

## DEPARTMENT OF PHYSICS, CIIT-LAHORE

### PUBLICATION FOR YEAR 2015

1. “Structural and magnetic behavior of Pr-substituted M-type hexagonal ferrites synthesized by sol-gel auto combustion for a variety of applications” Waseem Abbas,.... **Majid Niaz Akhtar**, Mukhtar Ahmad, Journal of Magnetism and Magnetic Materials Volume 374 15, 187–191
2. “Structural and Photovoltaic Characteristics of Hierarchical ZnO Nanostructures Electrodes” **Muhammad Saleem L. Fang, Saleem F Shaukat, M. Ashfaq Ahmad, Rizwan Raza, Majid Niaz Akhtar, Ayesha Jamil, Samia Aslam**, Ghazanfar Abbas *Applied Surface Science* 334, 145-150 (IF=2.538)
3. “Spectroscopic investigation and Judd–Ofelt analysis of silver nanoparticles embedded Er<sup>3+</sup>-doped tellurite glass” **Raja J. Amjad**, et al, Current Applied Physics, 15(1), 1-7, (IF=2.026)
4. “Photoluminescence study of Sm<sup>3+</sup>-Yb<sup>3+</sup>-co-doped tellurite glass embedding silver nanoparticles” M. R. Dousti, **Raja J. Amjad**, R. Hosseinian S, M. Salehi, M. R. Sahar, Journal of Luminescence, 159, 100-104, (IF=2.367)
5. “Guanidine functionalized radiation induced grafted anion-exchange membranes for solid alkaline fuel cells” S.T.A Sherazi, G. Abbas **Rizwan Raza**, International Journal of Hydrogen Energy, 40, 786-796, (IF=4.05)
6. “Schottky Junction Effect on High Performance Fuel Cells Based on Nanocomposite Materials” Bin Zhu, Peter Lund, **Rizwan Raza**, et al. *Advanced Energy Materials*, DOI: 10.1002/aenm.201401895, (IF=14.385)
7. “Synthesize and characterization of nanocomposite anodes for low temperature solid oxide fuel cell” G Abbas, **R Raza**, MA Khan et al. International Journal of Hydrogen Energy, 40 (2015), 891-897, (IF=4.05)
8. Electronic structure calculations of oxygen-doped diamond using DFT technique, M. Ullah, E.Ahmed, F. Hussain, A. M. Rana, **Rizwan Raza**, H. Ullah, *Microelectronic Engineering*, doi:10.1016, (IF=1.338)
9. Study of  $J/\psi \rightarrow \eta \pi^+ \pi^-$  at BESIII, **S. Nisar** with BESS Collaboration, *Phys.Rev. D*, **91 (2015), 5, 052017**, (IF=4.864)
10. Precision measurement of the  $D^*0$  decay branching fractions” **S. Nisar** et al (BES-III collaboration), *Phys.Rev. D*, 91 (3), 031101, (IF=.69)
11. Search for the  $Y(4140)$  via  $e^+e^- \rightarrow \gamma \phi J/\psi$  at  $s\sqrt{=}4.23, 4.26$  and  $4.36$  GeV” **S. Nisar** et al (BES-III collaboration), *Phys.Rev. D*, 91 (3), 032002, (IF=.69)
12. “Study of  $e^+e^- \rightarrow \omega \chi_{cJ}$  at center-of-mass energies from 4.21 to 4.42 GeV” **S. Nisar** with BESS Collaboration, *Phys.Rev.Lett.* , **114 (2015), 9, 092003**, (IF=7.728)
13. “Observation of  $J/\psi \rightarrow p p^- a_0(980)$  at BESIII” **S. Nisar** with BESS Collaboration, *Phys.Rev. D* , **91 (2015), 3, 039901** , (IF=4.864)

14. "Dust-lower-hybrid instability with fluctuating charge in quantum plasmas" **M. Jamil**, M. Ali, A. Rasheed, K. Zubia, and M. Salimullah, *Physics of Plasmas*, 22, 032107, (IF=3.28)
15. "Drift wave stabilized by an additional streaming ion or plasma population" **M. F. Bashir**, J. Vranjes, *Physical Review E*, 91, 033113, (IF=2.326)
