Banat Gull

Associate Professor

Military College of Engineering

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About

Dr. Banat Gull is working as Associate Professor in the Military College of Engineering. Dr. Banat Gull has a PhD in Computational Physics. Dr. Banat Gull has published 101 research articles & conference papers having a citation count of 715, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Computational Physics 2010 - 2016
Pakistan Institute of Engineering and Applied Sciences (PIEAS) , Pakistan

MPhil in Physics 2007 - 2009
Quaid-i-Azam University , Pakistan

MSc in Physics 2005 - 2005
University of Peshawar , Pakistan

BSc in Physics, Math, Computer 1998 - 2001
University of Peshawar , Pakistan

Experience

Associate Professor 2022- Present
Military College of Engineering

Associate Professor 2021 - 2022
Military College of Engineering

Assistant Professor 2020 - 2021
Military College of Engineering

Assistant Professor 2019 - 2020
Riphah International University Lahore , Riphah International University Lahore

Assistant Professor 2018 - 2019
UOL-Lahore , Department of Physics, UOL, Sargodha Campus, Sargodha

Assistant Professor 2017 - 2018
IIU-Islamabd , Department of Physics, IIUI,H-12, Islamabad

Assistant Professor 2016 - 2017
QAU, Islamabad , QAU, Islamabd

Research Articles

Electronic structure and multifunctional properties of novel GaChCl (Ch = Se, Te) ternary chalcohalides: Insights from first-principles calculations 2025

Banat Gull Safia Abdullah R Alharbi Muhammad Salman Khan Siti Maisarah Aziz

Chemical Physics Letters , Volume:878, Article Number 142344

Impact Factor: 3.100 | **Quartile:** 2

DOI: https://doi.org/10.1016/j.cplett.2025.142344

Exploring the impact of Sc and Y substitution on the physical properties of novel quaternary chalcogenides: A first-principles insight 2025

Mohannad Al-Hmoud Banat Gull Muhammad Salman Khan Ghlamallah Benabdellah Zia Ullah Ayed M. Binzowaimil Siti Maisarah Aziz

Chemical Physics Letters , Volume:877, Article Number 142311

Impact Factor: 3.100 | **Quartile:** 2

DOI: https://doi.org/10.1016/j.cplett.2025.142311

First principle study of the optoelectronic, and thermoelectric properties of novel direct band gap ternary chalcogenides 2025

Banat Gull Mohannad Mahmoud Ali Al-Hmoud Muhammad Salman Khan Gulzar Khan Siti Maisarah Aziz Ghlamallah Benabdellah Ayed M. Binzowaimil

Physica B: Condensed Matter, Volume:714, Article Number 417528

Impact Factor: 2.800 | **Quartile:** 2

DOI: https://doi.org/10.1016/j.physb.2025.417528

Chalcogen-mediated band tuning, optoelectronic and transport properties of LaCuXO (X = Se, Te) Oxychalcogenides: First-principles study 2025

Banat Gull Safia Abdullah R Alharbi Muhammad Salman Khan Siti Maisarah Aziz

Chemical Physics Letters, Volume: 878, Article Number: 142248

Impact Factor: 3.1 | **Quartile:** 1

DOI: https://doi.org/10.1016/j.cplett.2025.142248

First principles calculation of optoelectronic, elastic, and thermoelectric properties of Ga2HgX4 (X = Se, Te) ternary chalcogenides 2025

Abdelhay Salah Mohamed Banat Gull Muhammad Salman Khan Ghlamallah Benabdellah Siti Maisarah Aziz Faheem Abbas

Chemical Physics Letters, Volume 876, Article Number 142233

Impact Factor: 3.100 | **Quartile:** 2

DOI: https://doi.org/10.1016/j.cplett.2025.142233

Unveiling the optoelectronic and thermoelectric properties of Cs2HgM (M = Se, Te) semiconductors for sustainable optoelectronic technologies 2025

Abdelhay Salah Mohamed Banat Gull Muhammad Salman Khan Siti Maisarah Aziz Hijaz Ahmad

Inorganic Chemistry Communications, Volume 179, Part 2, Article Number 114837

Impact Factor: 5.400 | **Quartile:** 1

DOI: https://doi.org/10.1016/j.inoche.2025.114837

Unveiling the optoelectronic and thermoelectric properties of YAgCh2 (Ch = Se, Te): First-principles study 2025

Banat Gull Mohannad Mahmoud Ali Al-Hmoud Muhammad Salman Khan Siti Maisarah Aziz Ghlamallah Benabdellah Ayed M. Binzowaimil

Inorganic Chemistry Communications, Volume 179, Part 1, Article Number 114684

Impact Factor: 4.400 | **Quartile:** 1

DOI: https://doi.org/10.1016/j.inoche.2025.114684

Unveiling the potential of rare-earth XCuSeO (X = Dy, Sm) oxychalcogenides for high-performance UV shielding and photovoltaics 2025

Banat Gull Mohannad Mahmoud Ali Al-Hmoud Muhammad Salman Khan Siti Maisarah Aziz

Journal of Solid State Chemistry, Volume 348, Article Number 125389

Impact Factor: 3.2000 | **Quartile:** 2

DOI: https://doi.org/10.1016/j.jssc.2025.125389

Systematic Exploration of Electronic, Optical, and Thermoelectric Properties of SrCuXF (X = S, Se) Materials: Employing First-Principles Calculations 2025

Abdelhay Salah Mohamed Banat Gull Muhammad Salman Khan Ghlamallah Benabdellah Siti Maisarah Aziz Faheem Abbas

Brazilian Journal of Physics, Volume:55, Article Number:224, Pages:15

Impact Factor: 1.7 | **Quartile:** 3

DOI: https://doi.org/10.1007/s13538-025-01853-3

Exploring the optoelectronic, elastic, and transport properties of XSbTe3 (X = Dy, Sm) for next-generation energy materials: A first-principles study 2025

Banat Gull Mohannad Mahmoud Ali Al-Hmoud Muhammad Salman Khan Siti Maisarah Aziz

Chemical Physics Letters, Volume:871, Article Number 142123

Impact Factor: 2.800 | **Quartile:** 1

DOI: https://doi.org/10.1016/j.cplett.2025.142123

Exploring the potential of TlInX2 (X = Se, Te) materials: First-principles investigation for the optoelectronic and thermoelectric applications 2025

