



# 2019 RESEARCH OUTLOOK

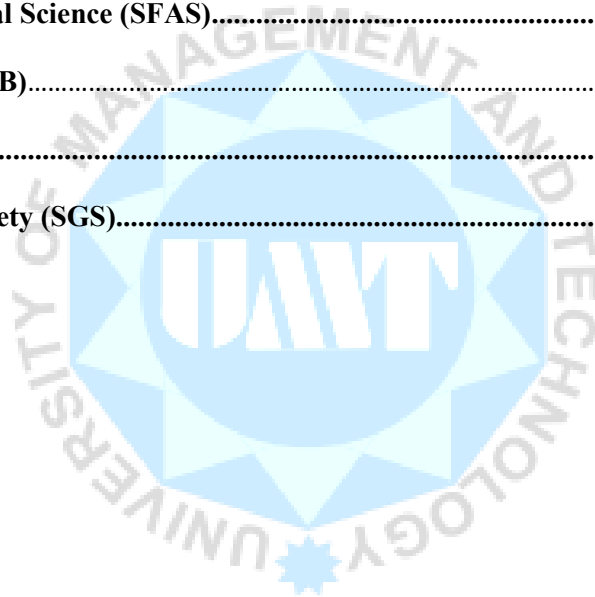
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Learning Resource Center  
University of Management and Technology, Lahore

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## School of Science (SSC)

### Department of Chemistry



#### Research Articles

1. **Ahmad, A., Aslam, H. M. U., Afzal, M. S., & Bhutta, Z.** (2019). Organogenesis: need of the current world. *Chinese Medical Journal*, 132(7), 849-852. doi: 10.1097/cm9.0000000000000048. **(Arsalan Ahmad, Muhammad Umer Aslam (Chemistry/SSC), Muhammad Sohail Afzal (Life Sciences/SSC) Correspondence**  
Abstract:  Keywords: 
2. **Arshad, R., Mohyuddin, A., Saeed, S., & Hassan, A. U.** (2019). Optimized production of tannase and gallic acid from fruit seeds by solid state fermentation. *Tropical Journal of Pharmaceutical Research*, 18(5), 911-918. doi: 10.4314/tjpr.v18i5.1. **(Rida Arshad, Ayesha Mohyuddin, Abrar-UI-Hassan (Chemistry/SSC)**  
Abstract:  Keywords: 
3. **Ijaz, F., Shafqat, S. S., Ahamd, H. A., Munawar, M. A., & Khan, M. A.** (2019). vic-Tricarbonyl Compounds of Quinolines: Analogues of Ninhydrin: A Short Review. *Journal of Heterocyclic Chemistry*, 56(4), 1231-1238. doi: 10.1002/jhet.3506. **(Syed Salman Shafqat (Chemistry/SSC)**  
Abstract:  Keywords: 
4. **Javed, M., Saqib, A. N. S., Ata ur, R., Ali, B., Faizan, M., Anang, D. A., . . . Abbas, S. M.** (2019). Carbon quantum dots from glucose oxidation as a highly competent anode material for lithium and sodium-ion batteries. *Electrochimica Acta*, 297, 250-257. doi: 10.1016/j.electacta.2018.11.167. **(Mohsin Javed (Chemistry/SSC)**  
Abstract:  Keywords: 
5. **Kausar, N., Muratza, S., Raza, M. A., Rafique, H., Arshad, M. N., Altaf, A. A., . . . Shafqat, S. S.** (2019). Sulfonamide hybrid schiff bases of anthranilic acid: Synthesis, characterization and their biological potential. *Journal of Molecular Structure*, 1185, 8-20. doi: 10.1016/j.molstruc.2019.02.056. **(Syed Salman Shafqat (Chemistry) (SKT Campus)**  
Abstract:  Keywords: 
6. **Khan, S. A., Shahid, S., Kanwal, S., Rizwan, K., Mahmood, T., & Ayub, K.** (2019). Synthesis of novel metal complexes of 2-((phenyl (2-(4-sulfophenyl) hydrazono) methyl) diazenyl) benzoic acid formazan dyes: Characterization, antimicrobial and optical properties studies on leather. *Journal of Molecular Structure*, 1175, 73-89. doi: 10.1016/j.molstruc.2018.07.081. **(Shakeel Ahmad Khan, Sammia Shahid (Chemistry/SSC)**  
Abstract:  Keywords: 
7. **Khan, S. A., Shahid, S., Nazir, M., Kanwal, S., Zaman, S., Sarwar, M. N., & Haroon, S. M.** (2019). Efficient template based synthesis of Ni nanorods by etching porous alumina for their enhanced photocatalytic activities against Methyl Red and Methyl Orange dyes. *Journal of Molecular Structure*, 1184, 316-323. doi: 10.1016/j.molstruc.2019.02.038. **(Shakeel Ahmad Khan, Sammia Shahid, Maryam Nazir, Shah Muhammad Haroon (Chemistry/SSC)**  
Abstract:  Keywords: 

8. **Qureshi, K.**, Ahmad, M. Z., Bhatti, I. A., Zahid, M., Nisar, J., & Iqbal, M. (2019). Graphene oxide decorated ZnWO<sub>4</sub> architecture synthesis, characterization and photocatalytic activity evaluation. *Journal of Molecular Liquids*, 285, 778-789. doi: 10.1016/j.molliq.2019.04.139. **(Khizar Qureshi (Chemistry) (SKT Campus))**  
Abstract:  Keywords: 
9. Shabir, G., **Arif, M.**, Saeed, A., & Hussain, G. (2019). Synthesis and Optical Study of Sensitive and Selective Calix 4 Based Cu<sup>2+</sup> Ion Detection Probes. *Russian Journal of General Chemistry*, 89(4), 813-818. doi: 10.1134/s1070363219040285. **(Muhammad Arif (Chemistry/SSC))**  
Abstract:  Keywords: 
10. Taufa, T., Gordon, R. M. A., Hashmi, M. A., **Hira, K.**, Miller, J. H., Lein, M., . . . Keyzers, R. A. (2019). Pyrroloquinoline derivatives from a Tongan specimen of the marine sponge *Strongylodesma tongaensis*. *Tetrahedron Letters*, 60(28), 1825-1829. doi: 10.1016/j.tetlet.2019.06.014. **(Kainat Hira (Chemistry/SSC))**  
Abstract:  Keywords: 
11. Yaseen, M., **Rasool, N.**, Farooq, Z., Nazir, S., & Chohan, S. (2019). A pilot study for the use of coumarin-480 to enhance the fingermarks. *Studia Universitatis Babeş-Bolyai Chimia*, 64(1), 185-196. doi: 10.24193/subchem.2019.1.15. **(Nouman Rasool (Biochemistry/SSC))**  
Abstract:  Keywords: 
12. Zafar, M. N., Saeed, M., Nadeem, R., Sumrra, S. H., **Shafqat, S. S.**, & Qayyum, M. A. (2019). Chemical pretreatments of *Trapa bispinosa*'s peel (TBP) biosorbent to enhance adsorption capacity for Pb(II). *Open Chemistry*, 17(1). doi: 10.1515/chem-2019-0031. **(Syed Salman Shafqat (Chemistry) (SKT Campus))**  
Abstract:  Keywords: 
13. **Shahid, S., & Taj, S.** (2019, NOV 20-22, 2018). *Antidiabetic activity of extracts of Pistachia khinjuk on alloxan monohydrate induced diabetic mice*. Paper presented at the 2018 2nd International Conference on Functional Materials and Chemical Engineering, Khalifa Univ, Abu Dhabi. **(Sammia Shahid, Saima Taj (Chemistry/SSC) Conference Proceedings)**  
Abstract:  Keywords: 

