



Dr. Amit Kumar
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Google Scholar Link: <https://scholar.google.com/citations?user=rGmyTdYAAAAJ&hl=en&oi=ao>

Professional Preparation

B.Sc. (Non Medical)	Kirori Mal Collage	Delhi University, New Delhi
M.Sc. (Chemistry)	Department of Chemistry	M. D. University, Rohtak
Ph.D. (Chemistry)	Department of Chemistry	M.D. University and National Physical Laboratory, New Delhi

Post.Doc. (1st Dec. 2012 to 31th Dec. 2014) Department of Chemistry, **Konkuk University, Seoul, S. Korea**

Present Profile Working as Assistant Professor of Chemistry under School of Engineering and Technology, Central University of Haryana, Jant-Pali, Mahendergarh and doing research in the area of organic semiconductor.

Research and teaching Experiences:

2007-2008	Research Intern	Department of Chemistry, M. D. University, Rohtak
2008-2012	Research Scholar	National Physical Laboratory (CSIR), New Delhi
2009-2012	Project Fellow	National Physical Laboratory (CSIR), New Delhi
One month	Visiting Researcher	Naval Materials Research Laboratory (DRDO), Mumbai
Feb. 2012-Nov. 2012	Assistant Professor in	Amity University, Noida, Uttar Pradesh
2012-2014:	Postdoctoral Researcher	Department of Chemistry, Konkuk University, Seoul, South Korea

2015-2020 Assistant Professor in Amity University, Noida, Uttar Pradesh

Jan. 2020 – till date: Assistant Professor of Chemistry under School of Engineering and Technology, Central University of Haryana, Jant-Pali, Mahendergarh

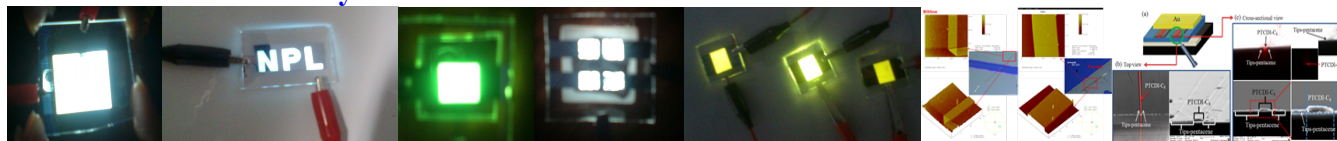
Research skills

- Experience in synthesis of materials and handling of characterization techniques like CHN analyzer, FT-IR, UV-visible absorption, photoluminescence (steady state, time resolved and quantum yield).
- Experience in handling of the device (**OLED, OFET, OPV, Sensor, Memory and energy storage**) fabrication units like spin coating, thermal evaporation, and electron beam evaporation.
- Experience in handling of the device characterizations tools like electroluminescence, transient electroluminescence, current-voltage-luminescence, low temperature measurement, Atomic Force Microscope.
- Experience in handling of the analytical tools like Potentiometer, pH-meter, Conductometer and Polarograph.

Technological achievements:

Fabricated prototype **1 inch by 1 inch White Organic Light Emitting Diodes** with more than **8 lm/W efficiency**.

Fabricated prototype **1 inch by 1 inch Green Organic Light Emitting Diodes** with more than **15 lm/W efficiency**.



Achieved **highest hole mobility of 2.56 cm²/V.s** in unipolar device, which is one of the highest amongst the reported in literature till date.

Achieved **highly balanced** and high **hole** and **electron** mobility values of **0.20 cm²/V.s** and **0.12 cm²/V.s**.

Research Contributions:

- **RECOMMENDED START-UP GRANT**
(UNDER THE MHRD/UGC - Empowered Committee's Basic Science Research (BSR) Programme)
Development of Molecular Semiconductor Crystal/Ribbon based High Mobility, Air Stable Organic Field Effect Transistors for Sensing Application
- **Sixty four publications** (Forty eight journal + Sixteen conference) in the journals of very high reputes such as **ChemComm, J. of Materials Chem. C, ACS Applied Materials and Interface, RSC Advances, New J. of Chemistry, Journal of Phys. D: Applied Phys., J. of Organometallic Chemistry, Synthetic Metals**, etc.
- **Patents: Six**
Granted (One US (granted), Two Indian (Granted))
Applied: Three Indian (published))
- **One book chapter** (Organic Light Emitting Diode for White Light Emission) in the book (Organic Light Emitting Diode) published by Sciyo Janeza Trdine 9, 51000 Rijeka, Croatia edited by Marco Mazzeo
- **One thesis book** published by **LAP LAMBERT Academic Publishing**
- **Twenty Invited Talks** in National and International conferences/seminars/workshops
- Editor and reviewer of various journals
- Organized International Conference as treasurer of the conference.
- Member secretary departmental IQAC, coordinate NAAC and BSI audit and internal auditor in University.

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