Banat Gull Mohannad Mahmoud Ali Al-Hmoud Muhammad Salman Khan Siti Maisarah Aziz

Chemical Physics Letters, Volume:869, Article Number 142069

Impact Factor: 2.800 | **Quartile:** 1

DOI: https://doi.org/10.1016/j.cplett.2025.142069

A comparative DFT study of different structures of ZnTe: for optoelectronic and thermoelectric applications 2025

Banat Gull Mohannad Mahmoud Ali Al-Hmoud Muhammad Salman Khan Siti Maisarah Aziz
RSC Advances , Volume:15, Issue:20, Pages 15550-15560
Impact Factor: 3.900 | **Quartile:** 2
DOI: https://doi.org/10.1039/D5RA01399B

A computational study of novel CsYMSe3 (M = Cd, Zn) materials: for their potential optoelectronic and thermoelectric application 2025

Muhammad Salman Khan Banat Gull Siti Maisarah Aziz Abdelhay Salah Mohamed Faheem Abbas
Modelling and Simulation in Materials Science and Engineering, Volume:33, Issue:2, Article Number 025005
Impact Factor: 1.900 | **Quartile:** 3
DOI: https://doi.org/10.1088/1361-651X/ada81d

Exploring the impact of chalcogen substitution in novel ternary chalcogenides: insight from first-principles investigation 2025

A S Mohamed Banat Gull Muhammad Salman Khan S M Aziz H Ahmad F Abbas
Indian Journal of Physics, Pages 1-13
Impact Factor: 1.600 | **Quartile:** 2
DOI: https://doi.org/10.1007/s12648-025-03572-6

First-Principles Study of Electronic Structure, Optical and Thermoelectric Properties of Quaternary Chalcogenides 2025

Abid Raza Banat Gull Muhammad Salman Khan Ahmad A. Ifseisi Siti Maisarah Aziz Xiaoliang Zhang Saleh Muhammad
Journal of Inorganic and Organometallic Polymers and Materials, Pages:13
Impact Factor: 3.900 | **Quartile:** 2
DOI: https://doi.org/10.1007/s10904-025-03664-0

Investigating the electronic structure, elastic, optical, and thermoelectric nature of novel AsIrX (X = S, Se, Te) ternary chalcogenides 2025

Muhammad Salman Khan Banat Gul ABDELHAY SALAH MOHAMED Gulzar Khan Siti Maisarah Aziz Faheem Abbas
Physica B : Condensed Matter, Volume: 697, Article Number: 416696
Impact Factor: 2.88 | **Quartile:** 2 | **Citations:** 1
DOI: https://doi.org/10.1016/j.physb.2024.416696

Electronic Structure, Optical and Thermoelectric Properties of Novel Rb2XAgF6 (X = Ga and In) halide-based Perovskites 2025

Muhammad Salman Khan Banat Gull Zia Ullah Ahmad A. Ifseisi Siti Maisarah Aziz Faheem Abbas
Journal of Inorganic and Organometallic Polymers and Materials, Pages: 13
Impact Factor: 3.9 | **Quartile:** 2 | **Citations:** 1
DOI: https://doi.org/10.1007/s10904-024-03579-2

Insight into the optoelectronic and thermoelectric properties of novel LaSeM (M = Cl, F) chalcohalide semiconductors: ab-initio study 2024

Muhammad Salman Khan Banat Gull Abdelhay Salah Mohamed Siti Maisarah Aziz Faheem Abbas
Physica scripta , Volume: 100, Number: 1, Article Number:015999
Impact Factor: 2.6 | **Quartile:** 2
DOI: https://doi.org/10.1088/1402-4896/ad9ef9

The electronic, optical and transport properties of BaAgMF (M = Se, Te) quaternary chalcogenides: a systematic first-principles study 2024

Muhammad Salman Khan Banat Gull Abdelhay Salah Mohamed Faheem Abbas
Physica scripta , Volume:100, Number:01, Article Number:015968
Impact Factor: 2.6 | **Quartile:** 2 | **Citations:** 1
DOI: https://doi.org/10.1088/1402-4896/ad9bfa

Ab initio study of multifunctional novel CsErZnM3(M = Se, Te) chalcogenides: potential materials for UV protection and energy harvesting 2024

Muhammad Salman Khan Banat Gull Abdelhay Salah Mohamed Siti Maisarah Aziz Hijaz Ahmad Faheem Abbas
Physica scripta , Volume:100, Number:01, Article Number:015944
Impact Factor: 2.6 | **Quartile:** 2 | **Citations:** 1
DOI: https://doi.org/10.1088/1402-4896/ad9965

First-principles study of novel CuAgX (X = S, se) semiconductors: Probing electronic, optical, thermodynamic, and thermoelectric properties 2024

Muhammad Salman Khan Banat Gul Gulzar Khan Abdelhay Salah Mohamed Faheem Abbas
Materials Science in Semiconductor Processing, Volume 184 , Article Number 108810

Impact Factor: 4.200 | **Quartile:** 2 | **Citations:** 4
DOI: https://doi.org/10.1016/j.mssp.2024.108810

Exploring novel Zn2SeX (X=S, Te) ternary chalcogenide: Studying the effect of chalcogen substitution on optoelectronic, and thermoelectric performance 2024

Muhammad Salman Khan Banat Gul Abdelhay Salah Mohamed Siti Maisarah Aziz Faheem Abbas
Chemical Physics Letters, Volume 856, Article Number 141626
Impact Factor: 2.800 | **Quartile:** 1 | **Citations:** 4
DOI: https://doi.org/10.1016/j.cplett.2024.141626

Electronic, optical, and thermoelectric efficiency of novel Li-based ternary chalcogenides: First-principles study 2024

Muhammad Salman Khan Banat Gul Abdelhay Salah Mohamed Siti Maisarah Aziz Ghlamallah Benabdellah Faheem Abbas
Chemical Physics Letters, Volume 855, Article Number 141565
Impact Factor: 2.800 | **Quartile:** 1 | **Citations:** 1
DOI: https://doi.org/10.1016/j.cplett.2024.141565

Investigation of optoelectronic and magnetic properties of novel Ba2UXO6 (X = Co, Mn) double perovskites: For ecological advance energy applications 2024

