

## Mansoor Ali Khan

Assistant Professor

School of Electrical Engineering and Computer Science

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## About

Dr. Mansoor Ali Khan is working as Assistant Professor in the School of Electrical Engineering and Computer Science. Dr. Mansoor Ali Khan has a PhD in Nanotechnology. Dr. Mansoor Ali Khan has published 17 research articles & conference papers having a citation count of 138, carried out 0 projects and filed 0 intellectual property.

## Qualifications

<b>PhD in Nanotechnology</b> University of Sydney , Australia	2014 - 2018
<b>MS in Electronics And Electrical Engineering</b> Dongguk University , Korea	2012 - 2014

## Experience

<b>Assistant Professor</b> School of Electrical Engineering and Computer Science	2023- Present
<b>Assistant Professor</b> School of Electrical Engineering and Computer Science	2020 - 2023
<b>PostDoctoral Researcher</b> University of Sydney and UNSW , Australia	2018 - 2020
<b>Researcher</b> ETRI, Samsung , South Korea	2012 - 2014
<b>Technical Project Manager</b> Nokia Siemens Networks (NSN) , Nokia Siemens Networks (NSN), Islamabad, Pakistan	2006 - 2012

## Awards

<b>IPRS Scholarship</b> Australian Government IPRS Scholarship for PhD studies/research	2014
<b>Care Champion</b> Nokia Siemens Networks Care Champion Certified Technical Project Manager	2008

## Professional Memberships

PEC

## Research Articles

<b>Ion Gel Coated Graphene Field Effect Transistor for Humidity Sensing Applications</b> <i>De-Sheng Liu Usman Khan Peihang Li Mansoor Ali Khan Jiang Wu Zhiming Wang</i> <i>IEEE Sensors Journal</i> , Volume 21, Issue 17, Pages 18483-18487 <b>Impact Factor:</b> 4.325   <b>Quartile:</b> 1   <b>Citations:</b> 12 <b>DOI:</b> 10.1109/JSEN.2021.3092010	2021
<b>Impact of metal crystallinity-related morphologies on the sensing performance of plasmonic nanohole arrays</b> <i>Mansoor Ali Khan Ying Zhu Yin Yao Pengfei Zhang Arti Agrawal Peter J. Reece</i> <i>Nanoscale</i> , Volume 12(14), Pages 7577-7585 <b>Impact Factor:</b> 7.790   <b>Quartile:</b> 1   <b>Citations:</b> 10	2020

