

**LIST OF PUBLICATIONS OF DR. G. MURTAZA**  
**at Salam Chair in Physics, GCU Lahore (since March 2000 )**  
**(109=80 Research Papers +29 Conference Proceedings)**

1. Energy Loss of a Test Charge in Partially Ionized Dusty Plasmas  
Physics of Plasmas, **7**, 762 (2000)  
(M.H. Nasim, M.S Qaisar, Arshad M. Mirza, **G. Murtaza** and P.K. Shukla)
2. Electromagnetic Ion-Temperature-Gradient Modes and Anomalous Transport in a Nonuniform Magnetized Plasma with Equilibrium Flows  
Physics of Plasmas, **7**, 1125 (2000)  
(Tariq Rafiq, Anisa Qamar, Arshad M. Mirza, **G. Murtaza** and P.K. Shukla)
3. Energy Loss of a Test Charge in Collisional Dusty Plasmas  
Physica Scripta, **61**, 628 (2000)  
(M.H. Nasim, Arshad M. Mirza, **G. Murtaza** and P.K. Shukla)
4. Study of Plasma Parameters in a Spinning Thick-Gas-Puff Staged Pinch  
Physica Scripta, **62**, 399 (2000)  
(N.A.D. Khattak, Zahoor Ahmad, Arshad M. Mirza and **G. Murtaza**)
5. Chaotic behavior of ion-temperature-gradient driven drift-dissipative modes  
Physics of Plasmas, **7**, 4499 (2000)  
(Tariq Rafiq, Anisa Qamar, Arshad M. Mirza, and **G. Murtaza**)
6. Efficiency of plasma focus for argon K-series line radiation emission  
Plasma Sources Sci. Technol. **9**, 592 (2000).  
(M. Zakaullah, Khalid Alamgir, **G. Murtaza** and A. Waheed)
7. A Cost Effective X-Ray Detector for Plasma Focus Diagnostics  
Mod. Phys. Lett. **B14**, 563 (2000)  
(M. Zakaullah, Ijaz Akhtar, S. F. Mehmood, A. Waheed and **G. Murtaza**)
8. Wake-field excitation in a multicomponent dusty plasma  
Physica Scripta, **T89**, 191 (2001)  
(M. H. Nasim, Arshad M. Mirza, **G. Murtaza** and P. K. Shukla)
9. Electrostatic ion-temperature-gradient modes and anomalous transport in a collision-dominated plasma  
Physica Scripta, **63**, 43 (2001)  
(T. Farid, A. M. Mirza, P. K. Shukla, and **G. Murtaza**)
10. Correlation of plasma electron temperature with neutron emission in a low energy plasma focus  
IEEE Transactions on Plasma Science, **29**, 62 (2001)  
(M. Zakaullah, K. Alamgir, Ather Rasool, M. Shafiq, **G. Murtaza** and A. Waheed)
11. Low energy plasma focus as a tailored X-ray source  
J. Fusion Energy **19**, 143 (2000, ©2002)  
(M. Zakaullah, K. Alamgir, M. Shafiq, M. Sharif, A. Waheed and **G. Murtaza**)
12. High  $\beta$  relaxed states with internal conductor plasma configuration  
Physics of Plasmas **8**, 1559 (2001)  
(M. Iqbal, A. M. Mirza, **G. Murtaza** and Z. Yoshida)
13. Anisotropic Energy Loss of a Pair of Charged Projectiles in a Dusty Plasma  
Physica Scripta, **64**, 346 (2001)

(**G. Murtaza** and M. H. Nasim)