Ahmad Ali Banat Gul Muhammad Salman Khan Abdelhay Salah Mohamed Gulzar Khan Muhammad Ali Maaz Ahmad Faheem Abbas
Materials Science in Semiconductor Processing, Volume 183, Article Number 108747
Impact Factor: 4.200 | **Quartile:** 2 | **Citations:** 5
DOI: https://doi.org/10.1016/j.mssp.2024.108747

Exploring the physical properties of novel ACu3S3 (A = Sc, Y) semiconductors via first-principles calculation 2024

Muhammad Salman Khan Banat Gul Gulzar Khan Ghlamallah Benabdellah Bashir Ahmad Munirah D. Albaqami Saikh Mohammad Md Khalid Auranzeb Hijaz Ahmad
Materials Science in Semiconductor Processing, Volume 182 , Article Number 108696
Impact Factor: 4.200 | **Quartile:** 2 | **Citations:** 1
DOI: https://doi.org/10.1016/j.mssp.2024.108696

The electronic structure, optical, and transport properties of novel SrScCu3M4 (M = Se, Te) semiconductors 2024

Muhammad Salman Khan Banat Gul Abdelhay Salah Mohamed Faheem Abbas
Physica Scripta, Volume 99, Number 11, Article Number 115999
Impact Factor: 2.600 | **Quartile:** 2 | **Citations:** 1
DOI: https://doi.org/10.1088/1402-4896/ad87bc

First-Principles study of the electronic Structure, Optical, and thermoelectric properties of novel WSeX (X=S, Te) Chalcogenides: For energy harvesting application 2024

Muhammad Salman Khan Banat Gul Hussain Ahmad Abdelhay Salah Mohamed Siti Maisarah Aziz Faheem Abbas
Chemical Physics Letters, Volume 853 , Article Number 141523
Impact Factor: 2.8 | **Quartile:** 1 | **Citations:** 2
DOI: https://doi.org/10.1016/j.cplett.2024.141523

Insight into the optoelectronic, and thermoelectric properties for zinc-based TMCs: First principle-based study 2024

Muhammad Salman Khan Banat Gul Shah Hussain Gulzar Khan Amel Laref Shaukat Ali Khattak Syed Zulfiqar Tahirzeb Khan Tanveer Ahmad
Physica B : Condensed Matter, Volume 691, Article Number 416322
Impact Factor: 2.800 | **Quartile:** 2 | **Citations:** 1
DOI: https://doi.org/10.1016/j.physb.2024.416322

Exploring novel Na4XS (X = Se, Te) materials for UV protection and photovoltaic efficiency: First-principles approach 2024

Muhammad Salman Khan Banat Gul Abdelhay Salah Mohamed Ghlamallah Benabdellah Siti Maisarah Aziz Hijaz Ahmad Faheem Abbas
Chemical Physics Letters, Volume 856, Article Number 141670
Impact Factor: 2.800 | **Quartile:** 1
DOI: https://doi.org/10.1016/j.cplett.2024.141670

Insights into the optoelectronic, thermodynamic, and thermoelectric properties of novel BaYCuX3 (X = Se, Te) semiconductors from first-principles investigation 2024

Muhammad Salman Khan Banat Gul Abdelhay Salah Mohamed Ghlamallah Benabdellah Gulzar Khan Bashir Ahmad Hijaz Ahmad Md Khalid Auranzeb
Materials Science in Semiconductor Processing, Vol:181, Article Number:108627
Impact Factor: 4.2 | **Quartile:** 2 | **Citations:** 1

DOI: 10.1016/j.mssp.2024.108627

First-Principles Study of Novel BaLnAgSe3 (Ln = Er, Gd) Active UV-reflecting Materials for Optoelectronic and Thermoelectric Applications 2024

Muhammad Salman Khan Banat Gul Abdelhay Salah Mohamed Siti Maisarah Aziz Ghlamallah Benabdellah Faheem Abbas

Journal of Inorganic and Organometallic Polymers and Materials, Pages 1-13

Impact Factor: 3.900 | **Quartile:** 2

DOI: https://doi.org/10.1007/s10904-024-03369-w

Exploring the optoelectronic and transport properties of novel ternary spinel semiconductors via first-principles calculation 2024

Muhammad Salman Khan Banat Gul Abdelhay Salah Mohamed Ghlamallah Benabdellah Faheem Abbas

Chemical Physics Letters , Volume 851, Article Number 141482

Impact Factor: 2.800 | **Quartile:** 1 | **Citations:** 1

DOI: https://doi.org/10.1016/j.cplett.2024.141482

Investigating novel Mo2X3S (X = Se, Te) materials: probing the influence of chalcogen substitution on electronic, optical, and thermoelectric properties 2024

Abdelhay Salah Mohamed Banat Gul Muhammad Salman Khan Hijaz Ahmad Mohd Khalid Awang Faheem Abbas

PHYSICA SCRIPTA , Volume 99, Number 10, Article Number 105949

Impact Factor: 2.600 | **Quartile:** 2

DOI: https://doi.org/10.1088/1402-4896/ad7420

A systematic computational study of novel SrTrCu3Se4 (Tr = Al, Ga) direct band gap materials: Probing electronic, optical, and thermoelectric nature 2024

Abdelhay Salah Mohamed Banat Gul Muhammad Salman Khan Bashir Ahmad Ghlamallah Benabdellah Hijaz Ahmad Faheem Abbas

Chemical Physics Letters , Volume 850 , Article Number 141479

Impact Factor: 2.800 | **Quartile:** 1 | **Citations:** 1

DOI: https://doi.org/10.1016/j.cplett.2024.141479

Spin-polarized electronic, optical, and transport properties of novel Cs2XMoBr6 (X=Na, Li) HDPs: First-principles study 2024

Zia Ullah Banat Gul Abdelhay Salah Mohamed Ahmad Ali Gulzar Khan Muhammad Salman Khan Faheem Abbas

Chemical Physics Letters , Volume 850, Article Number 141471

Impact Factor: 2.800 | **Quartile:** 1

DOI: https://doi.org/10.1016/j.cplett.2024.141471

First-principles study of electronic, optical, and thermoelectric properties of KMCuS3 (M = Th and Sm) quaternary chalcogenides 2024

Muhammad Salman Khan Banat Gul Abdelhay Salah Mohamed Faheem Abbas

RSC Advances , Volume 14(37), Pages 27332-27342

Impact Factor: 3.900 | **Quartile:** 2 | **Citations:** 2

DOI: https://doi.org/10.1039/d4ra05001k

Unveiling the electronic, optical, thermoelectric, and magnetic properties of novel Ba2GdMO6 (M = Pa, Ta) via DFT calculation 2024