16. "High performance solid state flexible supercapacitor based on molybdenum sulfide hierarchical nanospheres" **Muhammad Sufyan Javed** et al *Journal of Power Sources*, 285, 63-69, (IF=5.211)
17. "Enhanced near infrared emission of Er<sup>3+</sup>-doped tellurite glass containing silver nanoparticles" M. REZA DOUSTI, M. AMJAD, A. HUSSAIN, **R. J. AMJAD**, **S. F. SHAUKAT**, *Chalcogenide Letters*, 12(3), 123-128, (IF=1.18)
18. "Friction and Wear Assessment of Yttria Stabilised Zirconia Thermal Barrier Coatings Produced by Plasma Spraying Method" M. Farooq , **S. F. Shaukat**, [et.al](#), *Journal of Faculty of Engineering & Technology (JFET)*, 22( 1), 1-6
19. "Thermal Barrier Coatings (TBC) for Energy Efficient Systems" M. Farooq , **S. F. Shaukat**, [et.al](#), *Journal of Pakistan Institute of Chemical Engineers, JPIChE*, 43(1), 1-4
20. "Conductive and Electroactive Composite Paper Reinforced by Coating of Polyaniline on Lignocelluloses Fiber" **Aamir Razaq**, Muhammad Asif, Riffat Kalsoom, Ather Farooq Khan, Muhammad Saif Awan, Ishrat Sultana, S. M. Ramay *J. of App Polymer Science*, 132(29), 9210, (IF=1.7)
21. "Dielectric Studies of Composite Paper Reinforced with Polypyrrole Coated Pulp Fibers from Wasted Egg Holders" **Aamir Razaq**, M. Idrees, Adeel Malik, N. Mushtaq, M. Nadeem, Irshad Hussain, Muhammad Yar, *J. of Appl.Polymer Science*, 132(33), 10185, (IF=1.7)
22. "Study of morphology formation of near threshold percolating metallic nanoparticle thin films showing nonohmic behavior" **Sattar** , **R. J. Amjad** , **H. Mahmood** , **M. N. Akhtar** , H. Latif , M. Khalid , **A. Usman** , **M. Imran** , **A. Iqbal**, *journal of ovonic research*, 11, 113-121, (IF=0.5)
23. "Photodetachment of H<sup>-</sup> near a hard wall with arbitrary laser polarization direction" **Azmat Iqbal**, A. Afaq, *Chinese Physics B*, 24/8, 083201-05, (IF=1.603)
24. "Photodetachment of Hydrogen Negative Ion Near Inelastic Surfaces: Arbitrary Laser Polarization Direction" **A. Iqbal**, A. Afaq, **R. J. Amjad**, *Int. J. of Quantum Chemistry*, 24965, (IF=1.432)
25. "Spectroscopic properties of Tb<sup>3+</sup>-doped lead zinc phosphate glass for green solid state laser" M. Reza Dousti **Raja J. Amjad**, *Journal of Non-Crystalline Solids* , 420, 21–25, (IF=1.7),
26. "Choice of pulse sequence and parameters for improved signal to noise ratio in T1-weighted study of MRI" **N. Amin**, M. Afzal, M. Yousaf, M. A. Javid, *J. Pak. Med. Association*, 605, 512-518, (IF=0.403)
27. "Quantum Electron-Exchange Effects on the Buneman Instability in Quantum Plasmas" Woo-Pyo Hong, **M. Jamil**, A. Rasheed and Y. Dae Jung, De Gruyter, *Z. Naturforsch*, 70(6)a, 413-418, (IF= 0.9)

28. “Morphological and spectroscopic characterization of laser- ablated tungsten at various laser irradiances” Mahreen Akram, Shazia Bashir , Muhammad Shahid Rafique, Asma Hayat, Khaliq Mahmood, Asadullah Dawood, **M. F. Bashir**, Applied Physics A, 119, 859, (IF=1.694)
29. “Effect of anisotropic dust pressure and superthermal electrons on propagation and stability of dust acoustic solitary waves” **M. F. Bashir**, E. E. Behery, W. F. El-taibany, Physics of Plasmas, 22, 062112, (IF=2.25)
