

CURRICULUM VITAE

Dr. Ateeq-ur-Rehman

Associate Professor [Tenured] Department
of Physics, Faculty of Sciences,
University of Agriculture, Faisalabad 38040, Pakistan



PERSONAL PROFILE:

Present Status: Associate Professor (Tenured)
Field of Specialization: Condensed Matter Physics
Permanent Address: Arazi Shanker Das P/O Sadar Gogera, District Okara, Pakistan
Date of Birth: 4th May, 1979
Mobile No: +92 300 4098421
E-mail: ateeq215@gmail.com , ateeq.rehman@uaf.edu.pk
Nationality: Pakistani

EDUCATION:

Ph.D. (Condensed Matter Physics)

June 2013

Department of Physics, Zhejiang University, Hangzhou, China

Thesis: *Spectro-Microscopy Characterization of Organic Semiconductors*

Advisor: Prof. Dr. Bao Shining

Courses: Surface and Interface Electronic States, Condensed Matter Physics-Cutting-Edge Symposia, Condensed Matter Physics Theory, Modern Physics Experiments, Chinese Language, Survey of China.

M. Phil. (Solid State Physics)

July 2004

Centre of Excellence in Solid State Physics, University of the Punjab, Lahore

Thesis: *Chaos and Tunneling in a Double Well System*

Advisor: Prof. Dr. Tariq Abdullah

M.Sc. (Physics) University of the Punjab, Lahore

June 2001

B.Sc. (Physics, Mathematics A & B, English) Govt Degree College Okara, Punjab **August 1999**

FIELD OF RESEARCH- SURFACE AND INTERFACE PHYSICS

Nanomaterials, Surface and Interface Physics, Growth, Morphology, Electronic structure, Structural and Electronic properties of materials, Energy level alignment, Electronic density of states, XPS, UPS, AR-UPS, STM, DFT, SEM, UV-Visible Spectroscopy, AFM., etc.

EMPLOYMENT HISTORY:

Listed in chronological order; included position details and dates (MM/YYYY)

08/2024 to date Associate Professor, Department of Physics, University of Agriculture, Faisalabad (UAF), Punjab-Pakistan [Tenure Track System]. Main duties: Teaching, Research, Administration, and Associate Senior Tutor.

02/2015-08/2024 Assistant Professor, Department of Physics, University of Agriculture, Faisalabad (UAF), Punjab-Pakistan [Tenure Track System]. Main duties: Teaching, Research, Administration, and Associate Senior Tutor.

10/2014-02/2015 Assistant Professor, Department of Physics, University of Management and Technology (UMT), Lahore, Punjab-Pakistan. Main Duties: Teaching and Research

09/2013-09/2014 Assistant Professor, Department of Physics, University of Agriculture, Faisalabad (UAF), Punjab-Pakistan [IPFP]. Main Duties: Teaching, Research, Administration

09/2009-07/2013 Ph.D. Scholar at the Institute of Condensed Matter Physics, Department of Physics, Zhejiang University, Hangzhou-China
Thesis title: Spectro-Microscopy Characterization of Organic Semiconductors
Adviser: Prof. Bao Shining

11/2006-08/2009 University Lecturer in the Physics Department at Forman Christian College (Chartered University), Lahore-Pakistan. Main duties were to teach physics to undergraduate and graduate students. Additional duties: (1) lab instructor of graduate students, (2) advisor of graduate students, (3) in charge of the departmental purchase committee, (4) proctor, (5) co-president of Benade Physics Society.

