Dr. Abdul Jawad

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PERSONAL INFORMATION

Date of Birth:	*21st June, 1986.*
CNIC NO:	37201-6855006-7
Father name:	Mohsaneen Ahmed
Place of Birth:	Chakwal (Pakistan)
Marital Status:	Married
Present Address:	House # E-1, E-22/9, Street #7 Officers Colony Walton Road Lahore Cantt. Pakistan
Permanent Address:	House # E-1, E-22/9, Street #7 Officers Colony Walton Road Lahore Cantt. Pakistan

OVERVIEW of ACHIEVEMENTS

- PhD completion in January 2014 in the field of General Relativity and Cosmology.
- Various courses taught to BS/MS/PhD level of Applied Mathematics.
- **291** published articles in international journals (including Q1=50; Q2=148; corresponding author in 220+, first author in 150).
- The accumulative impact factor is **918.8.**
- **Citations=5155, h-index=37, i10-index=139.**
- Won Research Productivity Awards from Pakistan Council for Science and Technology and CUI.
- HEC approved PhD research supervisor.
- A good number of my PhD/MS students working on different topics.
- International collaborations.
- PhD coordinator committee member at Mathematics Department, CUI Lahore.
- DARC member.
- Seven PhD, 40 MS and 7 BSM students supervised.
- Won four NRPU research projects (all completed).
- Evaluated MS/PhD thesis of different universities.
- One of the World Ranking of Top 2% Scientists by Stanford University USA for years 2020, 2021, 2022, 2023, 2024, 2025.

EDUCATION

Degree Name	Year	University Name	Descriptions
Post Doc, (General Relativity and Cosmology)	2023-2025	Institute for Theoretical Physics and Cosmology Zhejiang University of Technology Hangzhou, 310023 China	Worked on Gravitational Waves Project
PhD Mathematics, (General Relativity and Cosmology)	2010-2014	Department of Mathematics, University of the Punjab Lahore, Pakistan.	**Thesis Title:** Evolution of the Universe and Dark Energy Mystery **Course Work Subjects:** Mathematical Techniques Integral Equations Advances in Mathematical Physics Plasma Physics Quantum Field Theory Reading & Research
M. Phil. Mathematics (General Relativity and Cosmology)	2008 – 2010	Department of Mathematics, University of the Punjab Lahore, Pakistan	**Thesis Title:** Energy-Momentum Issue Using Hamiltonian Approach in Teleparallel Gravity **CGPA:** 3.71 /4.0 **Division:** First **Course Work Subjects:** Riemannian Geometry General Relativity-I Numerical Methods Partial Differential Equations Theory of Spline Functions-I Numerical Solution of PDEs Linear Groups and Group Representations
M. Sc Mathematics (Applied Mathematics)	2006 – 2008	Department of Mathematics, University of the Punjab Lahore, Pakistan.	**Subjects**: Quantum Mechanics, EMT, Analytical Dynamics **CGPA:** 3.79/4.0 **Division:** First
B.Sc	2004 – 2006	Govt. Islamia College Civil Lines, Lahore.	**Subjects**: Math A & B and Physics **Marks:** 564/800 **Division:** First
Intermediate	2002 – 2004	Govt. Post Graduate College, Chakwal.	**Subjects**: Math, Physics and Chemistry **Marks:** 758/1100 **Division:** First

Matriculation	2000 – 2002	Govt. High School Ghazial, Chakwal.	**Subjects**: Math, Physics, Chemistry, Biology **Marks:** 640/850 **Division:** First

NATIONAL CONFERENCES/SEMINARS ATTENDED

No.	Title of Conference	Date	Status	University Name
1	Lecture Series on Black Holes	Oct: 10-12, 2008	**Participant**	Department of Mathematics, University of Punjab, Lahore.
2	10th World Conference on 21st Century Mathematics 2009,	March: 4-8, 2009	**Participant**	Abdus Salam School of Mathematical Sciences, GC University, Lahore.
3	Recent Advances in Mathematical Methods, Models & Applications	April: 18-19, 2009	**Participant**	Centre for Advanced Studies in Mathematics, LUMS, Lahore.
4	Conference on General Relativity and Gravitation,	Feb: 11-13, 2010	**Participant**	Department of Mathematics, University of Punjab, Lahore.
5	International Conference on Physics and the World of Today	Dec: 21-22, 2011	**Speaker**	Department of Physics, University of Karachi, Pakistan.
6	IV Italian-Pakistani Workshop on Relativistic Astrophysics	Feb: 15-17, 2013	**Speaker**	Centre for Advanced Mathematics and Physics, National University of Sciences and Technology, Islamabad.
7	Lecture Series on Cosmology	Nov: 8-9, 2013	**Participant**	Department of Mathematics, University of the Punjab, Lahore.
8	Symmetries, Differential Equations and Applications II	Jan: 27-30, 2014	**Poster Presentation**	School of Natural Sciences (SNS), National University of Sciences and Technology, Islamabad.
9	Seminar Presentation	May: 21, 2014	**Speaker**	School of Natural Sciences (SNS), National University of Sciences and Technology, Islamabad.
10	Seminar Presentation	Oct: 16, 2014	**Speaker**	Department of Mathematics, COMSATS Institute of Information Technology, Lahore.
11	International Conference on Relativistic Astrophysics	Feb: 10-14, 2015	**Speaker**	Department of Mathematics, University of the Punjab, Lahore, Pakistan.