- Quantitative Determination of How Growth Conditions Affect the 3D Composition of InGaAs Nanowires** 2019  
*Jiangtao Qu Hansheng Chen Mansoor Ali Khan Fan Yun Xiangyuan Cui Simon P. Ringer Julie M. Cairney Rongkun Zheng*  
*Microscopy and Microanalysis*, Volume 25, Issue 2, Pages 524-531  
**Impact Factor:** 4.127 | **Quartile:** 2 | **Citations:** 1  
**DOI:** 10.1017/S1431927619000114
- Strain-Engineered Ultrahigh Mobility in Phosphorene for Terahertz Transistors** 2019  
*Ruhao Fang Xiangyuan Cui Mansoor Ali Khan Catherine Stampfl Simon P. Ringer Rongkun Zheng*  
*Advanced Electronic Materials*, Volume 5, Issue 3, Article Number 1800797  
**Impact Factor:** 6.593 | **Quartile:** 1 | **Citations:** 23  
**DOI:** 10.1002/aelm.201800797
- Non-destructive analysis on nano-textured surface of the vertical LED for light enhancement** 2019  
*Mansoor Ali Khan Pengju Bian Jiangtao Qu Hansheng Chen Hongwei Liu Matthew Foley Yin Yao Simon P. Ringer Rongkun Zheng*  
*Ultramicroscopy*, Volume 196, Pages 1-9  
**Impact Factor:** 2.452 | **Quartile:** 2 | **Citations:** 5  
**DOI:** 10.1016/j.ultramic.2018.09.003
- 3D Atomic-Scale Insights into Anisotropic Core–Shell-Structured InGaAs Nanowires Grown by Metal–Organic Chemical Vapor Deposition** 2017  
*Jiangtao Qu Sichao Du Tim Burgess Changhong Wang Xiangyuan Cui Qiang Gao Weichao Wang Hark Hoe Tan Hui Liu Chennupati Jagadish Yingjie Zhang*  
*Hansheng Chen Mansoor Ali Khan Simon P. Ringer Rongkun Zheng*  
*Advanced Materials*, Volume 29, Issue 31, Article Number 1701888  
**Impact Factor:** 21.950 | **Quartile:** 1 | **Citations:** 16  
**DOI:** 10.1002/adma.201701888
- Insights into the Silver Reflection Layer of a Vertical LED for Light Emission Optimization** 2017  
*Mansoor Ali Khan Hansheng Chen Jiangtao Qu Patrick W. Trimby Steven Moody Yin Yao Simon P. Ringer Rongkun Zheng*  
*ACS Applied Materials and Interfaces*, Volume 9, Issue 28, Pages 24259-24272  
**Impact Factor:** 8.097 | **Quartile:** 1 | **Citations:** 14  
**DOI:** 10.1021/acsami.7b04854
- On the metallic bonding of GaN-based vertical light-emitting diode** 2017  
*Mansoor Ali Khan Patrick W. Trimby Hongwei Liu Rongkun Zheng*  
*Materials Science in Semiconductor Processing*, Volume 63, Pages 237-247  
**Impact Factor:** 2.593 | **Quartile:** 2 | **Citations:** 9  
**DOI:** 10.1016/j.mssp.2017.02.025
- Nanostructural Analysis of CMOS-MEMS-Based Digital Microphone for Performance Optimization** 2016  
*Mansoor Ali Khan Rongkun Zheng*  
*IEEE Transactions on Nanotechnology*, Volume 15, Issue 6, Pages 849-855  
**Impact Factor:** 2.485 | **Quartile:** 2 | **Citations:** 4  
**DOI:** 10.1109/TNANO.2016.2554602
- Atom Probe Tomography on Semiconductor Devices** 2016  
*Mansoor Ali Khan Simon P. Ringer Rongkun Zheng*  
*Advanced Materials Interfaces*, Volume 3, Issue 12, Pages 1500713  
**Impact Factor:** 4.279 | **Quartile:** 2 | **Citations:** 25  
**DOI:** 10.1002/admi.201500713
- Comparison of recessed gate-head structures on normally-off AlGaIn/GaN high-electron-mobility transistor performance** 2014  
*Mansoor Ali Khan Jun-Woo Heo Jun-Woo Heo Hyun-Chang Park*  
*Journal of Nanoscience and Nanotechnology*, Volume 14, Number 11, Pages 8141-8147  
**Impact Factor:** 1.556 | **Quartile:** 2 | **Citations:** 8  
**DOI:** 10.1166/jnn.2014.9897
- Design of normally-off GaN-based T-gate with Drain-Field-Plate (TGDFP) HEMT for power and RF applications** 2014  
*Mansoor Ali Khan Mansoor Ali Khan*  
*IEICE Electronics Express*, Volume 11, Issue 6, Article Number 20140163  
**Impact Factor:** 0.320 | **Quartile:** 4 | **Citations:** 2  
**DOI:** 10.1587/elex.11.20140163

## Effects of a recessed camel-gate head structure on normally-off ALGaN/GaN HEMTs

2013

Mansoor Ali Khan Jun-Woo Heo Young-Jin Kim Hyun-Chang Park Hyung-Moo Park Hyun-Seok Kim Jae-Kyoung Mun  
*Journal of the Korean Physical Society*, Volume 62, Issue 5, Pages 787-793

**Impact Factor:** 0.425 | **Quartile:** 4 | **Citations:** 9

**DOI:** 10.3938/jkps.62.787

## Conference Proceedings

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### Nanotechnology-based Methods for Water Segregation and Purification

2021

Mansoor Ali Khan

*5th Conference on Emerging Materials and Processes 2021 (CEMP21)*, res.country(177,)

**Citations:** N/A

**DOI:** <https://www.springer.com/journal/13399/updates/19386424>

### The Development of Point-of-Care Plasmonic-based Biosensor for Early Detection of COVID-19 Virus

2021

Rabail Sidhu Rongkun Zheng Ahmed Rasheed Mansoor Ali Khan

*15th IEEE International Conference on Nano/Molecular Medicine & Engineering*, res.country(233,)

**Citations:** N/A

### Wearable Piezoelectric BioMEMS-based Sensor for SARS-COV-2 (COVID-19) Virus Droplets Detection

2021

Abdullah . Mansoor Ali Khan Ahmed Rasheed

*15th IEEE International Conference on Nano/Molecular Medicine & Engineering (IEEE-NANOMED 2021)*, res.country(233,)

**Citations:** N/A

## Book Chapters

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### Atom probe tomography of nanomaterials

2022

Mansoor Ali Khan Rongkun Zheng

In: *Book on Reference Module in Materials Science and Materials Engineering*, Pages 1-31

**Citations:** N/A

**DOI:** <https://doi.org/10.1016/B978-0-12-822425-0.00036-1>