

Prof. Dr. Muhammad Ishaque Abro
Publications [Cumulative Impact Factor (40.99)]

International

1. Asma Ansari, Sidra Pervez, Urooj Javed , **Muhammad Ishaque Abro**, Muhammad Asif Nawaz, Shah Ali Ul Qader, Afsheen Amana, Characterization and interplay of bacteriocin and exopolysaccharide-mediated silver nanoparticles as an antibacterial agent, *International Journal of Biological Macromolecules*, 115 (Available Online 22 April 2018) 643–650 (IF=3.671)
2. Mawada Mohamed Tunesi,, Nazar Hussain Kalwar, , Razium Ali Soomro, Selcan Karakus, Sana Jawaid, **Muhammad Ishaq Abro**, Tartaric acid assisted in-situ growth of CuO nanostructures over ITO substrate for the electrocatalytic detection of Sudan I, *Materials Science in Semiconductor Processing* 75 (March 2018) pp.296–300, (IF=2.359)
3. Safia S.M, Ayman N, Amber R. S, Abdullah M. Al-ESirajuddin, Muhammad R. S, Syed T.H.S, Shabuddin M, Munazza A, **Muhammad Ishaq Abro**, Manzoor I.K, “Sensitive and selective aggregation based colorimetric sensing of Fe³⁺ via interaction with acetyl salicylic acid derived gold nanoparticles”, *Sensors And Actuators B-Chemical*, 259 (15 April 2018), Pages 1006-1012 (IF= 5.401)
4. Faisal Ahmed Memon, Francesco Morichetti1, **Muhammad Ishaque Abro**, Giosue Iseni, Claudio Somaschini, Umair Aftab, Andrea Melloni, “Synthesis, Characterization and Optical Constants of Silicon Oxycarbide”, *European Physical Journal (EPJ)*, 139, 00002, 23 March 2017, DOI: 10.1051/ 713900002,
5. Mugheri, Abdul Qayoom; Tahira, Aneela; Sirajuddin; Sherazi, Syed Tufail Hussain; **Muhammad Ishaq Abro**; Willander, Magnus; Ibupoto, Zafar Hussain, An Amperometric Indirect Determination of Heavy Metal Ions Through Inhibition of Glucose Oxidase Immobilized on Cobalt Oxide Nanostructures, *Sensor Letters*, Volume 14, Number 12, December 2016, pp. 1178-1186(9)
6. Qurrat-ul-Ain Baloach, Aneela Tahira, Arfana Begum Mallah, **Muhammad Ishaq Abro**, Siraj Uddin, Magnus Willander, and Zafar Hussain Ibupoto, A Robust, Enzyme-Free Glucose Sensor Based on Lysine-Assisted CuO Nanostructures, *Sensors*, 14 November 2016, 16(11), 1878; doi:10.3390/s16111878, pp 1-10, (IF=2.03)
7. Razium Ali Soomro, Zafar Hussain Ibupoto, Sirajuddin, Syed Tufail Hussain Sherazi, **Muhammad Ishaq Abro**, and Magnus Willander, Practice of diclofenac sodium for the hydrothermal growth of NiO nanostructures and their application for enzyme free glucose biosensor, *Microsyst Technol* DOI 10.1007/s00542-015-2669-2, October 2016, Volume 22, Issue 10, pp 2549–2557, Online: <http://link.springer.com/article/10.1007%2Fs00542-015-2669-2#/page-1>, (IF=0.95)
8. Kapil Dev Brahman, Tasneem Gul Kazi1, Hassan Imran Afridi, Jameel Ahmed Baig, **Muhammad Ishaq Abro**, Sadaf Sadia Arain, Jamshed Ali, and Sumaira Khan “Simultaneously removal of inorganic arsenic species from stored rainwater in arsenic endemic area by leaves of *Tecomella undulata*: a multivariate study” *Environ Sci Pollut Res*, ISSN 0944-1344, August 2016, Volume 23, Issue 15, pp 15149–15163, Online: <http://link.springer.com/article/10.1007%2Fs11356-016-6519-2>, (IF=2.828)
9. Razium Ali Soomro, Zafar Hussain Ibupoto, Sirajuddin, **Muhammad Ishaq Abro**, Magnus Willander, Sarfaraz Ahmed Mahesar, and Nazar Hussain Kalwar, Glycine-assisted preparation of Co₃O₄ nanoflakes with enhanced performance for non-

