

Syeda Faiza Rubab Sherazi

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ACADEMICS

University of the Punjab, Pakistan	Physics	B.Sc.	2007
University of Sargodha, Pakistan	Physics	M.Sc.	2010
The University of Lahore, Pakistan	Physics	M.phil	2019
University of Central Florida, USA	Physics	Ph.D.	2 nd year

APPOINTMENTS

2024 _ ... GRA, University of Central Florida
2022 – 2024 GTA, University of Central Florida
2019 – 2022 Research Assistant, Department of Physics, University of Sargodha
2019 – 2020 Lecturer, Department of Physics, The University of Lahore
2018 – 2019 Lecturer, Reader Group of Colleges, Pakistan
2012 – 2018 Lecturer, Punjab Group of Colleges, Pakistan

PRINCIPAL RESEARCH TOPICS

1. Surface coordination chemistry: novel functionality via substrate charge transfer and oxidation state
2. Electronic, magnetic and mechanical properties of double perovskites oxides
3. Study of strongly correlated materials by density functional theory.

PUBLICATIONS

1. **S. Faiza-Rubab**, S. Naseem, S. Muhammad Alay-e-Abbas, M. Zulfiqar, Y. Zhao, and S.Nazir, “Structural Stability and Evolution of Half-Metallicity in $\text{Ba}_2\text{CaMoO}_6$: Interplay of Hole- and Electron-Doping”, *Phys. Chem. Chem. Phys.*, 2021,**23**, 19472-19481.
2. Shahnila Naseem, **S. Faiza-Rubab**, M. Zulfiqar, and S. Nazir “Development of a Half-Metallic Ferrimagnetic State in $\text{Lu}_2\text{NiIrO}_6$ via hole-doping”, *J. Magn. Mater* **549** (2022) 168956.
3. **S. Faiza-Rubab** and S. Nazir “Entanglement between Spin-Orbital Coupling and Electron-Correlation: Induction of Phase Transitions and Giant Magnetic Anisotropy in Strained $\text{LaSr}_{1-x}\text{Ca}_x\text{NiReO}_6$ ”, *Phys. Chem. Chem. Phys.*, 2022,**24**, 17174-17184

CONFERENCES

1. Oral Presentation: “The role of oxide support in stabilizing Ag single atom catalyst and subsequent NH₃ adsorption” APS March Meeting, March 3-8, 2024, Minneapolis, MN
2. Poster presentation: “Ag single atom catalyst for NH₃ adsorption: the role of the oxide support” ASEMFL Annual Meeting, November 3-4, 2023 held at the Rosen College of Hospitality Management, Orlando, FL
3. Poster presentation: “Entanglement between Spin-Orbital Coupling and Electron-Correlation: Induction of Phase Transitions and Giant Magnetic Anisotropy in Strained LaSr_{1-x}Ca_xNiReO₆” The 2023 NanoFlorida Conference Sessions and Posters, March 4-5, 2023 held at University of Central Florida, Orlando, FL

VOLUNTEERING

1. Physics Day At Island H2O: May 3, 2024
2. Energy Conversion And Storage Outreach At The Orlando Science Center: April 13, 2024
3. STEM Day, Department Of Physics, University Of Florida: April 5, 2024
4. APS Chapters Volunteering, APS March Meeting, Minneapolis, MN: March 4, 2024
5. STEM Day, Department Of Physics, University Of Florida: October 20, 2023
6. STEM Day, Department Of Physics, University Of Florida: March 31, 2023
7. [Spark STEM Fest](#) At The Orlando Science Center: February 18-19 2023
8. STEM Day, Department Of Physics, University Of Florida: October 21, 2022

AWARDS

1. Outreach for the Stars Award, 2024
2. APS DMP Ovshinsky Travel Award, 2024
3. College of Sciences Dean’s PhD/MFA Student Conference Travel Award, 2024
4. Student Government Conference Award, **2024**

FELLOWSHIPS

1. FCI Student Fellowship 2024
1. UCF College of Graduate Studies Presentation Fellowship, 2024