

List of Journal Publications (Indexed by ISI-JCR)

1. M. Sharif and **M.Z. Bhatti**: *Structure Scalars for Charged Cylindrically Symmetric Relativistic Fluids*, Gen. Relativ. Gravit. **44**(2012)2811 (**Springer**).
2. M. Sharif and **M.Z. Bhatti**: *Structure Scalars in Charged Plane Symmetry*, Mod. Phys. Lett. A **27**(2012)1250141 (**World Scientific**).
3. M. Sharif and **M.Z. Bhatti**: *Gravitational Binding Energy in Charged Cylindrical Symmetry*, Can. J. Phys. **90**(2012)1233 (**NRS Research Press**).
4. M. Sharif and **M.Z. Bhatti**: *Effects of Electromagnetic Field on Shearfree Spherical Collapse*, Astrophys. Space. Sci. **347**(2013)337 (**Springer**).
5. M. Sharif and **M.Z. Bhatti**: *Stability of the Expansion-free Charged Cylinder*, J. Cosmol. Astropart. Phys. **10**(2013)056 (**IOP, UK**).
6. M. Sharif and **M.Z. Bhatti**: *Stability Analysis of Restricted Non-Static Axial-Symmetry*, J. Cosmol. Astropart. Phys. **11**(2013)014 (**IOP, UK**).
7. M. Sharif and **M.Z. Bhatti**: *Charged Static Axial Symmetric Solutions and Scalar Structures*, Astrophys. Space. Sci. **349**(2014)995 (**Springer**).
8. M. Sharif and **M.Z. Bhatti**: *Stability of the Charged Radiating Cylinder*, Phys. Lett. A **378**(2014)469 (**Elsevier**).
9. M. Sharif and **M.Z. Bhatti**: *On the Stability of a Class of Radiating Viscous Self-Gravitating Stars with Axial Symmetry*, Astropart. Phys. **56**(2014)35 (**Elsevier**).
10. M. Sharif and **M.Z. Bhatti**: *Shearfree and Cavity Models with Plane Symmetry*, Astrophys. Space Sci. **352**(2014)883 (**Springer**).
11. M. Sharif and **M.Z. Bhatti**: *Radiating Collapsing Relativistic Models*, Phys. Scr. **89**(2014)084004 (**IOP, UK**).
12. M. Sharif and **M.Z. Bhatti**: *Effects of Some Physical Factors on the Inhomogeneity in Planar Symmetry*, Mod. Phys. Lett. A **29**(2014)1450094 (**World Scientific**).
13. M. Sharif and **M.Z. Bhatti**: *Electromagnetic Effects on the Inhomogeneity of Planar Symmetry*, Mod. Phys. Lett. A **29**(2014) 1450129 (**World Scientific**).
14. M. Sharif and **M.Z. Bhatti**: *Effects of Some Physical Factors on the Stability of Collapsing Stars*, Int. J. Mod. Phys. D **23**(2014)1450085 (**World Scientific**).
15. M. Sharif and **M.Z. Bhatti**: *Dynamics and Stability of Charged Spherical Star with Tilted and Non-Tilted Congruences*, Mod. Phys. Lett. A **29**(2014)1450165 (**World Scientific**).
16. M. Sharif and **M.Z. Bhatti**: *Stability Analysis of Expansion-free Charged Planar Geometry*, Astrophys. Space Sci. **355**(2015)289 (**Springer**).

