanpur Sr. Lecturer of Physics
Jan. 2011 – July 2011	Aryavart Institute of Technology and Management, Lucknow, Lecturer
Jan. 2010 – Jan. 2011	Saroj Institute of Technology and Management, Lucknow Lecturer

### Technical Skills

NA

### List of

### Publications

#### International Journal

- 1 “Morphological and Humidity Sensing Studies of WO<sub>3</sub> Mixed With ZnO And TiO<sub>2</sub> Powders”, Sensors and Transducers Journal, Vol 96, Issue 9, pp.42-46, Sept 2008.
2. “Relative Humidity Sensing Studies of WO<sub>3</sub>-ZnO nanocomposite”, Advance Materials Research Vol 79-82 pp.365-368, 2009.
3. “Characterization of WO<sub>3</sub>-SnO<sub>2</sub> Nanocomposites and Application in Humidity Sensing”, Sensors & Transducers Journal, Vol. 125, Issue 2, pp. 89-99, February 2011.
4. “Moisture Sensing Application of Cu<sub>2</sub>O Doped ZnO Nanocomposites”, *IEEE Sensors Journal*, Volume: 11 Issue 9 pp.2142 – 2148, September 2011.
5. “Characterization and Humidity Sensing Application of ZnO-TiO<sub>2</sub> Nanocomposite”, *Advanced*

Materials Research Vol. 304 (2011) pp 48-52.

6. Synthesis and characterization of WO<sub>3</sub> nanomaterials, *J Biomed Nanotechnol.* 2011 Feb, 7 (1), 156-7, 21485849.

7. Ag Doped WO<sub>3</sub> Nanomaterials as Relative Humidity Sensor, *IEEE Sensors Journal*, Volume: 11 Issue 11 pp.2911 – 2918, September 2011.

8. “Ag Loaded WO<sub>3</sub> Ceramic Nanomaterials; Characterization and moisture Sensing Studies”, *Int. J. Appl. Ceram. Technol.*, 1–10 (2012).

9. “Humidity Sensor Based on Synthesized WO<sub>3</sub>-SnO<sub>2</sub> Nanocomposites”, American Scientific Publishers, *Energy Environ. Focus* Vol. 2, No. 2, pp. 126-132, June 2013.

10. “Application of Undoped and Al<sub>2</sub>O<sub>3</sub>-Doped ZnO Nanomaterials as Solid-State Humidity Sensor and Its Characterization Studies”, *IEEE Sensors Journal*, Vol. 15, Issue 6, Pages 3582 – 3589, 2015.

11. “Characterization of Synthesised and Unsynthesised WO<sub>3</sub>-SnO<sub>2</sub> Nanocomposites. *J. Sci. and Tech. Res.*, Vol.3, No.2, Dec. 2013 (4-7) ISSN No. 2278-3350.

12. Characterization of Nanocomposites of WO<sub>3</sub>-SnO<sub>2</sub> and Its Application as a Moisture Sensors, *Adv. Sci. Lett.*, Vol. 22, No. 1, pp.188-192, Jan 2016.

13. “ZnO-TiO<sub>2</sub> Nanocomposite; Characterization and moisture Sensing Studies” *Bull. Mater. Sci., Springer*, Vol. 35, No. 3, June 2012, pp. 347–352.

14. Electrical and Optical Properties of ZnO - WO<sub>3</sub> Nanocomposites and its Application as Solid-State Humidity Sensor, *Bull. Mater. Sci., Springer*, Vol. 40, Issue 2, April 2017, 253-262

### Conferences (paper presented in)

- The First International Conference on Emerging Materials: Characterization & Application, organized by CGCRI, Kolkata, 4-6 Dec 2014
- 5<sup>th</sup> National Conference on Nanotechnology and Materials Science (NATCON NAMTECH), Department of Physics, University of Lucknow, Lucknow, 21-23 Dec. 2013.
- National Seminar on Physics and technology of Sensors, Jamia Millia Islamia, New Delhi, India 11-13 March 2013.
- International Conference on Nanoscience, Nanotechnology and Advanced Materials (NANOS 2010), Gitam University, Visakhapatnam, India.
- International Conference on Nanoscience and Nanotechnology (ICONN 2010) SRM University, Chennai, India.
- International Conference on Nanotechnology and Biosensors - 2010, IACQER, Raghu Engineering College, Visakhapattanam.
- 4<sup>th</sup> National Conference on Nanomaterials and a Nanotechnology –2011, Department of Physics, University of Lucknow, India.
- 3<sup>rd</sup> National Conference on Nanomaterials and Nanotechnology - 2010, Amity University, Lucknow campus, Lucknow, India.
- 2<sup>nd</sup> National Conference on Nanomaterials and Nanotechnology –2009, Department of Physics, University of Lucknow, India.
- National Conference on Nanomaterials and Nanotechnology –2007, Department of Physics, University of Lucknow, India.
- 16<sup>th</sup> National Seminar on Physics and Technology of Sensors, Department of Physics, University of Lucknow, Lucknow, India, 11-13 Feb. 2011.

**Undergraduate** Engineering Physics (Mechanics, Optics, Electromagnetism and Dielectric course topics Magnetic Properties of Materials, Quantum Mechanics, Statistical Mechanics)

**References** Available upon request.