14. High Efficiency Neutron Detector for Low Neutron Flux Measurement  
J. Fusion Energy **19**, 91 (2000, ©2001)  
(A. Waheed, Aqil-ur-Rahman, M. Zakauallah and **G. Murtaza**)
15. Thermonuclear fusion in a multicascade liner staged pinch  
Laser and Particle Beams **19**, 657 (2001)  
(Zahoor Ahmed, Arshad M. Mirza, N. A. D. Khattak and **G. Murtaza**)
16. Improved temperature measurement in a plasma focus by means of a cobalt filter  
Plasma Sources Science & Tech. **10**, 295 (2001).  
(M. Zakauallah, K. Alamgir, M. Shafiq, S. M. Hassan, **G. Murtaza** and A. Waheed)
17. Elliptic Solitary Electron Drift Vortices in Semiconductor Piezoelectrics  
Physica Scripta, **65**, 181(2002)  
(H. A. Shah, M. Hameed and **G. Murtaza**)
18. Flow of An Elastico-Viscous Fluid Past An Infinit Wall with Time-Dependent Suction  
Acta Mechanica **153**, 133 (2002)  
(T. Hayat, Q. Abbas, S. Asghar, A. M. Siddiqui, T. Farid and **G. Murtaza**)
19. Some New trends in Plasma Physics  
Journal of Natural Sciences & Mathematics **41**, 219 (2001, ©2002)  
(**G. Murtaza**)
20. Plasma Focus as an X-ray source for tailoring of radiation in different energy windows  
Journal of Natural Sciences & Mathematics **41**, 235 (2001, ©2002)  
(M. Zakauallah, K. Alamgir, M. Shafiq, M. Sharif, A. Waheed and **G. Murtaza**)
21. Debye shielding distortion of dust grains in dusty plasmas  
Physics of Plasmas, **9**, 3629 (2002)  
(Faisal Yaqoob, Shahid Ali and **G. Murtaza**)
22. Fully nonlinear dust kinetic Alfvén waves  
Physics of Plasmas, **9**, 3794 (2002)  
(M. Ansar Mahmood, Arshad M. Mirza, P. H. Sakanaka and **G. Murtaza**)
23. Scope of plasma focus with argon as a soft X-ray source  
IEEE Transactions on Plasma Science **30**, 377 (2002)  
(M. Zakauallah, K. Alamgir, M. Shafiq, M. S. Hassan, **G. Murtaza** and A. Waheed)
24. A simple technique to record X-ray fluence anisotropy of a source,  
J. Fusion Energy **20**, 69 (2001, ©2002)  
(M. Shafiq, M. Sharif, Sartaj, M. Zakauallah, A. Waheed and **G. Murtaza**)
25. Soft X-Ray emission in the (1.0-1.5 KEV) window with Nitrogen filling in a low energy  
Plasma Focus  
Mod. Phys. Lett **16 B**, 309 (2002)  
(M. Shadiq, Sartaj, S. Hussain, M. Sharif, S. Ahmad, M. Zakauallah, A. Waheed,  
**G. Murtaza** and R. Ahmad)
26. Attractive Wake Field Formation due to array of Dipolar Projectiles in a Multi-  
component Dusty Plasma

- Physics of Plasmas, **10**, 941 (2003)  
(S. Ali, M. H. Nasim and **G. Murtaza**)
27. Characterization of argon plasma by use of optical emission spectroscopy and Langmuir prob measurements  
Int J. Mod Physics **B 17**, 2749 (2003)  
(A. Qayyum, M. Ikram, M. Zakauallah, A. Waheed, **G. Murtaza**, R. Ahmad, A. Majeed, N. A. D. Khattak, K. Mansoor and K. A. Chaudhry)
  28. Formation of quadrupolar vortices in ion-temperature-gradient modes  
Physics of Plasmas **10**,2819 (2003)  
(Anisa Qamar, Arshad M. Mirza, **G. Murtaza**, J. Vranješ and P. H. Sakanaka)
  29. Exact nonlinear dust kinetic Alfvén waves in a dust-ion plasma  
New Journal of Physics **5**, (2003)  
(Arshad M. Mirza, M. Ansar Mahmood and **G. Murtaza**)
  30. Effects of dust-charge fluctuations on the potential of an array of projectiles in a partially ionized dusty Plasma  
Physics of Plasmas **10**, 4207 (2003)  
(S. Ali, M.H. Nasim and **G. Murtaza**)
  31. Longitudinal oscillations and linear Landau damping in quark-gluon plasma  
Physical Review **E 68**,066404 (2003)  
(**G. Murtaza**, N. A. D. Khattak and H. A. Shah)
  32. Study of X-ray emission from a compact diode operated by a high capacitor discharge  
J. Fusion Energy **21**, 211 (2003)  
(M. Z. Khan, S. Ahmad, M. Zakauallah, A. Waheed, R. Ahmad and **G. Murtaza**)
  33. Study of lateral spread of ions emitted from 2.3 kJ plasma focus with hydrogen and nitrogen gases  
J. Fusion Energy **21**, 217 (2003)  
(R. Ahmad, M. Hassan, **G. Murtaza**, A. Waheed and M Zakauallah )
  34. Some electrostatic modes based on non-Maxwellian distribution functions  
Physics of Plasmas **11**, 2246(2004)  
(S. Zaheer, **G. Murtaza** and H. A. Shah)
  35. Parallel propagating electromagnetic modes with (r,q) Distribution Function  
Physics of Plasmas **11**, N 5(2004)  
(M. N. S. Qureshi, H. A. Shah, **G. Murtaza** and F. Mahmood)
  36. Collective Modes and Linear Landau Damping in a Quark-Gluon Plasma  
Physica Scripta. Vol. **T116**, 93 (2005)  
(**G. Murtaza**, N.A.D. Khattak and H.A. Shah)
  37. Correlation effects due to an axial propagation of Projectiles in dusty Plasma  
Physics of Plasmas **12**, 033502 (2005)  
(S. Ali, **G. Murtaza** and M.H. Nasim)
  38. Energy loss for the assemblies of charged Projectiles in a dusty Plasma  
Physics of Plasmas **12**, 072104 (2005)  
(S. Ali, **G. Murtaza** and M.H. Nasim)

