PUBLICATION

OF

FACULTY

**PROF. DR. AZHAR IQBAL**

1. Khalid, M., Khan, J., & Iqbal, A. (2022). Generalized Functional Equations of Polylogarithmic Groups. *Punjab University Journal of Mathematics*, *54*(4).
2. Asjad, M. I., Naz, R., Ikram, M. D., Iqbal, A., & Jarad, F. (2022). A Nonsingular Fractional Derivative Approach for Heat and Mass Transfer Flow with Hybrid Nanoparticles. *Journal of Mathematics*, *2022*.
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4. Asjad, M. I., Ali, R., Iqbal, A., Muhammad, T., & Chu, Y. M. (2021). Application of water based drilling clay-nanoparticles in heat transfer of fractional Maxwell fluid over an infinite flat surface. *Scientific Reports*, *11*(1), 1-14.
5. Ullah, N., Asjad, M. I., Iqbal, A., Hamood Ur Rehman, Hassan A., Gia. T. N., 2021, Analysis of optical solitons solutions of two nonlinear models using analytical technique[J]. AIMS Mathematics, 6(12): 13258-13271. doi: 10.3934/math.2021767.
6. Wang, F., Asjad, M. I., Zahid, M., Iqbal, A., Ahmad, H., & Alsulami, M. D. (2021). Unsteady thermal transport flow of Casson nanofluids with generalized Mittag–Leffler kernel of Prabhakar's type. *Journal of materials research and technology*, *14*, 1292-1300.
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12. Siyal, A. R., Bhutto, Z., Shah, S. M. S., Iqbal, A., Mehmood, F., Hussain, A., & Saleem, A. (2020). Still Image-based Human Activity Recognition with Deep Representations and Residual Learning. *International Journal of Advanced Computer Science and Applications*, *11*(5).
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14. Khalid, M., & Iqbal, A. (2020). Generalized extension of morphisms in geometry of configuration and infinitesimal polylogarithmic groups complexes. *Punjab University Journal of Mathematics*, *51*(8).
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**DR. FARAZ AHMED**

**Monographs (Research Books)**

1. **Faraz Mehmood**, Functions with Non-decreasing Increments and Popoviciu Type Identities and Inequalities for Sums and Integrals, *Book Publisher International*,2021.
2. Nazia Irshad, Asif R. Khan, **Faraz Mehmood** and Josip E. Pecaric, New Perspectives on the Theory of Inequalities for Integral and Sum, *Birkhäuser (Springer Nature Switzerland)*, 2021.

**Research Papers**

**Published Papers**

**2019 (1)**

1. (HJRS ‘Y’, Scopus) Asif R. Khan and **Faraz Mehmood**, Double Weighted Integrals Identities of Montgomery for Differentiable Function of Higher Order, *Journal of Mathematics and Statistics*, **15** (1) (2019), 112-121.

**2020 (11)**

1. (HJRS ‘Y’, WOS) Asif R. Khan and **Faraz Mehmood**, Some Remarks on Functions with Non-decreasing Increments, *J. Math. Anal.*, **11** (1) (2020), 1-16.
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3. (HJRS ‘Y’, WOS) **Faraz Mehmood**, Asif R. Khan, Maria Khan, Muhammad Awais Shaikh, Generalization of some Weighted Čebyšev-Type Inequalities, *J. Mech. Cont. & Math. Sci.*, **15** (4) (2020), 13-20.
4. (HJRS ‘Y’, WOS, Scopus) Ahsan Raza Siyal, Zuhaibuddin Bhutto, Syed Muhammad Shehram Shah, Azhar Iqbal, **Faraz Mehmood**, Ayaz Hussain, Saleem Ahmed, Still Image-based Human Activity Recognition with Deep Representations and Residual Learning, *International Journal of Advanced Computer Science and Applications*, **11** (5) (2020), 471-477.
5. (HJRS ‘Y’, WOS) **Faraz Mehmood**, Asif R. Khan, M. Azeem Ullah Siddique, Concave and Concavifiable Functions and some Related Results, *J. Mech. Cont. & Math. Sci.*, **15** (6) (2020), 268-279.
6. (HJRS ‘Y’, Scopus) Faisal Nawaz, Zehra Akhter Naveed, **Faraz Mehmood**, Ghulam Mujtaba Khan, and Kashif Saleem, A Companion of Weighted Ostrowski’s type Inequality for Functions whose 1st Derivatives are Bounded with Applications, *Global Journal of Pure and Applied Mathematics*, **16** (4) (2020), 515-522.
7. (HJRS ‘Y’, Scopus) **Faraz Mehmood**, Ghulam Mujtaba Khan, Kashif Saleem, Faisal Nawaz, Zehra Akhter Naveed and Abdul Rahman, Majorization Theorem for Concaviﬁable Functions, *Global Journal of Pure and Applied Mathematics*, **16** (4) (2020), 569-575.
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9. (HJRS ‘Y’, WOS, Scopus) Zuhaibuddin Bhutto, Saleem Ahmed, Syed Muhammad Shehram Shah, Azhar Iqbal, **Faraz Mehmood**, Imdadullah Thaheem, Ayaz Hussain, Efficient Method for Three Loop MMSE-SIC based Iterative MIMO Systems, *International Journal of Advanced Computer Science and Applications*, **11** (9) (2020), 140-145.
10. (HJRS ‘Y’, WOS) **Faraz Mehmood**, Asif R. Khan and M. Azeem Ullah Siddique, Some Results Related to Convexifiable Functions, *J. Mech. Cont. & Math. Sci.*, **15** (12) (2020), 36-45.
11. (HJRS ‘X’, WOS, Scopus) Faisal Nawaz, Bulbul Jan, Faisal Ahmed Khan Afridi, M. Ayub Khan Yousufzai, and **Faraz Mehmood**, Comparative Study of the Dynamics of Cosmic Rays for Pakistan and China Atmospheric Regions, *J. Math. Fund. Sci.*, **52** (3) (2020), 261-275.