- enzymatic glucose sensing, *Material Express*, October 2015, Volume 5, Number 5, 437-444, (IF=2.25)
10. Razium Ali Soomro, Aynam Nafady, Zafar Hussain Ibupoto, Sirajuddin, Syed Tufail Hussain Sherazi, **Muhammad Ishaq Abro** and Magnus Willander, Development of sensitive non-enzymatic glucose sensor using complex nanostructures of cobalt oxide, *Materials Science in Semiconductor Processing* Volume 34, June 2015, Pages 373–381 (IF=1.95)
 11. Razium Ali Soomro, Zafar Hussain Ibupoto, Sirajuddina, **Muhammad Ishaq Abro**, Magnus Willander, Electrochemical sensing of glucose based on novel hedgehog-like NiO nanostructures, *Sensors and Actuators B* 209, Vol. 209, 31 March 2015, Pages 966–974, IF= 4.097
 12. Syeda S. Hassan, Ayman Nafadyb, Sirajuddin, Amber R. Solangi, Muhammad S. Kalhor, **Muhammad Ishaq Abro**, Syed Tufail H. Sherazi, Ultra-trace level electrochemical sensor for methylene blue dye based on nafion stabilized ibuprofen derived gold nanoparticles, *Sensors and Actuators B* 208, 1 March 2015, Pages 320–326, IF= 3.668
 13. Zafar Hussain Ibupoto, Ayman Nafady, Razium Ali Soomro, Siraj uddin, S.T.H. Sherazi, **Muhammad Ishaque Abro** and Magnus Willander, Glycine-assisted synthesis of NiO hollow cage-like nanostructures for sensitive non-enzymatic glucose sensing, *RSC Adv.*, vol. 5, issue 24, 9 Feb 2015, Pages 18773-18781, 2015 IF=3.84
 14. Farooq Ahmeda, Sidra Saleemia, Zeeshan Khatria, **Muhammad Ishaq Abro**, Ick-Soo Kim, Co-electrospun poly(ϵ -caprolactone)/cellulose nanofibers fabrication and characterization, *Carbohydrate Polymers* Volume 115, 22 January 2015, Pages 388–393, IF= 4.330
 15. Razium Ali Soomro, Zafar Hussain Ibupoto, Sirajuddin, **Muhammad Ishaq Abro**, Magnus Willander, Controlled synthesis and electrochemical application of skein-shaped NiO nanostructures, *Journal of Solid State Electrochemistry*, Vol. 19 Issue 3, 14 December 2014, Pages 913-922., IF= 2.44, <http://link.springer.com/article/10.1007%2Fs10008-014-2700-z>
 16. Zeeshan Khatri, Farooq Ahmed, Abdul Khaliq Jhatial, **Muhammad Ishaque Abro**, Gopiraman Mayakrishnan, Ick-Soo Kim, Cold pad-batch dyeing of cellulose nanofibers with reactive dyes, *Cellulose*, August 2014, Vol. 21, Pages 3089-3095, IF= 3.195
 17. **Muhammad Ishaq Abro**, A.G. Pathan, A.R. Memon, Sirajuddin, Dual polymer flocculation approach to overcome activation of gangue minerals during beneficiation of complex iron ore, *Powder Technology*, 245, September 2013 281–291, IF= 2.269
 18. Zulfiqar A. Tagar, Sirajuddin, Najma Memon, Muhammad S. Kalhor, Paul O'Brien, Mohammad A. Malik, **Muhammad Ishaq Abro**, Syeda S. Hassan, Nazar H. Kalwar, Yasmeen Junejo, "Highly sensitive, selective and stable multi metal ions sensor based on ibuprofen capped mercury nanoparticles", *Sensors and Actuators B: Chemical*, Volume 173, October 2012, Pages 745-751, IF= 4.758
 19. Kalwar N. H., Sirajuddin, Sherazi S. T. H., **Muhammad Ishaq Abro**, Tagar Z. A., Syeda S. H., Junejo Y., Khattak M. I." Synthesis of l-methionine stabilized nickel nanowires and their application for catalytic oxidative transfer hydrogenation of isopropanol", *Applied Catalysis A: General*, Vol. 400, Issue: 1-2, pp: 215–220, 30 June 2011, IF= 3.910.
 20. **Muhammad Ishaq Abro**., Pathan A. G., Mallah A. H., and Böhm A., 'Mineralogical Characterization of Dilband Iron Ore Deposits of Balochistan, Pakistan [Mineralogische Beschreibung der Dilband-Eisenerzlagerstätten in Balochistan,

