

Faisal Ahmed

Assistant Professor
College of Electrical & Mechanical Engineering

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About

Dr. Faisal Ahmed is working as Assistant Professor in the College of Electrical & Mechanical Engineering. Dr. Faisal Ahmed has a PhD in Mechanical Engineering. Dr. Faisal Ahmed has published 13 research articles & conference papers having a citation count of 1293, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in Mechanical Engineering Sung Kyun Kwan University , Korea	2013 - 2018
BE in Mechanical Engineering Mehran University of Engineering & Technology , Pakistan	2009 - 2012

Experience

Assistant Professor College of Electrical & Mechanical Engineering	2022- Present
Assistant Professor College of Electrical & Mechanical Engineering	2020- Present
Assistant Professor College of Electrical & Mechanical Engineering	2018 - 2020
	- Present

Professional Memberships

PEC	Since 2017
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Research Projects

National Projects	
Effect of Compaction Pressure and Sintering Temperature on the Porosity of Ceramic Membranes for Water Purification	2019
Funding Agency: HEC	
Amount: PKR 500,000.00	
Status: Completed	

International Projects

Research Articles

Development and Characterization of Silver-Doped Multi-Walled Carbon Nanotube Membranes for Water Purification Applications	2022
<i>Muhammad Umar Amjad Bilal Anjum Ahmed Faisal Ahmed Hasan Aftab Saeed</i>	
<i>Membranes</i> , Volume 12(2), Article Number 179	
Impact Factor: 4.106 Quartile: 1 Citations: 4	
DOI: https://doi.org/10.3390/membranes12020179	
A Parametric Study of the Effects of Critical Design Parameters on the Performance of Nanoscale Silicon Devices	2020
<i>Tariq Talha Faraz Kaiser Malik Faisal Ahmed</i>	

<i>Nanomaterials</i> , Volume 10, Issue 10, Article Number 1987	
Impact Factor: 5.076 Quartile: 2 Citations: 1	
DOI: 10.3390/nano10101987	
Modulation of Magnetoresistance Polarity in BLG/SL-MoSe2 Heterostacks	2020
<i>Muhammad Farooq Khan Shania Rehman Malik Abdul Rehman Muhammad Abdul Basit Deok-kee Kim Faisal Ahmed H. M. Waseem Khalil Imtisal Akhtar Seong Chan Jun</i>	
<i>Nanoscale Research Letters</i> , Volume 15, Article Number 136	
Impact Factor: 4.703 Quartile: 1 Citations: 7	
DOI: https://doi.org/10.1186/s11671-020-03365-2	
Gate-Modulated Ultrasensitive Visible and Near-Infrared Photodetection of Oxygen Plasma-Treated WSe2 Lateral pn-Homojunctions	2020
<i>Sekhar Babu Mitta Sekhar Babu Mitta Zheng Yang Inyong Moon Faisal Ahmed Tae Jin Yoo Byoung Hun Lee Won Jong Yoo Fida Ali</i>	
<i>ACS Applied Materials and Interfaces</i> , Volume 12(20), Pages 23261–23271	
Impact Factor: 9.229 Quartile: 1 Citations: 52	
DOI: https://doi.org/10.1021/acsami.9b23450	
Numerical Investigation of Design and Operating Parameters of Thermal Gradient Continuous-Flow PCR Microreactor Using One Heater	2019
<i>Usama Bin Perwez Imran Aziz Faisal Ahmed Mohsin Raza Khan</i>	
<i>Processes</i> , Volume 7(12), Article Number 919	
Impact Factor: 2.753 Quartile: 2 Citations: 3	
DOI: https://doi.org/10.3390/pr7120919	
Joule Heating in Two-dimensional Materials Based Transistors	2019
<i>Faisal Ahmed Abbas Saeed Hakeem Bilal Anjum Ahmed</i>	
<i>Research & Development in Material Science</i> , Volume 10, Issue 4	
Impact Factor: 0	
DOI: 10.31031/RDMS.2019.10.000741	
Energy Dissipation in Black Phosphorus Heterostructured Devices	2019
<i>Fida Ali Faisal Ahmed Myeongjin Lee Inyong Moon Zheng Yang Yasir Hassan Changgu Lee Won Jong Yoo</i>	
<i>Advanced Materials Interfaces</i> , Volume 6, Issue 2, Article 1801528	
Impact Factor: 4.948 Quartile: 1 Citations: 17	
DOI: 10.1002/admi.201801528	
Impact ionization by hot carriers in a black phosphorus field effect transistor	2018
<i>Faisal Ahmed Young Duck Kim Zheng Yang Pan He Euyheon Hwang Hyunsoo Yang James Hone Won Jong Yoo</i>	
<i>Nature Communications</i> , Volume 9, Article Number 3414	
Impact Factor: 11.878 Quartile: 1 Citations: 54	
DOI: 10.1038/s41467-018-05981-0	
Modulation of Quantum Tunneling via a Vertical Two-Dimensional Black Phosphorus and Molybdenum Disulfide p–n Junction	2017
<i>Xiaochi Liu Deshun Qu Hua-Min Li Inyong Moon Faisal Ahmed Changsik Kim Myeongjin Lee Yongsuk Choi Jeong Ho Cho James C. Hone Won Jong Yoo</i>	
<i>ACS Nano</i> , Volume 11, Issue 9, Pages 9143-9150	
Impact Factor: 13.709 Quartile: 1 Citations: 184	
DOI: 10.1021/acsnano.7b03994	
Fermi Level Pinning at Electrical Metal Contacts of Monolayer Molybdenum Dichalcogenides	2017
<i>Changsik Kim Inyong Moon Daeyeong Lee Min Sup Choi Faisal Ahmed Seunggeol Nam Yeonchoo Cho Hyeon-Jin Shin Seongjun Park Won Jong Yoo</i>	
<i>ACS Nano</i> , Volume 11, Issue 2, Pages 1588-1596	
Impact Factor: 13.709 Quartile: 1 Citations: 782	
DOI: 10.1021/acsnano.6b07159	
High Electric Field Carrier Transport and Power Dissipation in Multilayer Black Phosphorus Field Effect Transistor with Dielectric Engineering	2017
<i>Faisal Ahmed Young Duck Kim Min Sup Choi Xiaochi Liu Deshun Qu Zheng Yang Jiayang Hu Irving P. Herman James Hone Won Jong Yoo</i>	
<i>Advanced Functional Materials</i> , Vol 27, Page No 1604025, Jan 2017	
Impact Factor: 13.325 Quartile: 1 Citations: 53	
DOI: 10.1002/adfm.201604025	
Self-screened high performance multi-layer MoS2 transistor formed by using a bottom graphene electrode	2015

Deshun Qu Xiaochi Liu Daeyeong Lee Faisal Ahmed won jong yoo
Nanoscale , Volume 7, Issue 45, Pages 19273-19281

Impact Factor: 7.76 | **Quartile:** 1 | **Citations:** 30

DOI: 10.1039/c5nr06076a

Carrier transport at metal MoS2 interface

Min Sup Choi Xiaochi Liu Won Jong Yoo Faisal Ahmed
Nanoscale , Volume 7, Pages 9222–9228

Impact Factor: 7.760 | **Quartile:** 1 | **Citations:** 106

DOI: 10.1039/c5nr01044f

2015