Imran Malik

Associate Professor

School of Electrical Engineering and Computer Science

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About

Dr. Imran Malik is working as Associate Professor in the School of Electrical Engineering and Computer Science. Dr. Imran Malik has a PhD in Condensed Matter Physics. Dr. Imran Malik has published 21 research articles & conference papers having a citation count of 365, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Condensed Matter Physics 2012 - 2016
Beijing University of Aeronautics and Astronautics , China

MPhil in Condensed Matter Physics 2006 - 2008
Quaid-i-Azam University , Pakistan

MSc in Applied Physics 2003 - 2006
Quaid-i-Azam University , Pakistan

BSc in Mathematics A & B, Physics 2001 - 2003
University of the Punjab , Pakistan

F.Sc in Pre-Engineering 1998 - 2000
FBISE, Islamabad , Pakistan

Matric (SSC) in General Science 1996 - 1998
FBISE, Islamabad , Pakistan

Experience

Associate Professor 2021- Present
School of Electrical Engineering and Computer Science

Assistant Professor 2021 - 2021
School of Electrical Engineering and Computer Science

Assistant Professor 2016 - 2021
School of Electrical Engineering and Computer Science

Lecturer 2008 - 2016
School of Electrical Engineering and Computer Science

Awards

Excellent Study Award 2015
In Beihang University during PhD, 1st Prize of International Student Excellence Award in the year of 2015.

Research Articles

Performance evaluation of organometal halide MASnI3 and inorganic BaZrS3 hybrids in perovskites solar cells: Theoretical approach 2025
Irfan Qasim Kamran Irshad M. Amin Mir Imran Malik L. Syam Sundar Abid iqbal Syed M. Hasnain
Hybrid Advances , Volume:9, Article Number 100408
Impact Factor: N/A | **Citations:** 3
DOI: https://doi.org/10.1016/j.hybadv.2025.100408

Analysis and performance evaluation of non-toxic organo-metal halide (CH3NH3SnI3) perovskite optical absorber based photovoltaic cell 2025
Azka Khalid Imran Malik Irfan Qasim

Chemistry of Inorganic Materials, Volume 5, Article Number 100083

Impact Factor: N/A
DOI: https://doi.org/10.1016/j.cinorg.2024.100083

Development of low-cost and high-efficiency solar modules based on perovskite solar cells for large-scale applications 2024

Muhammad Shoaib Hanif Irfan Qasim Muhammad Imran Malik Muhammad Farooq Nasir Owais Ahmad Asim Rashid

Heliyon, Volume:10, Issue:4, Article Number:e25703

Impact Factor: 4.0 | **Quartile:** 2 | **Citations:** 13
DOI: 10.1016/j.heliyon.2024.e25703

Simulations and Suitability Study of Inorganic Cu-Based Hole-Transport Layers in Planar CH3NH3SnI3-Based Perovskite Solar Cell and Module 2023

Irfan Qasim Imran Malik

Energy Technology, Pages 1-15

Impact Factor: 3.8 | **Quartile:** 3 | **Citations:** 5
DOI: https://doi.org/10.1002/ente.202300471

Modelling and numerical simulations of eco-friendly double absorber solar cell "Spiro-OmeTAD/CIGS/MASnI3/CdS/ZnO" and its PV-module 2023

Owais Ahmad Irfan Qasim Syed M. Hasnain Zain ul Abdin Muhammad Farooq Nasir Muhammad Imran Malik Asim Rashid

Organic Electronics, Volume 117, Article Number 106781

Impact Factor: 3.868 | **Quartile:** 2 | **Citations:** 18
DOI: https://doi.org/10.1016/j.orgel.2023.106781

Experimental and numerical investigations on feasibility of inorganic KSnCl3 perovskite absorber and SWCNT-HTL for solar cells 2023

Zain ul Abdin Irfan Qasim Muhammad Imran Malik Muhammad Rashid

Heliyon, Volume 9, Issue 4, Article Number e14802

Impact Factor: 3.776 | **Quartile:** 2 | **Citations:** 11
DOI: https://doi.org/10.1016/j.heliyon.2023.e14802

Design and numerical investigations of eco-friendly, non-toxic (Au/CuSCN/CH3NH3SnI3/CdTe/ZnO/ITO) perovskite solar cell and module 2022