## Department of Physics

### Research Articles

1. Afaq, A., **Maaz, H.**, Bakar, A., & **Jamil, M. I.** (2019). Reststrahlen Band Studies of RuCrX (X=Si, Ge, Sn) Half Heusler Alloys. *Journal of Electronic Materials*, 48(8), 5323-5327. doi: 10.1007/s11664-019-07342-z. **(Hassan Maaz, M. Imran Jamil (Physics/SSC))**  
Abstract:  Keywords: 
2. Khan, Z. S., Rizwan, M., **Hafeez, M.**, Ali, S., Javed, M. R., & Adrees, M. (2019). The accumulation of cadmium in wheat (*Triticum aestivum*) as influenced by zinc oxide nanoparticles and soil moisture conditions. *Environmental*

*Science and Pollution Research*, 26(19), 19859-19870. doi: 10.1007/s11356-019-05333-5. **(Muhammad Hafeez (Physics/SSC))**

Abstract:  Keywords: 

3. **Makhdoom, M., Jamil, M. I.**, Azam, S., Irfan, M., Abbas, Z., Gul, B., . . . Wang, X. (2019). First-Principles Description of the Different Phases in the Li<sub>2</sub>NH Compound: Electronic Structure and Optical Properties. *Journal of the Korean Physical Society*, 74(12), 1140-1145. doi: 10.3938/jkps.74.1140. **(Madiha Makhdoom, Muhammad Imran Jamil (Physics/SSC))**

Abstract:  Keywords: 

4. Shaikh, M. N., **Zafar, Q.**, & Papadakis, A. (2019). A study of electromagnetic light propagation in a perovskite-based solar cell via a computational modelling approach. *Bulletin of Materials Science*, 42(4). doi: 10.1007/s12034-019-1837-x. **(Qayyum Zafar (Physics/SSC))**

Abstract:  Keywords: 

5. Tariq, S., Mubarak, A. A., Saad, S., **Jamil, M. I.**, & Gilani, S. M. S. (2019). Quantum density functional theory studies of structural, elastic, and opto-electronic properties of ZMoO<sub>3</sub> (Z = Ba and Sr) under pressure. *Chinese Physics B*, 28(6). doi: 10.1088/1674-1056/28/6/066101. **(M. Imran Jamil (Physics/SSC))**

Abstract:  Keywords: 

6. Saleemi, A. S., **Abdullah, A.**, Saeed, M., Anis-ur-Rehman, M., Mahmood, A., Khan, K., . . . Lee, S. L. (2019). Structural and Magnetoresistance Properties of Transfer-Free Amorphous Carbon Thin Films. *Crystals*, 9(3). doi: 10.3390/cryst9030124. **(Ali Abdullah (Physics/SSC) (SKT Campus))**

Abstract:  Keywords: 

## Department of Life Sciences














### Research Articles

1. Naveed, A., Ali, S., Ahmed, H., Simsek, S., Rizwan, M., Kaleem, I., . . . **Afzaal, M. S.**, Umar, S. (2019). Seroprevalence and Risk Factors of *Toxoplasma gondii* in Wild Birds of Punjab Province, Pakistan. *Journal of Wildlife Diseases*, 55(1), 129-135. doi: 10.7589/2017-09-228. **(Muhammad Sohail Afzaal (Life Sciences/SSC))**

Abstract:  Keywords: 

















2. Shuja, M. N., Ali, **M.**, Ali, T., Ichattak, B., Qasim, M., & Winter, S. (2019). First Report of Catharanthus Yellow Mosaic Virus, Pedilanthus Leaf Curl Virus, and Tomato Leaf Curl Betasatellite Infecting *Duranta erecta* in Pakistan. *Plant Disease*, 103(5), 1049-1050. doi: 10.1094/pdis-08-18-1308-pdn. **(Muhammad Ali (Life Sciences/SSC))** **“Disease Note”**

Abstract:  Keywords: 

3. **Wahid, B.** (2019). An update on the severe outbreak of HIV in Kot Imrana, Pakistan. *Lancet Infectious Diseases*, 19(3), 241-241. doi: 10.1016/s1473-3099(19)30038-6. **(Braira Wahid (Life Sciences/SSC) Correspondence**  
Abstract:  Keywords: 
4. **Wahid, B., Altaf, S., Naeem, N., Ilyas, N., & Idrees, M.** (2019). Scoping Review of Crimean-Congo Hemorrhagic Fever (CCHF) Literature and Implications of Future Research. *Jcpsp-Journal of the College of Physicians and Surgeons Pakistan*, 29(6), 563-573. doi: 10.29271/jcpsp.2019.06.563. **(Braira Wahid, Saba Altaf, Nabiha Naeem, Nimra Ilyas(Life Sciences/SSC)**  
Abstract:  Keywords: 
5. **Wahid, B., Naeem, N., Altaf, S., & Ilyas, N.** (2019). Increasing Prevalence of Untypable and Mixed Genotypes of Hepatitis C Virus in Pakistan: Latest Trends in 2018. *Viral Immunology*, 32(4), 192-194. doi: 10.1089/vim.2018.0152. **(Braira Wahid, Nabiha Naeem, Saba Altaf, Nimra Ilyas(Life Sciences/SSC)**  
Abstract:  Keywords: 
6. Wahid, B., Waqar, M., Rasool, N., Wasim, M., Khalid, I., & Idrees, M. (2019). Prevalence of thyroid stimulating hormone dysfunction among sofosbuvir-treated HCV-infected patients: A real-world clinical experience. *Journal of Medical Virology*, 91(3), 514-517. doi: 10.1002/jmv.25319. **(Braira Wahid, Nouman Rasool(Life Sciences/SSC)**  
Abstract:  Keywords: 
7. **Zaid, M., Ali, M., & Afzal, M. S.** (2019). HIV outbreaks in Pakistan. *Lancet Hiv*, 6(7), E418-E419. doi: 10.1016/s2352-3018(19)30180-8. **(Muhammad Zaid, Muhammad Ali, Muhammad Sohail Afzal (Life Sciences/SSC) Correspondence**  
Abstract:  Keywords: 
8. Qamar, Z., Tariq, M., Rehman, T., Iqbal, M. S., Sarwar, M. B., Sharif, M. N., . . . Awan, M. F. (2019). Trackable CEMB-Klean Cotton Transgenic Technology: Affordable Climate Neutral Agri-biotech Industrialization for Developing Countries. *Advancements in Life Sciences*, 6(3), 131-138. **(Mudassar Fared Awan (Life Sciences/ Department of molecular biology & biochemistry) Sialkot Campus**  
Abstract:  Keywords: 
9. Tariq, A., **Mateen, R. M.**, Fatima, I., & Akhtar, M. W. (2019). Calreticulin is Differentially Expressed in Invasive Ductal Carcinoma: A Comparative Study. *Current Proteomics*, 16(2), 148-155. doi: 10.2174/1570164615666180907154459. **(Rana Muhammad Mateen(Life Sciences/SSC)**  
Abstract:  Keywords: 

