Sanam Saleem

Home : Address: University of Agriculture Faisalabad, University of Agriculture Faisalabad Sub campus Okara, 38000, Faisalabd/Okara, Pakistan

PassPort Number : FY....., Pakistan

Email: sanam.saleem22@gmail.com **Phone:** (+92) 03177835577

Research Gate: https://www.researchgate.net/profile/Sanam-Saleem

Gender: Female **Date of birth:** 13/06/1997 **Nationality:** Pakistani

WORK EXPERIENCE

Mange Spin Opto-electronics ferro-Thermoelectric(SOFT) Materials and Devices Lab UAF Physics Department (5-year)

City: Faisalabad

University teaching assistant (TA) University of agriculture Faisalabad (1-year)

Address: Constituent College Depalpur, Okara , University of Agriculture Faisalabad, Okara, , Pakistan

Physics lecturer

Lecturer Physics

Tutor of TGM

EDUCATION AND TRAINING

[10/11/2021 – 04/04/2026]

Ph.D. (Physics)

University of Agriculture, Faisalabad, Punjab, Pakistan

Country: Pakistan | **Final grade:** 3.96/4.00

[13/09/2018 – 10/12/2021]

Master of Philosophy (M.Phil.) Physics

University of Agriculture, Faisalabad, Punjab, Pakistan

City: Faislabad | **Country:** Pakistan | **Final grade:** 3.79/4 | **Thesis:** The first principal study of electronic, optical, magnetic and structural properties of V doped SrTiO3

[30/07/2018 – 30/08/2020]

BS(Physics)

GC Women University Faisalabad

Country: Pakistan | **Final grade:** 3.90/4

[05/08/2011 – 15/09/2013]

Higher Secondary School Certificate (F.Sc.) Pre-Engineering

Board of Intermediate and Secondary Education, Faisalabad

Country: Pakistan | **Field(s) of study:** Math-Physics | **Final grade:** 724/1100

[03/03/2009 – 23/07/2011]

Secondary School Certificate (Matric) Science

Board of Intermediate and Secondary Education, Faisalabad

Country: Pakistan | **Final grade:** 891/1050

Participation in Post-induction Training and Professional Development for Young Faculty, " 07 August 2024 to 21 August 2024Directorate of Academics & Teaching Resource Centre, University of Agriculture, Faisalabad.

Post-induction Training and Professional Development for Young Faculty www.uaf.edu.pk.

City: Faislabad | **Country:** Pakistan

Training session regarding the conduction of the Entry test for National of Medical Sciences (NUMS), Islamabad at Constituent College, Depalpur Okara, UAF on August 31, 2024,

Training session regarding the conduction of the Entry test for National of Medical Sciences (NUMS)

City: okara | **Country:** Pakistan

LANGUAGE SKILLS

Mother tongue(s): Urdu

Other language(s): Fluent in Urdu and English (reading, writing, and interpretation)

SKILLS

Zoom | Google Drive | Internet surfing and browsing for scientific work | Command on Origion software/ Expert High Score/ Microsoft Office (Word ExcelPower Point) | Wein2k Software | Xmgrace (graphic data representation) | Skype

CONFERENCES AND SEMINARS

Seminars and Certifications

1- 1st International Conference on Materials science&Nanotechnology (MSNANO-17) at Government College University, Faisalabad (GCUF), Pakistan (18-19 February, 2017).

2- Science Exhibition at GC Women University Faisalabad (GCWUF), Pakistan (26 April, 2017).

3- 3rd International Conference on Materials science&Nanotechnology (MSNANO-19) at Government College University, Faisalabad (GCUF), Pakistan (18-20 February, 2019).

4- One day workshop On Endnote Software at Community college, University of Agriculture, PARS, Faisalabad (6th May, 2019).

5- Seminar on Recent Developments in SPACE EXPLORATION at Department of Physics of University of Agriculture Faisalabad (UAF), Pakistan(29 January,2019).

6. International Conference on New Frontiers in Experimental and Theoretical Physics at Department of Physics of University of Agriculture Faisalabad (UAF), Pakistan (16,17 April,2018).

7- International Symposium on Technologies and Materials for Renewable Energy, Environment & Sustainability at University of Agriculture Faisalabad (UAF), Pakistan 6-7February 2019).