30. “Kinetic instability of drift magnetosonic wave in anisotropic low beta plasmas” H. Naim, **M. F. Bashir**, J. Vranjes and G. Murtaza, Physics of Plasmas, 22, 062117, (IF=2.25)
31. “Enhanced green emission of terbium-ions-doped phosphate glass embedding metallic nanoparticles” M R Dousti ; **R J Amjad** *J. Nanophoton.*, 9(1), 093068, (IF=1.44)
32. Morphology-Controlled Synthesis of Single Crystalline  $\alpha$ -Mn<sub>2</sub>O<sub>3</sub> Sea-Urchins Assembled with Pen-Type Nanoneedles and Broad Absorption Spectrum” Q. U. A. Javed, H. Abbas, **H. Mahmood**, **A. Sattar**, F. P. Wang, M. A. Kamran, **M. Yasir. Rafique**, A. M. Toufiq JOURNAL OF NANO RESEARCH, 33, 38-48, (IF=0.52)
33. “A Miniature Graphene-based Biosensor for Intracellular Glucose Measurements”K ul Hasan, **M. H. Asif**, M. U Hassan , Mats O. S. , O. Nura , M. Willandera , S Fagerholmf , P Strålfors Electrochimica Acta, 174, 574-580, (IF=4.5)
34. “On the oxidation state of Fe in LaFe<sub>1-x</sub>Ni<sub>x</sub>O<sub>3</sub>” **M. Idrees**, M. Nadeem, N. E. Sung, T. Asanova, T. J. Shin, Chemical Physics Letters, 612, 262-265, (IF=1.991)
35. Investigations of Structural and Magnetic Properties of Nanostructured Ni<sub>0.5+x</sub>Zn<sub>0.5-x</sub>Fe<sub>2</sub>O<sub>4</sub> Magnetic Feeders for CSEM Application” M. N. Akhtar, N. Yahya, A. Sattar, M. Ahmad, **M. Idrees**, M. H. Asif, M. A. Khan Int J Applied Ceramic Tech, 12, 625, (IF=1.215).
36. “Uniform 3D hydrothermally deposited zinc oxide nanorods with high haze ratio” Shahzada Qamar Hussain , et al, Mat Sci in SC Processing, 37, 99–104, (IF=1.9)
37. “SF<sub>6</sub>/Ar plasma textured periodic glass surface morphologies with high transmittance and haze ratio of ITO:Zr films for amorphous silicon thin film solar cells” S. Q Hussain G D Kwon, S Ahn, S Kim, H Park, A Huy Tuan Le , C Shin, Vacuum, 117, 91-97, (IF=1.4)
38. “Search for  $D^0 \rightarrow \gamma \gamma$  and improved measurement of the branching fraction for  $D^0 \rightarrow \pi^0 \pi^0$ ” S. Nisar (BESS) Phys.Rev. D, 91, 11, 112015, (IF=3.86)
39. “Measurement of  $B(\psi(3770) \rightarrow \gamma \chi_{c1})$  and search for  $\psi(3770) \rightarrow \gamma \chi_{c2}$ .” S. Nisar (BESS) Phys.Rev. D (2015)., 91, 9, 092009, (IF=4.86)
40. “Observation of the Dalitz Decay  $\eta' \rightarrow \gamma e^+e^-$ .” S. Nisar (BESS), Phys.Rev. D (2015), 92, 1, 012001, (IF=4.86)
41. “Observation of the electromagnetic doubly OZI-suppressed decay  $J/\psi \rightarrow \phi \pi^0$ .” S. Nisar (BESSIII), Phys.Rev. D (2015), 91, 11, 112001, (IF=4.86)
42. “Measurement of the proton form factor by studying  $e^+ e^- \rightarrow p \bar{p}$ ” S. Nisar (BESS III), Phys.Rev. D (2015), 91, 11, 112004, (IF=4.86)

43. “Measurements of  $\psi(3686) \rightarrow K^{\pm} \Lambda \bar{\Xi}^{+} + c.c.$  and  $\psi(3686) \rightarrow \gamma K^{\pm} \Lambda \bar{\Xi}^{+} + c.c.$ ” S. Nisar (BESS III), Phys.Rev. D (2015), 91, 9, 092006, (IF=4.86)
44. “Morphology, structural and electrical transport properties of graphite based multilayer thin films”, A Usman , M. S. Rafique , S. F. Shaukat, S. Anjum , H. Latif, A. Sattar, Digest Journal of Nanomaterials and Biostructures, 10, 915 – 925, .94