1. INTERNATIONAL PEER REVIEWED PUBLICATIONS (TOTAL IF = 126.79):

Sr. No.	Article	Impact Factor
37	Ghulam M. Mustafa, Bisma Younas, Muhammad Waseem, Ateeq-ur-Rehman, N.A. Noor, Khalid M. Elhindi, and Sohail Mumtaz, " Investigation of optoelectronic and thermoelectric characteristics of $\text{Ti}_2\text{Os}(\text{Cl}/\text{Br})_6$ double perovskites for renewable energy applications, Materials Science in Semiconductor Processing 192 (2025) 1109420 ISSN No. 1369-8001 https://doi.org/10.1016/j.mssp.2025.109420	4.2
36	Kashia Rashid, Umme Omeema, Abuzar Hasnain Raza, Ansa Manzoor, Muhammad Sajid Abbas, Ghulam Mustafa, Muhammad Adnan Iqbal, Ghazala Iram, Manahil Akram, Ateeq-ur-Rehman, " Role of metal-organic frameworks (MOFs) in electrochemical energy storage devices including batteries and supercapacitors, Rev Inorg Chem (2025) 1-44 ISSN No. 0193-4929 https://doi.org/10.1515/revic-2024-0137	4.1
35	Waqas Latif, Muhammad Hanan, Aliza Jaffar, Aresha Shafique, Sana Aziz, Ateeq-ur-Rehman , Kashif Kamran, Javed Iqbal, Maryam Hina, Muhammad Shabir Mahr, "SFX-based hole transport materials for advancement in perovskite and organic solar cells: DFT Computational insights and photovoltaic improvements", Materials Science & Engineering B 313 (2024) 117974-117889 ISSN No. 0921-5107	3.9

	https://doi.org/10.1016/j.mseb.2024.117974	
34	Ghazala Iram, Ateeq-ur-Rehman, Muhammad Adnan Iqbal, Ayesha Zafar, Adnan Majeed, Sofia Hayat, Mubashra Nawaz, "Advanced synthetic routes of metal organic frameworks and their diverse applications", Rev Inorg Chem (2024) 1-22 ISSN No. 0193-4929 https://doi.org/10.1515/revic-2023-0024	4.1