## Department of Mathematics

### Research Articles

1. **Ahmad, S.**, Jami, A. R., Ahmad, I., & **Sadia, H.** (2019). Stellar systems and structure scalars. *Canadian Journal of Physics*, 97(5), 465-471. doi: 10.1139/cjp-2018-0380. (**Shahzad Ahmad, H. Sadia (Mathematics /SSC) (SKT Campus)**)  
Abstract:  Keywords: 
2. **Ahmed, N.**, Rafiq, M., **Rehman, M. A.**, Iqbal, M. S., & Ali, M. (2019). Numerical modeling of three dimensional Brusselator reaction diffusion system. *Aip Advances*, 9(1). doi: 10.1063/1.5070093. (**Nauman Ahmed, M. A. Rehman (Mathematics /SSC)**)  
Abstract:  Keywords: 
3. **Ahmed, N.**, Tahira, S. S., Rafiq, M., **Rehman, M. A.**, Ali, M., & Ahmad, M. O. (2019). Positivity preserving operator splitting nonstandard finite difference methods for SEIR reaction diffusion model. *Open Mathematics*, 17, 313-330. doi: 10.1515/math-2019-0027. (**Nauman Ahmed, M.A. Rehman (Mathematics /SSC)**)  
Abstract:  Keywords: 
4. **Ali, A.**, Dimitrov, D., Du, Z. B., & **Ishfaq, F.** (2019). On the extremal graphs for general sum-connectivity index ( $\chi(\alpha)$ ) with given cyclomatic number when  $\alpha > 1$ . *Discrete Applied Mathematics*, 257, 19-30. doi: 10.1016/j.dam.2018.10.009. (**Akbar Ali, Faiza Ishfaq (Mathematics / Knowledge Unit of Science) (SKT Campus)**)  
Abstract:  Keywords: 
5. **Ali, A.**, & **Rashid, T.** (2019). Hesitant fuzzy best-worst multi-criteria decision-making method and its applications. *International Journal of Intelligent Systems*, 34(8), 1953-1967. doi: 10.1002/int.22131. (**Asif Ali, Tabasam Rashid (Mathematics /SSC)**)  
Abstract:  Keywords: 
6. **Ali, J.**, **Saeed, M.**, **Tabassam, M. F.**, & **Iqbal, S.** (2019). Controlled showering optimization algorithm: an intelligent tool for decision making in global optimization. *Computational and Mathematical Organization Theory*, 25(2), 132-164. doi: 10.1007/s10588-019-09293-6. (**Javaid Ali, Muhammad Saeed, Muhammad Farhan Tabassam (Mathematics /SSC) Shaukat Iqbal (Informatics /SST)**)  
Abstract:  Keywords: 
7. Bashir, Z., Bashir, Y., **Rashid, T.**, Ali, J., & Gao, W. (2019). A Novel Multi-Attribute Group Decision-Making Approach in the Framework of Proportional Dual Hesitant Fuzzy Sets. *Applied Sciences-Basel*, 9(6). doi: 10.3390/app9061232. (**Tabasam Rashid (Mathematics /SSC)**)  
Abstract:  Keywords: 
8. Beg, I., **Jamil, R. N.**, & **Rashid, T.** (2019). Diminishing Choquet Hesitant 2-Tuple Linguistic Aggregation Operator for Multiple Attributes Group Decision Making. *International Journal of Analysis and Applications*, 17(1), 76-104. doi: 10.28924/2291-8639-17-2019-76. (**Raja Noshad Jamil, Tabasam Rashid (Mathematics /SSC)**)  
Abstract:  Keywords: 

9. Butt, A. S., Ali, A., **Tufail, M. N.**, & Mehmood, A. (2019). Theoretical Investigation of Entropy Generation Effects in Magnetohydrodynamic Flow of Casson Nanofluid Over an Unsteady Permeable Stretching Surface. *Journal of Nanofluids*, 8(1), 103-116. doi: 10.1166/jon.2019.1570. **(M. Nazim Tufail (Mathematics / Knowledge Unit of Science) (SKT Campus)**

Abstract:  Keywords: 

10. Butt, A. S., **Tufail, M. N.**, Ali, A., & Dar, A. (2019). Theoretical investigation of entropy generation effects in nanofluid flow over an inclined stretching cylinder. *International Journal of Exergy*, 28(2), 126-157. doi: 10.1504/ijex.2019.097976. **(M. Nazim Tufail (Mathematics / Knowledge Unit of Science) (SKT Campus)**

Abstract:  Keywords: 

11. **Javaid, M.**, Abbas, M., Liu, J. B., Teh, W. C., & Cao, J. D. (2019). Topological properties of four-layered neural networks. *Journal of Artificial Intelligence and Soft Computing Research*, 9(2), 111-122. doi: 10.2478/jaiscr-2018-0028. **(Muhammad Javaid (Mathematics / SSC)**

Abstract:  Keywords: 

12. **Kashif, A.**, & Riasat, S. (2019). Fuzzy Soft BCK-Modules. *Punjab University Journal of Mathematics*, 51(6), 143-155. **(Agha Kashif (Mathematics / SSC)**

Abstract:  Keywords: 

13. Liu, J. B., Javed, S., **Javaid, M.**, & Shabbir, K. (2019). Computing First General Zagreb Index of Operations on Graphs. *Ieee Access*, 7, 47494-47502. doi: 10.1109/access.2019.2909822. **(Muhammad Javaid (Mathematics / SSC)**

Abstract:  Keywords: 

14. Liu, J. B., **Kashif, A.**, **Rashid, T.**, & **Javaid, M.** (2019). Fractional Metric Dimension of Generalized Jahangir Graph. *Mathematics*, 7(1). doi: 10.3390/math7010100. **(Agha Kashif, Tabasam Rashid, Muhammad Javaid (Mathematics / SSC)**

Abstract:  Keywords: 





15. **Luqman, M.**, **Saeed, M.**, **Ali, J.**, **Tabassam, M. F.**, & Mahmood, T. (2019). Targeted Showering Optimization: training irrigation tools to solve crop planning problems. *Pakistan Journal of Agricultural Sciences*, 56(1), 225-235. doi: 10.21162/pakjas/19.7910. **(Muhammad Luqman, Muhammad Saeed, Javaid Ali, Muhammad Farhan Tabassam (Mathematics / SSC)**

















Abstract:  Keywords: 

16. **Manzoor, R.**, **Jawad, A.**, & **Rani, S.** (2019). Dynamics of evolving self-gravitating models in extended teleparallel gravity. *International Journal of Modern Physics D*, 28(2). doi: 10.1142/s0218271819500433. **(Rubab Manzoor (Mathematics / SSC)**

Abstract:  Keywords: 