45. “The organic residue and synthesis of LaFeO<sub>3</sub> by combustion of citrate and nitrate precursors” M. Idrees, M. Nadeem, S A Siddiqi, R Ahmad, A. Hussnain, MMehmood, Materials Chemistry and Physics, 162, 652-658 (IF=2.259)
46. “Dielectric studies of composite paper reinforced with polypyrrole coated pulp fibers from wasted egg holders” A Razaq, M. Idrees, A Malik, N Mushtaq, M Nadeem, I Hussain, M Yar, Journal of Applied Polymer Science, 132/33, 5 (IF=1.768)
47. “Observation of  $\eta' \rightarrow \omega e^+ e^-$ ”, **Shabana Nisar** (BESIII), Phys. Rev. D, 92, 5, 051101, (IF=4.64)
48. “Search for  $Z_c(3900)_{\pm} \rightarrow \omega \pi^{\pm}$ ”, S Nisar (BESIII) Phys.Rev. D, 92, 3, 032009, (IF= 4.64)
49. “Light scattering effect of ITO:Zr/AZO films deposited on periodic textured glass surface morphologies for silicon thin film solar cells” SQ. Hussain, **A Razaq** et al., Applied Physics A, 120, 823, 1.7
50. “Study on the effects of isotropic cross-linked pristine morphology and electro-optical properties of PDLC films” Mujtaba Ellahi, **M.Yasir Rafique**, Yanzi Gao, M Furqan Ali, Huia Cao, Huai Yang, Polymer Bulletin, 72/11, 2917-2930, (IF=1.5)
51. “Study on the Effects of Epoxy Resin Based Polymer Dispersed Liquid Crystal Films Using Polythiol Group (–SH) as Hardener and Catalyst” Mujtaba Ellahi, **M.Yasir Rafique**, Shagufta Ishtiaque, M Furqan Ali, Jameel Memon, Materials Focus, 4/3 , 197-201
52. “Morphology-Controlled Synthesis of Single Crystalline  $\alpha$ -Mn<sub>2</sub>O<sub>3</sub> Sea-Urchins Assembled with Pen-Type Nanoneedles and Broad Absorption Spectrum” Q Ain J, Hussain A, **Hasan M**, **A Sattar**, F P Wang, M A Kamran, **M.Y Rafique**, A M Toufiq, Journal of Nano Research, 33, 38-48, (IF=0.7)
53. “Karpman-Washimi magnetization with electron-exchange effects in quantum plasmas”, Woo-Pyo Hong, **M. Jamil**, A. Rasheed, and Young-Dae Jung, Physics of Plasmas, 22(7), 073302 (2015), (IF=2.38)
54. “Jeans instability with exchange effects in quantum dusty magnetoplasmas” **M. Jamil**, A. Rasheed, Ch. Rozina, Y.-D. Jung, and M. Salimullah, Physics of Plasmas, 22(8), 082113 (2015); 2.38
55. “Wake potential with exchange-correlation effects in semiconductor quantum plasmas” **Arroj A. Khan**, **M. Jamil**, A. Hussain, Physics of Plasmas, 22(9), 092103 (2015), (IF=2.38)

56. "Temperature dependent structural and magnetic behavior of Y-type hexagonal ferrites synthesized by sole gel autocombustion" M Ahmad , M Ahmad, M N Akhtar , A Ali , G Abbas ,M Din Rana, Journal of Alloys and Compounds,651, 749-755, (IF=2.999)
57. "Influence of silver nanoparticles on the luminescence dynamics of Dy<sup>3+</sup> doped amorphous matrix" **R J. Amjad**, M.R. Doustib, **A Iqbal**, S Z Hussaind, M.R. Sahar, **S.F. Shaukat**, Measurement,74, 87–91, (IF=1.484)
58. "Structural and magnetic behavior evaluation of Mg-Tb ferrite/ polypyrrole nanocomposites" M.Azhar Khan, S. Riaz, I. Ali, **M N Akhtar**, G. Murtaza, M. Ahmad, I. Shakir, M. Farooq Warsi, Ceramics International, 41, 651-656, (IF=2.04)