33	Noor, Tanzeela; Waqas, Muhammad; Shaban, Mohamed; Hameed, Ms. Shanza; Rehman, Ateeq ; Ahmed, Samia ; Alrafai, Halima; Al-Saeedi, Sameerah; Ibrahim, Mahmoud; Hadia, Nomery Mohamed Abass; Khera, Rasheed Ahmad; Hassan, Abeer A. "Designing thieno[3,4-c]pyrrole-4,6-dione core-based, A2-D-A1-D-A2 type acceptor molecules for promising photovoltaic parameters in organic photovoltaic cells", ACS Omega 9 (2024) 6403-6422 ISSN No. 2470-1343. https://doi.org/10.1021/acsomega.3c04970	3.51
32	Ayesha Idrees, Ateeq-ur-Rehman , Muhammad Waqas, Mohamed Shaban, Sameerah. Al-Saeedi, Naifa S. Alatawi, Mahmoud A. A. Ibrahim, Tamer H. A. Hasanin, N.M.A. Hadia and Rasheed Ahmad Khera, "Strategies Toward End-group Engineering of Chrysene Core-based Non-fullerene Acceptors for High Performance Organic Solar Cells: A DFT Study", J. Comput. Biophys. Chem. (2023) 1-26. ISSN No: 2737-4165 DOI: 10.1142/S2737416523420097	2.2
31	Khizar Hayat, Mahwish Shkeel, Muhammad Adnan Iqbal, Maria Khalid, Ching Kheng Quahd, Qin Ai Wong, Ateeq Ur Rehman , Mohd B. Khadeer Ahamed, Umer Farooq, Shahid Hameed, "Inhibition of Cell Proliferation by Silver (I)-N-Heterocyclic Carben Complexes, Synthesis, Spectral and X-Ray Crystallographic Characterization, Inorganica Chimica Acta 557 (2023) 121694-121702. ISSN No. 0020-1693. https://doi.org/10.1016/j.ica.2023.121694	2.8
30	Alvina Rasool, Beriham Basha, Abraham Elmushyakhi, Ismail Hossain, Attiq ur Rehman , Muhammad Ans, "Tuning the optoelectronic properties of acridine-triphenylamine (ACR-TPA) based novel hole transporting material for high efficiency perovskite and organic solar cell", J. Mol. Graph 123 (2023) 108526. ISSN No. 1093-3263 https://doi.org/10.1016/j.jmgm.2023.108526	2.94
29	Komal Bashir, Faisal Jamil, Muhammad Adnan Iqbal*, Sadia Nazir, Umar Sohail Shoukat, Anam Bashir, Kainat Nasrullah and Ateeq-Ur Rehman Detection of different chemical moieties in aqueous media by luminescent Europium as sensor", Rev Inorg Chem (2023) 0034. ISSN No. 0193-4929 https://doi.org/10.1515/revic-2022-0034	1.62
28	Aneeqa Masood, Hajra Hanif, Shahid M. Ramay, Mahmood Ul Hassan, Sultan Akhtar, A.R. Rehman , Asif Mahmood, Syed Mansoor Ali, Abubaker A. Siddig, Mabrook Saleh Amer, Naushad Ahmad, Aamir Razaq, "Development of Cerium and Natural Fibers Freestanding Composite Electrodes for Modern Bendable Energy Storage Applications", Journal of Materials Research and Technology 23 (2023) 2219-2230. ISSN No. 2238-7854 https://doi.org/10.1016/j.jmrt.2023.01.143	6.26
27	A. Shahzad, M. Kashif, Ateeq-ur-Rehman , K. Kamran, S. Ghani, M. S. Shifa, M. Yaseen, "Modulating the optoelectronic and thermoelectric properties of chalcopyrite AgXTe ₂ (X: Ga, In) via in-plane biaxial strain", Chalcogenide Letters 18 (2021) 797 ISSN No. 1584-8663	0.89
26	Syed Mansoor Ali, Shahid M Ramay, Asif Mahmood, Ateeq ur Rehman , Ghulam Ali, Syed Danish Ali, Tauriq Uzzaman, "Au/TiN nanostructure materials for energy storage applications", Journal of Materials Science: Materials in Electronics 05302 (2021) 05312. ISSN No. 0957-4522 https://doi.org/10.1007/s10854-021-05302-0	2.78
25	R. A. Rehman , H. J. Zhang, A. Razaq, S. M. Ramay, M. Hasan, M. A. Javed, S. Ateeq, "Spectro-Microscopy Characterization of CoPc-Au(111) Interface", Physica E: Low-dimensional Systems and Nanostructures 125 (2021) 114357. ISSN No. 1386-9477 https://doi.org/10.1016/j.physe.2020.114357	3.38
24	Attiq-ur-Rehman, M. Waseem Ashraf, Asif Mahmood, Ateeq ur Rehman , S. M. Ramay, M. Saleem, "Growth of Zr-BiFeO ₃ nanostructures on two step anodized porous alumina for estimation of optical and dielectric response", Physica E: Low-dimensional Systems and Nanostructures 127 (2021) 114513 ISSN No. 1386-9477 https://doi.org/10.1016/j.physe.2020.114513	3.38

