CURRICULUM-VITAE

Amit Kumar
House No. 231
VPO-Mukandpur, District–Muzaffarnagar,
Uttar Pradesh, Pin - 251306
Email:baliyanamit.phy@gmail.com
Phone: +91 9870777578



Objective

I am looking for the growth oriented faculty position for the post of Asst. Prof. in department of physics, where I can perform and innovate with the best mind and contribute to the development of science and technology.

I have worked in Roorkee College of Engineering, Roorkee Uttrakhand from 19.02.2019 to 06.08.2019 for the post of Asst. Prof. in department of physics.

Educational qualifications

Degree	Specialization	Year of Passing	Institute/University	Division/C GPA
Research project	Institute of Semiconductor Technology	2013-2017	Technische Universität Dresden, Germany	-
M.Tech.	Solid State Materials	2012	I.I.T. Delhi, India	1st(8.07/10)
M.Sc.	Physics	2008	Chaudhary Charan Singh University Campus, Meerut	1st (70%)
B.Sc.	Science	2006	Chaudhary Charan Singh University, Meerut	1st (62%)

Awards, Scholarships and Achievements

- Secured **159th** All India Rank (**97.14** percentile) in Graduate Aptitude Test in Engineering (**GATE**)-**2010** in Physics
- Secured **41st** All India Rank (**98.17** percentile) in Joint Entrance Screening Test **(JEST)-2009** in Physics

- Secured **235th** All India Rank in Junior Research Fellowship (**JRF**) sponsored by Council of Scientific and Industrial Research (**CSIR-UGC**)-**2009**, in Physical Science

- Qualified for Lecturer ship (LS) Sponsored by Council of Scientific and Industrial Research (**CSIR-UGC**) 2008 in Physical Science.

- Selected for the top 10% students in physics at graduate level in National Graduate Physics Examination (NGPE) 2005-2006 organized by Indian Association of Physics Teachers.

- Recipient of scholarship by Ministry of Human Recourses Development (**MHRD**) from July 2010 to May 2012 at IIT Delhi, India

- Recipient of junior research fellowship by CSIR-NPL from August 2012 to January 2013 at National Physical Laboratory, New Delhi India

- Recipient of research funding by the German Research Foundation (DFG) within the "Excellence Initiative" of the Federal Government via cluster of excellence "Center for Advancing Electronics Dresden" (cfead) from February 2013 to January 2016 at TU Dresden, Germany

- Recipient of DAAD-STIBET completion grant by graduate academy of the TU Dresden from October 2016 to December 2016 at TU Dresden, Germany

Research (Ph.D.) work description

I have completed all my research experiments entitle "*Down Scaling of liquid processed oFETs on plastic foils*" at Technische Universität Dresden, Germany. I started research work on 02.02.2013 under supervision of Prof. Dr.-Ing. habil. Wolf-Joachim Fischer, my research project was part of Centre for Advancing Electronics Dresden (cfaed) and funded by German government.

I have worked on fabrication of short channel organic thin film transistors on flexible substrates with using nano-imprint lithography and inkjet printing. Solution processed methods such as inkjet printing, and spin coating replace the expensive metal deposition by PVD. Basically, my goal is to fabricate short channel (down to 200 nm) oFETs on flexible substrate.

M.Tech. Project

Title: ZnO based Nanostructures for Energy Applications
Advisors: *Dr. D.K. Pandya (Professor, Department of Physics, IIT Delhi, India*)

Publications and Conferences

- Yang, S.C.; Hau, J.-L; Finn, A.; **Kumar, A**.; Ge, Y. and Fischer, W.-J, Synthesis of

Multifunctional Plasmonic Nanopillar Array Using Soft Thermal Nanoimprint Lithography for Highly Sensitive Refractive Index Sensing, *J. of Nanoscale*, 7 (2015) 5760-5766

- Berndt,A.; Poshiech,D.; Jehnicken,D.; Haussler,L.; Voit,B.;Al-Haussein,M.; Plotner, M.; **Kumar, A**. and Fischer, W.-J., Methacrylate copolymers with liquid crystalline side chains for applications as organic gate dielectrics in solution processed devices, *ACS Appl. Mater. & Interface*, 7 (2015) 12339-12347

- Ge, Yang; Plötner, M.; Berndt, A.; **Kumar, A**.; Brigitte V.; Pospiech, D.; and Fischer, W.-J., All-printed capacitors with continuous solution dispensing technology, *Semi. Sci. Tech.*, 32 (2017) 095012

- **Kumar, A**. et al.: "Fabrication of solution-processed source/drain electrodes by thermal nanoimprintassisted ink-jet printing", abstract been accepted at int. conf. NNT, Japan 2014

- Attended "12th International Conference on Nanoimprint and Nanoprint Technology (NNT 2014) at Barcelona, Spain"

- Poster presentation at "13th International Conference on Nanoimprint and Nanoprint Technology (NNT 2014) at Kyoto, Japan"

- Poster presentation in research festival "Centre for Advancing Electronics Dresden" at TU Dresden (2013-2017)

- Poster presentation in "Grant Professor Week" at TU Dresden cfaed (November 2014)

References

1. **Prof. Dr.-Ing. habil. Wolf-Joachim Fischer**	2. **Dr.-Ing. Matthias Plötner**
Institute of Semiconductor and Microsystems Technology, Mierdel-Bau Nöthnitzer Straße 64 Technical University Dresden 01187 Dresden, Germany Tel.: +49 351 463-36336 E-mail: wolf-joachim.fischer@tu-dresden.de	Institute of Semiconductor and Microsystems Technology, Mierdel-Bau Nöthnitzer Straße 64 Technical University Dresden 01187 Dresden, Germany Tel.: +49 351 463-36433 E-mail: matthias.ploetner@tu-dresden.de

Personal details

Name:	Amit Kumar
Father`s Name:	Narendra Kumar
Marital status:	Married
Spouse Name:	Pooja
Date of Birth:	25-10-1986
Birth Place:	Muzaffarnagar
Sex:	Male
Address:	Amit Kumar S/O Narendra Kumar House No. – 231 Village – Mukandpur District – Muzaffarnagar State – Uttar Pradesh Pin – 251306 Mobile No.: +91 9870777578

Declaration

All the information mentioned above are correct to the best of my knowledge and believe.

Place: Muzaffarnagar (Uttar Pradesh) Amit Kumar