

**LIST OF PUBLICATIONS**  
**MUHAMMAD SHARIF (TI)**  
**RESEARCH & PUBLICATIONS**

**M.Phil. Dissertation: *Transmission of Elastic Wave through a Random Layer***  
 (Quaid-i-Azam University 1987).

**Ph.D. Thesis: *Forces in Non-Static Spacetimes*** (Quaid-i-Azam University 1991).

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**1989**

1. *Filtration of SH-wave through a Trapped Random Layer*: F.D. Zaman, S. Asghar and **M. Sharif**, *Bullettino di Geofisica Teorica ed Applicata*, XXXI.N.122 (1989)91-96 (**Italy**).

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2. *Transmission of Obliquely Incident wave through a Random Layer*: F.D. Zaman, S. Asghar and **M. Sharif**, *J. Nigerian Mathematical Society* **11**(1992)21-28 (**Nigeria**).
3. *The Relativistic Generalisation of the Gravitational Force for Arbitrary Spacetimes*: A. Qadir and **M. Sharif**, *Nuovo Cimento B* **107**(1992)1071-1083 (**Italy**).

4. *General Formula for the Momentum Imparted to Test Particles in Arbitrary Spacetimes*: A. Qadir and **M. Sharif**, *Phys. Lett. A* **167**(1992)331-334 (**Springer**).

**1996**

5. *Comments on Torsion, Massive Electrodynamics and Gravitation induced by Scalar Fields*: **M. Sharif**, *Astrophys. Space Sci.* **238**(1996)309-310 (**Springer**).

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6. *Spin Angular Momentum Imparted by Gravitational Waves*: **M. Sharif**, *Astrophys. Space Sci.* **253**(1997)195-198 (**Springer**).

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7. *Energy in Gravitational Waves*: **M. Sharif**, *J. Natural Sciences and Mathematics* **39**(1999)7-15 (**Pakistan**).
8. *Momentum and Angular Momentum in the Expanding Universe*: **M. Sharif**, *Astrophys. Space Sci.* **262**(1999)297-304 (**Springer**).

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11. *Cylindrically Symmetric, Static, Perfect Fluid Solutions of Einstein's Field Equations:* **M. Sharif**, *J. Korean Physical Society* **37**(2000)624-625 (**S. Korea**).

**2001**

12. *Force and Momentum in an Evolving Axisymmetric Universe Model:* **M. Sharif**, *Chinese J. Physics* **39**(2001)137-140 (**China**).
13. *Effects of Force and Energy in an Evolving Universe with a Gravitational Source:* **M. Sharif**, *Chinese J. Physics* **39**(2001)236-242 (**China**).
14. *Matter Collineations of some Well-Known Spacetimes:* **M. Sharif**, *Nuovo Cimento B* **116**(2001)673-688 (**Italy**).
15. *Rotating Frames in SRT: The Sagnac Effect and Related Issues:* W.A. Rodrigues Jr. and **M. Sharif**, *Foundations of Physics* **31**(2001)1767-1783 (**USA**).
16. *Equivalence Principle and the Principle of Local Lorentz Invariance:* W.A. Rodrigues Jr. and **M. Sharif**, *Foundations of Physics* **31**(2001)1785-1806 (**USA**).
17. *Matter Collineations of Some Static Spherically Symmetric Spacetimes:* **M. Sharif**, *Astrophys. Space Sci.* **278**(2001)447-455 (**Springer**).
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19. *Energy and Momentum of a Class of Rotating Gravitational Waves:* **M. Sharif**, *Int. J. Mod. Phys. A* **17**(2002)1175-1182 (**World Scientific**).
20. *Corrigenda: Equivalence Principle and the Principle of Local Lorentz Invariance* W.A. Rodrigues Jr. and **M. Sharif**, *Foundations of Physics* **32**(2002)811-812 (**USA**).