39. Dust charge fluctuation with non- Maxwellian Distribution function  
Physica Scripta **73**, 178 (2006)  
(N. Rubab and **G. Murtaza**)
40. Generation of Vortex Rings by Nonstationary Laser Wake Field  
Physics of Plasmas **13**, 012307 (2006)  
(Nodar Tsintsadze, **G. Murtaza** and H. A. Shah)
41. A Novel aspect of dust in Plasma  
Physics of Plasmas **13**, 022103 (2006)  
(Nodar Tsintsadze, **G. Murtaza** and Z. Ehsan)
42. Co-deposition of titanium and iron nitrides on SS-321 by using plasma focus  
Radiation Effects and Defects in Solids **161**, 121 (2006)  
(R. Ahmad, M. Hassan, **G. Murtaza**, J.I. Akhter, A. Qayyum, A. Waheed and M. Zakauallah)
43. Study of obliquely propagating dust acoustic solitary waves in magnetized tropical mesospheric plasmas with effect of dust charge variations and rotation of the plasma  
Physics of Plasmas **13**, 062903 (2006)  
(Mushtaq, H.A. Shah, N. Rubab and **G. Murtaza**)
44. Parallel Proton Heating In Solar Wind Using Generalized (r,q) Distribution Function  
Solar Physics **236**,167 (2006)  
(Z. Kiran, H.A. Shah and **G. Murtaza**)
45. Surface modification of AlFe<sub>1.8</sub>Zn<sub>0.8</sub> alloy by using dense plasma focus  
Vacuum **81**, 291(2006)  
(M. Hassan, R. Ahmad, **G. Murtaza**, A. Qayyum, A. Waheed and M. Zakauallah)
46. Perpendicularly propagating electromagnetic modes in a strongly magnetized hot plasma with non-Maxwellian distribution function  
Physics of Plasmas **13**, 062109 (2006 )  
(S. Zaheer, **G. Murtaza** and H. A. Shah)
47. A specific properties of electromagnetic waves interacting with dust-laden plasma  
Physics of Plasmas **13**, 072103 (2006)  
(Nodar Tsintsadze, Z. Ehsan, H. A. Shah and **G. Murtaza**)
48. Electrostatic potentials and engery loss due to a projectile propagating through a Non-Mazwellian dusty plasma  
Physics of Plasmas, **13**, 082108 (2006)  
(F. Deebea, Zahoor Ahmad and **G. Murtaza**)
49. Debye length in non-Maxwellian plasmas  
Physica Scripta, **74**, 145 (2006)  
(N. Rubab and **G. Murtaza**)
50. Effect of non-Maxwellian particle trapping and dust grain charging on dust acoustic solitary waves  
Physics of Plasmas, **13**,11 (2006)  
(N. Rubab, **G. Murtaza** and A. Mushtaq)