12	International Conference On Recent Advances in Applied Mathematics	Dec: 17-18, 2015	**Secretary**	Department of Mathematics, COMSATS Institute of Information Technology, Lahore.
13	6th International Conference on Education: "Science Beyond Class Room"	March: 15-17, 2018	**Invited Speaker, Chair session**	University of Education, Lahore, Pakistan.
14	1st PU International Conference on Gravitation and Cosmology	Jan: 27-31, 2019	**Speaker**	Department of Mathematics, University of the Punjab, Lahore Pakistan.
15	International Conference of Recent Advances in Applied Mathematics 2019	Feb: 20-22, 2019	**Secretary**	Department of Mathematics, COMSATS University Islamabad, Lahore-Campus Pakistan
15	4th PU International Conference on Gravitation and Cosmology	Nov: 22-25, 2021	**Participant**	Department of Mathematics, University of the Punjab, Lahore Pakistan.
16	International Conference on Gravitation and Cosmology ICGC24	Jan: 29-31, 2024	**Participant**	Department of Mathematics and Statistics, The University of Lahore, Pakistan.
17	International Conference on Relativistic Astrophysics and Cosmology	Feb: 01-02, 2024	**Participant**	Department of Mathematics, COMSATS University Islamabad, Lahore-Campus, Pakistan.
18	Seminar with title "Role of AI in the Recent Development of Mathematical Cosmology: Future Prospectives"	Oct: 20, 2025	**Speaker**	Department of Mathematics, The Islamia University of Bahawalpur, Bahawalpur, Pakistan.

INTERNATIONAL CONFERENCES/WORKSHOPS/SEMINARS ATTENDED

No.	Title of Conference	Date	Status	University Name
1	New Perspectives on Cosmology	Jan: 04-08, 2016	**Participant (Workshop)**	APCTP, Pohang, South Korea
2	COSMOS 18: The 22nd annual international conference on Particle Physics and Cosmology	Aug: 27-31, 2018	**Speaker** (Thermodynamics of Dark Energy Models in Loop Quantum Cosmology)	IBS, Daejeon, South Korea
3	MG16: Sixteenth Marcel Grossmann Meeting	July: 05-10, 2021	**Speaker** (Cosmological Implications of Einstein-Aether	Virtual Meeting, Italy

			Gravity)	
4	32nd Texas Symposium on Relativistic Astrophysics,	Dec: 11-15, 2023	**Speaker** (Analysis of Matter Growth Perturbations and Cosmographic Parameters in Specific Modified Gravity)	Tsung-Dao Lee Institute, Shanghai, China
5	2024 Annual Academic Meeting of the Gravitational and Relativistic Astrophysics (Section of the Chinese Physical Society and the 6th Galileo-Xu Guangqi Conference)	April: 20-24, 2024	**Participant**	hosted jointly by University of South China, Hunan Normal University, Lanzhou University, the Institute of Theoretical Physics at the Chinese Academy of Sciences (CAS), Hunan University of Arts and Sciences, and Purple Mountain Observatory of CAS. Hengyang, China
6	Hangzhou Gravity and Cosmology 2024,	Oct: 25-29, 2024	**Speaker** (Analysis Probing Current Cosmic Epochs Through Various Dynamical Systems)	ZJUT, Hangzhou, China
7	2025 Annual Academic Conference and National Congress of the Gravitational and Relativistic Astrophysics	April: 18-23, 2025	**Speaker** (Thermodynamics of Black Holes)	KUST, Kunming, China

RESEARCH PUBLICATIONS

(2026 papers: 07, IF: 56)

1. Abdul Malik Sultan, Abdul Jawad, Shagufta Jahangir, Aliya Batool, Hamood Ur Rehman, and Sanjar Shaymatov:
   *"*Viability of modified gravity with Torsion-Gauss–Bonnet coupling through bouncing scenarios*",*
   Int. J. Geom. Meth. Mod. Phys. Online published (Category Q1, IF=2.2).
   https://www.worldscientific.com/doi/10.1142/S0219887826501380

2. Abdul Malik Sultan, **Abdul Jawad,** Hamood Ur Rehman, Nurgissa Myrzakulov, Sanjar Shaymatov:

"Feasible regions of GB phenomenon in extended Proca-Nuevo gravity"
Physics of the Dark Universe 51(2026)102211 (Category Q1, IF=6.4).
https://www.sciencedirect.com/science/article/pii/S2212686426000014