Pakistan]'. BHM Berg- und Hüttenmännische Monatshefte, Springer Wien Publisher, Volume 153, Number 6, pp 206-210, Jun 2008.

National

21. Imtiaz Ali Soomro, **Muhammad Ishaque Abro**, Ali Dad Chandio, and Muhammad Moazam Baloch, "Effect of Intercritical Heat Treatment on Mechanical Properties of Plain Carbon Dual Phase Steel", Mehran University Research Journal of Engineering & Technology, Jan 2018, vol. 37, issue 1, Pages 149-158
22. Sultan Ahmed Khoso, **Muhammad Ishaque Abro**, Muhammad Hassa Agheem "Mineralogical Study of Zard Koh and Kulli Koh Iron Ore Deposits of Pakistan" Mehran University Research Journal of Engineering & Technology, Oct 2017, vol. 36, issue 4, Pages 1017-1024
23. **Muhammad Ishaque Abro**, Riaz Ahmed Memon, Imtiaz Ali Soomro, Umair Aftab, "Effect of intercritical heat treatment on mechanical properties of reinforcing steel bars", Mehran University Research Journal of Engineering & Technology, July 2017, vol. 36, issue 3, Pages 589-596
24. Inamullah M, Umair A, **Muhammad Ishaq Abro**, M.M Baloch, "Selective Leaching of Steel Pollutant Element from Dilband Iron Ore, Pakistan", Mehran University Research Journal of Engineering & Technology, July 2017, vol. 36, issue 3, Pages 757-762
25. **Muhammad Ishaq Abro**, M. M. Baloach, and M. H. Jokhio, "Effect of temperature on the toughness of locally manufactured low alloy steel SUP9 used for manufacturing leaf springs", Mehran University Research Journal of Engineering & Technology Vol 30, N0. 4, pp: 634-644, October 2011, [ISSN 0254-7821].
26. **Muhammad Ishaq Abro**, and A. G. Pathan, A. H. Mallah, "Selective Flocculation of Dilband Iron Ore, Pakistan" Mehran University Research Journal of Engineering & Technology, Vol 30 N0. 2, pp: 319-328, April 2011. [ISSN 0254-7821]
27. **Muhammad Ishaq Abro**, and A. G. Pathan, A. H. Mallah, "Liberation of Oolitic Hematite Grains From Iron Ore, Dilband Mines Pakistan." Mehran University Research Journal of Engineering & Technology, Vol 30 N0. 2, pp: 329-338, April 2011. ISSN 0254-7821]
28. **Muhammad Ishaq Abro**, A. G. Pathan, A.H. Mallah, "Work Index And Grinding Energy Assessment Of Dilband Iron Ore, Pakistan" Mehran University Research Journal of Engineering & Technology, Vol 30, No.1, pp: 29-34, January, 2011 [ISSN 0254-7821]
29. **Muhammad Ishaq Abro**, A. G. Pathan, "Determination of Physico-chemical Characteristics of Dilband Iron Ore." Mehran University Research Journal of Engineering & Technology, Vol. 29, N0. 2, pp: 291-296, April 2010. [ISSN 0254-7821].
30. **Muhammad Ishaq Abro**, A. G. Pathan, Bohm A and A. H. Mallah, "Effect of Various Parameters on the Dispersion of Ultra Fine Iron Ore Slurry. Part-2.", Pak. J. Anal. Environ. Chem. Vol. 10, No. 2, pp: 18-22, (2010), [ISSN-1996-918X].
31. **Muhammad Ishaq Abro**, A. G. Pathan, A.H. Mallah, "Assessment of Mesh of Liberation of Dilband Iron Ore, Pakistan", Mehran University Research Journal of Engineering & Technology, Vol 29 N0. 3, pp455-464, July 2010. [ISSN 0254-7821]

