# DEPARTMENT OF PHYSICS, CIIT-LAHORE
# PUBLICATION FOR YEAR 2014

1. S. H. Bukhari, S. Aslam, F. Mustafa, A. Jamil, S. N. Khan, M. A. Ahmad, "Entangled coherent states for quantum information processing" Optik - Interna-tional Journal for Light and Electron Optics Volume 125(15)2014, 3788–3790
2. M. Asif "Theoretical Calculation of Effective Ionic Charge with Lithium Limiter on HT-7 Tokamak" Journal of Fusion Energy, Volume 33(4)2014, 444-448
3. M. Asif "Study of Energy Confinement Time by the Analytical Solution of Grad–Shafranov Equation with Lithium Limiter for Circular Cross-Section Toka-mak" Journal of Fusion Energy, Volume 33(4)2014, 449-452
4. S. Q. Hussain, W-K. Oh, S. Kim, S. Ahn, A. H. Tuan Le et al., "Study of Low "Resistivity and High Work Function ITO Films Prepared by Oxygen Flow Rates and N2O Plasma Treatment for Amorphous/Crystalline Silicon Heterojunction Solar Cells" Journal of Nanoscience and Nanotechnology, Volume 14 (2014), 1-5
5. S. Q. Hussain, W-K. Oh, S. Ahn, A. H. Tuan Le et al., "Highly transparent RF magnetron-sputtered indium tin oxide films for a-Si:H/c-Si heterojunction solar cells amorphous/crystalline silicon" Materials Science in Semiconductor Processing, Volume 24(2014), 225-230
6. S. Q. Hussain, W-K. Oh, S. Ahn, A. H. Tuan Le et al., "RF Magnetron Sputtered ITO:Zr Thin Films for the High Efficiency a-Si:H/c-Si Heterojunction Solar Cells" Met. Mater. Int., Volume 20 (3)2014, 565-569
7. M. A. Sultan, N. Akbar, B. Masud and F. Akram "Higher hybrid charmonia in an extended potential model" Physics review-D, Volume 90(2014), 054001
8. M. Idrees, M. Nadeem, N-E. Sung, T. Asanova, T. J. Shin "On the oxidation state of 'Fe' in LaFe1−xNixO3" Chemical Physics Letters, Volume 612(2014), 262-265
9. M. A. Khan, R. Raza, R. B. Lima, M. A. Chaudhry, E. Ahmed, B.Zhu, N. Nasir "Effect of titania concentration on the grain boundary conductivity of calci-um-doped ceria electrolyte" Ceramics International, Volume 40(7),2014, 9775–9781
10. M. N. Akhter, M. H. Asif, R. Raza et al. "Mn0.8Zn0.2Fe2O4 nano particulates spinel ferrites: An approach to enhance the antenna field strength for im-proved magnitude versus offset (MVO)" Progress in Natural Science: Materials International Volume 24(4)2014, 364–372
11. M. Saleem, L. Fang, M. A. Ahmad, R. Raza et al., "Synthesis, Characteristics and Application of ZnO nanowires in Dye-sensitized Solar Cells via Water Bath Method" NANO, Volume 9(6)2014, 1450061
12. M. Asif and the HT-7 Team "Study of Energy Confinement Time by the Analytical Solution of Grad–Shafranov Equation with Lithium Limiter for Circular Cross-Section Tokamak" Journal of Fusion Energy, Volume 33(4)2014,449-452
13. M. Asif and HT-7 Team "Theoretical Calculation of Effective Ionic Charge with Lithium Limiter on HT-7 Tokamak" Journal of Fusion Energy, Volume 33(4) 2014,444-448
14. M. Jamil, Z. Mir, M. Asif and M. Salimullah "Jeans stability in collisional quantum dusty magnetoplasmas" Physics of Plasmas Volume 29(1)2014, 092111