3. Shamaila Rani, Aneesa Majeed, Nadeem Azhar, Kuralay Yesmakhanova, Nurgissa Myrzakulov, Sanjar Shaymatov, **Abdul Jawad**:
"Thermodynamics analysis of black hole through modified entropies by applying Hawking evaporation phenomenon"
Physics of the Dark Universe 51(2026)102222 (Category Q1, IF=6.4).
https://www.sciencedirect.com/science/article/pii/S2212686426000117

4. Maryam Shahid, **Abdul Jawad**, Usman Zafar, Sanjar Shaymatov, Shamaila Rani, Nur gissa Myrzakulov:
"Chaos bounds or violation? Fate of charged AdS black holes"
Physics of the Dark Universe 52(2026)102239 (Category Q1, IF=6.4).
https://www.sciencedirect.com/science/article/pii/S2212686426000282

5. M. Usman, S. Chaudhary, **Abdul Jawad**, S. Shaymatov, S. N. Gashti, M. A. S. Afshar, M. R. Alipour and J. Sadeghi:
"Probing Topological Thermodynamics of Specific Black Holes Inspired by Corrected Entropy"
Nucl. Phys. B Accepted (Category Q2, IF=2.8).
https://www.sciencedirect.com/science/article/pii/S0550321325004602

6. Usman Zafar, Kazuharu Bamba, **Abdul Jawad**, Tabinda Rasheed, and Sanjar Shaymatov:
"Thermodynamic and Observational Implications of Black Holes in Toroidal Geometry",
Prog. Theor. Exp. Phys. 2026 023E01 (Category Q1, IF= 8.3).
https://academic.oup.com/ptep/article/2026/2/023E01/8400332

7. **Abdul Jawad**, Ayesha Ikram, Aneesa Majeed, Nadeem Azhar, Shamaila Rani, Sadaf Maqsood, Sanjar Shaymatov:
"Dynamics and GSLT of EBEC Dark Matter Corrected Modified Horava-Lifshitz F(R) Gravity"
Phys. Lett. A 578(2026)131457 (Category Q2, IF=2.6).
https://www.sciencedirect.com/science/article/pii/S0375960126001337

8. Maryam Shahid, **Abdul Jawad**, Shahid Chaudhary, Hussnain Raza:
"A versatile thermodynamics study of $F(R)$-gravity-corrected black holes through generalized entropy",
Commun. Theor. Phys. 78(2026)035406 (Category Q2, IF= 2.9).
https://iopscience.iop.org/article/10.1088/1572-9494/ae11ff

9. Shamaila Rani, Nadeem Azhar, Aneesa Majeed and **Abdul Jawad**
"Probing Aether Scalar Tensor Theory Through Bouncing Cosmologies",
Int. J. Geom. Meth. Mod. Phys. 23 (2026) 2550171 (Category Q1, IF=2.2).

https://www.worldscientific.com/doi/epdf/10.1142/S0219887825501713

10. A. D. Alruwaili, Shamaila Rani, **Abdul Jawad**:
"Testing Cosmic Stability Phenomenon of Tsallis Entropy Corrected Universe"
Physics of the Dark Universe 51(2026)102183 (Category Q1, IF=6.4).
https://www.sciencedirect.com/science/article/pii/S2212686425003760

11. A. D. Alruwaili, Shama Sadiq, **Abdul Jawad**:
"Physical Constraining the Warm Inflationary Parameters in f(\phi,T) Modified Gravity"
Physics of the Dark Universe 51(2026)102188 (Category Q1, IF=6.4).
https://www.sciencedirect.com/science/article/pii/S2212686425003814

12. Shamaila Rani, Hifza Riaz, Abdul Jawad, Farzan Mushtaq, N. Myrzakulov, Sanjar Shaymatov:
"Thermodynamics of Rotating and Non-Rotating BTZ Black Holes Through Modified Entropies"
Nucl. Phys. B 1022(2026)117254 (Category Q2, IF=2.8).
https://www.sciencedirect.com/science/article/pii/S0550321325004602

2025 (Papers:34, IF: 142.3)

13. A. D. Alruwaili, **Abdul Jawad**, Ruqia Arif:
"Analyzing DGP braneworld model stability through phase space phenomenon"
Nucl. Phys. B 1019(2025) 117087 (Category Q2, IF=2.8).
https://www.sciencedirect.com/science/article/pii/S0550321325002962

14. Shamaila Rani, H. Riaz, U. Zafar, **Abdul Jawad**, N. Myrzakulov, S. Shaymatov:
"Stability and topological thermodynamics of black holes through modified entropy",
Eur. Phys. J. C 85(2025) 971 (Category Q2, IF=4.8).
https://link.springer.com/article/10.1140/epjc/s10052-025-14709-6