51. Electromagnetic dust-lower-hybrid and dust-magnetosonic waves and their instabilities in a dusty magnetoplasma  
Physics of Plasmas, **13**,122102 (2006)  
(M. Salimullah, M.M. Rahman, I. Zeba, H. A. Shah, **G.Murtaza** and P.k. Shukla)
52. Effects of inhomogeneity on the Shukla-Nambu-Salimullah potential in a magnetized plasma  
Physics Letters A, (2006)  
(M. Salimullah, H. A. Shah, **G.Murtaza**, H. Nitta and M. Tessarotto)
53. Nitriding of titanium by using ion beam delivered by a plasma focus  
J. Phys. D: Appl. Phys **40**, 769 (2007)  
(M. Hassan, A. Qayyum, R. Ahmad, **G. Murtaza** and M. Zakauallah)
54. Weibel Instability with non-Maxwellian distribution functions  
Physics of Plasmas **14**, 022108 (2007)  
(S. Zaheer and **G. Murtaza**)
55. Kinetic Alfvén waves in a homogeneous dusty magnetoplasma with dusty charge fluctuation effects  
Physics of Plasmas **14**, 032105 (2007)  
(K. Zubia, N. Rubab, H.A. Shah, M. Salimullah and **G. Murtaza**)
56. Stability of a charged interface between a magneto-radiative dusty plasma and vacuum  
Physics of Plasmas **14**, 073703 (2007)  
(Nodar Tsintsadze, Rozina Chaudhary, H. A. Shah and **G. Murtaza**)
57. Weibel instability with Semirelativistic Maxwellian distribution function  
Physics of Plasmas **14**, 072106 (2007)  
(S. Zaheer and **G. Murtaza**)
58. Glow Discharge Plasma Nitriding of AISI 304 Stainless Steel  
Plasma Science and Technology **9**, No.4 August (2007)  
(A. Qayyum, M.A. Naveed, Shaista Zeb, **G. Murtaza**, M. Zakauallah)
59. Effect of Plasma Focus Discharge Currents and Repetition Rates on Evolution of Nanocrystalline Multiphase Titanium Carbide/a-C Thin Films  
J. Nepal Phys. Soc. **23**, 19 (2007)  
(M. Hassan, R.S. Rawat, P.Lee, S.M. Hassan, A. Qayyum , R. Ahmad, **G. Murtaza** and M. Zakauallah )
60. Possible colloid crystal formation in a magnetized and inhomogeneous semiconductor plasma  
Journal of Applied Physics **102**, 053301 (2007)  
(M. Salimullah, Z. Ehsan, K. Zubia, H. A. Shah and **G. Murtaza**)
61. Longitudinal Photons in a Relativistic Magneto-active Plasma  
Physics of Plasmas, **14**, 102113 (2007)  
(N.L. Tsintsadze, Ayesha Rehman, **G. Murtaza** and H.A. Shah)
62. Collective modes of ultrarelativistic magnetoactive electron plasma