59. "Impacts of Tb substitution at cobalt site on structural, morphological and magnetic properties of cobalt ferrites synthesized via double sintering method" M A Khan,,M. J. U. Rehman, K. Mahmood, I. Ali, **M N Akhtar**, G Murtaza, I Shakir, M F Warsi, Ceramics International, 41, 2286-2293, (IF=2.04)
60. "Synthesis and properties of Pr-substituted MnZn ferrites for core materials and high frequency applications" M. W. Mukhtar, M. Irfan, I. Ahmad, Ihsan Ali, **M N Akhtar**, M A Khan, G Abbas, M.U. Rana, M Ahmad, Journal of Magnetism and Magnetic Materials, 381, (IF= 2.0)
61. "Investigation of the magnetic properties of nanometric SrSmCoNi ferrite/PST matrix" I Ali, M.U. Islam, M N Ashiq, I Shakir, N Karamat, M. Ishaque, **M N Akhtar**, Ceramics International, 418748-8754, 2015, (IF=2.04)
62. "Structural and photovoltaic characteristics of hierarchical ZnO nanostructures electrodes" **M Saleem**, L. Fang, **S. F. Shaukat**, **M. A Ahmad**, **R Raza**, **M Niaz A, A Jamil**, **S Aslam**,**G Abbas**, Applied Surface Science, 334, 145-150 2015, (IF=2.71)
63. "Effects of Binder System and Processing Parameters on Formability of Porous Ti/Ha Composite Through Powder Injection Molding –I" M R Raza, A B Sulong, N. Muhamad, **Majid Niaz Akhtar**, Javad Rajbi, Materials & Design, 87, 386-392, 2015, (IF=3.57)
64. "Effects of Residual Carbon on Microstructure and Surface Roughness of PIM 316L Stainless Steel" M R Raza, **Majid Niaz Akhtar** et al , InCIEC 2014, 10.1007/978-981, (IF=1.80)
65. "Structural and magnetic behavior of Pr-substituted M-type hexagonal ferrites synthesized by sol-gel autocombustion for a variety of applications" W Abbas, **Majid Niaz Akhtar**, Mukhtar Ahmad, Journal of Magnetism and Magnetic Materials, 374, 2015, 187-191, (IF=2.0)
66. "Temperature dependent structural and magnetic behavior of Y-type hexagonal ferrites synthesized by sol–gel autocombustion" **M Ahmad**, M Ahmad, Ihsan Ali, W Ahmad, G Mustafa, **M N Akhtar**, et al, Journal of Alloys and Compounds,, 651, 2015, 749-755, (IF=3.00)
67. "Evaluation of Thermal, Morphological and Mechanical Properties of PMMA/NaCl/DMF Electrospun Nanofibers: An investigation through Surface

- Methodology Approach” **M N Akhtar**, A B Sulong, S Ab. Karim, C H Azhari, M. R. Raza, Iranian Polymer Journal, 24(12), 1025, (IF=1.80)
68. “Environmentally Friendly and Flexible Lignocelluloses Fibrils Sheet for Substrate of Patch Antenna” A Razaq, A Ali Khan, M. H. Asif, S. Iqbal et al, Modern Physics Letter B, 08, 1550187, (IF=1.0)
  69. “Theoretical Calculation of Plasma Thermal Energy Using the Solution of Equilibrium Problem” **M. Asif**, Journal of Nuclear and Particle Physics, 5/6, 97-100
  70. “Dependence of Effective Edge Safety Factor on the Energy Confinement Time by Using Equilibrium Problem” **M. Asif**, Journal of Nuclear and Particle Physics, 5/5, 93-95
  71. “Significance enhancement in the conductivity of core shell nanocomposite electrolytes” A. Rafique, **R Raza\***, N. Akram, *RSC Advances*, **5(105)**, 86322-86329, (IF=3.84)
  72. “Composite electrolyte with proton conductivity for low-temperature solid oxide fuel cell” **R Raza** · A Ahmad, N Akram et al, Applied Physics Letters, 107, 183903, (IF=3.30)