15. A. D. Alruwaili, N. Azhar, **Abdul Jawad**
"Observational constraining on baryon to entropy ratios in modified theories of gravity",
Physics of the Dark Universe 50(2025)102103 (Category Q1, IF=6.4).
https://www.sciencedirect.com/science/article/pii/S2212686425002961

16. Shamaila Rani, **Abdul Jawad**, Malihe Heydari-Fard, Usman Zafar:
"Thermodynamic and shadow analysis of Dehnen type dark matter Halo corrected Schwarzschild black hole surrounded by thin disk",
Eur. Phys. J. C 85(2025)677 (Category Q2, IF=4.8).
https://link.springer.com/article/10.1140/epjc/s10052-025-14388-3

17. N. Azhar, S. Karim, **Abdul Jawad**, M. M. Alam, M. S. Farid, S. Shaymatov:
"Observationally favorable consequences of cosmographic parameters and thermodynamics of dark energy model in non-zero torsion gravity"
Physics of the Dark Universe 49 (2025) 102056 (Category Q1, IF=6.4).
https://www.sciencedirect.com/science/article/pii/S2212686425002493

18. A. D. Alruwaili, Nadeem Azhar, **Abdul Jawad**:
"Investigating baryon to entropy ratio phenomenon in f(R,∇R) gravity"
Nucl. Phys. B 1018(2025)117067 (Category Q2, IF=2.8).
https://www.sciencedirect.com/science/article/pii/S0550321325002767

19. A. D. Alruwaili, Zoya Khan, **Abdul Jawad**:
"Stability of FRW Universe Inspired by Modified Entropy"
Nucl. Phys. B 1018(2025)117032 (Category Q2, IF=2.8).
https://www.sciencedirect.com/science/article/pii/S055032132500241X

20. F. Mushtaq, Hussnain Raza, **Abdul Jawad**, M. M. Alam, S. Shaymatov, X. Tiecheng:
"Non-extensive entropic corrected thermal stability and geometries of well-known black holes"
Nucl. Phys. B 1018(2025)117058 (Category Q2, IF=2.8).
https://www.sciencedirect.com/science/article/pii/S0550321325002676

21. **Abdul Jawad**, Nadeem Azhar, Ayesha Riasat, Abdul Malik Sultan, Shamaila Rani, S. Shaymatov, Hafiza Iqra Nadeem:
"Observational constraining on inflationary parameters in Barrow inspired f(R) cosmology"
Phys. Lett. A 561(2025)130974 (Category Q2, IF=2.6).
https://www.sciencedirect.com/science/article/pii/S0375960125007546

22. F. Mushtaq, **Abdul Jawad**, X. Tiecheng, M. M. Alam, S. Shaymatov:
"Thermodynamic study of specific black hole inspired by generalized entropy"
Phys. Lett. A 548(2025)130552 (Category Q2, IF=2.6).
https://www.sciencedirect.com/science/article/abs/pii/S0375960125003329

23. Ayesha Ikram, Mahnoor Tahir, Ines G. Salako, Abdul Jawad, Shamaila Rani :
"Probing anisotropic universe through Barrow dark energy in $f(G)$ gravity"
Phys. Lett. A 533(2025)130205 (Category Q2, IF=2.6).
https://www.sciencedirect.com/science/article/pii/S0375960124008995

24. **Abdul Jawad**, Nelson Videla, Abdul Malik Sultan, N. Myrzakulov Ayesha Aslam, S. Shaymatov:

"Observational constraints on inflationary parameters in exponential $f(T)$ gravity with well-known potentials"
Nucl. Phys. B 1019(2025)117101 (Category Q2, IF=2.8).
https://www.sciencedirect.com/science/article/pii/S0550321325003104?via%3Dihub

25. H. Tariq, U. Zafar, S. Chaudhary, K. Bamba, **Abdul Jawad**, S. Shaymatov:
"Exploring the effects of generalized entropy onto Bardeen black hole surrounded by cloud of strings"
Nucl. Phys. B 1016 (2025) 116906 (Category Q2, IF=2.8).
https://www.sciencedirect.com/science/article/pii/S0550321325001154

26. N. Azhar, **Abdul Jawad**, S. Rani, M. M. Alam, S. Shaymatov, Sania:
"Physical insights of squared speed of sound parameterized Brans-Dicke gravity through cosmic parameters and thermodynamics"
Nucl. Phys. B 1015 (2025) 116891 (Category Q2, IF=2.8).
https://www.sciencedirect.com/science/article/pii/S0550321325001002

27. A.D. Alruwaili, **Abdul Jawad**, N. Azhar, A.B. Albarrak:
"Probing gravitational baryogenesis phenomenon in specific modified gravity"
Physics of the Dark Universe 48 (2025) 101842 (Category Q1, IF=6.4).
https://www.sciencedirect.com/science/article/pii/S2212686425000378