- Physica Scripta **76**, 649 (2007)  
Gohar Abbas, **G. Murtaza** and H.A. Shah)
63. Wake Potential in a nonuniform self-gravitating dusty magnetoplasma in the presence of ion streaming  
Physics of Plasmas **14**, 104505 (2007)  
(M. Salimullah, Z. Ehsan, K. Zubia, H.A. Shah and **G. Murtaza**)
  64. Dust charge fluctuation instability in a dusty plasma with equilibrium density and magnetic field inhomogeneities  
Physics of Plasmas **14**, 114502 (2007)  
(M. Salimullah H. A. Shah and **G. Murtaza**)
  65. Wake potential in a self-gravitating dusty plasma  
Physics Letters A. **372**, 871 (2008)  
(M. Salimullah, Z. Ehsan, H.A. Shah and **G. Murtaza**)
  66. Langmuir probe characterization of nitrogen plasma for surface nitriding of AISI-4140 steel  
Journal of Material Processing Technology **199**, 363 (2008)  
(M.S. Shah, M. Saleem, R. Ahmad, M. Zakaullah, A. Qayyum and **G. Murtaza**)
  67. Dust acoustic shock wave in electronegative dusty plasma: Role of weak magnetic field  
Physics of Plasmas **15**, 023701 (2008)  
(Samiran Ghosh, Z. Ehsan and **G. Murtaza**)
  68. Synthesis of nanocrystalline multiphase titanium oxycarbide ( $TiC_xO_y$ ) thin films by UNU/ICTP and NX2 plasma focus devices  
Appl. Physics A **90**, 669 (2008)  
(M. Hassan, R.S. Rawat, P. Lee, S.M. Hassan, A. Qayyum, R. Ahmad, **G. Murtaza** and M. Zakaullah)
  69. Nitridation of zirconium using energetics ions from plasma focus device  
Thin Solid Films **516**, 8255 (2008)  
(I. A. Khan, M. Hassan, R. Ahmad A. Qayyum, **G. Murtaza**, M. Zakaullah and R.S. Rawat)
  70. Jeans instability in a magneto-radioactive dusty plasma  
J. Plasma Physics **74**, 1 (2008)  
(Nodar Tsintsadze, Rozina Chaudhary, H.A. Shah and **G. Murtaza**)
  71. Perpendicularly propagating electromagnetic modes in a strongly magnetized hot relativistic maxwellian plasma  
Physica Scripta **77**, 035503 (2008)  
(S.Zaheer and **G. Murtaza**)
  72. Compression enhancement by current stepping in a multicascade liner gas-puff Z-pinch plasma  
Physica Scripta **77**, 045501 (2008)  
(N. A. D Khattak, Zahoor Ahmad, M. Zakaullah and **G. Murtaza**)
  73. Plasma characterization for nitridation of aluminum alloy using 50 Hz ac discharge

Plasma Devices and Operations **V.16, 4** (2008 )  
(M. Shoaib Shah, R. Ahmad, M. Zakauallah and **G. Murtaza**)

74. Synthesis of Zirconium Oxynitride (ZrON) Nanocomposite Films on Zirconium substrate by Dense Plasma Focus Device  
International Journal of Modern Physics **B, 22**, 3941 (2008)  
(I.A.Khan, M.Hassan, R. Ahmad, **G.Murtaza**, M.Zakauallah, R.R.Rawat and P.Lee)
75. Dust-lower-hybrid waves in quantum plasmas  
Physics Letters A. **A 372**, 2291 (2008)  
(M. Salimullah, I. Zeba, Ch. Uzma, H.A. Shah and **G. Murtaza**)
76. Two Types of lower hybrid waves in dusty plasmas and cusp solitons,  
Phys. Plasmas **16** , 023702 (2009).  
(Z. Ehsan, N. L. Tsintsadze, **G. Murtaza** and H. A. Shah)
77. Jeans instability in a quantum dusty magnetoplasma  
Phys. Plasmas **16**, 014502 (2009)  
(M. Salimullah, M. Jamil, H. A. Shah, and **G. Murtaza**)
78. Non linear Landau damping of transverse electromagnetic waves  
in dusty plasmas  
Physics of Plasmas **16**, 1 (2009)  
(N. L. Tsintsadze, Rozina Chaudhary, H. A. Shah and **G. Murtaza**)
79. Dense plasma focus ion based titanium nitride coating on titanium  
Nuclear Instruments and Methods in Physics Research **B 267**, 1911 (2009)  
(M. Hassan, A. Qayyum, R. Ahmad, R.S. Rawat, P. Lee, S.M. Hassan, **G. Murtaza** and M. Zakauallah)
80. Modified Debye screening potential in a magnetized quantum plasma  
Physics Letters A **373** 2577 (2009)  
(M. Salimullah, A. Hussain , I. Sara, **G. Murtaza** and H.A. Shah)