  73. “Electrochemical Properties of Barium Cerate Doped with Zinc for Methanol Oxidation” N. K. Janjua, M.Jabeen, M.Islam, A. Yaqub, **R Raza** and **G. Abbas**, J.Chem.Soc.Pak., Vol.37, Oct, 2015., 850-857, (IF=1.40)
  74. “Surface functionalization of solid state ultra-high molecular weight polyethylene through chemical grafting”, S.T.A Sherazi, **G. Abbas**, **R Raza**, Applied Surface Science, Volume 359, 30 December 2015., 593–601. (IF=2.71)
  75. “Synthesis of Ba 0.3 Ca 0.7 Co 0.8 Fe 0.2 O 3- $\delta$  composite material as novel catalytic cathode for ceria-carbonate electrolyte fuel cells”. Afzal, M., **R Raza**, R., Du, S., Lima, R. B. Zhu, B., Electrochimica Acta., 178, 2015, 385–391., (IF= 4.5)
  76. “Electronic structure calculations of oxygen-doped diamond using DFT technique” M. Ullah, **Rizwan Raza**, et al. Microelectronic Engineering, 146, 26–31, (IF=1.20)
  77. “UREA biosensor based on magnetic nano particles (Co<sub>3</sub>O<sub>4</sub>, Fe<sub>3</sub>O<sub>4</sub>) for the estimation of urea concentration in blood and urine samples” Ali, M. Ahmad, G. Abbas, M. N. Akhtar , M. Atif, Journal Of Optoelectronics And Advanced Materials, 17, 1515 – 1521, (IF=0.54)
  78. “Properties and Applications of Polyvinyl Alcohol, Halloysite Nanotubes and Their Nanocomposites,” T. S. Gaaz, Abu Bakar Sulong, **M N Akhtar**, et al Molecules, 20, 22833-22847, 2015., (IF=2.41)
  79. “Study of morphology formation of near threshold percolating metallic nanoparticle thin films showing non-ohmic behavior,” A Sattar, Rj Amjad, H Mahmood, **Majid Niaz Akhtar**, H Latif, M Khalid, Journal of Ovonic Research, 11(3), 113-121, 2015, (IF=0.59)
  80. “Investigations of Structural and Magnetic Properties of Nanostructured Ni<sub>0.5</sub> Magnetic Feeders for CSEM Application” **M N Akhtar**, N Yahya, A Sattar, M Ahmad, M Idrees, MH Asif, MA Khan Int. J. Appl. Ceram. Technol, 12(3), 625-637, (IF=1.34)

81. "Effects of Residual Carbon on Microstructure and Surface Roughness of PIM 316L Stainless Steel" M Rafi Raza, **Majid Niaz Akhtar**, et al InCIEC 2014, 10.1007/978-981-287-290-6\_81, 927-935,2015, (IF=1.80)
82. "Evaluation of Thermal, Morphological and Mechanical Properties of PMMA/NaCl/DMF Electrospun Nanofibers: An investigation through Surface Methodology Approach, **M N Akhtar et al**, Iranian Polymer Journal, 24, 1025-1038 2015, (IF=1.80)
83. "Choice of the Pulse Sequence and Parameters for Improved SNR in T1-Weighted Study of MRI. **N Amin**, M Afzal, M Yousaf, M A Javed, J Pak Med Assoc, 65, 512-518, (IF=0.49)
84. "Light scattering effect of ITO:Zr/AZO films deposited on periodic textured glass surface morphologies for silicon thin film solar cells" **Shahzada Qamar Hussain, AamirRazaq**, et al, **Applied Physcis A**, **120**, 823-828, (IF=1.704)
85. "Study of metal assisted anisotropic chemical etching of silicon for high aspect ratio in crystalline silicon solar cells" Y Lee, H Kim, **S Q Hussain**, S Han, N B, YLee, J Lee, JYi, **Materials Science in Semiconductor Processing**, **40**, 391-396, (IF=1.955)
86. "Study of decay dynamics and C P asymmetry in  $D^+ \rightarrow K^0 e^+ \nu_e$  decay, **S Nisar**(BESIII), **Physical Review D**, **92 (11)**, **112008**
