List of Journal Publications (Indexed by ISI-JCR)

2022


**M.Z. Bhatti**, **Z. Yousaf** and S. Khan: Quasi-homologous Evolution of Relativistic Charged Objects within $f(G,T)$ Gravity,
F. Maqsood, **Z. Yousaf**, M. Z. Bhatti: *Electromagnetic Field and Spherically Symmetric Dissipative Fluid Models* 
*Pramana, XXX*, YYY (2022). accepted for publications.

I. Ahmad, **Z. Yousaf** and M. O. Ahmad, *Structure Scalars and Dissipative Fluids in Modified theory*, 


**Z. Yousaf**, M.Z. Bhatti and H. Asad: *Electromagnetic Effects on Cylindrical Grava-stars-Like Strings in $f (R,T, R_{\mu\nu}T^{\mu\nu})$ Gravity*, 

**Z. Yousaf**, M. Z. Bhatti and MMM Nasir: *Role of f(G) Gravity in the Study of Non-static Complex Systems*, 


M.Z. Bhatti, **Z. Yousaf** and A. Rehman: *Analysis of Charged Gravastar in $f(R,G)$ Gravity*, 


and Structure Scalars in \( f(R,T) \) Gravity, 

2021 M.Z. Bhatti, Z. Yousaf, S. Khan: Role of Quasi-Homologous Condition on the Study of Complex Systems in \( f(G,T) \) Gravity

2021 M. Z. Bhatti, Z. Yousaf and Z. Tariq, Influence of Electromagnetic Field on Hyperbolically Symmetric Source, 


2021 Z. Yousaf, M.Z. Bhatti and A. Rehman: Electrically Charged String-like Axially Symmetric Object Composition in \( f(R,G) \) Gravity, 

2021 M.Z. Bhatti, M. Y. Khlopov, Z. Yousaf, S. Khan: Electromagnetic Field and Complexity of Relativistic Fluids in \( f(G) \) Gravity, 

2021 M.Z. Bhatti, Z. Yousaf, S. Khan: Influence of \( f(G) \) Gravity on the Complexity of Relativistic Self-Gravitating Fluids 

2021 M. Z. Bhatti, Z. Yousaf and Z. Tariq: Analysis of Structure Scalars in \( f(R) \) Gravity with an Electric Charge, 

2021 M. Z. Bhatti, Z. Yousaf, T. Ashraf: Gravastars in Modified Gauss-Bonnet Gravity, 

2021 M. Z. Bhatti, and Z. Yousaf: Dynamical Instability of Charged Self-Gravitating Stars in Modified Gravity, 

2021 Z. Yousaf, W. Javed, and I. Nawazish, Inflationary Anisotropic Phases with Bianchi-I Cosmic Model, 

2021 Z. Yousaf and M. Z. Bhatti: Charged Gravastars in \( f(R,T, R_{\mu \nu}T^{\mu \nu}) \) Gravity, 

2021 Z. Yousaf, K. Bamba, and M. Z. Bhatti: Formation of Cylindrical Gravastars in Modified Gravity,
2021 M. Z. Bhatti, Z. Yousaf and Z. Tariq, Role of Structure Scalars on the evolution of Compact Objects in Palatini $f(R)$ Gravity, 


2021 Z. Yousaf, Stable Charged Radiating Systems Associated with Tilted Observers, 


*European Physical Journal C, 81*, 16 (2021).

gravitating Structures

2020 M.Z. Bhatti, Z. Yousaf and A. Khadim: Dynamical Analysis of Self-gravitating Stars in Modified Gauss-Bonnet Gravity,

2020 Z. Yousaf, M.Z. Bhatti, T. Naseer and I. Ahmad: The Measure of Complexity in Charged Celestial Bodies in $f(R,T, R_{\mu\nu}T^{\mu\nu})$ Gravity,


New Astronomy, 80, 101397 (2020).