#### **Conference Proceedings/Presentations**

81. Acoustic modes in dusty plasmas  
Proc. Regional Conference on Plasma Research in 21<sup>st</sup> Century, p.14, (7-12 May, 2000) Bangkok, Thailand Edited by B. Paosawatyanong  
(**G. Murtaza**, M. H. Nasim and Arshad M. Mirza)
82. Shielding of dust test charges in a multi-component dusty plasma  
Proc. Regional Conference on Plasma Research in 21<sup>st</sup> Century, p.20, (7-12 May, 2000) Bangkok, Thailand Edited by B. Paosawatyanong  
(**G. Murtaza**, M. H. Nasim and Arshad M. Mirza)
83. Variation of deuterium focus plasma electron temperature with pressure and its correlation with neutron emission  
Proc. Regional Conference on Plasma Research in 21<sup>st</sup> Century, p.65, (7-12 May, 2000) Bangkok, Thailand Edited by B. Paosawatyanong  
(M. Zakauallah, Khalid Alamgir, Ather Rasool, M. Shafiq, **G. Murtaza** and A. Waheed)
84. Characteristics of X-rays from argon plasma focus  
Proc. Regional Conference on Plasma Research in 21<sup>st</sup> Century, p.70, (7-12 May, 2000) Bangkok, Thailand Edited by B. Paosawatyanong

- (M. Zakauallah, Khalid Alamgir, Kanwal Naz, **G. Murtaza** and A Waheed)
85. Wake-field Excitations in a Multi-component Dusty Plasma  
Poster presented by M. H. Nasim at the International Topical Conference on Plasma Physics: Colloidal Plasma Science (3-7 July, 2000) at the ASICTP, Trieste, Italy.  
(M. H. Nasim, Arshad M. Mirza, **G. Murtaza** and P. K. Shukla).
  86. Energy loss of test charges in dusty plasma  
Presented by **G. Murtaza** at the Regional College on Plasma Physics held (January 29-February 3, 2001) at National Center for Physics Islamabad Pakistan  
(**G. Murtaza**, M. H. Nasim and Arshad M. Mirza)
  87. Staged Pinch as an Alternative Source of Thermonuclear Fusion  
Presented by A. M. Mirza at the Regional College on Plasma Physics, (29 January–3 February, 2001) at National Center for Physics Islamabad Pakistan.  
(Arshad M. Mirza, Z. Ahmed, N. A. D. Khattak and **G. Murtaza**).
  88. Shielding of a Slowly moving Test Particle in a Multicomponent Dusty Plasma  
Poster presented by M. Shafiq at the 5<sup>th</sup> European Workshop on Dusty and Colloidal Plasmas, (23-25 August, 2001) Potsdam, Germany.  
(M. Shafiq, M. H. Nasim, Arshad M. Mirza and **G. Murtaza**).
  89. Operation of Plasma Focus for tailoring Cu-K line radiation,  
Proc. National Symposium on Physics in Industry, p. 31 (28-30 June 2001)  
(M. Zakauallah, K. Alamgir, M. Shafiq, S. M. Hassan, M. Sharif, A. Waheed and **G. Murtaza**)
  90. Magnetohydrodynamics (MHD) Model for the staged pinch plasma to study fusion parameters  
Presented by Z. Ahmad at the 15th Symposium PLASMAFYSICA & STRALINGSTECHNOLOGIE, (March 2002), Lunteren Netherlands.  
(Zahoor Ahmad, N. A. D. Khattak, Arsha M. Mirza W. J. Goedheer and **G. Murtaza**)
  91. Quark Gluon Plasma  
Talk given by **G. Murtaza** at the 27th International Nathiagali Summer College on Physics and Contemporary Needs (2002)  
(**G. Murtaza** and Usman Saleem)
  92. Dusty Plasmas  
Talk given at the 27th International Nathiagali Summer College on Physics and Contemporary Needs (2002)  
(**G. Murtaza**)
  93. Formation of Counter-Rotating Vortices with Sheared Ion-Flows in the Earth's Auroral F-Region of the Plasma  
Proc. International Bhurban Conference on Applied Science & Technology Bhurban, Pakistan Vol. I (2002)  
(Arshad M. Mirza, P. K. Shukla, T. Farid and **G. Murtaza**)
  94. Quadrupolar vortex Formation due to Nonlinearly Interacting ITG Driven Modes  
Proc. 9<sup>th</sup> National Symposium on Frontiers in Physics, Lahore (2003).  
(Arshad M. Mirza, Anisa Qamar, M. Azeem and **G. Murtaza**)
  95. Non-Maxwellian Distribution Function in Space Plasma