17. **Mardan, S. A., Asif, A., & Noureen, I.** (2019). New classes of generalized anisotropic polytropes pertaining radiation density. *European Physical Journal Plus*, 134(5). doi: 10.1140/epjp/i2019-12641-y. **(Syed Ali Mardan, A. Asif, Ifra Noureen (Mathematics /SSC)**  
**Abstract:**  **Keywords:** 
18. **Noureen, I., Mardan, S. A., Azam, M., Shahzad, W., & Khalid, S.** (2019). Models of charged compact objects with generalized polytropic equation of state. *European Physical Journal C*, 79(4). doi: 10.1140/epjc/s10052-019-6806-4. **(Ifra noureen, Syed Ali Mardan, W. Shahza (Mathematics /SSC)**  
**Abstract:**  **Keywords:** 
19. Prasad, R., Ali, M., Kwan, P., & **Khan, H.** (2019). Designing a multi-stage multivariate empirical mode decomposition coupled with ant colony optimization and random forest model to forecast monthly solar radiation. *Applied Energy*, 236, 778-792. doi: 10.1016/j.apenergy.2018.12.034. **(Huma Khan (Mathematics /SSC)**  
**Abstract:**  **Keywords:** 
20. **Rashid, T., Faizi, S., & Zafar, S.** (2019). Outranking method for intuitionistic 2-tuple fuzzy linguistic information model in group decision making. *Soft Computing*, 23(15), 6145-6155. doi: 10.1007/s00500-018-3268-9. **(Tabasam Rashid, Shahzad Faizi, Sohail Zafar (Mathematics /SSC)**  
**Abstract:**  **Keywords:** 
21. Riaz, M., **Saeed, M.**, Saqlain, M., & Jafar, N. (2019). Impact of Water Hardness in Instinctive Laundry System Based on Fuzzy Logic Controller. *Punjab University Journal of Mathematics*, 51(4), 73-84. **(Muhammad Saeed (Mathematics /SSC)**  
**Abstract:**  **Keywords:** 
22. **Riaz, M. B., Asif, N. A., Atangana, A., & Asjad, M. I.** (2019). Couette flows of a viscous fluid with slip effects and non-integer order derivative without singular kernel. *Discrete and Continuous Dynamical Systems-Series S*, 12(3), 645-664. doi: 10.3934/dcdss.2019041. **(Muhammad Bilal Riaz, Naseer Ahmad Asif, Muhammad Imran Asjad (Mathematics /SSC)**  
**Abstract:**  **Keywords:** 
23. **Saleem, N., Abbas, M., Ali, B., & Raza, Z.** (2019). Fixed Points of Suzuki-Type Generalized Multivalued (f, theta, L)- Almost Contractions with Applications. *Filomat*, 33(2), 499-518. doi: 10.2298/fil1902499s. **(Naeem Saleema, Basit Ali (Mathematics /SSC)**  
**Abstract:**  **Keywords:** 
24. **Saleem, N., Abbas, M., & De la Sen, M.** (2019). Optimal Approximate Solution of Coincidence Point Equations in Fuzzy Metric Spaces. *Mathematics*, 7(4). doi: 10.3390/math7040327. **(Naeem Saleema (Mathematics /SSC)**  
**Abstract:**  **Keywords:** 
25. **Sindhu, M. S., Rashid, T., Kashif, A., & Guirao, J. L. G.** (2019). Multiple Criteria Decision Making Based on Probabilistic Interval-Valued Hesitant Fuzzy Sets by Using LP Methodology. *Discrete Dynamics in Nature and Society*. doi: 10.1155/2019/1527612. **(M. Sarwar Sindhu, Tabasam Rashid, Agha Kashif (Mathematics /SSC)**  
**Abstract:**  **Keywords:** 

26. Ahmed, H., Bhatti, A. A., & Ali, A. (2019). Zeroth-order general Randic index of cactus graphs. *Akce International Journal of Graphs and Combinatorics*, 16(2), 182-189. doi: 10.1016/j.akcej.2018.01.006. **(Akbar Ali (Mathematics/ Knowledge Unit of Science ) (SKT Campus)**  
Abstract:  Keywords: 
27. Ali, A., Iqbal, Z., & Iqbal, Z. (2019). Two physicochemical properties of benzenoid chains: solvent accessible molecular volume and molar refraction. *Canadian Journal of Physics*, 97(5), 524-528. doi: 10.1139/cjp-2017-0454. **(Akbar Ali (Mathematics/ Knowledge Unit of Science ) (SKT Campus)**  
Abstract:  Keywords: 
28. Ali, A., Zhong, L. P., & Gutman, I. (2019). Harmonic Index and its Generalizations: Extremal Results and Bounds. *Match-Communications in Mathematical and in Computer Chemistry*, 81(2), 249-311. **(Akbar Ali (Mathematics/ Knowledge Unit of Science ) (SKT Campus)**  
Abstract:  Keywords: 
29. Ashrafi, A. R., Ghalavand, A., & Ali, A. (2019). Molecular trees with the sixth, seventh and eighth minimal irregularity values. *Discrete Mathematics Algorithms and Applications*, 11(1).doi: 10.1142/s1793830919500022. **(Akbar Ali (Mathematics/ Knowledge Unit of Science ) (SKT Campus)**  
Abstract:  Keywords: 
30. Du, Z. B., & Ali, A. (2019). The Alkanes with Maximum Wiener Polarity Index. *Molecular Informatics*, 38(1-2). doi: 10.1002/minf.201800076. **(Akbar Ali (Mathematics/ Knowledge Unit of Science ) (SKT Campus)**  
Abstract:  Keywords: 
31. Du, Z. B., Ali, A., & Trinajstic, N. (2019). Alkanes with the First Three Maximal/Minimal Modified First Zagreb Connection Indices. *Molecular Informatics*, 38(4). doi: 10.1002/minf.201800116. **(Akbar Ali (Mathematics/ Knowledge Unit of Science ) (SKT Campus)**  
Abstract:  Keywords: 
32. Milovanovic, I. Z., Milovanovic, E. I., Matejic, M. M., & Ali, A. (2019). A note on the relationship between graph energy and determinant of adjacency matrix. *Discrete Mathematics Algorithms and Applications*, 11(1). doi: 10.1142/s1793830919500010. **(Akbar Ali (Mathematics/ Knowledge Unit of Science ) (SKT Campus)**  
Abstract:  Keywords: 
33. Alolaiyan, H., Ali, B., & Abbas, M. (2019). Characterization of a b-metric space completeness via the existence of a fixed point of Ciric-Suzuki type quasi-contractive multivalued operators and applications. *Analele Stiintifice Ale Universitatii Ovidius Constanta-Seria Matematica*, 27(1), 5-33. doi: 10.2478/auom-2019-0001. **(Basit Ali (Mathematics /SSC)**  
Abstract:  Keywords: 

34. Saqlain, M., **Saeed, M., Ahmad, M. R.,** & Smarandache, F. (2019). Generalization of TOPSIS for Neutrosophic Hypersoft set using Accuracy Function and its Application. *Neutrosophic Sets and Systems*, 27, 131-137.. **(Muhammad Saeed, Muhammad Rayees Ahmad (Mathematics/SSC )**

Abstract:  Keywords: 

35. Zahid, A., Saleem, M. U., **Kashif, A.,** Khan, M., Meraj, M. A., & Irfan, R. (2019). Spanning Simplicial Complex of Wheel Graph W-n. *Algebra Colloquium*, 26(2), 309-320. doi: 10.1142/s1005386719000233. **(Agha Kashif Arshad Khan (Mathematics/ SSC )**

Abstract:  Keywords: 

## School of Engineering (SEN)

### Department of Civil Engineering

#### Research Articles

1. Rashid, K., **Tariq, S.,** & Shaukat, W. (2019). Attribution of molasses dosage on fresh and hardened performance of recycled aggregate concrete. *Construction and Building Materials*, 197, 497-505. doi: 10.1016/j.conbuildmat.2018.11.249. **(Samia Tariq (Civil Engineering /SEN)**

Abstract:  Keywords: 

### Department of Electrical Engineering

#### Research Articles

1. **Ahmad, J.,** Tahir, M., & Mazumder, S. K. (2019). Dynamic Economic Dispatch and Transient Control of Distributed Generators in a Microgrid. *Ieee Systems Journal*, 13(1), 802-812. doi: 10.1109/jsyst.2018.2859755. **(Jameel Ahmad (Electrical Engineering /SEN)**

Abstract:  Keywords: 