28. N. Azhar, **Abdul Jawad**, Iftikhar Ahmed, M. M. Alam and S. Shaymatov:
"Cosmographic and thermodynamics analysis of five dimensional EChS gravity"
Journal of High Energy Astrophysics 47 (2025) 100369 (Category Q1, IF=10.5).
https://www.sciencedirect.com/science/article/abs/pii/S2214404825000503

29. A. M. Sultan, A. Batool, G. Abbas, **Abdul Jawad**, S. Shaymatov:
"Padé approximated traversable wormholes in $f(R, T)$ gravity"
Nuclear Phys. B 1013(2025)116838 (Category Q2, IF=2.8).
https://www.sciencedirect.com/science/article/pii/S0550321325000471

30. **Abdul Jawad**, N. Azhar, R. Arif, M. M. Alam, S. Shaymatov:
"Dynamical Stability Analysis of Entropy Corrected Cosmic Model Through Zero-Point Length"
Physics of the Dark Universe 48(2025)101898 (Category Q1, IF=6.4).
https://www.sciencedirect.com/science/article/pii/S2212686425000913

31. F. Mushtaq, **Abdul Jawad**, X. Tiecheng, M. M. Alam, S. Shaymatov:
"Probing deflection angle inspired by weak field of specific black holes in non-plasma and plasma field"
Physics of the Dark Universe 48 (2025) 101872 (Category Q1, IF=6.4).
https://www.sciencedirect.com/science/article/abs/pii/S2212686425000664

32. H.M.M. Ahissou, I.G. Salako, A.V. Monwanou, **Abdul Jawad**, M. M. Alam, S. Shaymatov, H. Raza:
"Thermodynamics of $f(T, \tau)$ gravity corrected black holes and physical consequences"
Physics of the Dark Universe 48 (2025) 101850 (Category Q1, IF=6.4).
https://www.sciencedirect.com/science/article/abs/pii/S2212686425000457

33. M. Usman, **Abdul Jawad**, M. M. Alam and S. Shaymatov:
"Effects of nonlinear interactions on phase portraits and dynamical stability in specific modified gravity"
Physics of the Dark Universe 47 (2025) 101781 (Category Q1, IF=6.4).
https://www.sciencedirect.com/science/article/abs/pii/S2212686424003649

34. **Abdul Jawad**, N. Azhar, Warisha, N. Myrzakulov, K. Yerzhanov, S. Myrzakul:
"Study of cosmic parameters and thermodynamics of higher dimensional Einstein Chern–Simons cosmology through Barrow entropy
High Energy Density Physics 55(2025)101187 (Category Q4, IF=0.9).
https://www.sciencedirect.com/science/article/abs/pii/S1574181825000151

35. S. Rani, N. Azhar, A. Mir, **Abdul Jawad,** Y. M. Alanazi, A.B. Jumah, H. H. Nawaz:
"Dynamics of the Universe in f(G, tau^ 2) Gravity Via Well-Known Cosmological Bouncing"
Physics of the Dark Universe 48 (2025) 101832 (Category Q1, IF=6.4).
https://www.sciencedirect.com/science/article/pii/S2212686425000275?via%3Dihub

36. Nadeem Azhar, Shamaila Rani, **Abdul Jawad**, M. M. Alam, S. Shaymatov:
"Cosmic and Thermodynamics Consequences of Chaplygin-Jacobi Corrected HDE Model"
Physics of the Dark Universe 47(2025) 101819 (Category Q1, IF=6.4).
https://www.sciencedirect.com/science/article/pii/S2212686425000147

37. Mirzabek Alloqulov, Yokubjon Isaqjonov, Sanjar Shaymatov and **Abdul Jawad**:
"Shadow and gravitational weak lensing around a quantum corrected black hole surrounded by a plasma"
Chin. Phys. C, 49(2025)045104 (Category Q2, IF=3.1).
https://iopscience.iop.org/article/10.1088/1674-1137/ad9f44

38. Shamaila Rani, Muhammad Adeel, M. Z. Gul, **Abdul Jawad** and Sanjar Shaymatov:
"Physical viability of f (*Q*) gravity corrected charged anisotropic solutions"
Physics of the Dark Universe 47(2025)101754 (Category Q1, IF=6.4).
https://www.sciencedirect.com/science/article/pii/S2212686424003376

39. Sana Malik, **Abdul Jawad**, Shahid Chaudhary, M. M. Alam, Sanjar Shaymatov, Shamaila Rani:
"Thermodynamic aspects of higher dimensional black holes in Einstein–Gauss–Bonnet gravity through exponential entropy",
Commun. Theor. Phys. 77(2025)045404 (Category Q2, IF= 2.9).
https://iopscience.iop.org/article/10.1088/1572-9494/ad91b1