23	Murtaza Saleem, Shahid Atiq, Shahid M Ramay, Asif Mahmood, Ateeq-ur-Rehman , Saadat A Siddiqi, "Investigations on electronic and optical properties of Ag:MoS ₂ co-sputtered thin films", Chem. Phys. Lett. 760 (2020) 138032. ISSN No. 0009-2614 https://doi.org/10.1016/j.cplett.2020.138032	2.72
22	Muhammad Irfan, Rabia Rehman, Mohdi Razil, Sahafiq ur Rehman, Ateeq-ur-Rehman , Muhammad Adnan Iqbal, "Organotellurium Compounds: An Overview of Synthetic Methodologies", Rev Inorg Chem (2020) ISSN No. 0193-4929 https://doi.org/10.1515/revic-2020-0006	1.6
21	Muhammad Kashif, Muhammad A Hanif, Ateeq ur Rehman , Muhammad Irfan Majeed, "Surface Enhanced Raman Spectroscopy of the serum samples for characterization of Hepatitis C and prediction of the viral loads", Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy 242 (2020) 118729. ISSN No. 1386-1425 https://doi.org/10.1016/j.saa.2020.118729	3.96
20	Hafiz M Asif Javed, Muhammad Sarfaraz, M. Salman Musafa, Wenxiu Que, Ateeq ur Rehman , Muhammad Awais, Shahid Hussain, Akbar Ali Qureshi, Muhammad Zahir Iqbal, "Efficient Cu/rGO/TiO ₂ Nanocomposite Based Photoanode for Highly-Optimized Plasmonic Dye-Sensitized Solar Cells", Applied Nanoscience 10 (2020) 2419. ISSN No. 2190-5517 https://doi.org/10.1007/s13204-020-01430-x	3.14
19	Rao Aqal Shahzad, Javed Iqbal, Muhammad Usman, Riaz Hussain, Asif Javed, Attig ur Rehman , Muhammad Usman Alvi, Muhammad Khalid, "Designing of Benzothiole based Non-fullerene Acceptor (NFA) Molecules for Highly Efficient Organic Solar Cells", Computational and Theoretical Chemistry 1181(2020) 112833. ISSN No. 2210-271X https://doi.org/10.1016/j.comptc.2020.112833	1.605
18	Aneeqa Masood, Zahid Shoukat, A. R. Rehman , Zohaib Shahid, Ayesha Chaudhry, Asif Mahmood, Shahid Ramay, Aamir Razaq, "Nickel Hydroxide and Lignocelluloses Fibers Based Flexible Paper Electrodes for Energy Storage Applications", Journal of Materials Science: Materials in Electronics 30 (2019) 14772. ISSN No. 0957-4522 https://doi.org/10.1007/s10854-019-01850-8	2.8
17	Zahid Shaukat, Aneeqa Masood, Zunaira Yousaf, Maham Sana, M Faisal Iqbal, A. R. Rehman , I. Sultana, Aamir Razaq "High Capacity Natural Fiber Coated Conductive and Electroactive Composite Papers Electrode for Energy Storage Applications", Journal of Applied Polymer Science 136 (2018) 47282. ISSN No. 0021-8995 https://doi.org/10.1002/app.47282	3.12
16	Ateeq-ur-Rehman , Zhang H .J, Peng Wang, Amir Razaq, Kurash Ibrahim, Bao Shining, "Charge Transfer at Hybrid Organic-inorganic Interfaces", Acta Physica Polonica A 134 (2018) 434. ISSN No. 1898-794X https://doi.org/10.12693/APhysPolA.134.434	0.64
15	Peng Wang, Ateeq-ur-Rehman , Liang Meng, Wen-Jie Li, Hong-Nian Li, Wen-Hua Zhang, Junfa Zhu, The photoemission study of Sr-intercalated C ₆₀ , Results in Physics 7 (2017) 3472. ISSN No. 2211-3797 https://doi.org/10.1016/j.rinp.2017.09.022	4.48
14	Cai, Yiliang; Zhang, Hanjie; Song, Junjie; Zhang, Yuxi; Ateeq-ur-Rehman ; He, Pei; "Bottom-up fabrication of graphene on Ru(0001) via molecular self-assembly", Nanotechnology 26 (2015) 295601. ISSN No. 0957-4484 https://doi.org/10.1088/0957-4484/26/29/295601	3.87
13	Ateeq-ur-Rehman , Cai Yi Liang , H.J. Zhang , Wu Ke, W.D. Dou, H.Y. Li, P. He, S.N.Bao, "Differences in the adsorption of FePc on coinage metal surfaces", Chin. Phys. B 22 (2013) 063101. ISSN No. 1674-1056 https://doi.org/10.1088/1674-1056/22/6/063101	1.49
12	Ateeq-ur-Rehman , Cai Yi Liang, Hanjie Zhang , Wu Ke, Weidong Dou , Haiyang Li , Pimo He, Shining Bao, "A shortcut for determining growth mode", Chin. Phys. B 22 (2013) 107202. ISSN No. 1674-1056 https://doi.org/10.1088/1674-1056/22/10/107202	1.49