2. Ayub, M., **Hussain, A.,** Jawad, G., & Kwon, B. I. (2019). Brushless Operation of a Wound-Field Synchronous Machine Using a Novel Winding Scheme. *Ieee Transactions on Magnetics*, 55(6). doi: 10.1109/tmag.2019.2893883. **(Asif Hussain (Electrical Engineering /SEN)**











Abstract:  Keywords: 

3. **Chattha, J. N.,** & Uppal, M. (2019). Joint Noisy Network Coding and Decode-Forward Relaying for Non-Orthogonal Multiple Access. *Ieee Transactions on Wireless Communications*, 18(1), 296-309. doi: 10.1109/twc.2018.2879486. **(Jawwad Nasar Chattha (Electrical Engineering /SEN)**

Abstract:  Keywords: 





4. Hussain, S., Al-Hitmi, M., Khaliq, S., **Hussain, A.,** & Saqib, M. A. (2019). Implementation and Comparison of Particle Swarm Optimization and Genetic Algorithm Techniques in Combined Economic Emission Dispatch of an Independent Power Plant. *Energies*, 12(11). doi: 10.3390/en12112037. **(Asif Hussain (Electrical Engineering /SEN)**

Abstract:  Keywords: 

5. Illahi, A., Bashir, M., **Alkanhal, M. A. S.**, Khatoon, S., Ghaffar, A., & **Khan, Y.** (2019). Electromagnetic waves scattering from a sphere of complex conjugate medium. *Journal of the European Optical Society-Rapid Publications*, 15. doi: 10.1186/s41476-019-0107-2. (**Majeed A. S. Alkanhal, Y. Khan (Electrical Engineering /SEN)**)  
Abstract:  Keywords: 
6. **Shami, U. T., & Shami, S. H.** (2019). A digital logic controlled variable resistor with isolation and scalability. *Analog Integrated Circuits and Signal Processing*, 99(2), 467-469. doi: 10.1007/s10470-019-01440-y. (**Umar Tabrez Shami, Sajjad H. Shami (Electrical Engineering /SEN)**)  
Abstract:  Keywords: 
7. Shehzad, M. H., **Bashir, M.**, Yaqoob, M. Z., Ghaffar, A., Alkanhal, M., & Khan, Y. (2019). Characteristics of electromagnetic wave transmission and reflection from isotropic plasma coated circular nihility cylinder. *Aip Advances*, 9(4). doi: 10.1063/1.5087109. (**M. Bashir (Electrical Engineering /SEN)**)  
Abstract:  Keywords: 
8. Zeb, K., Uddin, W., Ul Islam, S., Khan, I., Ishfaq, M., **Ullah, Z.**, . . . **Haider, A.** (2019). *Adaptive Fuzzy Logic Controller for Indirect Field Oriented Controlled Induction Motor.* (**Zahid Ullah, Aun Haider (Electrical Engineering /SEN) (SKT Campus)**)  
Abstract:  Keywords: 
9. **Ahmad, S.**, & Dabrowski, J. (2019). Design of Two-Tone RF Generator for On-Chip IP3/IP2 Test. *Journal of Electronic Testing-Theory and Applications*, 35(1), 77-85. doi: 10.1007/s10836-019-05780-5. (**Shakeel Ahmad (Electrical Engineering /SEN)**)  
Abstract:  Keywords: 

## Department of Mechanical Engineering

### Research Articles

1. Asad, M., Ijaz, H., Saleem, W., Mahfouz, A. S. B., **Ahmad, Z.**, & Mabrouki, T. (2019). Finite Element Analysis and Statistical Optimization of End-Burr in Turning AA2024. *Metals*, 9(3). doi: 10.3390/met9030276. (**Zeshan Ahmad (Mechanical Engineering /SEN)**)  
Abstract:  Keywords: 
2. Rafique, M. M., Bahaidarah, H. M. S., & **Anwar, M. K.** (2019). Enabling private sector investment in off-grid electrification for cleaner production: Optimum designing and achievable rate of unit electricity. *Journal of Cleaner Production*, 206, 508-523. doi: 10.1016/j.jclepro.2018.09.123. (**M. Khalil Anwar (Mechanical Engineering /SEN)**)  
Abstract:  Keywords: 

3. **Sultan, T., Ahmad, Z., & Hayat, K. (2019).** Design and optimization of open-channel water ultraviolet disinfection reactor. *Chemical Papers*, 73(6), 1423-1436. doi: 10.1007/s11696-019-00694-0. **(Tipu Sultan, Zeshan Ahmad (Mechanical Engineering /SEN)**

Abstract:  Keywords: 

## School of System and Technology (SST)

### Department of Computer Science

#### Research Articles

1. **Butt, A. H., Rasool, N., & Khan, Y. D. (2019).** Prediction of antioxidant proteins by incorporating statistical moments based features into Chou's PseAAC. *Journal of Theoretical Biology*, 473, 1-8. doi: 10.1016/j.jtbi.2019.04.019. **(Ahmad Hassan Butt, Yaser Daanial Khan(Computer Science /SST), Nouman Rasool(Life Sciences/SSC)**

Abstract:  Keywords: 

2. Halim, Z., & Khan, S. (2019). A data science-based framework to categorize academic journals. *Scientometrics*, 119(1), 393-423. doi: 10.1007/s11192-019-03035-w. **(Shafaq Khan (Computer Science /SST)**

Abstract:  Keywords: 

3. **Hussain, W., Khan, Y. D., Rasool, N., Khan, S. A., & Chou, K. C. (2019a).** SPalmitoylC-PseAAC: A sequence-based model developed via Chou's 5-steps rule and general PseAAC for identifying S-palmitoylation sites in proteins. *Analytical Biochemistry*, 568, 14-23. doi: 10.1016/j.ab.2018.12.019. **(Waqar Hussain, Yaser Daanial Khan(Computer Science /SST)**

Abstract:  Keywords: 

4. **Hussain, W., Khan, Y. D., Rasool, N., Khan, S. A., & Chou, K. C. (2019b).** SPrenylC-PseAAC: A sequence-based model developed via Chou's 5-steps rule and general PseAAC for identifying S-prenylation sites in proteins. *Journal of Theoretical Biology*, 468, 1-11. doi: 10.1016/j.jtbi.2019.02.007. **(Waqar Hussain, Yaser Daanial Khan(Computer Science /SST), Nouman Rasool(Life Sciences/SSC)**















Abstract:  Keywords: 

5. Khan, S. A., Khan, Y. D., Ahmad, S., & Allehaibi, K. H. (2019). N-MyristoylG-PseAAC: Sequence-based Prediction of N-Myristoyl Glycine Sites in Proteins by Integration of PseAAC and Statistical Moments. *Letters in Organic Chemistry*, 16(3), 226-234. doi: 10.2174/1570178616666181217153958. **(Yaser Daanial Khan(Computer Science /SST)**





Abstract:  Keywords: 

6. **Khan, Y. D., Batool, A., Rasool, N., Khan, S. A., & Chou, K. C. (2019).** Prediction of Nitrosocysteine Sites Using Position and Composition Variant Features. *Letters in Organic Chemistry*, 16(4), 283-293. doi: 10.2174/1570178615666180802122953. **(Yaser Daanial Khan, Aroosa Batool(Computer Science /SST), Nouman Rasool(Life Sciences/SSC)**

Abstract:  Keywords: 