87. "Measurement of the Absolute Branching Fraction for  $\Lambda_c^+ \rightarrow \Lambda e^+ \nu_e$ " S Nisar (BESIII), Physical review letters, 115 (22), 221805
88. "Measurement of the  $e^+ e^- \rightarrow \pi^+ \pi^-$  cross section between 600 and 900 MeV using initial state radiation" **S. Nisar** (BESIII), Physics Letters B, doi:10.1016/j.physletb.2015.11.043
89. "Observation of a Neutral Structure near the  $D D^*$  Mass Threshold in  $e^+ e^- \rightarrow (D D^*)^0 \pi^0$  at  $s = 4.226$  and  $4.257$  GeV" S Nisar (BESS) Phys Rev. Lett, 115 (22), 222002
90. "Confirmation of a charged charmoniumlike state  $Z_c(3885)^{\mp}$  in  $e^+ e^- \rightarrow \pi^{\pm} (D D^*)^{\mp}$  with double D tag" **S Nisar (BESIII)**, **Physical Review D**, **92 (9)**, **092006**
91. "Observation of a Neutral Charmoniumlike State  $Z_c(4025)^0$  in  $e^+ e^- \rightarrow (D^* D^*)^0 \pi^0$ ". S Nisar (BESIII), Physical review letters, 115 (18), 182002
92. "Measurement of the branching fractions of  $D_s^+ \rightarrow \eta' X$  and  $D_s^+ \rightarrow \eta' \rho^+$  in  $e^+ e^- \rightarrow D_s^+ D_s^-$ ," S Nisar (BESIII), Physics letters B, 750, 466-474
93. "Study of dynamics of  $D^0 \rightarrow K^- e^+ \nu_e$  and  $D^0 \rightarrow \pi^- e^+ \nu_e$  decays, S Nisar (BESIII), Physical Review D, 92 (7), 072012 (IF=4.643)
94. "Measurement of the form factors in the decay  $D^+ \rightarrow \omega e^+ \nu_e$  and search for the decay  $D^+ \rightarrow \phi e^+ \nu_e$ " S Nisar(BESIII), Phy Rev D, 92 (7), 071101 (IF=4.643)
95. "Er<sup>3+</sup>-doped zinc tellurite glasses revisited: Concentration dependent chemical durability, thermal stability and spectroscopic properties" MR Dousti, **RJ Amjad**, MR Sahar, ZM Zabidi, AN Alias, ASS de Camargo, Journal of Non-Crystalline Solids, 429, 70-78
96. "Photodetachment of hydrogen negative ion near inelastic surfaces: Arbitrary laser polarization direction" A Iqbal, A Ahmad, **RJ Amjad**, International Journal of Quantum Chemistry, 115 (21), 1526-1532

97. "Influence of silver nanoparticles on the luminescence dynamics of Dy 3+ doped amorphous matrix" **RJ Amjad**, MR Dousti, A Iqbal, SZ Hussain, MR Sahar, **SF Shaukat** Measurement, 74, 87-91
98. "Evaluation of excitation functions of the  $^{68,67,66}\text{Zn}(p,xn)^{68,67,66}\text{Ga}$  and  $^{67}\text{Zn}(p,\alpha)^{64}\text{Cu}$  reactions: Validation of evaluated data through comparison with experimental excitation functions of the  $^{\text{nat}}\text{Zn}(p,x)^{67,66}\text{Ga}$  and  $^{\text{nat}}\text{Zn}(p,x)^{64}\text{Cu}$  processes" **M.N. Aslam**, N. Amjed, S.M. Qaim. Applied Radiation and Isotopes, 96, 102-113, (IF=1.231)
99. "Evaluation of nuclear reaction cross sections for optimization of production of the emerging diagnostic radionuclide  $^{55}\text{Co}$ " N. Amjed, M. Hussain, **M.N. Aslam**, F. Tarkanyi, S.M. Qaim, 108, 38-48, (IF=1.231),
100. "Arbitrary amplitude ion acoustic solitary waves and double layers in a magnetized auroral plasma with q-nonextensive electrons" Rufai, O. R.Bains, A.S, **Ehsan, Zahida**; Astrophysics And Space Science, 357(2), 102, (IF=1.769)