8- Committee member on Seminar "Break the Barrier: Crime, Criminal Behavior and Youth, 2024

UAF Sub-campus Okara

9- Committee member on Seminar on "Solidarity with Kashmir and Palestine", 2024

UAF Sub-campus Okara

RECOMMENDATIONS

Name: Dr. Muhammad Yaseen Associate Professor

Department Of Physics, University Of Agriculture Faisalabad, Pakistan

Phone number: (+92) 3314700425 | **Email:** m.yaseen@uaf.edu.pk

Name: Dr. Muhammad Yasin Naz Assistant Professor,

Department Of Physics, University Of Agriculture Faisalabad, Pakistan

Phone number: (+92) 3178106062 | **Email:** yasin306@uaf.edu.pk

HONOURS AND AWARDS

Laptop Under Chief Minister Laptop Scheme

BS (Hons) Physics; Government College Women University Faisalabad (GCWUF)

HOBBIES AND INTERESTS

Extra-Curricular activities

- Reading books and research articles on various topics, including science, history etc.
- Running/Cooking
- Playing Badminton racket
- Gardening

RESEARCH INTERESTS

DFT(Density Functional Theory) Study

Electro-magnetic and optical features of binary/perovskite compounds

Material Science (Computational Physics)

EVALUATION

Good people management and communication skills.

Able to work under high pressure and time limitation.

INTERNATIONAL PUBLICATIONS

1. Physical characteristics of vanadium-doped SrTiO3 compound

https://doi.org/10.1140/epjp/s13360-022-02352-z.

2. Investigation of Mn doped BaS for spintronic and thermoelectric applications

https://doi.org/10.1088/1402-4896/ac8a27.

3. Tuned physical characteristics of PbSe binary compound: a DFT study

https://doi.org/10.15251/JOR.2022.185.649.

4. Physical characteristics of Pb1-xAxSe (A=Fe, Mn, V) for spintronic applicons

https://doi.org/10.15251/CL.2022.198.553.

5. Physical characteristics of LaCrxAl1-xO3: DFT approach

https://doi.org/10.15251/JOR.2022.184.481

6. Optical and magnetic characteristics of BaTi1-xCoxO3: A first-principles study

https://doi.org/10.15251/CL.2023.207.459

7. DFT insight into magnetoelectronic and optical properties of Mo-modified BaTiO3

https://doi.org/10.1016/j.physb.2023.415163

8. Insight into thermodynamic, optoelectronic, and magnetic characteristics of V doped BeSe

https://doi.org/10.1016/j.physb.2023.415156

9. Modulated Optoelectronic and Magnetic Properties of Mn Doped SrTiO 3 : A Density Functional Theory Insight

DOI: 10.1002/pssb.202300260

10. Investigation on the physical properties of Ni doped SrTiO3 by first-principle calculations

DOI: 10.15251/JOR.2023.195.513

11. Electronic, optical and thermoelectric properties of Cs 2 XInCl 6 (X = Ag, Na) halide double perovskites

DOI: 10.1002/pssb.202300265

12. Investigation of manganese doped BaSe for energy harvesting and spintronics devices

DOI: 10.1088/1402-4896/ad04a0

13. Insight into electronic, magnetic and optical properties of KMnxNb1-xO3 compound

DOI: 10.15251/DJNB.2023.184.130

14. Investigation of structural, electro-magnetic and optical properties of cubic SmXO 3 (X=Fe, Mn, Cr) perovskites

DOI 10.1088/1402-4896/ad01f1

15. Physical characteristics of Cs2XTlCl6(X = Sc, Y) double perovskites for energy harvesting applications

- DOI 10.1016/j.physb.2024.415700

16. DFT insights on the Be1-xCrxS alloys for optoelectronic and magnetic devices

- DOI 10.15251/CL.2024.211.53

17. Exploring the Mn doped BaTe alloy for spintronics and energy harvesting applications

DOI: 10.1088/1402-4896/ad41a0

18. Exploring of Be1-xCrxSe alloys for spintronics and optoelectronic applications

DOI: 10.15251/CL.2024.214.365

19. Investigation of thermoelectric and optoelectronic features of Sr1-xMnxTe in ferromagnetic phase

Write here the description...

20. First-principles exploration of electronic, optical and magnetic features of Nb-doped BeTe for spintronic and optoelectronic devices

Write here the description...

21. Investigation of Magneto-optoelectronics Properties of Mg1-xMnxS alloys for Optoelectronics and Spintronic Applications

22.Investigation of Mg 1− x Ni x S Alloys for Spintronic and Optoelectronic Application

23. Thermodynamical stability and optoelectronic characteristics of Sr1-xCoxTe: A DFT Study

24. Thermoelectric, Optoelectronic and Magnetic Characteristics of Mn-modified SrSe for Spintronic and Energy Harvesting Applications.