- Proc. 9<sup>th</sup> National Symposium on Frontiers in Physics, Lahore (2003).  
(H. A. Shah, M. N. S. Qureshi and **G. Murtaza**)
96. Quark-gluon plasma-Visiting the Early Universe  
Proc. 9<sup>th</sup> National Symposium on Frontiers in Physics, Lahore (2003).  
(**G. Murtaza** and Usman Saleem)
97. Quadrupolar Vortices in ITG-Driven Modes of Tokamak Plasmas  
Proc. 2<sup>nd</sup> International Bhurban Conference on Applied Sciences  
and Technology (2003) Pakistan  
(Arshad M. Mirza, Anisa Qamar, **G. Murtaza**, J. Vranješ and P. H. Sakanaka)
98. Some Electrostatic Modes based on non-Maxwellian Distribution Functions  
(Sadia Z. and **G. Murtaza**)  
Poster presented at the "Autumn College on Plasma Physics Trieste Italy (5-30  
September 2005)"
99. Dust charge fluctuations with non- Maxwellian distribution functions  
(N. Rubab and **G. Murtaza**)  
Poster presented at the "Autumn College on Plasma Physics Trieste Italy (5-30  
September 2005)"
100. QGP – An Exotic Example of Plasma State  
Invited talk at the 12<sup>th</sup> Regional Conference on Mathematical Physics  
March 27 – April 1, 2006 at Islamabad.  
(**G. Murtaza**)
101. Color Collective Modes and Linear Landau Damping in a Quark-Gluon Plasma  
Poster presented at the 13th International Congress on Plasma Physics in Kiev,  
Ukraine May 22 – 26, 2006  
(**G. Murtaza**)
102. Quark Gluon Plasma  
Invited talk at the Workshop/Meeting On Fusion Research 16-18 June 2006  
In Bangkok (in conjunction with 21<sup>st</sup> Executive Council Meeting of AAAPT)  
(**G. Murtaza**)
103. Generation of Vortex rings by nonstationary laser wave field.  
Presented at 13th International Congress on Plasma Physics in Kiev, Ukrain  
May 22 - 26 (2006)  
(Nodar Tsintsadze, **G. Murtaza** and H. A. Shah)
104. A specific property of EM waves interacting with dust-laden plasma  
Proceedings 2nd International Symposium on Unconventional Plasmas,  
Eindhoven, Netherlands (2006)  
(Nodar Tsintasdze, Z. Ehsan, H. A. Shah and **G. Murtaza**)
105. Invited talk: "Adiabatic model for dust atoms and molecules ", 12th  
Regional Conference on Mathematical Physics, March 27-April 1, 2006, National Centre  
for Physics Islamabad, Pakistan.  
(Z. Ehsan, **G. Murtaza** and N. L. Tsintsadze)
106. A new representation of interaction of EMWs with dusty plasma", Workshop on Cheap  
Plasma Technology in Industry, Environment and Medicine, **10-15 November** (2007),

Al-Azhar University Center of Plasma Technology (AUCPT), Cairo, Egypt  
(Z. Ehsan, N. L. Tsintsadze, H.A. Shah and **G. Murtaza**).

107. Weibel Instability in Maxwellian and Semi- relativistic Maxwellian Magneto- Plasmas. ,  
11<sup>th</sup> National Symposium in Fronteris on Physics, GC University, Lahore 29-31,  
January 2009.  
(**G. Murtaza** and Sadia Zaheer)
108. A new property of electromagnetic wave interacting with dust-laden plasma  
IEEE 35th International Conference on Plasma Science, 2008 (ICOPS 2008)  
10.1109/PLASMA.2008.4591022  
(Z. Ehsan, N. L. Tsintsadze, H. A. Shah and **G. Murtaza**.)
109. High Frequency Electromagnetic Waves across the ambient magnetic field in plasmas  
with different particle velocity distributions  
(Revisiting X-mode, O-mode and Weibel Instability in different plasma scenarios)  
First NCP Scientific Spring 2009 (6-9 April 2009)  
(**G. Murtaza** et al)