

Science Citation Indexed Research Journals Publications:

1. S. Wang, M. Iqbal, Y. Chi, R. Liu, and X. Huang, The beam energy feedback system for Beijing electron positron collider II linac, *Review of Scientific Instruments*, (2017), Accepted.
2. Munawar Iqbal, Abdul Rehman, Z. Zhou and MAK, Lodhi, Design analysis of SLAC S-band Klystron DC electron gun, *Applied Sciences-Basel*, (2017), Accepted, [arXiv:1512.08884](https://arxiv.org/abs/1512.08884) [physics.acc-ph].
3. G. Islam, A. Rehman, M. Iqbal and Z. Zhou, Simulation and Test of a Pont Focused Electron Beam Emitter, *Instruments and Experimental Techniques*, Vol. 60, No. 1, (2017), 87–90. **IF [0.353]**
4. M. Azam, N. Adeela, U. Khan, S. Riaza, M. Iqbal, S. Naseem, Structural and magnetic investigations of Cr substituted NiFe₂O₄ nanostructures, *J. Alloy. Comp.*, Volume 698, 25 March (2017), 228–233. **IF [3.014]**.
5. Liu Mingshan and Munawar Iqbal, Longitudinal jitter analysis of linear accelerator electron gun, *Applied Sciences-Basel*, Volume 6, Issue 11, November 19, (2016), 350, **IF [1.726]**
6. N. Adeela, U. Khan, M. Iqbal, M. Irfan, H. Ali, S. Riaz, and S. Naseem, Structural and magnetic response of Mn substituted Co₂ Y-type barium hexaferrites. *J. Alloy. Comp.*, Volume 686, 25 November, (2016), 1017–1024. **IF[3.014]**.
7. M. Hussain, S. Tariq, M. Ahmad, H. Sun, K. Maaz, G. Ali, Z. Hussain, M. Iqbal, S. Karim and A. Nisar, Ag-TiO₂ nanocomposite for environmental and sensing applications, *Material Chemistry and Physics*, 181, 15 September, (2016), 194-203. **IF[2.101]**.
8. Adeela Nairan, Usman Khan; Munawar Iqbal, S. Raiz, H.ali, M.Khan and S.Naseem, Magnetic and Dielectric Investigations of Mn-Doped Ba Hexaferrite Nanoparticles by Hydrothermal Approach, *Journal of Electronic Materials*, 26 July, (2016) 1-7. **IF [1.491]**
9. Munawar Iqbal et al., Noble metal nanoparticles functionalized ZnO nanoflowers for photocatalytic degradation of RhB dye and electrochemical sensing of hydrogen peroxide, *J. Nanoparticle Research*, **18**(4), 06 April, (2016), 95, 1-14. **IF [2.101]**.
10. Munawar Iqbal et al., Temperature dependent magnetic response of anti-ferromagnetic doping in Cobalt Ferrite nanostructures, *Nanonmaterials*, **6**(4), 18 April, (2016)73, 1-13. **[2.690]**.
11. Munawar Iqbal e al., Structural and magnetic response in bimetallic core-shell magnetic nanoparticles, *Nanonmaterials*, **6**(4) 14 April, (2016), 72. **IF [2.690]**.

