

DR. KHURRAM, Mehboob*Associate professor, Nuclear Engineering Dept., King Abdulaziz University***Education**

<i>Degree</i>	<i>Field</i>	<i>Institution</i>	<i>Year</i>
PhD	Nuclear Engineering	Harbin Engineering University, China	2012
MSc	Physics	University of the Punjab, Pakistan	2007
BSc	Physics	University of the Punjab, Pakistan	2005

Academic Experience

<i>From</i>	<i>To</i>	<i>Institution</i>	<i>Rank</i>	<i>Title (Chair, Coordinator, etc.)</i>	<i>Full or Part Time</i>
2008	2009	Sarwar Shaheed N.H Govt college,	Lecturer		Full Time
2012	2017	Comsats Institute of Information technology, King Abdulaziz Univ.	Assistant Professor		Full Time
2014	2019	King Abdulaziz Univ.	Assistant Professor		Full Time
2019	2020	King Abdulaziz Univ.	Associate Professor		Full Time

Non Academic Experience *(including Consultations)*

None

Current Membership in Professional Societies and Organizations

	<i>Society/organization</i>	<i>Rank</i>	<i>Member Since</i>
1.	American society of Mechanical Engineering, ASME	Member	2012
2.	Higher Education Commission, HEC	Supervisor	2013

Honors and Awards

1. Research productivity award, comsats university, Islamabad, (2013).
2. Research productivity award, Kyung Hee university, south Korea 2014

Service Activities *(within and outside of the institution)*

1. Academic advisor, of King AbdulAziz university, 2014-present
2. Academic advisor, of COMSATS university, 2014-present

Principal Publications/Presentations from the Past Five Years

1. Alzahrnai, Y, Mehboob, K. Doud M, 2020. Analysis of Doppler Reactivity Coefficient in Small Modular Reactor with UO₂, MOX and (Th/U)O₂ Fuel. Proceedings of 2020 28th International Conference on Nuclear Engineering Joint with the ASME 2020 Power Conference ICONE28-POWER2020 August 2-6, 2020, Anaheim, California, USA (Accepted for publication)
2. Ali Jolly Jacob M. Imran Arshad M. Ajaz un Nabi Arslan Ashfaq K. Mahmood N. Amina S. Ikram U. Rehman Sajad Hussain Khurram Mehboob., 2020., Enhancement of thermoelectric properties of sulphurized CZTS nano-crystals by the engineering of secondary phases. Solid State Sciences, Volume 103, DOI: 10.1016/j.solidstatesciences.2020.106198
3. Salma Ikram Jolly Jacob K. Mahmood Khurram Mehboob Mutaiba Maheen A. Ali N. Amina Sajad Hussain Fouzia Ashraf S. Z. Ilyas., 2020. A Kinetic study of Tb³⁺ and Dy³⁺ co-substituted CoFe₂O₄ spinel ferrites using temperature dependent XRD, XPS and SQUID measurements, Ceramics International, xx(xx), DOI: 10.1016/j.ceramint.2020.03.143
4. Jolly Jacob, Rehman K. Mahmood A. Ali Khurram Mehboob A. Ashfaq S. Ikram N. Amin S. Hussain Fouzia Ashraf., 2020. Improved thermoelectric performance of Al and Sn doped ZnO nano particles by the engineering of secondary phases, Ceramics International, xx(xx), Available online 4 March 2020 DOI: 10.1016/j.ceramint.2020.03.03
5. Khurram Mehboob, 2020. Experimental Study of Thermal Neutron Reflection Coefficient for two-layered Reflectors, Atw - International Journal for Nuclear Power, issue 56(2), atw Vol. 65 | Issue 2, February.
6. Arslan Ashfaq, A. Ali, Khurram Mehboob, K. Mahmood, et al., 2020. Designing of Seebeck coefficient and electrical conductivity in CZTS thin films for giant power factor, Ceramics International, Volume 46, Issue 7, May 2020, Pages 9646-9655 DOI: 10.1016/j.ceramint.2019.12.231
7. Khurram Mehboob M.S. Aljohani, 2019. Derivation of Radiological Source term of Chashma-1 Nuclear Power Plant during LOCA, KERNTECHNIK, 84 (2), 99-109
8. Khurram Mehboob and Aljohani, M.S. 2018. Estimation of Radioactive Released from CHASNUPP - 1 Nuclear Power Plant During Loss of Coolant Accident (LOCA). international journal of nuclear energy science and technology, Vol. 12, No. 2, 111-126.
9. Khurram Mehboob. 2018. numerical simulation of decontamination of airborne fission products during in-vessel release phase by containment spray. 2018, pages 148-161, 2018, 1-19
10. Khurram Mehboob and Aljohani, M.S. 2018. Derivation of Radiological Source term for System instigated Modular Reactor (SMART). Annals of Nuclear energy, 119, 148-161,
11. Khurram Mehboob and Aljohani, M.S. 2016. Modeling and Simulation of Radio-Iodine Released inside the Containment as Result of an Accident. Progress in Nuclear Energy 88, 75-87.
12. Tabassum. U, and Mehboob. K. 2015. A Discussion on the importance of e⁺ e⁻ pair emission in the ¹²C (α, γ) ¹⁶O capture reaction below 1.9 MeV. Energy Problems of Atomic Science and Technology 97(3), Series: Nuclear Physics Investigations (64), p.44-48.
13. Khurram Mehboob, Kwangheon Park, Rehan Khan., 2015. Quantification of in containment fission product activity for 1000 WMe PWR under LOCA. Annals of Nuclear Energy, 75, 365-376.
14. Khurram Mehboob et al., 2017. Effect of Spray System on In Containment Fission Product Washout During In-Vessel Release Phase. The 25th International Conference on Nuclear Engineering (ICONE-25), Shanghai, China.
15. Khurram Mehboob et al., 2015. Kinetic study of Containment Retention Factor (CRF) for Large Dry containment under radiation load The 22nd International Conference on Nuclear Engineering (ICONE-22), Prague, Czech Republic

Recent Professional Development Activities (Workshops, training, etc.)

1. 23rd International Conference on Nuclear Engineering (ICONE-23), Chengdu china, 2015
2. 22nd International Conference on Nuclear Engineering (ICONE-22), Prague, Czech Republic. 6/ 07/ 2014 – 12/07/2014