40. **Abdul Jawad**, Hamza Tariq, Shahid Chaudhary and Qiang Wu:
"Stability and thermodynamic geometry of black hole in generalized entropy framework"
Annals of Physics 473(2025)169875 (Category Q2, IF=3).
https://www.sciencedirect.com/science/article/abs/pii/S0003491624002823

41. Muhammad Adeel, Shamaila Rani**,** M. Zeeshan Gul and **Abdul Jawad**:
"Impact of f(Q) Theory on the Stability of Compact Spherical Solutions",
Mod. Phys. Lett. A 40(2025) 2450213 (Category Q2, IF=1.6).
https://www.worldscientific.com/doi/10.1142/S0217732324502134

42. **Abdul Jawad**, Maryam Shahid, Shahid Chaudhary, and Sanjar Shaymatov
"Geometrothermodynamics Study of Specific Black Holes in Extended Einstein-Gauss-Bonnet Theory Using Tsallis Entropy",
Int. J. Geom. Meth. Mod. Phys. Vol. 22, No. 8 (2025) 2550049 (Category Q1, IF=2.2).

43. R. H. Ali, G. Abbas, **Abdul Jawad**, Badr S. Alkahtani, G. Mustafa:
"Mathematical Formalism of Joule-Thomson Process for ADS-RN Black Hole Coupled with Non-linear Electrodynamics Field"
Nuclear Phys. B 1010 (2025) 116735 (Category Q2, IF=2.8).
https://www.sciencedirect.com/science/article/pii/S0550321324003018

44. Zoya Khan, **Abdul Jawad** and Shamaila Rani:
"Cosmic Thermodynamics of Interacting Scenario of EBEC Dark Matter and Holographic Dark Energy"
Physics of the Dark Universe 47(2025)101739 (Category Q1, IF=6.4).
https://www.sciencedirect.com/science/article/abs/pii/S2212686424003224

45. Zoya Khan, Shamaila Rani and **Abdul Jawad**
"Phase Space Analysis of Torsion Cosmology",
Int. J. Geom. Meth. Mod. Phys. 22(2025) 2450261 (Category Q1, IF=2.2).
https://doi.org/10.1142/S021988782450261X

46. Mirzabek Alloqulov, Sanjar Shaymatov, **Abdul Jawad** and Oripjon Zaripov:
"Plasma impact on black hole shadow and gravitational weak lensing in Einstein-Maxwell-scalar theory",
Commun. Theor. Phys. 77(2025)015402 (Category Q2, IF= 2.9).
https://iopscience.iop.org/article/10.1088/1572-9494/ad7831

2024 (Papers:18, IF: 80.8)

47. Shamaila Rani, Nadeem Azhar, M. M. Alam, **Abdul Jawad** and Sanjar Shaymatov:
"Cosmic analysis through dark energy models in fractal universe with non- linear interaction term"
Physics of the Dark Universe 46(2024)101728 (Category Q1, IF=6.4).
https://www.sciencedirect.com/science/article/abs/pii/S2212686424003108

48. A. A. Araújo Filho, Kimet Jusufi, B. Cuadros-Melgar, Genly Leon, **Abdul Jawad**, C. E. Pellicer:
"Charged black holes with Yukawa potential"
Physics of the Dark Universe 46 (2024)101711 (Category Q1, IF=6.4).
https://www.sciencedirect.com/science/article/abs/pii/S2212686424002930

49. **Abdul Jawad**, S. Maqsood, N. Azhar and M. M. Alam:
"Analyzing inflationary parameters and swampland conjectures of modified cosmology according to various entropies"
Physics of the Dark Universe 46(2024)101680 (Category Q1, IF=6.4).
https://www.sciencedirect.com/science/article/pii/S2212686424002620

50. **Abdul Jawad**, Muhammad Usman and M. M. Alam:
"Compatibility of Gravitational Baryogenesis with theoretical framework of f(R,G,T) Gravity"
Physics of the Dark Universe 46(2024)101631 (Category Q1, IF=6.4).
https://www.sciencedirect.com/science/article/abs/pii/S2212686424002139

51. Muhammad Yasir, Xia Tiecheng and **Abdul Jawad**
"Topological Charges via Barrow Entropy of Black hole in Metric-Affine Gravity",
Eur. Phys. J. C 84 (2024)946 (Category Q2, IF=4.8).
https://link.springer.com/article/10.1140/epjc/s10052-024-13248-w

52. Muhammad Usman, **Abdul Jawad** and Abdul Malik Sultan
"Compatibility of Gravitational Baryogenesis in f(Q,C) Gravity",
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I have also submitted some other research papers in the international journal having good impact factor for publications.

