

Dr. Saira Bibi

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Education

- PhD (2018): Department of Materials Science & Engineering, Laboratory of Special Functional Materials, Beihang University (BUAA), China. Thesis title: Oxidation & Corrosion behavior of Sm₂Co₁₇ permanent magnet surface modified by Ni & Ni/Cr coatings.
- MS. (2014): Department of Materials Science & Engineering, Laboratory of Special Functional Materials, Beihang University (BUAA), China. Thesis title: High temperature stability of SmCo (2:17) Magnets by Surface Modification.

Experience

Teaching Experience:

- Assistant Professor at Department of Materials Science & Engineering, Pak-Austria Fachhochschule: Institute of Applied Sciences and Technology (PAF-IAST), Mang, Haripur, Pakistan | Oct. 2020 – current | www.paf-iaast.edu.pk
- Assistant Professor at Institute of Advanced Materials, Bahauddin Zakariya University Multan, Pakistan | Sept. 2019 – Aug. 2020 | www.bzu.edu.pk

Projects & Awards

- HEC scholarship under project titled 'HRD INITIATIVE-MS LEADING TO PhD PROGRAM OF FACULTY DEVELOPMENT FOR UESTPS (BATCH-II) PHASE-1' for China from Sept 2012 to July 2018.

Patent & Publications

11 International Publications in ISI indexed journals, impact factor of 25+, citations 10+, h-index 1:

- **Saira Bibi**, Jingmin Wang, M. Faisal Rathore, Chengbao Jiang, Temperature Stability of SmCo (2:17) Magnets modified by Ni-Cr Two layers Coating, Rare Metals, 2019, vol.38 (3), pp: 238-244. <https://doi.org/10.1007/s12598-018-1076-0>
- **Saira Bibi**, Jingmin Wang, Tariq Mehmood, Waheed Qamar Khan, Chengbao Jiang, Hot corrosion of surface modified Sm₂Co₁₇ high temperature magnet with Ni and Ni/Cr bilayer coatings in 75wt.% Na₂SO₄-NaCl mixture, Rare Metals, 2021, vol.40 (9), pp: 2494-2500. <https://doi.org/10.1007/s12598-020-01604-0>
- Tariq Mehmood, Ishaq Ahmad, **Saira Bibi**, Beenish Mustafa, Ijaz Ali, "Insight into monsoon for shaping the air quality of Islamabad, Pakistan: Comparing the magnitude of health risk associated with PM10/PM2.5 exposure, Journal of the Air & Waste Management Association, 2020, vol.20 (12), pp: 1340-1355. <https://doi.org/10.1080/10962247.2020.1813838>
- Noman Khan, Ahmed Nawaz, Bilal Islam, M. Hassan Sayyad, Yasir Faheem Joya, Sara Islam, **Saira Bibi**, Evaluating humidity sensing response of graphene quantum dots synthesized by hydrothermal treatment of glucose, Nanotechnology, 2021, vol.32 (29), pp: 295504. <https://iopscience.iop.org/article/10.1088/1361-6528/abe670>.
- Aqsa Amir, **Saira Bibi**, Ahmed Nawaz, Ather Ibrahim, Muhammad Naeem Ashiq, Muhammad Qamar Saeed, Mashhood Hamza, Hafiz Muhammad Zubair Rasheed, Bilal Islam, In-vitro Antibacterial Response of ZnO-MgO Nanocomposites at Various Compositions, International Journal of Applied Ceramic Technology, 2021. <https://doi.org/10.1111/ijac.13734>.
- Salman Sagheer Warsi, Taiba Zahid, Hassan Elahi, Raja Awais Liaqait, **Saira Bibi**, Usman Ghafoor, Sustainability-Based Analysis of Conventional to High-Speed Machining of Al 6061-T6 alloy, Applied Sciences, 2021, vol.11 (19), pp: 9032. <https://www.mdpi.com/2076-3417/11/19/9032>.