32. **Muhammad Ishaq Abro**, and, M. M. Baloch “Effect of Microstructure on Torsional Behavior of Low Carbon Carburized Steel (AISI1020)”, Mehran University Research M. M. Baloch Journal of Engineering & Technology, Vol. 29, NO. 1, pp 145- 152, January 2010. [ISSN 0254-7821].
33. M. M. Baloch, and **Muhammad Ishaq Abro**, “Effect of Austempering Temperature on Microstructure and Mechanical Properties of ADI”, Mehran University Research Journal of Engineering & Technology, Vol. 29, NO. 1, pp 137- 144, January 2010.
34. **Muhammad Ishaq Abro**, A. G. Pathan, Bohm A and A. H. Mallah, “Effect of Various Parameters on the Dispersion of Ultra Fine Iron Ore Slurry. Part-1.”, Pak. J. Anal. Environ. Chem. Vol. 10, No. 1-2, pp: 34-38, (2009), [ISSN-1996-918X].
35. **Muhammad Ishaq Abro**, and M. H. Jokhio, “Effect of Post Heat Treatment Processes on Torsional Behavior of Carburized Steel”, Mehran University Research Journal of Engineering & Technology, Vol. 22, NO. 3, pp 153- 164, 2003. [ISSN 0254-7821].
36. **Muhammad Ishaq Abro**, Khurshid Abbasi, Ali Nawaz Memon, “Determination of Transition Temperature of Leaf Spring”, Sindh University Research Journal (Science Series), Vol. 29, NO.01, pp 55-59, 1997.
37. Khurshid Abbasi, **Muhammad Ishaq Abro**, and Ali Nawaz Memon, “Failure Analysis of Leaf Spring”, Sindh University Research Journal (Science Series), Vol. 29, NO.01, pp 83-85, 1997.
38. Ali Nawaz Memon, Khurshid Abbasi, and **Muhammad Ishaq Abro**, “An Attempt to Investigate the Toughness Enhancing Heat Treatment Process For Leaf Spring”, Sindh University Research Journal (Science Series), Vol. 29, NO.2, pp: 7-18, 1997.

Proceedings

- 38 **Muhammad Ishaq Abro.**, and Pathan, A. G. “**Role of Polyvalent Metal Ions in Selective Flocculation of Hematite from Hematite-Quartz System**”, 22nd World Mining Congress (WMC) & Expo 11-16 September 2011 Istanbul. Vol III, pp: 311 to 318.
- 39 **Muhammad Ishaq Abro**, M. H. Jokhio, and Dr. A. H. Mallah, “**Effect of Microstructural Constituents on Torsional Behavior of AISI-1020 Carburized Steel**”, Proceedings of First International Conference on Frontiers of Advanced Engineering Materials, 2004.
- 40 M. H. Jokhio, **Muhammad Ishaq Abro**, Ashfaque Essani, “**Industrial Pollution is An Environmental Issue of Karachi Urban Area**”, Proceedings of Environmentally Sustainable Development, Vol II ESDev 2005