

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

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

Experience

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

Awards

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

Professional Memberships

PEC

Research Articles

Ion Gel Coated Graphene Field Effect Transistor for Humidity Sensing Applications <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 Impact Factor: 4.325 Quartile: 1 Citations: 12 DOI: 10.1109/JSEN.2021.3092010	2021
Impact of metal crystallinity-related morphologies on the sensing performance of plasmonic nanohole arrays <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 Impact Factor: 7.790 Quartile: 1 Citations: 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

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

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>