Ahmad Ali Banat Gul Muhammad Salman Khan Gulzar Khan Abdelhay Salah Mohamed Faheem Abbas

Journal of Magnetism and Magnetic Materials , Volume 604 , Article Number 172311

Impact Factor: 2.500 | **Quartile:** 3 | **Citations:** 2

DOI: https://doi.org/10.1016/j.jmmm.2024.172311

Probing the electronic structure, optical, and transport nature of lanthanide-based ternary materials: A First-principles perspective 2024

ABDELHAY SALAH MOHAMED Banat Gul Muhammad Salman Khan Ghlamallah Benabdellah Hijaz Ahmad Mohd Khalid Awang Faheem Abbas

Chemical Physics Letters , Vol:847, Article Number: 141366

Impact Factor: 2.8 | **Quartile:** 1 | **Citations:** 3

DOI: 10.1016/j.cplett.2024.141366

Predictive modeling of novel GaAgX2 (X = S, Se) chalcogenides: First-principles study of electronic, optical, and thermoelectric properties 2024

ABDELHAY SALAH MOHAMED Banat Gul Muhammad Salman Khan Bashir Ahmad Ghlamallah Benabdellah Hijaz Ahmad

Chemical Physics Letters , Vol:846, Article Number: 141326

Impact Factor: 2.8 | **Quartile:** 2 | **Citations:** 1

DOI: 10.1016/j.cplett.2024.141326

Unveiling the physical properties of RbCu3MSe4 (M = Si, Ge) direct band gap semiconductors: A systematic first-principles study 2024

Muhammad Salman Khan Banat Gul Bashir Ahmad Gulzar Khan Munirah D. Albaqami Saikh Mohammad Wabaidur Guenez Wafa Hijaz Ahmad

Materials Science in Semiconductor Processing, Volume: 177, Article Number: 108353

Impact Factor: 4.1 | **Quartile:** 2

DOI: 10.1016/j.mssp.2024.108353

Exploring the electronic, optical, and thermoelectric features of BaXCu3Se4 (X = In, Tl) quaternary chalcogenides: first-principles study 2024

ABDELHAY SALAH MOHAMED Banat Gul Muhammad Salman Khan Ghlamallah Benabdellah Bashir Ahmad Hijaz Ahmad

Physica Scripta, Vol:99, Number:07, Article Number:075928

Impact Factor: 2.6 | **Quartile:** 2 | **Citations:** 5

DOI: 10.1088/1402-4896/ad51b4

Insights into optoelectronic, thermodynamic, and thermoelectric properties of novel GePtCh (Ch = S, Se, Te) semiconductors: first-principles perspective 2024

Muhammad Salman Khan Banat Gul Ghlamallah Benabdellah Bashir Ahmad Nouf H Alotaibi Saikh Mohammad Hijaz Ahmad

Physica Scripta, Volume:99, Issue:6, Article Number:065939, Pages:17

Impact Factor: 2.9 | **Quartile:** 2 | **Citations:** 1

DOI: 10.1088/1402-4896/ad451a

Computational analysis of AlXSnSe4 (X = Ag and Cu) quaternary compounds: Uncovering first-principles insights into electronic structure, optical, and thermoelectric nature 2024

Ammar M. Tighezza Muhammad Salman Khan Banat Gul Gulzar Khan Bashir Ahmad Hijaz Ahmad

Chemical Physics Letters, Volume:841, Article Number: 141198

Impact Factor: 2.8 | **Quartile:** 2

DOI: 10.1016/j.cplett.2024.141198

Exploring the electronic structure, optical and magnetic nature in Sr2UXO6 (X = Fe, & Ni) double perovskites: First-principles study 2024

Ahmad Ali Banat Gul Muhammad Salman Khan Gulzar Khan Sikander Azam Ahmad A Ifseisi Guenez Wafa Faheem Abbas

Chemical Physics Letters, Volume 841, Article Number 141168

Impact Factor: 2.800 | **Quartile:** 2 | **Citations:** 1

DOI: https://doi.org/10.1016/j.cplett.2024.141168

The enhanced optoelectronic, and thermoelectric nature of novel KXCuS3 (X = Zr, Hf) semiconductors: An inclusive ab-initio study 2024

Muhammad Salman Khan Banat Gul Ghlamallah Benabdellah Gulzar Khan Bashir Ahmad Saikh Mohammad Wabaidur Ammar M. Tighezza Hijaz Ahmad

Optik, Volume: 300, Article Number: 171660

Impact Factor: 3.1 | **Quartile:** 1

DOI: 10.1016/j.ijleo.2024.171660

First-principles investigation of InAgASe4 (A = Ge, Sn) quaternary chalcogenides: Unveiling electronic, optical, and thermoelectric features 2024

Muhammad Salman Khan Banat Gul Bashir Ahmad Zia Ullah Gulzar Khan Ahmad A Ifseisi Hijaz Ahmad

Chemical Physics Letters, Vol:839, Article Number: 141133

Impact Factor: 2.8 | **Quartile:** 2 | **Citations:** 6

DOI: 10.1016/j.cplett.2024.141133

Tailoring the optoelectronic, thermoelectric, and thermodynamic properties of rare-earth quaternary chalcogenides: An inclusive first-principles study 2024

Muhammad Salman Khan Banat Gul Ghlamallah Benabdellah Bashir Ahmad Munirah D. Albaqami Saikh Mohammad Wabaidur Hijaz Ahmad

Materials Today Communications, Volume 38, Article Number 107848

Impact Factor: 3.8 | **Quartile:** 2 | **Citations:** 18

DOI: https://doi.org/10.1016/j.mtcomm.2023.107848

First-principles study of the electronic structure, optical, thermodynamic, and thermoelectric nature in MgACu3Se4 (A = Sc, Y) semiconductors 2024

Muhammad Salman Khan Banat Gul Ghlamallah Benabdellah Bashir Ahmad Mohammad Rezaul Karim4 Ibrahim A. Alnaser Hijaz Ahmad

Optical and Quantum Electronics, Volume 56, Article Number 609, Pages: 22

Impact Factor: 3.0 | **Quartile:** 2 | **Citations:** 9

DOI: 10.1007/s11082-023-06264-9

Insight into the electronic, optical, and transport properties of novel BaLaCuX3 (X = S, Se, and Te) quaternary chalcogenides 2024