11	Cai Yi Liang, Ateeq-ur-Rehman , H.J. Zhang, Wu Ke, H.Y. Li, P. He, S.N. Bao “The Transition behavior of FePc on Ag(110)”, Chem. Phys. Lett. 582 (2013) 90. ISSN No. 0009-2614 http://dx.doi.org/10.1016/j.cplett.2013.07.023	2.72
10	Ateeq-ur-Rehman , H.J. Zhang, H. Q. Qian, J. Dan, W. D. Dou, H. Y. Li, P. M. He, S. N. Bao, “A systematic spectroscopic study of the FePc-Si interfaces”, Physica E: Low-dimensional Systems and Nanostructures 44 (2012) 1572. ISSN No. 1386-9477 http://dx.doi.org/10.1016/j.physe.2012.03.030	3.38
9	Ateeq-ur-Rehman , Weidong Dou, Huiqin Qian, Hongying Mao, Frederik Floether, Hanjie Zhang, Haiyang Li, Pimo He, Shining Bao, “Adsorption behavior of iron phthalocyanine at the initial stage on Cu(100) surface”, Surf. Sci. 606 (2012) 1749. ISSN No. 0039-6028 http://dx.doi.org/10.1016/j.susc.2012.07.021	1.94
8	Huiqin Qian, Lizhen Jiang, Ateeq-ur-Rehman , Hanjie Zhang, Haiyang Li, Pimo He, Shining Bao, “The electronic properties at the iron-phthalocyanine/Ag(110) interface”, Chem. Phys. Lett. 537 (2012) 53. ISSN No. 0009-2614 http://dx.doi.org/10.1016/j.cplett.2012.04.011	2.72
7	Zhiyong Yang, Dong Zhang, Ateeq-ur-Rehman and Linxi Zhang, “Aggregation behavior of two separate polymers confined between two membranes”, Soft Matter 8 (2012) 1901. ISSN No. 1744-683X (print) 1744-6848 (web) https://doi.org/10.1039/c1sm06712e	3.14
6	Hanjie Zhang, Qian Huiqin, Jin Dan, Ateeq-ur-Rehman , Weidong Dou, Haiyang Li, Pimo He and Shining Bao, “The structure of FePc on Cu(100)”, Chem. Phys. Lett. 537 (2011) 553. ISSN No. 0009-2614 https://doi.org/10.1016/j.cplett.2010.12.066	2.72
5	Dan Jin, Wei Wang, Ateeq-ur-Rehman , Jiang Lizhen, Hanjie Zhang, Haiyang Li, Pimo He and Shining Bao, “Study on the interface between the organic and inorganic semiconductors”, Appl. Surf. Sci. 257 (2011) 4994. ISSN No. 0169-4332 https://doi.org/10.1016/j.apsusc.2011.01.009	6.70
4	Dan Jin, Ateeq-ur-Rehman , Qian Hui-Qin, Jiang Lizhen, Zhang Han-Jie, Li Haiyang, P. He, Bao Shi-Ning, “Geometric and electronic structures at the interface between iron phthalocyanine and Si (110)”, Chin. Phys. Lett. 28 (2011) 116804. ISSN No. 0256-307X (print) 1741-3540 (web) https://doi.org/10.1088/0256-307X/28/11/116804	1.48
3	Zhiyong Yang, Dong Zhang, Linxi Zhang, Chen Hongping, Ateeq-ur-Rehman and Haojun Liang, “Local coil-helix transition of semi flexible polymers confined in spheres”, Soft Matter 7 (2011) 6836. ISSN No. 1744-683X (print) 1744-6848 (web) https://doi.org/10.1039/c1sm05523b	3.14
2	Hongying Mao, Weidong Dou, Ateeq-ur-Rehman , Qing Liao, Hanjie Zhang, Haiyang Li, Pimo He and Shining Bao, “Molecular assembly of tetracene on the (2 × 1) O reconstructed Cu(110) surface, Appl. Surf. Sci. 256 (2010) 3598. ISSN No. 0169-4332 https://doi.org/10.1016/j.apsusc.2009.12.161	6.70

