	Dr.Roohi Zafar		
#	List of Publications	HEC Category	Quartile
1	Zafar, R., Kamran, M., Malik, T., & Shaheen, K. (2026). Characterizing environmental thermal fluctuations for use in true random number generators. *Recent Contributions to Physics, 97*(2), 124–131. https://doi.org/10.26577/RCPh972202612	X	Q4
2	Zafar, R., Kamran, M., Malik, T., Karera, K., Humayon, M., Mustafa, G., & Mubashir Khan, M. (2025). Randomness from radiation: Evaluation and analysis of radiation-based random number generators. *The European Physical Journal Plus, 140*(5), 463. https://doi.org/10.1140/epjp/s13360-025-06254-4	W	Q2
3	K. Karera, A. Khan, H. Tariq, M. Nadeem, R. Zafar, M. Kamran, and M. M. Khan, Proc. 2024 4th Int. Conf. Innovations in Computer Science (ICONICS), 1–8 (2024).	Conf	—
4	T. Angabeen, F. A. Asghar, R. Zafar, T. Malik, M. M. Khan, and M. Kamran, Proc. 2024 4th Int. Conf. Innovations in Computer Science (ICONICS), 1–8 (2024).	Conf	—
5	Shaheen, K., Zafar, R., Javaid, S., & Rajput, A. A. (2024). Analytical estimate of effective charge and ground-state energies of two to five electron sequences up to atomic number 20 utilizing the variational method. *Beni-Suef University Journal of Basic and Applied Sciences, 13*(1), 92. https://doi.org/10.1186/s43088-024-00567-2	X	Q2
6	Uddin, Z., Kaleem, M., Javaid, S., & Zafar, R. (2024). Transition probabilities, oscillator and line strengths in Sc XIX. *East European Journal of Physics, 2*, 111–120. https://doi.org/10.26565/2312-4334-2024-2-12	Y	Q3
7	Mateen, M. R., Zafar, R., Rajput, A. A., Rehman, S. U., & Zahid, M. M. (2023). Non-relativistic calculation of excited-state ionization potentials for Li-like ions using weakest bound electron potential model theory. *East European Journal of Physics, 4*, 311–317. https://doi.org/10.26565/2312-4334-2023-4-34	Y	Q3
8	Shafi, M., Javaid, S., Zafar, R., Rajput, A. A., Zahid, M. M., & Daniyal, M. (2023). New Numerical Approach to Calculate Microstates of Equivalent and Non-Equivalent Electrons. Proceedings of the Pakistan Academy of Sciences: A. Physical and Computational Sciences, 60(4), 29-33.	Y	Not Indexed
9	Siddique, R., Zafar, R., Raza, S., Iqbal, S. Z., & Uddin, Z. (2023). Mean lifetimes of ns, np, nd, and nf levels of NV. *East European Journal of Physics, 3*, 424–429. https://doi.org/10.26565/2312-4334-2023-3-44	Y	Q3
10	Jafri, M. A., Farrukh, S., Zafar, R., & Ilyas, N. (2022). *A survey on radiation protection awareness at various hospitals in Karachi, Pakistan*. **Heliyon, 8**(11), e11236. https://doi.org/10.1016/j.heliyon.2022.e11236	W	Q1
11	Raza, S., Abro, M. A., Javaid, S., & Zafar, R. (2022). Spectroscopic properties of lithium like ions: Prospective elements for quantum computation. *Mehran University Research Journal of Engineering & Technology, 41*(3), 199–203. https://doi.org/10.22581/muet1982.2203.20	X	Q3
12	Shaheen, K., Zafar, R., & Javaid, S. (2021). Python program to generate spherical harmonic. International Journal, 10(3).	Y	Not Indexed
13	Zafar, R., Javaid, S., & Uddin, Z. (2020). Wavefunctions for ground state 4 f 3 6 s 2 configuration of praseodymium to calculate energy of fine levels and other spectroscopic quantities. Journal of Physics Communications, 4(3), 035003.	X	Q3
14	Javaid, S., Zafar, R., & Uddin, Z. (2019). Theoretical analysis of 4f25d2 configuration of singly ionized praseodymium. Journal of Physics Communications, 3(9), 095012.	X	Q3
15	Uddin, Z., Zafar, R., Sikander, R., Siddiqui, I., Shamim, K., & Windholz, L. (2012). Investigation of Pr I lines by a simulation of their hyperfine patterns: discovery of new levels. Journal of Physics B: Atomic, Molecular and Optical Physics, 45(20), 205001.	W	Q3
16	Composition related time dependent dielectric response of lithium ion conducting glasses.Publish in Karachi University, journal of science, Volume 33 (I and II) July-December, 2005. PP.13-19	Y	Not Indexed

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