Muhammad Salman Khan Banat Gul Bashir Ahmad Ammar M. Tighezza Hijaz Ahmad

Journal of Solid State Chemistry, Volume 330, Article Number 124496

Impact Factor: 3.3 | **Quartile:** 2 | **Citations:** 12

DOI: https://doi.org/10.1016/j.jssc.2023.124496

Cu-based novel transition-metals chalcogenides for advanced optoelectronic and thermoelectric devices: first-principles study 2024

Banat Gul Muhammad Salman Khan Mostafizur Rahaman3 Govindasami Periyasami3 Hijaz Ahmad

Physica Scripta, Volume: 99, Number: 02, Article Number:025954

Impact Factor: 2.9 | **Quartile:** 2 | **Citations:** 10

DOI: 10.1088/1402-4896/ad1c7c

First-principles study of electronic, optical, magnetic, and thermoelectric properties of novel Sr2UXO6 (X = Mn, Zn) double perovskites 2024

Ahmad Ali Muhammad Salman Khan Muhammad Irfan Gulzar Khan Banat Gul Sikander Azam Haris Haider Abd Ullah Mohammad Rezaul Karim Ibrahim A. Alnaser Faheem Abbas

Chemical Physics Letters, Volume 835, Article Number: 141019

Impact Factor: 2.8 | **Quartile:** 2 | **Citations:** 10

DOI: 10.1016/j.cplett.2023.141019

Unveiling the electronic, optical, thermoelectric, and thermodynamic properties of novel SrXCu3Se4 (X = In, Tl) materials: A systematic DFT study 2024

Muhammad Salman Khan Banat Gul Ghlamallah Benabdellah Bashir Ahmad Mohamed Ouladsmane Hijaz Ahmad

Chemical Physics Letters, Volume 835, Article Number 141012

Impact Factor: 2.80 | **Quartile:** 2 | **Citations:** 12

DOI: https://doi.org/10.1016/j.cplett.2023.141012

Exploring the electronic, magnetic, and elastic properties of binary AB2 (A = Sc, Y, and La; B = Fe, Co, and Ni) intermetallics: First-principles study 2023

Sundas Ara Ahmad Ali Banat Gul Gulzar Khan Zahid Ali Mohamed Ouladsmane Muhammad Salman Khan Faheem Abbas Syed Zulfiqar Shaukat Ali Khattak Tahirzeb Khan

Materials Science and Engineering B: Solid-State Materials for Advanced Technology, Volume 298, Article Number:116881

Impact Factor: 3.6 | **Quartile:** 2 | **Citations:** 3

DOI: 10.1016/j.mseb.2023.116881

Unveiling the electronic structure and optical properties of two-dimensional TMDCs: first-principles study 2023

Banat Gul Muhammad Salman Khan Abdelhay Salah Mohamed Guenez Wafa Hijaz Ahmad

Optical Materials Express, Volume 13, No. 12, Pages 3688-3702

Impact Factor: 2.8 | **Quartile:** 2 | **Citations:** 1

DOI: https://doi.org/10.1364/OME.502050

First-principles study of the optoelectronic and thermoelectric properties of lead-free ASnI3 (A = K, Rb, and Cs) novel halide perovskites 2023

Banat Gul Muhammad Salman Khan Muhammad Aasim Gulzar Khan Hijaz Ahmad Phatiphat Thounthong

Physica B : Condensed Matter, Physica B 669 (2023) 415316

Impact Factor: 2.8 | **Quartile:** 3 | **Citations:** 3

DOI: 10.1016/j.physb.2023.415316

Insight into the Optoelectronic Nature and Mechanical Stability of Binary Chalcogenides: A First-Principles Study 2023

Banat Gul Md. Fayz-Al-Asad Muhammad Salman Khan Mostafizur Rahaman Govindasami Periyasami Hijaz Ahmad

ChemElectroChem, Volume10, Issue22, Article Number:e202300368,

Impact Factor: 4.0 | **Quartile:** 2 | **Citations:** 3

DOI: 10.1002/celc.202300368

First-principles study of potassium-based novel chalcogenide materials for optoelectronic and thermoelectric devices 2023

Banat Gul Muhammad Salman Khan AhmadAlfseisi Hijaz Ahmad

Physica scripta, Volume 98, Number 11, Article Number: 115927

Impact Factor: 2.9 | **Quartile:** 2 | **Citations:** 13

DOI: 10.1088/1402-4896/acfeaa

Exploring the electronic, optical, and thermoelectric properties of Ba2GeX4 (X = S, and Se) novel chalcogenides 2023

Banat Gul Muhammad Salman Khan Bashir Ahmad Govindasami Periyasami Mostafizur Rahaman Hijaz Ahmad

Journal of Solid State Chemistry, 326 (2023) 124243

Impact Factor: 3.3 | **Quartile:** 2 | **Citations:** 1

DOI: 10.1016/j.jssc.2023.124243

The spin-polarized electronic and optical properties of novel Ba2TaXO6 (X = Co, Fe, In) for optoelectronic applications: An ab-initio study 2023

Ahmad Ali Muhammad Salman Khan Gulzar Khan Banat Gul Ahmed M Tawfeek Sikandar Azam Faheem Abbas Syed Zulfiqar Shaukat Ali Khattak Tahirzeb Khan Said Karim Shah

Journal of Solid State Chemistry, Vol:326, Article Number: 124211

Impact Factor: 3.3 | **Quartile:** 2 | **Citations:** 11

DOI: 10.1016/j.jssc.2023.124211

A first-principles study of the electronic, optical, and transport properties of novel transitionmetal dichalcogenides 2023

Banat Gul Muhammad Salman Khan Bashir Ahmad Mostafizur Rahaman Paride O. Lolika Guenez Wafa Hijaz Ahmad

Materials Advances , Volume 4, Pages 4204-4215

Impact Factor: 5.200 | **Quartile:** 2 | **Citations:** 14

DOI: 10.1039/D3MA00398A

First-Principles Investigation of Novel Alkali-Based Lead-Free Halide Perovskites for Advanced Optoelectronic Applications 2023