7. **Khan, Y. D., Jamil, M., Hussain, W., Rasool, N., Khan, S. A., & Chou, K. C.** (2019). pSSbond-PseAAC: Prediction of disulfide bonding sites by integration of PseAAC and statistical moments. *Journal of Theoretical Biology*, 463, 47-55. doi: 10.1016/j.jtbi.2018.12.015. **(Yaser Daanial Khan, Mehreen Jamil, Waqar Hussain (Computer Science /SST), Nouman Rasool(Life Sciences/SSC)**  
Abstract:  Keywords: 
8. Shahzad, K., Nawab, R. M. A., **Abid, A.**, Sharif, K., **Ali, F.**, Aslam, F., & Mazhar, A. (2019). A Process Model Collection and Gold Standard Corresponding for Process Model Matching. *Ieee Access*, 7, 30708-30723. doi: 10.1109/access.2019.2900174. **(Adnan Abid , Faizan Ali (Computer Science /SST)**  
Abstract:  Keywords: 
9. **Yasir, T., Abid, A.**, Shahzada, A., & Ieee. (2019). Development of Smart phone based Cultural Social Stories for Intellectually Disabled Children of Pakistan *2019 2nd International Conference on Advancements in Computational Sciences* (pp. 86-93). **( Tahreem Yasir, Adnan Abid (Computer Science /SST)**  
Abstract:  Keywords: 
10. **Zahid, A. H.**, Arshad, M. J., & Ahmad, M. (2019). A Novel Construction of Efficient Substitution-Boxes Using Cubic Fractional Transformation. *Entropy*, 21(3). doi: 10.3390/e21030245. **(Amjad Hussain Zahid (Computer Science /SST)**  
Abstract:  Keywords: 
11. Malik, N., Khan, H. U., **Ramzan, M.**, Faisal, M. S., & Mahmood, A. (2019). Finding Attractive Research Areas for Young Scientists. *International Journal of Advanced Computer Science and Applications*, 10(3), 458-462. **(Muhammad Ramzan (Computer Science /SST)**  
Abstract:  Keywords: 
12. **Ramzan, M.**, Khan, H. U., **Awan, S. M.**, Ismail, A., Ilyas, M., & Mahmood, A. (2019). A Survey on State-of-the-Art Drowsiness Detection Techniques. *Ieee Access*, 7, 61904-61919. doi: 10.1109/access.2019.2914373. **(Muhammad Ramzan, Shahid Mahmood Awan(Computer Science /SST)**  
Abstract:  Keywords: 
13. **Shaheen, M., Anees, T., Manzoor, M. I.**, Akbar, S., Obaid, I., & Anum, A. (2019). How Volunteering affects the Offender's Behavior Agent-based Modelling and Simulation. *International Journal of Advanced Computer Science and Applications*, 10(4), 430-439. **(Momina Shaheen, Tayyaba Anees, Muhammad Imran Manzoor (Computer Science /SST)**  
Abstract:  Keywords: 

## Conference Papers

1. Chattha, S. J., Batool, B., & **Farooq, M. S.** (2019, 4-6 February 2019). *Modernization of Front Desk Project (FDP) Training Curriculum for Punjab Police*. Paper presented at the Proceedings of Intcess 2019- 6th International Conference on Education and Social Sciences, Dubai, U.A.E. (**Muhammad Shoaib Farooq(Computer Science/SST)**)  
Abstract:  Keywords: 
2. **Hassan, A.**, Bilal, H. M., Khan, M. A., Khan, M. F., Hassan, R., & Farooq, M. S. (2019). *Enhanced Fuzzy Resolution Appliance for Identification of Heart Disease in Teenagers*. Paper presented at the Intelligent Technologies and Applications, Intap 2018. (**Arfa Hassan(Computer Science /SST)**)  
Abstract:  Keywords: 



## Department of Software Engineering

### Research Articles

1. Shahzad, B., **Awan, K. M.**, Abdullatif, A. M., Lali, M. I., Nawaz, M. S., Ayesha, U., & Khan, M. (2019). Quantification of Productivity of the Brands on Social Media With Respect to Their Responsiveness. *Ieee Access*, 7, 9531-9539. doi: 10.1109/access.2019.2891081. (**Kinza Mehr Awan (Software Engineering/SST)**)  
Abstract:  Keywords: 
2. Sheri, A. M., Rafique, M. A., **Hassan, M. T.**, Junejo, K. N., & Jeon, M. (2019). Boosting Discrimination Information Based Document Clustering Using Consensus and Classification. *Ieee Access*, 7, 78954-78962. doi: 10.1109/access.2019.2923462. (**Malik Tahir Hassan (Software Engineering/SST)**)  
Abstract:  Keywords: 
3. **Shah, A. A.**, Mustafa, G., Ali, Z., & **Anees, T.** (2019). Video Stitching with Localized 360 degrees Model for Intelligent Car Parking Monitoring and Assistance System. *International Journal of Computer Science and Network Security*, 19(5), 43-47. (**Asghar Ali Shah, Tayyaba Anees (Software Engineering/SST)**)  
Abstract:  Keywords: 
4. **Shah, A. A.**, Mustafa, G., Ali, Z., & **Anees, T.** (2019). Video Stitching with Localized 360 degrees Model for Intelligent Car Parking Monitoring and Assistance System. *International Journal of Computer Science and Network Security*, 19(5), 43-47. (**Asghar Ali Shah, Tayyaba Anees (Software Engineering/SST)**)  
Abstract:  Keywords: 

## Department of Informatics and System

### Research Articles

1. **Iqbal, S., Siddique, I., & Siddiqui, A. M.** (2019). OHAM and FEM solutions of concentric n-layer flows of incompressible third-grade fluids in a horizontal cylindrical pipe. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, 41(5). doi: 10.1007/s40430-019-1687-x. (**Shaukat Iqbal (Informatics/SST), Imran Siddique(Mathematics\SSC)**)  
Abstract:  Keywords: 

2. Younas, H. M., Mustahsan, M., Manzoor, T., Salamat, N., & **Iqbal, S.** (2019). Dynamical Study of Fokker-Planck Equations by Using Optimal Homotopy Asymptotic Method. *Mathematics*, 7(3). doi: 10.3390/math7030264. **(Shaukat Iqbal(Informatics/SST))**

**Abstract:**  **Keywords:** 

## School of Business and Economics (SBE)

### Department of Economics

#### Research Articles

1. Anwar, A., Sarwar, S., Amin, W., & **Arshed, N.** (2019). Agricultural practices and quality of environment: evidence for global perspective. *Environmental Science and Pollution Research*, 26(15), 15617-15630. doi: 10.1007/s11356-019-04957-x. **(Noman Arshed (Economics /SBE))**

**Abstract:**  **Keywords:** 

2. **Arshed, N.**, Anwar, A., **Hassan, M. S.**, & **Bukhari, S.** (2019). Education stock and its implication for income inequality: The case of Asian economies. *Review of Development Economics*, 23(2), 1050-1066. doi: 10.1111/rode.12585. **(Noman Arshed, Muhammad Shahid Hassan, Samra Bukhari(Economics /SBE))**

**Abstract:**  **Keywords:** 

3. **Kalim, R.**, **Arshed, N.**, & **Shaheen, S.** (2019). Does competitiveness moderate inclusive growth: a panel study of low-income countries. *Competitiveness Review*, 29(2), 119-138. doi: 10.1108/cr-11-2017-0074. **(Rukhsana Kalim, Noman Arshed, Sadaf Shaheen (Economics /SBE))**

**Abstract:**  **Keywords:** 

4. Kanwal, W., Ahmad, H. R., **Arshed, N.**, & **Gulzar, M.** (2019). Labor supply and demographics: A case of Pakistan. *Journal of Labor and Society*, 22(2), 491-508. doi: 10.1111/lands.12378. **(Noman Arshed(Economics /SBE) Muhammad Gulzar(SCA))**