Book Chapter

1. Abdul Malik Sultan and **Abdul Jawad:**
"Early Universe Cosmology Beyond General Relativity**"**
Book Chapter #10, Published in ***"Theory, Methods, and Applications in Physics, Networking, and Intelligent Modeling"***
Publisher: Ptolemy Institute of Scientific Research and Technology (PISRT)

Projects

Completed:

1. As **Co-Principal Investigator** (Co-PI), won the research project entitled as,

"Cosmological Analysis of Extended Teleparallel Gravity with Higher-Derivative Torsional Terms"

under SRGP by HEC with grant No: 21-1112/SRGP/R&D/HEC/2016

2. As **Principal Investigator** (PI), won the research project entitled as,

"Study of Early and Late-Times Universe via Modified/Alternatives Theories of Gravity"

under NRPU by HEC with grant No: 5412/Federal/NRPU/R\&D/HEC/2016

3. As **Co-Principal** Investigator (Co-PI), won the research project entitled as,

"Some Emergent Scenarios in Torsion based Modified Theories of Gravity"

under NRPU by HEC with grant No: 9183/Balochistan/NRPU/R&D/HEC/2017

4. As **Principal** Investigator (PI), won the research project entitled as,

"Essential Properties of Black Holes in Various Theories of Gravity"

under NRPU by HEC with grant No: 9290/Balochistan/NRPU/R&D/HEC/2017

Supervision of MS/M.Phil Students

1. **Asim Majeed** **(Lahore Leads University, Completed, 2015)**

   Thesis Title: *Reconstruction of Scalar Field Models via Pilgrim Dark Energy*

2. **Fazal Batool** **(Lahore Leads University, Completed, 2015)**

   Thesis Title: *Analysis of Scalar Field Models Via Modified QCD Ghost Dark Energy and Generalized Ghost Pilgrim Dark Energy*

3. **Amara Ilyas** **(Reg. No. CIIT/FA14-RMT-007/LHR, Completed, June 2016)**

   Thesis Title: *Some Inflationary Issues in Braneworld Scenario*

4. **Nadeem Azhar** **(Reg. No. CIIT/FA14-RMT-022/LHR, Completed, June 2016)**

   Thesis Title: *Cosmic Acceleration in Dynamical Chern-Simons Modified Gravity*

5. **Faiza Gulshan** **(Lahore Leads University, Completed, 2016)**

   Thesis Title: *Dynamical Dark Energy Models in Various Alternative Theories of Gravity*

6. **Sadaf Butt** **(Lahore Leads University, Completed, 2016)**

   Thesis Title: *Dynamics of Chaplygin Gas Inspired Inflationary Models*

7. **Shahzad Hussain** **(Reg. No. CIIT/SP15-RMT-003/LHR, Completed, Jan. 2017)**

   Thesis Title: *Dynamics of Warm Scalar Fields Inflation Inspired By Chaplygin Gas Models*

8. **Shahid Chaudhry** **(Reg. No. CIIT/FA15-RMT-007/LHR, Completed, June 2017)**

   Thesis Title: *Warm Inflation Via Well-Known Potentials*

9. **Amna Khawar** **(Reg. No. CIIT/FA16-RMT-024/LHR, Completed, June 2018)**

   Thesis Title: *Thermodynamics of Specific Black Holes*

10. **M. Adeel Sultan** **(Reg. No. CIIT/SP17-RMT-006/LHR, Completed, Jan. 2019)**

    Thesis Title: *Inflationary Dynamics and Thermodynamics of Chaplygin Gas Models*

11. **M. Haris Hussain** **(Reg. No. CIIT/SP17-RMT-015/LHR, Completed, Jan. 2019)**

    Thesis Title: *Cosmological Implications and Thermodynamics of Some Reconstructed Modified Gravity Models*

12. **Asma Aslam** **(Reg. No. CIIT/FA17-RMT-049/LHR, Completed, July 2019)**

    Thesis Title: *Cosmological Consequences of Tsallis Dark Energy Models*

13. Azmat Rustam **(Reg. No. CIIT/FA17-RMT-050/LHR, Completed, July 2019)**

Thesis Title: *Warm Inflationary Dynamics of Chaplygin Gas Models with Constant Sound Speed*

14. Sabir Hussain **(Reg. No. CIIT/FA17-RMT-046/LHR, Completed, July 2019)**

Thesis Title: *Cosmological Consequences of Some New Versions of Dark Energy Models*

15. Iqra Siddique **(Reg. No. CIIT/SP18-RMT-028/LHR, Completed, January 2020)**

Thesis Title: *Thermal Consequences of Modified Entropy on Some Well-Known Black Holes*

16. Rafaqat Ali **(Reg. No. CIIT/SP18-RMT-030/LHR, Completed, January 2020)**

Thesis Title: *Accretion onto Einstein-Aether Black Holes*

17. Muhammad Yasir **(Reg. No. CIIT/FA18-RMT-049/LHR, Completed, Aug. 2020)**

Thesis Title: *Thermodynamic Quantities and Quasinormal Modes of Specific Black Holes*