Banat Gul Muhammad Salman Khan M Aasim Ahmad A Ifseisi Gulzar Khan Hijaz Ahmad

ACS Omega , Vol:8, Issue:36, Pages:32784–32793

Impact Factor: 4.1 | **Quartile:** 2 | **Citations:** 2

DOI: 10.1021/acsomega.3c03756

Ab-initio study about the electronic structure, optical, and transport properties of novel AIn2O4 (A = Ca, Sr, and Na) materials 2023

Banat Gul Muhammad Salman Khan Gulzar Khan Hijaz Ahmad

Modelling And Simulation In Materials Science And Engineering, Volume 31, Number: 06, Article Number:065006,

Impact Factor: 1.8 | **Quartile:** 3 | **Citations:** 1

DOI: 10.1088/1361-651X/acdfef

Exploring the electronic, optical, and thermometric properties of novel AlCuX2 (X = S, Se, Te) semiconductors: a first-principles study 2023

Merieme Benaadad Banat Gul Muhammad Salman Khan Abdelhakim Nafidi

Journal of materials science , Vol:58, Pages7362-7379

Impact Factor: 4.682 | **Quartile:** 2 | **Citations:** 17

DOI: 10.1007/s10853-023-08506-3

Investigating the Optoelectronic and Thermoelectric Properties of CdTe Systems in Different Phases: A First-Principles Study 2023

Hazem Abu-Farsakh Banat Gul Muhammad Salman Khan

ACS Omega , Vol: 8, No.16, Pages:14742-14751

Impact Factor: 4.132 | **Quartile:** 2 | **Citations:** 18

DOI: 10.1021/acsomega.3c00757

The physical properties of RbAuX (X = S, Se, Te) novel chalcogenides for advanced optoelectronic applications: An ab-initio study 2023

Muhammad Salman Khan Banat Gul Gulzar Khan Hijaz Ahmad Bandar Almohsin

Computational Materials Science , Volume 221, Article Number 112098

Impact Factor: 3.572 | **Quartile:** 3 | **Citations:** 12

DOI: https://doi.org/10.1016/j.commatsci.2023.112098

First principle study of strain tunable electronic and optical properties of half-Heusler alloys XCoGe (X=V, Nb, Ta) 2023

Wilayat Khan Banat Gul H.U. Din Sikander Azam Haroon Asghar Sikandar Aftab H. Elhosiny Ali

Journal of Solid State Chemistry, Volume 319, Article Number 123827

Impact Factor: 3.656 | **Quartile:** 2 | **Citations:** 7

DOI: https://doi.org/10.1016/j.jssc.2022.123827

Enlightening the stability and optoelectronic properties of Ba2MLnSe5 (M = Ga, In; Ln = Y, Nd, Sm, Gd, Dy, Er) semiconductors: A first-principles study 2023

Sikander Azam Banat Gul Nargis Ali Khalil Ahmad Rashid Khan H.H. Hegazy Wilayat Khan Sikandar Aftab Altaf Ur Rahman

Journal of Solid State Chemistry, Volume 319, Article Number 123767

Impact Factor: 3.656 | **Quartile:** 2 | **Citations:** 2

DOI: https://doi.org/10.1016/j.jssc.2022.123767

Computational evaluation of novel barium zinc chalcogenides Ba2ZnCh3 (Ch = S, Se, Te) for advanced optoelectronic applications 2023

Muhammad Salman Khan Banat Gul Guenez Wafa Gulzar Khan

Physical Chemistry Chemical Physics, Volume:25, Issue:5, Page:4035-4046

Impact Factor: 3.945 | **Quartile:** 1 | **Citations:** 4

DOI: 10.1039/d2cp03711d

First-principles analysis of novel Mg-based group II-VI materials for advanced optoelectronics devices 2023

Banat Gul Muhammad Salman Khan Hijaz Ahmad Phatiphat Thounthong

Journal of Solid State Chemistry, Volume 318, Article Number 123726

Impact Factor: 3.656 | **Quartile:** 2 | **Citations:** 11

DOI: https://doi.org/10.1016/j.jssc.2022.123726

First-principles calculations to investigate the optoelectronic, and thermoelectric nature of zinc based group II-VI direct band semiconductors 2022

Banat Gul Muhammad Salman Khan Gulzar Khan Hijaz Ahmad Phatiphat Thounthong Shaukat Ali Khattak Syed Zulfiqar Tahirzeb Khan

Optik , Volume 271, Article Number 170143

Impact Factor: 2.840 | **Quartile:** 2 | **Citations:** 6

DOI: https://doi.org/10.1016/j.ijleo.2022.170143

Characterization of extracellular vesicles by flow cytometry: Challenges and promises 2022

Banat Gul Feryal Syed Shamim Khan Abid Iqbal Iftikhar Ahmad

Micron , Volume 161, Article Number 103341

Impact Factor: 2.381 | **Quartile:** 3 | **Citations:** 23

DOI: https://doi.org/10.1016/j.micron.2022.103341

Insight into the optoelectronic and thermoelectric nature of NaLiX (X = S, Se, Te) novel direct bandgap semiconductors: a first-principles study 2022

Muhammad Salman Khan Banat Gul Hazem Abu-Farsakh Gulzar Khan

Journal of Materials Chemistry C, Volume 10, Issue 33, Pages 12001-12011

Impact Factor: 8.067 | **Quartile:** 1 | **Citations:** 17

DOI: 10.1039/d2tc01306a

Computational characterization of capacitive coupled HBr/CI2/O2 plasma 2022

Banat Gul Abid Iqbal Majid Khan Iftikhar Ahmad

Contributions to Plasma Physics, Volume 62, Article Number e202200015

Impact Factor: 1.608 | **Quartile:** 3 | **Citations:** 1

DOI: https://onlinelibrary.wiley.com/doi/10.1002/ctpp.202200015

First principles-based study about electronic, optical, and transport nature of novel A2ZnSe2 (A = K and Na) materials 2022

Muhammad Salman Khan Banat Gul Gulzar Khan Saubia Khalid Shaukat Ali Khattak Benabdellah Ghlamallah Muhammad Ajaz Syed Zulfiqar Tanveer Ahmad

Journal of Solid State Chemistry, Volume 311, Article Number 123107

Impact Factor: 3.498 | **Quartile:** 2 | **Citations:** 10

DOI: https://doi.org/10.1016/j.jssc.2022.123107

Investigating the optoelectronic and thermoelectric nature of IrSbX (X = S, Se, and Te) TMC's semiconductors: By employing the accurate modified Becke-Johnson exchange potential 2022