12. Munawar Iqbal et al., Response of Iron Oxide on hetero-nanostructures of soft and hard Ferrites, *Superlattices and Microstructures*, 92, April, (2016), 374-379. IF [2.117].
13. S. Wang, Munawar Iqbal, R. Liu, and Y. Long, Online beam energy measurement of BEPCII linear accelerator, *Review of Scientific Instruments*, 87(2), 17 February, (2016), 023301-8. **IF [1.336]**.
14. Ghalib ul Islam, Abdul Rehman, Munawar Iqbal and Z. Zhou, Simulation and test of a thermionic hairpin source DC electron beam gun, *Optik-Int. J. Light Electron Optics*, 127 (4) February, (2016), 1905-1908. **IF [0.742]**.
15. Munawar Iqbal et el; Corrigendum to ‘Fabrication and temperature dependent magnetic properties of nickel nanowires embedded in alumina templates, *Ceramics International* 42 January, (2016), 1020. **IF [2.758]**.
16. Munawar Iqbal et al., “Influence of Cobalt doping on structural and magnetic properties of BiFeO₃ nanoparticles", *J. Nanopart. Res.* 17(11), November, (2015), 429, 1-9. **IF [2.101]**.
17. Munawar Iqbal et al., Fabrication and temperature dependent magnetic properties of nickel nanowires embedded in alumina templates, *Ceramic International*, 41(9), November, (2015), 12081–12086. **IF [2.758]**.
18. Munawar Iqbal et al; Structural and Magnetic Studies of Ni_xCo_{0.8-x}Mn_{0.2}Fe₂O₄ Nanoparticles Prepared via Co-precipitation Rout, *The Nucleus*, 52 (4), December, (2015) 151-154. *HEC Recognized Y Category*.
19. Munawar Iqbal, G. Islam, I. Misbah, I.Obaid and Z. Zusheng, Simulation and test of a strip source electron gun, *Review of Scientific Instruments*, Vol. 85, Issue 6, 11 June (2014) 066106. **IF [1.729]**.
20. Munawar Iqbal, A.Wasy, G. Islam and Z. Zusheng, Finite element analyses of a linear-accelerator electron gun, *Review of Scientific Instruments*, Vol. 85, Issue 2, February (2014), 023304 **IF [1.729]**.
21. Liu Mingshan and Munawar Iqbal, Electron gun jitter effects on beam bunching, *Review of Scientific Instruments*, Vol. 85, Issue 2, February (2014), 023303 **IF [1.729]** .
22. Munawar Iqbal et el., Enhanced photocatalytic and electrochemical properties of Au nanoparticles supported TiO₂ microspheres, *New Journal of Chemistry*, 38 (2014),1424-1432 [3.159]

23. Munawar Iqbal, G. Islam, S. Saleem, W.B. Hermannsfeldt, Design optimization of the hairpin source electron gun using EGUN, *VACUUM*, Volume 101, March, (2014), 157-162. **IF [1.858]**.
24. Munawar Iqbal, G. Islam, Z. Zusheng, C. Younlong, Characteristic beam parameter for the line electron gun, *Review of Scientific Instruments*, No. **84**, issue 11 November, (2013), 116107 **IF[1.729]**.
25. Munawar Iqbal, G. Islam, M.A. Faridi, Z. Zusheng, Electron beam guns for high energy electron accelerators- An overview, *Journal of Modern Physics*, Vol. 4, November, (2013),1536-1539. **IF [0.79]**.
26. A. Wasy, Munawar Iqbal, J. I. Song, Finite element simulation of simple bending problem and code development in C++, *European Academic Research*, Vol. 1, Issue 6, September, (2013), 1391-1406. **IF [0.485]**.
27. Munawar Iqbal, A. Wasy, M.A.K. Lodhi, Thermal analysis of the long line source electron gun, *Review of Scientific Instruments*, No. **84**, Issue 5, May, (2013), 056113. **IF [1.729]**.
28. Munawar Iqbal et al., Influence of annealing on structural, morphological and optical properties of Cd_xZn_{1-x}O nano-powder prepared by Co-precipitation method, *Material Science- Poland*, **30** (3), September, (2012), 248-253. **IF [0.507]**.
29. Munawar Iqbal, Abdul Wasy, Dimitri Batani, Haris Rashid and MAK Lodhi, Design modification in rotor blade of a Turbo Molecular Pump, *Nuclear Instruments & Methods in Physics Research A*678, (2012), 88-90. **IF [1.316]**
30. Munawar Iqbal and Haris Rashid, High energy thermionic electron beam for material surface modifications, *World Journal of Engineering*, Vol. 8, Supplement 1, (2011), 467-468.
31. Munawar Iqbal et al., Laser Induced Forward Transfer (LIFT) of Materials using 40-ps Pulses - Experimental and Quantitative Modelisation Study, *Journal of Laser Micro/Nanoengineering*, Vol. 6, No. 2, September, (2011), 151-157. **IF[1.024]**
32. Munawar Iqbal, M.AK.Lodhi, Z.Majeed and D.Batani, Electrostatic focusing of directly heated linear filament gun using EGUN, *Nuclear Instruments & Methods in Physics Research A* **641**, June, (2011), 1-4. **IF[1.316]**
33. Munawar Iqbal, A.Faridi, Z.Majeed and H.M.Akram., Optimal welding parameters with 10keV point source electron gun, *Vacuum*, **85**(6), 11 January, (2011), 454-456. **IF[1.858]**