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26. *Matter Collineations of Spacetime Homogeneous Gödel-Type Metrics*: U. Camci and **M. Sharif**, Class. Quantum Grav. **20**(2003)2169-2179 (**IOP, UK**).
27. *Large Momentum Imparted by Gravitational Waves*: **M. Sharif**, Nuovo Cimento B **118** (2003)595-603 (**Italy**).
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40. *Energy-Momentum Distribution in Weyl Metrics: M. Sharif and T. Fatima*, Nuovo Cimento B **120** (2005)533-540 (**Italy**).
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  50. *A Classification of Plane Symmetric Kinematic Self-Similar Solutions*: **M. Sharif** and S. Aziz, J. Korean Physical Society **49**(2006)21-30 (**S. Korea**).
  51. *Teleparallel Versions of Friedmann and Lewis-Papapetrou Spacetimes*: **M. Sharif** and M.J. Amir, Gen. Relativ. Gravit. **38**(2006)1735-1745 (**Springer**).
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4. *Role of  $f(G, T)$  Gravity on the Evolution of Relativistic Stars*: M. Zaeem-ul-Haq Bhatti, **M. Sharif**, Z. Yousaf and M. Ilyas, accepted for publication in Int. J. Mod. Phys. D (**World Scientific**).
5. *Wormhole Geometry and Noether Symmetry in  $f(R)$  Gravity*: **M. Sharif** and Iqra Nawazish, accepted for publication in Ann. Phys. (**Elsevier**).
6. *Study of Conformally Flat Polytropes with Tilted Congruence*: **M. Sharif** and Sobia Sadiq, accepted for publication in Int. J. Mod. Phys. D (**World Scientific**).
7. *Study of Stellar Structures in  $f(R, T)$  Gravity*: **M. Sharif** and Aisha Siddiqa, accepted for publication in Int. J. Mod. Phys. D (**World Scientific**).
8. *Study of Charged Spherical Stellar Model in  $f(R)$  Gravity*: **M. Sharif** and Naila Farooq, accepted for publication in Eur. Phys. J. Plus (**Springer**).
9. *Viscosity Effects on Anisotropic Universe in Curvature-Matter Coupling Gravity*: **M. Sharif** and Aisha Siddiqa, accepted for publication in Commun. Theor. Phys. (**China**).
10. *Exact Anisotropic Polyotropic Cylindrical Solutions*: **M. Sharif** and Sobia Sadiq, accepted for publication Astrophys. Space Sci. (**Springer**).
11. *Thermodynamical Stability of FRW Models with Quintessence*: **M. Sharif** and Sara Ashraf, accepted for publication in M. Phys. Lett. A (**World Scientific**).

**PREPRINTS:**

1. *Chaotic Inflationary Models in  $f(R)$  Gravity*: **M. Sharif** and Iqra Nawazish, submitted for publication.
2. *Phase Space Analysis for Anisotropic Universe with Nonlinear Bulk Viscosity*: **M. Sharif** and Saadia Mumtaz, submitted for publication.
3. *Scalar Field Cosmology in  $f(R, T)$  Gravity via Noether Symmetry*: **M. Sharif** and Iqra Nawazish, submitted for publication.



4. *Study of Static Wormhole Solutions in  $F(T, T_{\mathcal{G}})$  Gravity:* **M. Sharif** and Kanwal Nazir, submitted for publication.
5. *Galactic Halo Traversable Wormhole Solutions in  $f(\mathcal{G}, T)$  Gravity:* **M. Sharif** and Ayesha Ikram, submitted for publication.
6. *Neutral Particle Motion around a Schwarzschild Black Hole in Modified Gravity:* **M. Sharif** and Misbah Shahzadi, submitted for publication.
7. *Study of Homogeneous and Isotropic Universe in  $f(R, T^\psi)$  Gravity:* **M. Sharif** and Aisha Siddiqa, submitted for publication.
8. *Inhomogeneous Perturbations and Stability in  $f(\mathcal{G}, T)$  Gravity:* **M. Sharif** and Ayesha Ikram, submitted for publication.
9. *Study of Cylindrical Polytropes with Cosmological Constant:* **M. Sharif** and Sobia Sadiq, submitted for publication.
10. *Viable Wormhole Solutions and Noether Symmetry in  $f(R, T)$  Gravity:* **M. Sharif** and Iqra Nawazish, submitted for publication.
11. *Stability of Universe Model Coupled with Phantom and Tachyon Fields:* **M. Sharif** and Saadia Mumtaz, submitted for publication.
12. *On the Stability of Einstein Universe in  $f(R, T, R_{\mu\nu}T^{\mu\nu})$  Gravity:* **M. Sharif** and Arfa Waseem, submitted for publication.
13. *Thermodynamics of Modified Cosmic Chaplygin Gas:* **M. Sharif** and Sara Ashraf, submitted for publication.
14. *Effects of Tilted Congruence on Spherical Compact Stars:* **M. Sharif** and Sobia Sadiq, submitted for publication.
15. *Stability of Einstein Universe against Inhomogeneous Perturbations in  $f(R, T, R_{\mu\nu}T^{\mu\nu})$  Gravity:* **M. Sharif** and Arfa Waseem, submitted for publication.
16. *Models of Charged Self-Gravitating Source in  $f(R, T)$  Theory:* **M. Sharif** and Aisha Siddiqa, submitted for publication.
17. *Models of Charged Self-Gravitating Source in  $f(R, T)$  Theory:* **M. Sharif** and Arfa Waseem, submitted for publication.
18. *Interacting and Non-Interacting Dark Energy Models in  $f(R)$  Gravity:* **M. Sharif** and Iqra Nawazish, submitted for publication.
19. *Cosmic Evolution of Holographic Dark Energy in  $f(\mathcal{G}, T)$  Gravity:* **M. Sharif** and Ayesha Ikram, submitted for publication.
20. *A Study of Pilgrim Dark Energy Model in Brans-Dicke Theory:* **M. Sharif** and S.A.A Shah, submitted for publication.
21. *Higher-Dimensional Charged LTB Collapse in  $f(R)$  Gravity:* **M. Sharif** and Atiq Anwar, submitted for publication.
22. *Stellar Evolution of Compact Stars in Matter-Curvature Coupling Gravity:* **M. Sharif** and Arfa Waseem, submitted for publication.
23. *Cracking of Tilted Anisotropic Dissipative Polytropes:* **M. Sharif** and Sobia Sadiq, submitted for publication.
24. *Rotating Thin-Shell Wormholes with Scalar Field:* **M. Sharif** and Saadia Mumtaz, submitted for publication.
25. *Equilibrium Configurations of Anisotropic Polytropes in  $f(R, T)$  Gravity:* **M. Sharif** and Aisha Siddiqa, submitted for publication.
26. *Charged Cylindrical Collapse in Modified Gauss-Bonnet Gravity:* **M. Sharif** and Saba Naz, submitted for publication.