17. M. Sharif and **M.Z. Bhatti**: *Structure Scalars and Super-Poynting Vector of Tilted Szekeres Geometry*, Int. J. Mod. Phys. D **24**(2015)1550014 (**World Scientific**).
18. M. Sharif and **M.Z. Bhatti**: *Dynamics of Charged Planar Geometry in Tilted and Non-Tilted Frames*, J. Exp. Theor. Phys. **120**(2015)813 (**Springer**).
19. M. Sharif and **M.Z. Bhatti**: *Role of Bulk Viscosity and Electromagnetic Field on the Stability of Collapsing Cylinder*, Int. J. Theor. Phys. **54**(2015)2921 (**Springer**).
20. M. Sharif and **M.Z. Bhatti**: *Stability Analysis of Axial Reflection Symmetric Spacetime*, Mon. Not. R. Astron. Soc. **455**(2016)1015 (**Oxford University Press**).
21. Z. Yousaf and **M.Z. Bhatti**: *Electromagnetic Field and Cylindrical Compact Objects in Modified Gravity*, Mon. Not. R. Astron. Soc. **458**(2016)1785 (**Oxford University Press**).
22. Z. Yousaf, K. Bamba and **M.Z. Bhatti**: *Influence of Modification of Gravity on the Dynamics of Radiating Spherical Fluids*, Phys. Rev. D **93**(2016)064059 (**American Physical Society**).
23. **M.Z. Bhatti** and Z. Yousaf: *Influence of Electric Charge and Modified Gravity on Density Irregularities*, Eur. Phys. J. C **76**(2016)219 (**Springer**).
24. Z. Yousaf and **M.Z. Bhatti**: *Cavity Evolution and Instability Constraints of Relativistic Interiors*, Eur. Phys. J. C **76**(2016)267 (**Springer**).
25. M. Sharif and **M.Z. Bhatti**: *Binding Energy in Self-gravitating Charged Plane Symmetric Systems*, Chin. J. Phys. **54**(2016)451 (**Elsevier**).
26. Z. Yousaf, K. Bamba and **M.Z. Bhatti**: *Causes of Irregular Energy Density in $f(R,T)$ Gravity*, Phys. Rev. D **93**(2016)124048 (**American Physical Society**).
27. **M.Z. Bhatti**, *Shear-Free Stellar Solutions in Λ -Dominated Era*, Eur. Phys. J. Plus **131**(2016)428 (**Springer**).
28. **M.Z. Bhatti** and Z. Yousaf: *Dynamical Variables and Evolution of the Universe*, Int. J. Mod. Phys. D **26**(2017)1750029 (**World Scientific**).
29. **M.Z. Bhatti** and Z. Yousaf: *Gravitational Collapse and Dark Universe with LTB Geometry*, Int. J. Mod. Phys. D **26**(2017)1750045 (**World Scientific**).
30. Z. Yousaf, **M.Z. Bhatti** and Ume Farwa: *Stability of Compact Stars in $\alpha R^2 + \beta(R_{\nu\delta} T^{\nu\delta})$ Gravity*, Mon. Not. R. Astron. Soc. **464**(2017)4509 (**Oxford University Press**).
31. Z. Yousaf, K. Bamba and **M.Z. Bhatti**: *Role of Tilted Congruence and $f(R)$ Gravity on Regular Compact Objects*, Phys. Rev. D **95**(2017)024024 (**American Physical Society**).
32. **M.Z. Bhatti**, Z. Yousaf and Sonia Hanif: *Stability of Anisotropic Compact Objects in $f(T)$ Gravity*, Mod. Phys. Lett. A **32**(2017)1750042 (**World Scientific**).
33. Z. Yousaf, **M.Z. Bhatti** and Aamna Rafaqat: *LTB Geometry with Tilted and Non-Tilted Congruences in $f(R,T)$ Gravity*, Int. J. Mod. Phys. D **26**(2017)1750099 (**World Scientific**).
34. Z. Yousaf, **M.Z. Bhatti** and Aamna Rafaqat: *Electromagnetic Effects on the Evolution of LTB Geometry in Modified Gravity*, Astrophys. Space Sci. **362**(2017)68 (**Springer**).
35. **M.Z. Bhatti**, Z. Yousaf and Sonia Hanif: *Role of $f(T)$ Gravity on the Evolution of Collapsing*