**2021 (3)**

1. (HJRS ‘X’, WOS, Scopus) **Faraz Mehmood**, Asif R. Khan, Faisal Nawaz, and Aamna Nazir, Some Remarks on Results Related to ∇−Convex Function, *J. Math. Fund. Sci.*, **53** (1) (2021), 67-85.
2. (HJRS ‘Y’, WOS) Ali Hassan, Asif R. Khan, **Faraz Mehmood** and Maria Khan, 𝑩𝑭−Ostrowski Type Inequalities Via 𝝓−𝝀−Convex Functions, *International Journal of Computer Science and Network Security*, **21** (10) (2021), 177-183.
3. Martin Bohner, Asif R. Khan, Maria Khan, **Faraz Mehmood** and Muhammad Awais Shaikh, Generalized perturbed Ostrowski-type inequalities, *Ann. Univ. Mariae Curie-Sklodowska Sect. A*, **LXXV** (2) (2021), 13-29.

**2022(6)**

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2. (HJRS ‘Y’, WOS, Scopus) **Faraz Mehmood**, Asif R. Khan and Muhammad Adnan, Positivity of Integrals for Higher Order ∇−Convex and Completely Monotonic Functions, *Sahand Commun. Math. Anal.*, **19** (1) (2022), 119-137.
3. (HJRS ‘W’, WOS, Scopus) Sever S. Dragomir, Asif R. Khan, Maria Khan, **Faraz Mehmood** and Muhammad Awais Shaikh, A New Integral Version of Generalized Ostrowski-Grüss Type Inequality with Applications, *Journal of King Saud University – Science*, **34** (2022), 1-6.
4. (HJRS ‘Y’, Scopus) Muhammad Awais Shaikh, Asif R. Khan and **Faraz Mehmood**, Estimates for Weighted Ostrowski-Grüss Type Inequalities with Applications, *Analysis – De Gruyter*, (2022), 1-11.
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2. (HJRS ‘X’, WOS, Scopus) **Faraz Mehmood**, Faisal Nawazand Akhmadjon Soleev, Generalised Hermite-Hadamard type inequalities for (s,r)-convex functions in mixed kind with applications, *J. Math. Computer Sci.*, **30** (4) (2023), 372-380.
3. (HJRS ‘X’, WOS, Scopus) **Faraz Mehmood**, Ali Hassan, Atif Idrees and Faisal Nawaz, Ostrowski like inequalities for −convex functions via fuzzy Riemann integrals, *J. Math. Computer Sci.*, **31** (2) (2023), 137-149.
4. **Faraz Mehmood** and Akhmadjon Soleev, New Generalization of Ostrowski-Grüss Like Inequality on Time Scales, *Ilmiy Axborotnoma*, **137/1** (1) (2023), 2-9.
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6. (HJRS ‘Y’, Scopus) Asif R. Khan, **Faraz Mehmood** and Muhammad Awais Shaikh, Generalization of Ostrowski Inequalities on Time Scales, *Vladikavkaz Math. J.*, **25** (3) (2023), 98-110.

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2. (HJRS ‘Y’, WOS, Scopus) **Faraz Mehmood** and Akhmadjon Soleev, Generalization of Ostrowski’s Type Inequality Via Riemann-Liouville Fractional Integral and Applications in Numerical Integration, Probability Theory and Special Means, *Jordan J. Math & Stat*., **17** (1) (2024), 161-178.
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4. (HJRS ‘Y’, WOS, Scopus) **Faraz Mehmood** and Akhmadjon Soleev, Generalisation of Companion of Ostrowski’s Type Inequality Via Riemann-Liouville Fractional Integral and Applications in Numerical Integration, Probability Theory and Special Means, *Sahand Commun. Math. Anal.*, to appear.

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Nawaz, F., & Hassan, S. A. (2023). Hydroclimatic modelling of upper Indus basin rivers predictability. *Modeling Earth Systems and Environment*, 1-13.