34. Munawar Iqbal, I. Shaukat, A.Mahmood, K.Abbas and A.Haq, Surface modification of mild steel with Boron Carbide reinforcement by electron beam melting, *Vacuum*, **85**(1), 23 July, (2010), 45-47. **IF[1.858]**
35. Munawar Iqbal et al., Laser induced forward transfer (LIFT) of material using ablation of thin films, *Radiation Effects & Defects in Solids*, **165**(6-10), June-Oct, (2010), 501-508. **IF[0.660]**
36. Munawar Iqbal et al., *Optical* analysis of Germanium Carbide thin film deposited by reactive pulsed laser ablation, *Journal of Laser Micro/Nanoengineering*, **5**(3), December, (2010), 204-208. **IF[1.024]**
37. Munawar Iqbal et al., Microstructure and hardness studies of electron beam melted surface of mild steel, *Applied Surface Science*, **255**(13-14), 15 April, (2009), 6721-6723. **IF[3.150]**
38. Munawar Iqbal et al., Influence of balancing parameters in achieving magnetic field uniformity in a large cylindrical volume, *Journal of Applied Physics* **104**(1), (2008), 014908-7. **IF[2.259]**
39. Munawar Iqbal, et al., Emission characteristics of the thermionic electron beam sources developed at EBSDL, *Nuclear Instruments & Methods in Physics Research A* **584**, I January (2008), 9-24. **IF[1.316]**
40. Munawar Iqbal & Fazal-e-Aleem, Design and performance of high uniformity linear filament electron gun, *Review of Scientific Instruments*, **77**(10), (2006), 1106101-1106103. **IF[1.729]**
41. Munawar Iqbal, et al., Design optimization of a hairpin electron source for electron beam welding, *Vacuum* **81**(4), 6 November, (2006), 499-501. **IF[1.858]**
42. Munawar Iqbal, et al., The electron beam gun with thermionic hairpin-like cathode for welding and surface modifications, *Vacuum*, **77**(1), (2004), 19-26. **IF[1.858]**
43. Munawar Iqbal, et al., An electro-magnetically focused electron beam line source, *Review of Scientific Instruments* **74**(11), (2003), 4616-4619. **IF[1.729]**
44. Munawar Iqbal, et al., “An indirectly heated electron beam emitter assembly, *Review of Scientific Instruments* **74** (3), (2003), 1196-1199. **IF[1.729]**
45. Munawar Iqbal, et al., Development of a 20kW electron beam line source, *The Nucleus*, **38**(1), (2001), 1-3. **HEC Recognized ‘Y’ Category.**
46. Rana Munawar Iqbal and Syed Ruksar, Study of hadronization in the QCD cluster fragmentation model in Electron-Positron annihilation, *Science international* **10**(4), (1998), 397-398. **HEC Recognized ‘Z’ Category.**

47. Munawar Iqbal, M.Tahir and R.Shah, Fragmentation models and inclusive production of neutral Pions & Kaons in Electron-Positron annihilation, *Science International*, **2** (3), (1990), 177-181. *HEC Recognized 'Z' Category*.
48. Munawar Iqbal et al., Generation, Design & Applications of High Energy Electron Beam Sources- An Overview, *World Scientific*, **9910**, (2013), 37-40.
49. Munawar Iqbal et al., Optimization of Electrostatic Focusing for Line Source Electron Beam Emitter Assembly, *Physics Procedia*, **32** (2012) 891-895.
50. Munawar Iqbal et al., Electron Beam Technology–Some Recent Developments, *World Scientific*, (2010), 285-289.
51. Munawar Iqbal, et al., Theory & Design of Thermionic Electron Beam Guns, *AIP Conf. Proc.* **748** (1) (2005), 376-386.
52. Munawar Iqbal et al., An Indirectly Heated Thermionic Electron Beam Source, ebeam2002, Int. Conf. on High Power Electron Beam Technology, October 27– 29, USA, **18** (2002), 1-6.
53. Munawar Iqbal et al., "A Directly Heated Thermionic Line Source Electron Beam Emitter Assembly", Proceedings of EBT'2003, 7th International Conference on Electron Beam Technologies, Varna, Bulgaria, (2003), 64-70.