25. Modified Becke-Johnson potential calculations of Co-substituted MgS alloys for spintronic and optoelectronic applications

26. Theoretical Exploration of Multi-Functional K2RbInX6 (X = Cl, Br) Halide Perovskites for Optoelectronic and Thermoelectric Applications

27. The GGA-mBJ analysis of Ni modified SrS alloys for magnetic ordering and energy harvesting applications

28. First-principles HSE06 study of band-gap engineering in Cs2BiX6(M = Au, Li; X = Cl, Br) for optoelectronic and thermoelectric applications

29. Half-metallicity and structural properties of low-concentration Fe-doped SrS alloys: a first-principles study

MANAGEMENT AND LEADERSHIP SKILLS

Spin Opto-electronics ferro-Thermoelectric(SOFT) Materials and Devices Lab, Physics Department University of Agriculture Faisalabad

ASSIGNMENTS NOTIFIED BY THE COMPETENT AUTHORITY/ADMINISTRATIVE HEADS.

1. Tutor of undergraduate students, 2024-25

2. Member of Tutorial Office, 2024-25

3. Member of Central Examinations Committee (CEC), 2024-25

4. Hostel Affairs (Assist. Superintendent (Bano Qudsia Hall), 2024 and 2026

5. Hostel Affairs (Assist. Superintendent (Shah Muqeem Hall), 2024

6. Member of Campus Vigilance/Monitor the Class, 2024-25

7. Member of Smart Classroom, IT Audio-Visual Labs, Public Relations and Publications (PRP), 2024-25

8. Member of Sports, 2024-25

9. Member of Hall Management and Discipline Committee for Celebration of Eid Milad Un Nabi, 24 September, 2024.

10. Organizer Defence Day Celebration Plan at UAF Constituent College Depalpur, Okara, arranged by Associate Senior Tutor Office on 6th September 2024

11. Invegilator and Registration desk duty (1st Entry test for admission of Undergraduate degree Program for the academic sesión 2024-2025.

12. Registration desk duty (2nd Entry test for admission to Undergraduate degree Program for the academic sesión 2024-2025

13. Registration desk duty (3rd Entry test for admission to Undergraduate degree Program for the academic sesión 2024-2025.

14. Member of Paper Checking of the 3rd Entry Test and preparation of the Results at Constitutent College Depalpur, Okara, 2024

15. Invegilator for the conduction of Entry test of National University Medical Sciences (NUMS), Islamabad, 1 September, 2024.

16. Additional Academic activities Allotted, 2025

17. DSA member, 2025

18. Focal Person of Gift and Donation Commtte, 2025-2026

BOOK EDITED ABSTRACTS

1. Tunable characteristics of Electromagnetic (EM) surface waves at isotropic chiral-homogeneous plasma interfaces, 2025

Sanam Saleem, Muhammad Umair, Sehrish Saleem, Tahir Munir Butt, Muhammad Ahmad Raza

2. Plasmon mode generation in Indium antimonide (InSb) loaded slab waveguide bounded by metal and graphene layers, 2025

Sanam Saleem*, Muhammad Umair, Sehrish Saleem, Hira Ashfaq, Muhammad Ahmad Raza

3. Dyakonov surface waves supported at anisotropic chiral-isotropic plasma planar structure, 2025

Sanam Saleem*, Sehrish Saleem, Muhammad Umair, Muhammad Ahmad Raza

4. Electromagnetic waves propagation in black phosphorus loaded parallel plate waveguide surrounded by plasma layers, 2025

Sanam Saleem*, Sehrish Saleem, Muhammad Umair, Muhammad Ahmad Raza

5. Numerical calculations of transverse electric (TE) surface waves propagation at magnetic materials-plasma- magnetic materials interfaces, 2025

Sanam Saleem*, Sehrish Saleem, Muhammad Umair, Muhammad Ahmad Raza

6. Numerical behaviour of surface plasmon polaritons at chiroferrite-graphene interface for THz applications, 2025

Sanam Saleem*, Sehrish Saleem, Muhammad Umair, Muhammad Ahmad Raza

7. Characteristics of photon plasmon coupling in graphene sandwiched between magnetized plasma layers for THz applications, 2025

Sanam Saleem*, Muhammad Umair, Sehrish Saleem, Muhammad Ahmad Raza

8. Ab initio study of V doped BeTe for spintronic and optoelectronic applications, 2025

Sanam Saleem*, Sehrish Saleem

9. Chiral Carbon Dots: Synthesis, Properties, and Emerging Applications in Sensing, Bio imaging, and Catalysis, 2025

Ali Raza, Saleem Abbas, Yousra Umbreen, Sanam Saleem, M Ameer, M Numan Akram

10. Functionalized Single-Layer Graphene for High-Performance Supercapacitors, 2025

Ali Raza, Yousra Umbreen, Sanam Saleem, M Numan Akram, Saleem Abbas, M Ameer

11. Interactive Learning in STEM: Graphical Analysis of Radioactive Phenomena Using Spreadsheet, 2025

Ali Raza, Saleem Abbas, Yousra Umbreen, Sanam Saleem, M Ameer, M Numan Akram