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**DR.** [**MARIA KHAN**](https://link.springer.com/article/10.1007/s41208-021-00389-y#auth-Bulbul-Jan)

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M. Bohner, A. R. Khan, **Maria Khan**, F. Mehmood, M. A. Shaikh, *Generalized perturbed Ostrowski-type inequalities*, Annales Univers Itatis Mariae Curie-Sklodowska lublin–Polonia, Vol.Lxxv, NO.2,2021,13–29.

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**International Journals (Web of Science and Scopus)**

1. Abbas, N., Afsar, S., **Jan, B**., Sayla, E. A., & Nawaz, F. (2022). GIS based model for the Landslides risk assessment. A case study in Hunza-Nagar settlements, Gilgit-Baltistan, Pakistan. *Environmental Challenges*, 100487.
2. [Farah Naz Khokhar](https://link.springer.com/article/10.1007/s41208-021-00389-y#auth-Farah_Naz-Khokhar), [Naveed Ahmad](https://link.springer.com/article/10.1007/s41208-021-00389-y#auth-Naveed-Ahmad),  [Amjad Ali](https://link.springer.com/article/10.1007/s41208-021-00389-y#auth-Amjad-Ali), [Pervaiz. Iqbal](https://link.springer.com/article/10.1007/s41208-021-00389-y#auth-Pervaiz_-Iqbal), [**Bulbul Jan**](https://link.springer.com/article/10.1007/s41208-021-00389-y#auth-Bulbul-Jan), [Luis Troccoli Ghinaglia](https://link.springer.com/article/10.1007/s41208-021-00389-y#auth-Luis_Troccoli-Ghinaglia), [Wali Khan](https://link.springer.com/article/10.1007/s41208-021-00389-y#auth-Wali-Khan), [Zaib-Un-Nisa Burhan](https://link.springer.com/article/10.1007/s41208-021-00389-y#auth-Zaib_Un_Nisa-Burhan) &  [Pirzada Jamal A. Siddiqui](https://link.springer.com/article/10.1007/s41208-021-00389-y#auth-Pirzada_Jamal_A_-Siddiqui)  (**2022**). Spatio-Temporal Variations of Diatom Community in the Coastal Waters off Karachi, Northern Arabian Sea. *Thalassas*. (**IF=0.620**).
3. **Jan, B**., Afridi, F.A.K., Ali, M. *et al.* **(2021).** Study of the nonlinear character of ionospheric signals possessing critical frequency (*fo*F2) at Pakistan air space. *Arab J Geosci* **14,**190. (**IF = 1.8**).
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5. Muhammad Ali, **Bulbul Jan**, Faisal Ahmed Khan Afridi, Muhammad Yonus, (**2021**).The best fitted Probabilistic modeling for Seasonal Extreme Rainfall of Gilgit-Baltistan, Pakistan. *Int. J. Global Warming,* Vol. 23, No. 4, 355-369 (**IF = 1.08**).
6. Faisal Nawaz, **Bulbul Jan**, Faisal Ahmed Khan Afridi,M. Ayub Khan Yousufzai&FarazMehmood (**2020**). Comparative Study of the Dynamics of Cosmic Rays for the Pakistan and China Atmospheric Regions.*J. Math. Fund. Sci*., Vol. 52, No. 3, 261-275. (**IF = 0.4**).
7. Muhammad Ali, Syed Asif Ali, M. Jawed Iqbal, Zohaib Aziz & **Bulbul Jan**, (**2020**). Study the Bayesian Approach for Computing theReturn Levels of Extreme Rainfall atKhyber Pakhtunkhwa (KPK), Pakistan. *Journal of Mechanics of Continua and Mathematical Sciences (JMCMS)*.
8. **Jan, B.**, Yousufzai, M. A. K., Afridi, F. A. K., & Nawaz, F. (**2019**). Study the stratospheric ozone irregularity over Pakistan atmospheric region in perspectives of wavelet analysis. *Arabian Journal of Geosciences*, *12*(19), 1-11.(**IF = 1.327**).
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13. **Jan, B**., Zai, M. A. K. Y., Abbas, S., Hussain, S., Ali, M., & Ansari, M. R. K. (**2014**). Study of probabilistic modeling of stratospheric ozone fluctuations over Pakistan and China regions. *Journal of Atmospheric and Solar-Terrestrial Physics*, *109*, 43-47 (**IF = 1.5**).

**HEC Recognized National Journals**

1. Naqvi, S. M. A. A., Afridi, F. A. K., **Jan, B**., Zai, M. A. K. Y., Baig M. J., Hussain, A., Rashid, S. M. H., Hussain, A., **(2021**), Analytic Preview of Spectral Contribution of the Neutrinos Emission from Deep Space during Specified Period. Proceedings of the Pakistan Academy of Sciences; A: Physical and Computational Sciences 58(3): 15-29. (Y-category)
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**International Journals (Non-Thomson Reuter)**

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1. Zai, M. A. K. Y., & **Jan, B**. (**2016**, March). Wavelet Characterization of Maximum Useable Frequency (Muf) for Ionospheric Region of Pakistan. In *14th International Conference on* (p. 41).
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