- Stellar Model*, Phys. Dark Universe **16**(2017)34 (**Elsevier**).
36. **M.Z. Bhatti**, Z. Yousaf and Sonia Hanif: *Gravitational Collapse in Generalized Teleparallel Gravity*, Eur. Phys. J. Plus **132**(2017)230 (**Springer**).
 37. Z. Yousaf, M. Ilyas and **M.Z. Bhatti**: *Static Spherical Wormhole Models in $f(R,T)$ Gravity*, Eur. Phys. J. Plus **132**(2017)268 (**Springer**).
 38. **M.Z. Bhatti**, A. Aslam and S. Ashraf: *Construction of Thin-Shell Wormholes from Metric $f(R)$ Gravity*, Mod. Phys. Lett. A **32**(2017)1750111 (**World Scientific**).
 39. Z. Yousaf, **M.Z. Bhatti** and Ume Farwa: *Role of $f(R,T,R_{\nu\delta} T^{\nu\delta})$ Model on the Stability of Cylindrical Stellar Model*, Eur. Phys. J. C **77**(2017)359 (**Springer**).
 40. Z. Yousaf, **M.Z. Bhatti** and Ume Farwa: *Stability Analysis of Stellar Radiating Filaments*, Class. Quantum Grav. **34**(2017)145002 (**IOP, UK**).
 41. Z. Yousaf, **M.Z. Bhatti** and Aamna Razaqat: *Evolution of Inhomogeneous LTB Geometry with Tilted Congruence and Modified Gravity*, Can. J. Phys. **95**(2017)1246 (**NRS Research Press**).
 42. **M.Z. Bhatti**, Z. Yousaf and Sara Ashraf: *Charged Black String Thin-Shell Wormholes in Modified Gravity*, Ann. Phys. **383**(2017)439 (**Elsevier**).
 43. K. Bamba, M. Ilyas, **M.Z. Bhatti** and Z. Yousaf: *Energy Conditions in Modified $f(G)$ Gravity*, Gen. Relativ. Gravit. **49**(2017)112 (**Springer**).
 44. Z. Yousaf, M. Ilyas and **M.Z. Bhatti**: *Influence of Modification of Gravity on Spherical Wormhole Models*, Mod. Phys. Lett. A **32**(2017)175016 (**World Scientific**).
 45. **M.Z. Bhatti**, Z. Yousaf and M. Ilyas: *Evolution of Compact Stars and Dark Dynamical Variables*, Eur. Phys. J. C. **77**(2017)690 (**Springer**).
 46. Z. Yousaf, M. Sharif, M. Ilyas and **M.Z. Bhatti**: *Influence of $f(R)$ Models on the Existence of Anisotropic Self-Gravitating Systems*, Eur. Phys. J. C. **77**(2017)691 (**Springer**).
 47. **M.Z. Bhatti** and Z. Yousaf: *Stability of Anisotropic Stellar Filaments*, Ann. Phys. **387**(2017)253 (**Elsevier**).
 48. M. Ilyas, Z. Yousaf, **M.Z. Bhatti** and B. Masud: *Existence of Relativistic Structures in $f(R,T)$ Gravity*, Astrophys. Space Sci. **362**(2017)237 (**Springer**).
 49. **M.Z. Bhatti**, M. Sharif, Z. Yousaf and M. Ilyas: *Role of $f(G,T)$ Gravity on the Evolution of Relativistic Stars*, Int. J. Mod. Phys. D **27**(2018)1850044 (**World Scientific**).
 50. Z. Yousaf, **M.Z. Bhatti** and M. Ilyas: *Existence of Compact Structures in $f(R,T)$ Gravity*, Eur. Phys. J. C **78**(2018)307 (**Springer**).
 51. Z. Yousaf, M. Sharif, M. Ilyas and **M.Z. Bhatti**: *Energy Conditions in Higher Derivative $f(R,\square R,T)$ Gravity*, Int. J. Geom. Meth. Mod. Phys. **15**(2018)1850146 (**World Scientific**).
 52. Z. Yousaf and **M.Z. Bhatti**: *Some Anisotropic Planar Stellar Models*, Int. J. Geom. Meth. Mod. Phys. **15**(2018)1850160 (**World Scientific**).
 53. Z. Yousaf, K. Bamba, **M.Z. Bhatti** and Ume Farwa: *Dynamical Instability of Spherical*

Anisotropic Sources in $f(R, T, R_{\gamma\delta} T^{\gamma\delta})$ Gravity, Eur. Phys. J. A **54**(2018)122 (**Springer**).

54. **M.Z. Bhatti**: *Stability of Celestial Objects and Adiabatic Index*, Eur. Phys. J. Plus, accepted for publications (**Springer**).

Conference Proceedings

1. M. Sharif and **M.Z. Bhatti**: *Some Inhomogeneity Factors in Self-gravitating Systems*, Proc. Int. Conf. Relativ. Astrophys. (2015)48 (**Punjab University Press**).
2. **M.Z. Bhatti**: *Role of Some Physical Factors on the Stability of Collapsing Systems*, Math. Phys. (2018)96 (**Proceedings of the 14th Regional Conference; World Scientific**).