1	Zhiyong Yang, Shibei Li, Linxi Zhang, Ateeq-ur-Rehman , and Haojun Liang, "Translocation of α -helix chains through a nanopore", The J. Chem. Phys. 133 (2010) 54903. ISSN No. 0021-9606 https://doi.org/10.1063/1.3493332	2.99
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RESEARCH AND DEVELOPMENT:

Research Projects:

Sr. No	Title of Project	Year	Grant in PKR (in millions)	Funding Agency	Role	Status
1	Synthesis, characterization, and theoretical study of transition-metal dichalcogenides heterostructures for thermoelectrical applications	2020	Pak-Turk Researchers Mobility Grant Program 2019	Pak-Turk Govts	PI	Cancelled by the Turk Govt due to Covid19
2	Establishing Computational Research Laboratory (CRL)	2016	0.5	HEC	PI	Completed
3	Establishing Punjab-China Bio-energy Institute (PCBI)	2015	950.47	Govt of the Punjab	Team Member	Completed

(a) MOU AND LOI ESTABLISHED BY DR. ATEEQ-UR-REHMAN

- 1- I have developed a MoU between University of Agriculture, Faisalabad (Pakistan) and Gebze Technical University, Turkey on 07/01/2020 for a period of two years.

(b) Students Supervision:

Role	Completed			On-going		
	M.Sc.	M.Phil.	Ph. D.	M.Sc.	M.Phil.	Ph. D.
Main Supervisor	--	19	NIL	NIL	15	NIL
Member	NIL	20	1	NIL	20	NIL

2. EDITORSHIP/REVIEWER OF INTERNATIONAL JOURNALS:

1. Reviewed paper entitled "Band Bending induced resonant tunneling in ferroelectric tunnel junctions" submitted for publication in the Journal of Applied Physics Letters (APL, IF-3.87) in July 2022.
2. Reviewed paper entitled "A brief review of reconstructions and electronic structures of MoS₂ zigzag edges" for publication in the Journal of Applied Physics published by AIP (JAP, IF-2.877) in June 2022.
3. Section Editor of the Vice Chancellor (UAF) approved Editorial Board of PARS Newsletter, UAF Community College, PARS (10-12-2021.)
4. Member of the Asian Council of Science Editors (ACSE) from March 2021 to December 2021.
5. Member of the Scientific and Technical Committee and Editorial Review Board on Engineering and Physical Science, World Academy of Science, Engineering and Technology (WASET).
6. Member International Scientific Committee of Physical and Mathematical Sciences, WASET
<https://waset.org/committees/physical-and-mathematical-sciences?page=2>
7. Reviewed papers for the Journal of Physical Chemistry Chemical Physics published by the Royal Society of Chemistry (PCCP, IF-4.45), 2019.

8. Reviewed papers for the Journal of Surface and Interface Analysis published by John Wiley and Sons (SIA, IF-1.3), 2019.
9. Open Access Journal of Mathematical and Theoretical Physics (OAJMTP, IF-1. 97), 2018.
10. Journal of Physics International published by Science Publications.
11. International Journal of Structural Glass and Advanced Materials Research (IJSGAMR).
12. Reviewed two papers submitted to the 2020 2nd International Conference on Computer Modeling, Simulation and Algorithm (CMSA2020) held from June 21-22, 2020, Beijing, China
13. Reviewed a paper submitted to the 2020 3rd International Conference on Applied Mathematics, Modeling and Simulation (AMMS2020) held from Sep 20-21, 2020, Shanghai, China