2020 Z. Yousaf, M.Z. Bhatti and T. Naseer: New Definition of Complexity Factor in $f(R,T, R_{\mu\nu}T^{\mu\nu})$ Gravity,

2020 Z. Yousaf, M.Z. Bhatti and T. Naseer: Study of Static Charged Spherical Stellar Structure in $f(R,T, R_{\mu\nu}T^{\mu\nu})$ Gravity,

2020 Z. Yousaf, M.Z. Bhatti and H. Asad: Gravastars in $f(R,T, R_{\mu\nu}T^{\mu\nu})$ Gravity,

2020 Z. Yousaf: Construction of Charged Cylindrical Gravastar-like Structures


Canadian Journal of Physics, 98, 474 (2020).
2020 M. Z. Bhatti, Z. Yousaf and M. Nawaz: *Spherical Collapse with Heat Dissipation in \( f(R,T,R_{\mu\nu}T^{\mu\nu}) \) Gravity*,


2019 **Z. Yousaf**: *Hydrodynamic Properties of Dissipative Fluids Associated with Tilted Observers*,


2019 **Z. Yousaf**, M. Z. Bhatti and M. F. Malik: *Non-reversible Evolution of Tilted Szekeres Spacetimes with\( f(R) \) Gravity*


2019 **Z. Yousaf**: *On the Role of\( f(G,T) \) terms in Structure Scalars*,

2019 M. Z. Bhatti, Z. Yousaf and A. Yousaf: *Energy Content of a Collapsing Sphere with\( f(R) \) Gravity*,
**International Journal of Geometric Methods in Modern Physics, 16, 1950041 (2019).**


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**2018**


2018 **Z. Yousaf**, K. Bamba, M. Z. Bhatti and U. Farwa: *Dynamical Instability of Spherical Anisotropic Sources in \( f(R, T, R^{\mu\nu}T^{\mu\nu}) \) Gravity*,


2014
2014 M. Sharif and Z. Yousaf: Dynamical Analysis of Radiating Spherical Collapse in Palatini $f \left( R \right)$ Gravity, 
Astrophysics and Space Science, **354**, 481 (2014).

2014 M. Sharif and Z. Yousaf: Dynamical Analysis of Self-Gravitating Stars in $f \left( R, T \right)$ Gravity, 

2014 M. Sharif and Z. Yousaf: Energy Density Inhomogeneities in Charged Radiating Stars with Generalized CDTT Model, 

2014 M. Sharif and Z. Yousaf: Instability of Dissipative Restricted Non-Static Axial Collapse with Shear Viscosity in $f \left( R \right)$ Gravity, 
Journal of Cosmology and Astroparticle Physics, **06**, 019 (2014).

2014 M. Sharif and Z. Yousaf: Stability of a Class of Non-Static Axial Self-Gravitating Systems in $f \left( R \right)$ Gravity, 
Astrophysics and Space Science, **352**, 943 (2014).

2014 M. Sharif and Z. Yousaf: Stability Analysis of Cylindrically Symmetric Self-Gravitating Systems in $R + \alpha R^2$ Gravity, 

2014 M. Sharif and Z. Yousaf: Energy Density Inhomogeneities with Polynomial $f \left( R \right)$ Cosmology, 

2014 M. Sharif and Z. Yousaf: Electromagnetic Field and Dynamical Instability Of Collapse with CDTT Model, 

2014 M. Sharif and Z. Yousaf: Cylindrical Thin-shell Wormholes in $f \left( R \right)$ Gravity, 
Astrophysics and Space Science, **351**, 351 (2014).

2013 M. Sharif and Z. Yousaf: Effects of CDTT Model on the Spherical Collapse in Palatini $f \left( R \right)$ Gravity, 

2013 M. Sharif and Z. Yousaf: Stability of the Charged Spherical Dissipative Collapse in $f \left( R \right)$ Gravity, 

2013 M. Sharif and Z. Yousaf: Dynamical Instability of Charged Expansion-free Spherical Collapse in $f \left( R \right)$ Gravity, 
2013 M. Sharif and Z. Yousaif: Electromagnetic Field and Dynamical Instability of Cylindrical Collapse in $f(R)$ Gravity,

2012

2012 M. Sharif and Z. Yousaif: Evolution of Expansion-free Self-Gravitating Fluids and Plane Symmetry,

2012 M. Sharif and Z. Yousaif: Expansion-free Cylindrically Symmetric Models,

2012 M. Sharif and Z. Yousaif: Shear-free Spherically Symmetric Fluid Models,