Irfan Qasim Owais Ahmad Zain ul Abdin Asim Rashid Muhammad Farooq Nasir Muhammad Imran Malik Muhammad Rashid Syed M. Hasnain

Solar Energy, Volume 237, Pages 52-61

Impact Factor: 6.7 | **Quartile:** 2 | **Citations:** 30
DOI: https://doi.org/10.1016/j.solener.2022.02.056

Numerical optimization of (FTO/ZnO/CdS/CH3NH3SnI3/GaAs/ Au) perovskite solar cell using solar capacitance simulator with efficiency above 23% predicted 2021

Irfan Qasim Owais Ahmad Asim Rashid Tashfeen Zehra Muhammad Imran Malik Muhammad Rashid M. Waqar Ahmed M. Farooq Nasir

Optical and Quantum Electronics, Volume 53, Article Number: 713

Impact Factor: 2.794 | **Quartile:** 2 | **Citations:** 20
DOI: https://doi.org/10.1007/s11082-021-03361-5

Unusual Magnetotransport Properties in Graphene Fibers 2020

Rizwan Ur Rehman Sagar Chen Lifang Ayaz Ali Muhammad Farooq Khan Mudassar Abbas Muhamad Imran Malik Karim Khan Jinming Zeng Tauseef Anwar Tongxiang Liang

Physical Chemistry Chemical Physics, Volume 22(44), Pages 25712-25719

Impact Factor: 3.676 | **Quartile:** 1 | **Citations:** 5
DOI: https://doi.org/10.1039/D0CP05209D

Large magnetotransport properties in mixed-dimensional van der Waals heterostructures of graphene foam 2020

Rizwan Ur Rehman Sagar Babar Shabbir Syed Muhammad Hasnain Nasir Mahmood Muhammad Husnain Zeb B.N. Shivananju Taimur Ahmed Irfan Qasim Muhammad Imran Malik Qasim Khan Khurram Shehzad Adnan Younis Qiaoliang Bao Min Zhang

Carbon, Volume 159, Pages 648-655

Impact Factor: 9.594 | **Quartile:** 1 | **Citations:** 12
DOI: https://doi.org/10.1016/j.carbon.2020.01.001

Superior Magnetoresistance Performance of Hybrid Graphene Foam/Metal Sulfide Nanocrystal Devices 2019

M. Husnain Zeb Rizwan Ur Rehman Sagar Nasir Mahmood Irfan Qasim Muhammad Imran Malik M. Mosarof Hossain Wenzhi Yu Masroor A. Bhat Bannur Nanjunda Shivananju Adnan Younis Qasim Khan Babar Shabbir Keqiang Chen Zhigao Dai Qingdong Ou Yun Li Xian Tang Kun Qi Yupeng Zhang Qiaoliang Bao

ACS Applied Materials and Interfaces, Volume 11, Issue 21, Pages 19397-19403

Impact Factor: 8.758 | **Quartile:** 1 | **Citations:** 25

DOI: 10.1021/acsami.9b00020

Analysis of superconducting response and flux pinning ability of (Mg0.8Zn0.2Fe2O4)x/CuTl-1223 composites 2019

Irfan Qasim Owais Ahmad Muhammad Farooq Nasir Muhammad Imran Malik Qurat-Ul-Ain Javed Nawazish A Khan Asad Raza Muhammad Mumtaz Muhammad Rashid

Materials Research Express, Volume 6, Issue 4

Impact Factor: 1.929 | **Quartile:** 3 | **Citations:** 2

DOI: 10.1088/2053-1591/aafc3f

Effects of Cr-doping on the electronic transport properties in antiperovskite nitrides Mn3−xCrxZnN (0≤x≤0.5) 2016

Muhammad Imran Malik Ying Sun Lei Wang Sihao Deng Kewen Shi Pengwei Hu Huiqing Lu Cong Wang

Physica B: Condensed Matter, Volume 491, Pages 59-64

Impact Factor: 1.405 | **Quartile:** 3 | **Citations:** 1

DOI: http://dx.doi.org/10.1016/j.physb.2016.03.020

Study on Magnetic Phase Transition and Abnormal Thermal Expansion Performance of Anti-Perovskite Compound Mn3Co1-xN 2016