**Abstract:**  **Keywords:** 

5. Pervaiz, S., **Ali, A.**, & Asif, M. (2019). Emotional intelligence, emotional labor strategies and satisfaction of secondary teachers in Pakistan. *International Journal of Educational Management*, 33(4), 721-733. doi: 10.1108/ijem-12-2017-0350. **(Amjad Ali(Economics) (SKT Campus))**

**Abstract:**  **Keywords:** 

6. Akram, M. W., Akram, N., Wang, H. S., & **Mehmood, A.** (2019). An Assessment of Economic Viability of Organic Farming in Pakistan. *Custos E Agronegocio on Line*, 15(1), 141-169. **(Aysha Mehmood (Economics))**

**Abstract:**  **Keywords:** 

7. A Inabo, O. A., & **Arshed, N.** (2019). Impact of health, water and sanitation as key drivers of economic progress in Nigeria. *African Journal of Science Technology Innovation & Development*, 11(2), 235-242. doi: 10.1080/20421338.2018.1551832. **(Noman Arshed (Economics))**



Abstract:  Keywords: 

## Conference Papers

1. Grant, K. A., Aziz, O., & **Arshed, N.** (2019, 29-30 April 2019). *The impact of entrepreneurial activity on poverty alleviation*. Paper presented at the 39th International Scientific Conference on Economic and Social Development –"Sustainability from an Economic and Social Perspective"-, Lisbon. **(Noman Arshed (Economics /SBE))**

Abstract:  Keywords: 

## Department of Finance

### Research Articles

1. Azhar, S. M., **Tashfeen, R.**, Khalid, J., & **Azhar, T. M.** (2019). Dichotomy in ethical perceptions of business students: an emerging country perspective. *Journal of International Education in Business*, 12(1), 43-64. doi: 10.1108/jieb-05-2018-0015. **(Rubeena Tashfeen (Finance /SBE), Tashfeen Mahmood Azhar (Department of Operations and Supply Chain/SBE))**

Abstract:  Keywords: 

2. **Khan, T. M.**, Rizvi, S. K. A., & **Sadiq, R.** (2019). Disintermediation of banks in a developing economy Profitability and depositor protection in adverse economic conditions. *Managerial Finance*, 45(2), 222-243. doi: 10.1108/mf-11-2017-049. **(Tahseen Mohsan Khan, Ramla Sadiq (Finance /SBE))**

Abstract:  Keywords: 

## Department of Management

### Research Articles

1. De Clercq, D., Haq, I. U., & **Azeem, M. U.** (2019). Workplace ostracism and job performance: roles of self-efficacy and job level. *Personnel Review*, 48(1), 184-203. doi: 10.1108/pr-02-2017-0039. **(Muhammad Umer Azeem (Management /SBE))**

Abstract:  Keywords: 

2. De Clercq, D., Ul Haq, I., & **Azeem, M. U.** (2019). Why happy employees help: How meaningfulness, collectivism, and support transform job satisfaction into helping behaviours. *Personnel Review*, 48(4), 1001-1021. doi: 10.1108/pr-02-2018-0052. **(Muhammad Umer Azeem (Management /SBE))**

Abstract:  Keywords: 

3. De Clercq, D., Ul Haq, I., **Azeem, M. U.**, & Ahmad, H. N. (2019). The Relationship between Workplace Incivility and Helping Behavior: Roles of Job Dissatisfaction and Political Skill. *Journal of Psychology*, 153(5), 507-527. doi: 10.1080/00223980.2019.1567453. **(Muhammad Umer Azeem, (Management /SBE))**

Abstract:  Keywords: 

4. **Shahzad, K.,** Arenius, P., Muller, A., **Rasheed, M. A., & Bajwa, S. U.** (2019). Unpacking the relationship between high-performance work systems and innovation performance in SMEs. *Personnel Review*, 48(4), 977-1000. doi: 10.1108/pr-10-2016-0271. **(Khuram Shahzad, Muhammad Athar Rasheed and Sami Ullah Bajwa (Management /SBE)**

Abstract:  Keywords: 

## Department of Operations & Supply Chain

### Research Articles

1. Qasim, H., Yan, L., Guo, R., **Saeed, A.,** & Ashraf, B. N. (2019). The Defining Role of Environmental Self-Identity among Consumption Values and Behavioral Intention to Consume Organic Food. *International Journal of Environmental Research and Public Health*, 16(7). doi: 10.3390/ijerph16071106. **(Amer Saeed (Operation and Supply Chain/SBE)**

Abstract:  Keywords: 

## Department of Quantitative Methods

### Research Articles

1. Ali, S., Khan, H., Shah, I., **Butt, M. M.,** & Suhail, M. (2019). A comparison of some new and old robust ridge regression estimators. *Communications in Statistics-Simulation and Computation*. doi: 10.1080/03610918.2019.1597119. **(Muhammad Moeen Butt (Quantitative Method /SBE)**

Abstract:  Keywords: 

2. Qureshi, S. A., Shafeeq, A., Ijaz, A., & **Butt, M. M.** (2019). Development and Regression Modeling of Dirt Resistive Latex Facade Paint. *Coatings*, 9(3). doi: 10.3390/coatings9030150. **(Muhammad Moeen Butt (Quantitative Method /SBE)**

Abstract:  Keywords: 

## School of Social Science & Humanities (SSSH)

## Department of English Language and Literature

### Research Articles

1. **Kanwal, S., & Garcia, M. I. M.** (2019). Representation of Gender Through Framing: A Critical Discourse Analysis of Hillary Clinton's Selected Speeches. *International Journal of English Linguistics*, 9(2), 321-331. doi: 10.5539/ijel.v9n2p321. **(Safina Kanwal & Maria Isabel Maldonado García (English Language and Literature /SSSH)**

Abstract:  Keywords: 

2. **Khaliq, F. A., & Garcia, M. I. M.** (2019). A Deictic Analysis of Pakistan's National Identity Representation in the Indigenous English Newspapers. *International Journal of English Linguistics*, 9(2), 307-320. doi: 10.5539/ijel.v9n2p307. **(Faiqa A. Khaliq, María Isabel Maldonado García(English Language and Literature /SSSH)**

**Abstract:**  **Keywords:** 

3. **Zaheer, F., & Din, K. U.** (2019). American Dream or Avaratia: Critical Circumspectis of American Dream Through Ages. *International Journal of English Linguistics*, 9(3), 57-67. doi: 10.5539/ijel.v9n3p57. **(Faiza Zaheer (English Language and Literature /SSSH)**

**Abstract:**  **Keywords:** 

## Department of Political Sciences

### Research Articles

1. Amir-ud-Din, R., **Sajjad, F. W.**, & Aziz, S. (2019). Revisiting Arms Race between India and Pakistan: A Case of Asymmetric Causal Relationship of Military Expenditures. *Defence and Peace Economics*. doi: 10.1080/10242694.2019.1624334. **(Fatima Waqi Sajjad (Political Science/SSSH)**

**Abstract:**  **Keywords:** 

2. **Pervez, M. S.** (2019). Strategic culture reconceptualized: the case of India and the BJP. *International Politics*, 56(1), 87-102. doi: 10.1057/s41311-017-0142-9. **(Muhammad Shoaib Pervez (Political Science/SSSH)**