Muhammad Salman Khan Banat Gul Bashir Ahmad Gulzar Khan Shaukat Ali Khattak Tahirzeb Khan Muhammad Ajaz Syed Zulfiqar Fazal Wahab

Materials Science in Semiconductor Processing, Volume144, Article Number 106577

Impact Factor: 3.927 | **Quartile:** 1 | **Citations:** 15

DOI: https://doi.org/10.1016/j.mssp.2022.106577

Exploring the exemplary electronic and optical nature in NaInX2 (X ¼ S, Se and Te) ternary type chalcogenides materials: A GGAþU and hybrid functionals study 2022

Muhammad Salman Khan Banat Gul Gulzar Khan Shaukat Ali Khattak Muhammad Ajaz Tahirzeb Khan Syed Zulfiqar

Journal of Solid State Chemistry, Volume 307, Article Number 122853

Impact Factor: 3.498 | **Quartile:** 2 | **Citations:** 18

DOI: https://doi.org/10.1016/j.jssc.2021.122853

Tunable electronic and magnetic properties of single layer CdS via Li substitutional doping: A first-principle study 2022

Altaf Ur Rahman Talha Sadiq Rashid Khan Rimsha Anwar Banat Gul Alaa Dahshan

Journal of Physics and Chemistry of Solids, Volume 161, Article Number 110380

Impact Factor: 3.995 | **Quartile:** 2 | **Citations:** 4

DOI: https://doi.org/10.1016/j.jpcs.2021.110380

Insight into the electronic, optical and transport nature of Al2CdX4 (X = S, Se and Te) employing the accurate mBJ approach: Novel materials for opto-electronic devices 2021

Muhammad Salman Khan Banat Gul Gulzar Khan Benabdellah Ghlamallah Shaukat Ali Khattak Majid Khan Tahirzeb khan Muhammad Ajaz Syed Zulfiqar Wazir Ahmad

Materials Science in Semiconductor Processing, Volume 135, Article Number 106098

Impact Factor: 4.644 | **Quartile:** 2 | **Citations:** 19

DOI: https://doi.org/10.1016/j.mssp.2021.106098

First principle study of Er, co-doped Fe and Yb of NaBiF6; a promising materials for optoelectronic and transport properties; probed by DFT 2021

S. Ullah Sikander Azam Banat Gul F. Subhan S. Muhammad A. Dahshan S.S Ahmad A. Kalsoom S. Faisal H. H. Hegazy

Digest Journal of Nanomaterials and Biostructures, Vol. 16, No. 3, July - September 2021, p. 823 - 830

Impact Factor: 0.96 | **Quartile:** 4

DOI: N/A

Comparison of Mueller matrix differential decomposition and transformation 2021

Mauz Iqbal Shamim Khan Banat Gul Manzoor Ahmad Iftikhar Ahmad

Biomedical Signal Processing and Control, Volume 69, Article Number 102815

Impact Factor: 5.076 | **Quartile:** 2 | **Citations:** 2

DOI: https://doi.org/10.1016/j.bspc.2021.102815

Isolating individual polarization effects from the Mueller matrix: comparison of two non-decomposition techniques 2021

Mauz Iqbal Banat Gul Shamim Khan Samara Ashraf Iftikhar Ahmad

Biomedical Optics Express, Volume 12, Issue 7, Pages 3743-3759

Impact Factor: 3.562 | **Quartile:** 2 | **Citations:** 7

DOI: https://doi.org/10.1364/BOE.426637

Electronic band structure and optical characteristic of silver lanthanide XAgSe2 (X = Eu and Er) dichalcogenides: Insight from DFT computations 2021

Sikander Azam Muhammad Irfan S. Bin Omran R .Khenata Muhammad Adil Banat Gul Shabir Muhammad Gulzar Khan Bakhtiar Ul Haq Tuan V. Vu

Inorganic Chemistry Communication, Volume 129, Article Number 108586

Impact Factor: 3.428 | **Quartile:** 2 | **Citations:** 3

DOI: https://doi.org/10.1016/j.inoche.2021.108586

Effect of Pb doping on electronic and thermoelectric properties of thallium antimony telluride (Tl8.33Sb1.67???? xPbxTe6) nano-compound: A combined experimental and theoretical investigations 2021

Muhammad Tufail Altaf Ur Rehman Banat Gul Waseem Akram Haseeb Ullah Muhammad Waqas Iqbal Shahid M. Ramay Wiqar Hussain Shah

Physica B: Condensed Matter, Volume 608, Article Number 412789

Impact Factor: 2.988 | **Quartile:** 3 | **Citations:** 15

DOI: https://doi.org/10.1016/j.physb.2020.412789

Comparative study of 3 x 3 Mueller matrix transformation and polar decomposition 2021

Ahmar Khaliq Sumara Ashraf Banat Gul Iftikhar Ahmad

Optics Communications, Volume 485, Article Number 126756

Impact Factor: 2.335 | **Quartile:** 3 | **Citations:** 17

DOI: https://doi.org/10.1016/j.optcom.2021.126756

Numerical study of SF6/O2 plasma discharge for etching applications 2021

Banat Gul Almas Gul Aman Ur Rehman Iftikhar Ahmad

Plasma Chemistry and Plasma Processing, Pages 1-16

Impact Factor: 3.337 | **Quartile:** 2 | **Citations:** 8

DOI: https://doi.org/10.1007/s11090-021-10170-x

Cell refractive index: Models, insights, applications and future perspectives 2021

Hasan Nisar Banat Gul Sumara Ashraf Shamim Khan Iftikhar Ahmad

Photodiagnosis and Photodynamic Therapy, Volume 33, Article Number 102096

Impact Factor: 3.577 | **Quartile:** 3 | **Citations:** 62

DOI: https://doi.org/10.1016/j.pdpdt.2020.102096

Refractive index of biological tissues: Review, measurement techniques, and applications 2021

Banat Gul Rana Khan Shamim Khan Hasan Nisar Iftikhar Ahmad

Photodiagnosis and Photodynamic Therapy, Volume 33, Article Number 102192

Impact Factor: 3.577 | **Quartile:** 3 | **Citations:** 115

DOI: https://doi.org/10.1016/j.pdpdt.2021.102192

Ab-initio study about the electronic, optical and thermoelectric nature of α-, β-, and γ-phases of CdS semiconductor: using the accurate m-BJ approach 2021