Muhammad Imran Malik Shi Kewen Ying Sun Deng Sihao Hu Pengwei Wang Lei Lu Huiqing Zhao Wenjun Cong Wang

China Science Papers, Volume 11(11), Pages 1219-1222

Impact Factor: 0

DOI: 10.3969/j.issn.2095-2783.2016.11.005

Effects of substrates, film thickness and temperature on thermal emittance of Mo/substrate deposited by magnetron sputtering 2016

Yuping Ning Wenwen Wang Ying Sun Yongxin Wu Yingfang Liu Hongliang Man Muhammad Imran Malik Cong Wang Shuxi Zhao Eric Tomasella Angélique Bousquet

Vacuum, Volume 128, Pages 73-79

Impact Factor: 1.53 | **Quartile:** 3 | **Citations:** 27

DOI: https://doi.org/10.1016/j.vacuum.2016.03.008

Baromagnetic Effect in Antiperovskite Mn3Ga0.95N0.94 by Neutron Powder Diffraction Analysis 2016

Kewen Shi Ying Sun Jun Yan Sihao Deng Lei Wang Hui Wu Pengwei Hu Huiqing Lu Muhammad Imran Malik Qingzhen Huang Cong Wang

Advanced Materials, Volume 28, Issue19, Pages 3761-3767

Impact Factor: 19.791 | **Quartile:** 1 | **Citations:** 72

DOI: https://doi.org/10.1002/adma.201600310

Competition between ferromagnetic and antiferromagnetic interactions by Cr doping at Mn sites in antiperovskite Mn3−xCrxZnN (0≤x≤0.5) compounds 2016

Muhammad Imran Malik Ying Sun Lei Wang Sihao Deng Kewen Shi Pengwei Hu, Huiqing Lu Cong Wang

Physica B: Condensed Matter, Volume 488, Pages 19-23

Impact Factor: 1.405 | **Quartile:** 3 | **Citations:** 3

DOI: http://dx.doi.org/10.1016/j.physb.2016.02.010

The evolution of magnetic transitions, negative thermal expansion and unusual electronic transport properties in Mn3AgxMnyN 2015

Sihao Deng Ying Sun Jun Yan Zaixing Shi Kewen Shi Lei Wang Pengwei Hu Muhammad Imran Malik Cong Wang

Solid State Communications, Volume 222, Pages 37-41

Impact Factor: 1.458 | **Quartile:** 3 | **Citations:** 9

DOI: https://doi.org/10.1016/j.ssc.2015.08.024

Nitrogen-Induced Change of Magnetic Properties in Antiperovskite-Type Carbide: Mn3InC 2015

Muhammad Imran Malik Ying Sun Si-Hao Deng Ke-Wen Shi Peng-Wei Hu Cong Wang

Chinese Physics Letters, Vol. 32, No. 6, Article Number 067503

Impact Factor: 0.875 | **Quartile:** 3 | **Citations:** 5

DOI: https://doi.org/10.1088/0256-307X/32/6/067503

Invar-like Behavior of Antiperovskite Mn3+xNi1−xN Compounds 2015

Sihao Deng Ying Sun Hui Wu Qingzhen Huang Jun Yan Kewen Shi Muhammad Imran Malik Huiqing Lu Lei Wang Rongjin Huang Laifeng Li Cong Wang

Chemistry of Materials, Volume 27(7), Pages 2495–2501

Impact Factor: 9.407 | **Quartile:** 1 | **Citations:** 90

DOI: https://doi.org/10.1021/cm504702m

Effect on Diamagnetism and Phonon Modes due to Mg and Be Doping at Ca Sites in $Cu_{0.5}Tl_{0.5}Ba_2Ca_{3-y}M_yCu_4O_{12-\delta}$ (y = 0 and 1.5 for M = Mg, Be) High Temperature Superconductors 2011

Babar Shabbir Muhammad Imran Malik Nawazish A Khan

Journal of Superconductivity and Novel Magnetism, Volume 24, Pages 1977–1983

Impact Factor: 0.65 | **Quartile:** 4 | **Citations:** 14

DOI: https://doi.org/10.1007/s10948-011-1156-y

Editorial Activities

2024

Reviewed Papers for Journals

Impact Factor: 29.4