**PROCEEDINGS PUBLICATIONS:**

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2. *Extension of the pseudo-Newtonian Formalism to Non-Static Spacetimes: A. Qadir and M. Sharif, Proceedings of the Mini Workshop on Relativity, Astrophysics and Cosmology, Islamabad-Pakistan, Oct. 15-17, 1991, eds. A. Qadir and M. Sharif (The Wall Street Printers, 1992)01-12.*
3. *Some Examples of Matter Symmetries: M. Sharif, Proceedings of the World Conference on 21<sup>st</sup> Century Mathematics 2004, Sch. Math. Sci. GCU Lahore-Pakistan, March, 18-20, 2004, eds. A.D.R. Choudary and Faqir M. Bhatti (p 203-208).*
4. *Energy-Momentum Distribution in Gödel Metric: M. Sharif and T. Fatima, Proceedings of the World Conference on 21<sup>st</sup> Century Mathematics 2004, Sch. Math. Sci. GCU Lahore-Pakistan, March, 18-20, 2004, eds. A.D.R. Choudary and Faqir M. Bhatti (p 209-214).*
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9. *Matter Symmetries of Non-Static Plane Symmetric Spacetimes: M. Sharif and T. Ismaeel, Proceedings of the 12th Regional Conference on Mathematical Physics, Islamabad-Pakistan, March, 27-April 1, 2006 eds. M.J. Aslam, F. Hussain, A. Qadir, Riazuddin and H. Saleem (World Scientific, 2007)407-415.*
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15. *Some Inhomogeneity Factors in Self-gravitating Systems* by **M. Sharif** and M. Zaeem Ul Haq Bhatti, *Proceedings of the International Conference on Relativistic Astrophysics*, Punjab University, Lahore, 10–14 February 2015 ed. Muhammad Sharif (Punjab University Press, 2015)48-55.
16. *Dynamics of Scalar Thin-Shell* by **M. Sharif** and Sehrish Iftikhar, *Proceedings of the International Conference on Relativistic Astrophysics*, Punjab University, Lahore, 10–14 February 2015 ed. Muhammad Sharif (Punjab University Press, 2015)89-94.
17. *Dynamical Stability of Stars in Brans-Dicke Gravity* by **M. Sharif** and Rubab Manzoor, *Proceedings of the International Conference on Relativistic Astrophysics*, Punjab University, Lahore, 10–14 February 2015 ed. Muhammad Sharif (Punjab University Press, 2015)132-139.
18. *Dynamics of Logamediate Anisotropic Warm Inflation* by **M. Sharif** and Rabia Saleem, *Proceedings of the International Conference on Relativistic Astrophysics*, Punjab University, Lahore, 10–14 February 2015 ed. Muhammad Sharif (Punjab University Press, 2015)178-182.
19. *Dynamical Instability of Relativistic Fluids in  $f(R)$  Gravity* by **M. Sharif** and Z. Yousaf, *Proceedings of the International Conference on Relativistic Astrophysics*, Punjab University, Lahore, 10–14 February 2015 ed. Muhammad Sharif (Punjab University Press, 2015)202-207.