Muhammad Salman Khan Gulzar Khan Merieme Benaadad Benabdellah Ghlamallah Muhammad Adil Khan Muhammad Salman Khan Banat Gul Gulzar Kha Merieme Benaadad Benabdellah Ghlamallah Muhammad Adil Khan Shaukat Ali Khattak Tahirzeb Khan Syed Zulfiqar Said Karim Shah

Physica Scripta, Volume 96, Number 5, Article Number 055803

Impact Factor: 3.081 | **Quartile:** 2 | **Citations:** 20

DOI: https://doi.org/10.1088/1402-4896/abe6bd

Proposal of new spinel oxides semiconductors ZnGaO2, [ZnGaO2]:Mn3+ and Rh3+: ab-initio calculations and prospects for thermophysical and optoelectronic applications 2020

Muhammad Irfan Sikander Azam Thamara Alshahrai Bakhtiar Ul Haq Taun V. Vu Safder Hussain Banat Gul

Journal of Molecular Graphics and Modelling, Volume 101, Article Number 107750

Impact Factor: 2.518 | **Quartile:** 2 | **Citations:** 1

DOI: https://doi.org/10.1016/j.jmgm.2020.107750

Toward controlled thermoelectric properties of Pb and Sb co-doped nanostructured Thallium Telluride for energy applications 2020

Waqas Muhammad Khan Altaf Ur Rahman Muhammad Tufail Muhammad Ibrar Wiqar Hussain Shah Waqar Adil Syed Banat Gul

Materials Research Express, Volume 7, Article Number 105010

Impact Factor: 1.620 | **Quartile:** 4 | **Citations:** 9

DOI: https://doi.org/10.1088/2053-1591/abbb54

Numerical investigation of the e_x000b_ect of variation of gas mixture ratio on density distribution of etchant species (Br, Br+, Cl, Cl+, and H) in HBr/Cl2/Ar plasma discharge 2020

Muhammad Majeed Banat Gul Gulfam Zia Aman Ur Rehman

European Physical Journal D, Volume 74, Article Number 113

Impact Factor: 1.425 | **Quartile:** 2 | **Citations:** 3

DOI: https://doi.org/10.1140/epjd/e2020-100633-5

DFT simulations of optoelectronic and elastic features of novel cubic Samarium Zirconate (Sm2Zr2O7) crystals 2019

MuhammadIrfan Banat Gul Sikander Azam Safdar Hussain Saleem Ayaz Khan Madikha Makhdoom Shoaib Khan I.V. Kityk Shabbir Muhammad Saifeldin M. Siddeeg

Computational Condensed Matter, Volume 21, Article Number e00414

Impact Factor: N/A | **Citations:** 8

DOI: https://doi.org/10.1016/j.cocom.2019.e00414

First-Principles Description of the Different Phases in the Li2NH Compound: Electronic Structure and Optical Properties 2019

Madikha Makhdoom M Imran Jamil Sikander Azam Muhammad Irfan Zeesham Abbas Banat Gul Saleem Ayaz Khan Xiaotian Wang

Journal of the Korean Physical Society, Volume 74, No. 12, Pages 1140-1145

Impact Factor: 0.535 | **Quartile:** 4 | **Citations:** 30

DOI: https://doi.org/10.3938/jkps.74.1140

First-principles calculations of optoelectronic properties of CaO: Eu+2 (SrO: Eu+2) for energy applications 2018

Sikander Azam Zeesham Abbas Banat Gul M Shoaib Khan Muhammad Irfan M . Sohail Saleem Ayaz Khan Faiza Naseer Ali Irfan Gulzar Khan D. P. Raik R. Khenata

International Journal of Modern Physics B, Volume 32, No. 30, Article Number 1850333

Impact Factor: 0.863 | **Quartile:** 4 | **Citations:** 13

DOI: DOI: 10.1142/S0217979218503332

Numerical Study of Capacitive Coupled HBr/Cl2 Plasma Discharge for Dry Etch Applications 2016

Banat Gul Iftikhar Ahmad Gulfam Zia Aman Ur Rahman

Physics of Plasmas, Volume 23, Issue 9, Article Number 093508

Impact Factor: 2.115 | **Quartile:** 2 | **Citations:** 11

DOI: http://dx.doi.org/10.1063/1.4962570

Fluid Simulation of Capacitively Coupled HBr/Ar Plasma for Etching Applications 2016

Banat Gul Aman Ur Rahman

Plasma Chemistry and Plasma Processing, Volume 36, Pages 1363-1375

Impact Factor: 2.355 | **Quartile:** 2 | **Citations:** 6

DOI: 10.1007/s11090-016-9726-1

Numerical Study of HBr/He Discharges in Capacitive Coupled Plasma Reactor 2016

Aman Ur Rahman Banat Gul

Plasma Chemistry and Plasma Processing, Volume 36, Pages 857–868

Impact Factor: 2.355 | **Quartile:** 2 | **Citations:** 1

DOI: DOI 10.1007/s11090-015-9689-7

A numerical study of the effect of various reactions, pressure and gas mixture ratio on the density distribution of etchant species (H, Br, Br1, and HBr1) in HBr/He plasma 2016

Banat Gul Aman Ur Rahman

Physics of Plasmas, Volume 23, Article Number 043506

Impact Factor: 2.115 | **Quartile:** 2 | **Citations:** 3

DOI: https://doi.org/10.1063/1.4945757

A comparative study of capacitively coupled HBr/He, HBr/Ar plasmas for etching applications: numerical investigation by fluid model 2015

Banat Gul Aman Ur Rahman

Physics of Plasmas, Volume 22, Article Number 103520

Impact Factor: 2.207 | **Quartile:** 2 | **Citations:** 8

DOI: https://aip.scitation.org/doi/10.1063/1.4934922

Numerical investigation of HBr/He transformer coupled plasmas used for silicon etching," 2014

Banat Gul Stefan Tink Aman Ur Rehman Annemie Boagarts Peter De Schepp

Journal of Physics D: Applied Physics, Volume 48, Number 2, Article Number 025202

Impact Factor: 2.721 | **Quartile:** 1 | **Citations:** 9

DOI: doi:10.1088/0022-3727/48/2/025202

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Reviewed Papers for Journals

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Optics & Laser Technology 2024

Reviewed Papers for Journals

Impact Factor: 5.4

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Materials Chemistry and Physics 2024

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