**Abstract:**  **Keywords:** 

## Department of Special Needs Education

### Research Articles

1. **Akbar, S., & Hameed, A.** (2019). Awareness of teachers towards child rights provision, protection and participation in framework of United Nation child rights convention. *Pakistan Journal of Social Sciences (PJSS)*, 39(2), 709-723. **(Shabbir Akbar, Abdul Hameed(Special Needs Education/SSSH)**

**Abstract:**  **Keywords:** 

## Department of Education

### Research Articles

1. Asghar, M. Z., Gul, F., Hakkarainen, P. S., & **Tasdemir, M. Z.** (2019). Validating Entrepreneurial Intentions Questionnaire to Assess the Impact of Entrepreneurship Education. *Egitim Ve Bilim-Education and Science*, 44(197), 383-399. doi: 10.15390/eb.2019.6105. **(M. Zeki Taşdemir (Education/SSSH)**

**Abstract:**  **Keywords:** 

2. **Muhammad, Y., & Brett, P.** (2019). Addressing Social Justice and Cultural Identity in Pakistani Education: A Qualitative Content Analysis of Curriculum Policy. In J. Gube & F. Gao (Eds.), *Education, Ethnicity and Equity in the Multilingual Asian Context* (Vol. 32, pp. 235-253). **(Yaar Muhammad (Education/SSSH) (Book Chapter)**

Abstract:  Keywords: 

3. **Murtaza, G.** (2019). Family social capital as a predictor for academic achievement for secondary school students in Multan division. *Journal of Research and Reflections in Education*, 13(1), 34-48. **(Ghulam Murtaza (Education/SSSH))**

Abstract:  Keywords: 

## Department of English Language and Literature

### Research Articles

1. Shaheen, U., **Rafi, M. S.**, Aziz, S., & Noor ul, A. (2019). Meeting diversity in ESL classroom: a pedagogical model for a globalized milieu. *Journal of Teaching English for Specific and Academic Purposes*, 7(2), 237-253. doi: 10.22190/jtesap1902237s. **(Muhammad Shaban Rafi (English Language and Literature\SSSH))**

Abstract:  Keywords: 

## Department of Psychology

### Research Articles

1. Ashraf, F., **Niazi, F.**, Masood, A., & Malik, S. (2019). Gender comparisons and prevalence of child abuse and post-traumatic stress disorder symptoms in adolescents. *Journal of the Pakistan Medical Association*, 69(3), 320-324. **(Faiza Niazi (Psychology\SSSH))**

Abstract:  Keywords: 

2. Fatima, S., & **Jibeen, T.** (2019). Interplay of Self-efficacy and Social Support in Predicting Quality of Life in Cardiovascular Patients in Pakistan. *Community Mental Health Journal*, 55(5), 855-864. doi: 10.1007/s10597-018-0361-6. **(Tahira Jibeen (Psychology\SSSH))**

Abstract:  Keywords: 

3. **Jibeen, T.**, Baig, M. M. Z., & Ahmad, M. M. (2019). Fear of Negative Evaluation and Communication Apprehension: The Moderating Role of Communicative Competence and Extraversion Personality Trait in Pakistani Academia. *Journal of Rational-Emotive and Cognitive-Behavior Therapy*, 37(2), 185-201. doi: 10.1007/s10942-018-0301-y. **(Tahira Jibeen (Psychology\SSSH))**

Abstract:  Keywords: 

4. Asif, A., Ayub, S., **Komal, A.**, Noor, S., & Jalal, U. (2019). Prevalence of human immunodeficiency virus and Hepatitis (B & C) among drug users in a tertiary care public hospital. *Pakistan Journal of Medical Sciences*, 35(2), 459-463. doi: 10.12669/pjms.35.2.500. **(Afreen Komal (Psychology\SSSH))**

Abstract:  Keywords: 

## School of Professional Advancement (SPA)

### Conference Paper

1. **Idrees, F.** (2019). *Exploring the Glass Ceiling Factors for Females in the IT Industry of Pakistan*. Paper presented at the Proceedings of the 2nd International Conference on Gender Research. **(Fatima Idrees (SPA))**

**Abstract:**  **Keywords:** 

## School Of Health Science (SHS)

### Department of Health Science

#### Research Articles

1. Afshin, A., Sur, P. J., Fay, K. A., Cornaby, L., Ferrara, G., Salama, J. S., . . . Collaborators, **Bacha, U.** (2019). Health effects of dietary risks in 195 countries, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017. *Lancet*, 393(10184), 1958-1972. doi: 10.1016/s0140-6736(19)30041-8. **(Umer Bacha (SHS))**

**Abstract:**  **Keywords:** 

2. Imran, S., & **Tanweer, A.** (2019). Postoperative nutritional support of the patient with gut gangrene-a case report. *Journal of Health Population and Nutrition*, 38. doi: 10.1186/s41043-019-0169-1. **(Afifa Tanweer (SHS))**

**Abstract:**  **Keywords:** 

3. **Tanweer, A.**, Imran, S., Kaleem, R., & Saeed, A. (2019). Determinants of the Use of Oral Rehydration Solution by Children During Diarrheal Episode. *Topics in Clinical Nutrition*, 34(1), 31-38. doi: 10.1097/tin.000000000000160. **(Afifa Tanweer (SHS))**

**Abstract:**  **Keywords:** 

4. Stanaway, J. D., Reiner, R. C., Blacker, B. F., Goldberg, E. M., Khalil, I. A., Troeger, C. E., . . . Paratyphoid, **Bacha U.** (2019). The global burden of typhoid and paratyphoid fevers: a systematic analysis for the Global Burden of Disease Study 2017. *Lancet Infectious Diseases*, 19(4), 369-381. doi: 10.1016/s1473-3099(18)30685-6. **(Umar Bacha (SHS))**

**Abstract:**  **Keywords:** 















## School of Food and Agricultural Science (SFAS)

### Department of Food and Agricultural Science

#### Research Articles

1. Afreen, A., Ahmed, Z., Ahmad, H., & **Khalid, N.** (2019). Estimates and burden of foodborne pathogens in RTE beverages in relation to vending practices. *Food Quality and Safety*, 3(2), 107-115. doi: 10.1093/fqsafe/fyz007. **(Nauman Khalid (SFAS))**

**Abstract:**  **Keywords:** 

2. Hanif, J., Khalid, N., **Khan, R. S.**, Bhatti, M. F., Hayat, M. Q., Ismail, M., . . . Janjua, H. A. (2019). Formulation of active packaging system using *Artemisia scoparia* for enhancing shelf life of fresh fruits. *Materials Science & Engineering C-Materials for Biological Applications*, 100, 82-93. doi: 10.1016/j.msec.2019.02.101. (**Rao Sanaullah Khan, (SFAS)**)  
Abstract:  Keywords: 
3. Kashif, S., Ahmed, Z., Ahmad, H., Malik, M. K., Majeed, Z., & **Khalid, N.** (2019). Health/nutritional status of immigrant Pakistani laborers working in the Kingdom of Saudi Arabia. *Reviews on Environmental Health*, 34(2), 223-224. doi: 10.1515/reveh-2019-0018. (**Nauman Khalid (SFAS) (Letter to editor)**)  
Abstract:  Keywords: 
4. **Khalid, N.**, Arif, S., Kobayashi, I., & Nakajima, M. (2019). Lab-on-a-chip techniques for high-throughput proteomics and drug discovery. In H. A. Santos, D. Liu & H. Zhang (Eds.), *Microfluidics for Pharmaceutical Applications: From Nano/Micro Systems Fabrication to Controlled Drug Delivery* (pp. 371-422). (**Nauman Khalid (SFAS) (Book Chapter)**)  
Abstract:  Keywords: 
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