15. Rasheed, M. Jamil, M. Siddique, F. Huda, Y.-D. Jung “Beam excited acoustic instability in semiconductor quantum plasmas” Physics of Plasmas, Vol-ume 21(2014), 062107
16. Rozina, N. L. Tsintsadze, M. Jamil, A. Rasheed, S. Ali “Electromagnetic wave instability in a relativistic electron-positron-ion plasma” Astrophysics and Space Science, Volume 353(2)2014, 485
17. Y-D. Jung, A. Rasheed, M. Jamil “Renormalization screening and collision induced quantum interference in dense plasmas” Physics of Plasmas , Volume 21(2014), 074503
18. Rasheed, M. Jamil, A. A. Khan, W. M. Moslem “Shielding with the dynamics of electron acoustic wave in multi-electron plasmas” Astrophysics and Space Science, DOI 10.1007/s10509-014-2098-1
19. M. N. Akhtar, N. Nasir, M. Kashif, N. Yahya, M. Ahmad et al., “Mn0.8Zn0.2Fe2O4 nanoparticulates spinel ferrites: An approach to enhance the antenna field strength for improved magnitude versus offset (MVO)” Progress in Natural Science: Materials International, Volume 24 ( 4)2014, 364-372
20. M. A. Khan, K. Khan, A. Mahmood, G. Murtaza, M. N. Akhtar et al., “Nanocrystalline La1−xSrxCo1−yFeyO3 perovskites fabricated by the micro-emulsion route for high frequency response devices fabrications” Ceramics International Volume 40(8), Part B(2014), 13211–13216
21. M. N. Akhtar, M. A. Khan, M.R. Raza et al., “Structural, morphological, dielectric and magnetic characterizations of Ni0.6Cu0.2Zn0.2Fe2O4 (NCZF/MWCNTs/ PVDF) nano composites for multilayer chip inductor (MLCI) applications” Ceramics International, Volume40(10)2014, 15821–15829
22. M. A. Ahmad, N. Akram, R. Raza “Structural and electrical characterization of nanostructure electrodes for SOFCs” International Journal of Hydrogen Energy, Volume 39(30)2014, 17487–17491
23. R. J. Amjad, M. R. Sahar, S.F. Shaukat, H. Mahmood, A. Sattar et al., “Plasmon enhanced scattering and fluorescence in amorphous matrix” International Journal of Materials Research, Volume 105(11)2014
24. S. Rehman, H. Mumtaz, S. Hayashi, S. F. Shaukat and Z. Sekkat, “Estimation of optical constants of a bio-thin layer (onion epidermis), using SPR spectros-copy“, Journal of Optics, Volume 16(12)2014, 125014
25. H. Latif, M. S. Rafique, M. K. Rahaman, A. Sattar et al., “Surface modification of platinum by laser-produced X-rays” Radiation Effects and Defects in Solids DOI: 10.1080/10420150.2014.972398
26. M. Rashad, F. Pan, M. Asif, S. Hussain, M. Saleem “Improving properties of Mg with Al–Cu additions”, Materials Characterization, Volume 95(2014),140- 147
27. M. N. Akhtar, M. A. Khan, M.R. Raza, M. Ahmad, G. Murtaza, R. Raza at al., “Structural, morphological, dielectric and magnetic characterizations of Ni0.6Cu0.2Zn0.2Fe2O4 (NCZF/MWCNTs/PVDF) nanocomposites for multilayer chip inductor (MLCI) applications” Ceramics International, Volume 40(10) 2014, 15821–15829
28. M. N. Aslam, S. M. Qaim, “Nuclear model analysis of excitation functions of proton and deuteron induced reactions on 64Zn and 3He- and α-particle induced reactions on 59Co leading to the formation of copper-61: Comparison of major production routes”, Applied Radiation and Isotopes, Volume 602 (25)2014, 131–140

29. G. Murtaza, R. Ahmad, T. Hussain, R. Ayub, I. Ali, M. A. Khan, M. N. Akhtar, “Structural and magnetic properties of Nd–Mn substituted Y-type hexafer-rites synthesized by micro-emulsion method”, Journal of Alloys and Compounds Volume 602(25)2014, 122-129
30. M. A. Khan, K. Khan, A. Mahmood, G. Murtaza, M. N. Akhtar et al., “Nano crystalline La1-xSrxCo1-yFeyO3 perovskites fabricated by the micro-emulsion route for high frequency response devices fabrications”, Ceramic International, Volume (40)8, 2014, 13211-13216