	Dr. Saba Javaid		
S.No.	**Publications**	**HEC Category**	**Quartile**
1	Pato, Abdul Hameed, Imran Ali Chandio, **Saba Javaid,** Iftikhar Ahmed Channa, Aamna Balouch, Basheer A. Sharmmari, Tasneem Pervez et al. "Titania@ ITO-Grown Nanoflakes: A Promising Heterocatalyst for 4-Nitrophenol Reduction and Synergetic Profile Against Bacterial Growth." Applied Organometallic Chemistry 39, no. 6, e70195, (2025).	W	Q 1
2	Kousar Shaheen, Roohi Zafar, **Saba Javaid,** and Ahmed Ali Rajput. "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, no. 1, 92, (2024).	X	Q 2
3	Zaheer Uddin, Muhammad Kaleem, **Saba Javaid**, and Roohi Zafar. "Transition Probabilities, Oscillator and Line Strengths in Sc XIX." *East European Journal of Physics* 2, 111-120, (2024).	X	Q 3
4	Mirza Salman Baig, Ambreen Insaf, **Saba Javaid**, and Zaheer Uddin. "Geostatistical Model Development and Assessment of Tidal Stream Energy Resources: A Case Study of Indus Delta, Pakistan." *Proceedings of the Pakistan Academy of Sciences: A. Physical and Computational Sciences* 61, no. 4 (2024).	Y	N/A
5	Misha Shafi, **Saba Javaid**, Roohi Zafar, Ahmed Ali Rajput, Muhammad Mustaqeem Zahid, and Muhammad Daniyal. "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, no. 4, 29-33, (2023).	Y	N/A
6	Akhtar, Muhammad Ali, Syed Muhammad Owais Qadri, Maria Andleeb Siddiqui, Syed Muhammad Nabeel Mustafa, **Saba Javaid,** and Syed Abbas Ali. "Robust genetic machine learning ensemble model for intrusion detection in network traffic." *Scientific Reports* 13, no. 1, 17227, (2023).	W	Q 1
7	Nafees Hasan, **Saba Javaid,** Ahmed Ali Rajput, M. Daniyal, M. Mustaqeem Zahid, and Fatima Ejaz. "A Python program to draw energy level diagram and to calculate quantum defects, the high lying Rydberg level." *Revista Mexicana de Física E* 20, no. 1, 010203-1, Jan-Jun (2023).	Y	Q 4
8	Ambreen Insaf, M.Salman Biag , **Saba Javaid,** S., Abbas, U., & Zaheer Uddin, Tidal Range Energy Resource Estimation of Khor Kalmat using Geostatistical Modeling: Tidal Energy Resource Estimation: A case study of Khor Kalmat. *Proceedings of the Pakistan Academy of Sciences: A. Physical and Computational Sciences*, *59*(4), 45-53, (2022).	Y	N/A
9	Raza, Salman, Mehfooz Ali Abro, **Saba Javaid,** and Roohi Zafar. "Spectroscopic properties of lithium like ions: Prospective elements for quantum computation." *Mehran University Research Journal of Engineering & Technology* 41, no. 3, 199-203, (2022).	Y	N/A

10	Kousar shahen, Roohi Zafar, and **Saba Javaid,** "Python program to generate spherical harmonic." *International Journal of Advanced Trends in Computer Science and Engineering* 10.3 (2021).	Y	Q 3
11	Siddique, Hira, Afnan Tahir, Iffat Gul, Bisma binte Waris, Muhammad Ayyaz Ameen, Madeeha Talha, Muneeza Salman Ali, Alisha Ansari, and **Saba Javaid.** "Estimation of MUF (3000) F2 using Earth-ionosphere geometry for Karachi and Multan, Pakistan." *Advances in Space Research* 68, no. 11, 4646-4657, (2021).	W	Q 1
12	Roohi Zafar, **Saba Javaid**, and Zaheer Uddin, 'Wavefunctions for ground state $4f^{3}6s^{2}$ configuration of praseodymium to calculate energy of fine levels and other spectroscopic quantities' *Journal of Physics Communications* 4.3, 035003, (2020).	X	Q 2
13	**Saba Javaid**, Roohi Zafar, and Zaheer Uddin, 'Theoretical analysis of $4f^{2}5d^{2}$ configuration of singly ionized praseodymium' *Journal of Physics Communications* 3, no. 9 095012, (2019).	X	Q 2
14	Babar, I. M., **Saba Javaid,** and Shabana Rizvi. "Transport Properties of Chalcopyrite (CuFeS2) in a Wide Range of Temperatures." *Journal of Electronic Materials* 2215-2218, (2019).	W	Q 2
15	Shabana Rizvi, **Saba Javaid,** Adeel Tahir, Ibrahem Babar, S. Dabir H.Rizvi, "Characterization of Dolomite, Pyrite, and Chalco pyrite mineral rocks of Pakistan", *Science International (Lahore)*, *22*(1), 59-62, (2010).	Y	N/A