18. Muhammad Asif **(Reg. No. CIIT/FA18-RMT-018/LHR, Completed, Aug. 2020)**

Thesis Title: *Thermodynamic Study of Brane-World Black Hole via Well-Known Approaches*

19. Ubaid Ur Rehman **(Reg. No. CIIT/SP19 -RMT-019 /LHR, Completed, Jan. 2021)**

Thesis Title: *Generalized Chaplygin Gas Traversable Wormhole Solutions by Using GUP Corrected Casimir Energy*

20. Manzar Abbas **(Reg. No. CIIT/ SP19-RMT- 013 /LHR, Jan. 2021)**

Thesis Title *Holographic Inflation in Modified Theories of Gravity*

21. Kashaf Embreen **(Reg. No. CIIT/ FA19-RMT-022/LHR, July 2021)**

Thesis Title *Cosmic Inflation Evading Swampland Conjectures*

22. Sameen Ashraf **(Reg. No. CIIT/ FA19-RMT-094/LHR, July 2021)**

Thesis Title *Cosmic Acceleration in Modified Horava-Lifshitz Gravity*

23. Syeda Rabab Fatima **(Reg. No. CIIT/ FA19-RMT-111/LHR, July 2021)**

Thesis Title *Geometric Thermodynamics of Well-Known Black Holes*

24. Aneesa Majeed **(Reg. No. CIIT/ FA19-RMT-115/LHR, July 2021)**

Thesis Title *Swampland Criteria of Inflationary Cosmology with Well-Known*

Potentials

25. Mehwish Shad (Reg. No. CIIT/ SP20-RMT-024/LHR, January 2022)

Thesis Title *Cosmic Implications of Tsallis Holographic Dark Energy with Various IR Cutoffs in Horava-Lifshitz Gravity*

26. Usman Zafar (Reg. No. CIIT/ SP20-RMT-014/LHR, January 2022)

Thesis Title *Thermal Stability and Hawking Evaporation of Specific Black Holes*

27. Fareeha Kiran (Reg. No. CIIT/ FA20-RMT-003/LHR, July, 2022)

Thesis Title *Study of Cosmic Acceleration in Five-Dimensional Modified Gravity*

28. Mazhar Hussain (Reg. No. CIIT/ FA20-RMT-017/LHR, July, 2022)

Thesis Title *Study of Thermal Stability and Thermodynamic Geometries of Well-Known Black Holes through Entropy Corrections*

26. Zain Ul Abideen (Reg. No. CIIT/ FA20-RMT-026/LHR, July 2022)

Thesis Title *Cosmological Implications of Reconstructed Modified Gravity Models According to Kaniadakis Holographic Dark Energy*

27. Sania (Reg. No. CIIT/ SP21-RMT-027/LHR, January 2023)

Thesis Title *Effects of Interaction Terms on the Cosmology of Kaniadakis Holographic Dark Energy*

28. Hussnain Raza (Reg. No. CIIT/ SP21-RMT-021/LHR, January 2023)

Thesis Title *Some Thermal Properties of Self Gravitating Objects*

29. Aitzaz Ahsan (Reg. No. CIIT/ FA21-RMT-018/LHR, June 2023)

Thesis Title *Cosmographic Analysis of Holographic Non-Zero Torsion Framework*

30. Sana Malik (Reg. No. CIIT/ FA21-RMT-001/LHR, June 2023)

Thesis Title *Thermodynamic Study of Higher Dimensional Black Holes through Exponential Entropy*

31. Ayesha Aslam (Reg. No. CIIT/ FA21-RMT-064/LHR, June 2023)

Thesis Title *Effects of Well-Known Potentials on Cosmic Inflation in f(T) Gravity*

32. Muhammad Umer (Reg. No. CIIT/ FA21-RMT-105/LHR, June 2023)

Thesis Title *Exploring Patterns and Relations in Knot Theory by using Machine Learning*

33. Hamza Tariq (Reg. No. CIIT/ SP22-RMT-001/LHR, January 2024)

Thesis Title *Entropy Corrected Thermodynamic Geometries of Regular Black Holes*

34. Rimsha (Reg. No. CIIT/ SP22-RMT-020/LHR, January 2024)

Thesis Title *Study of Entropy Corrected Cosmic Scalar Field Inflation*

35. Muhammad Usman (Reg. No. CIIT/ FA22-RMT-018/LHR, June 2024)

Thesis Title *Topological Prospects of Black Hole Thermodynamics Using Modified Entropy*

36. Hafiza Iqra Nadeem (Reg. No. CIIT/ FA22-RMT-022/LHR, June 2024)

Thesis Title *Modified Entropy Inspired Scalar Field Cosmic Inflation with Well-Known Potentials*

37. Ruqia Arif (Reg. No. CIIT/ SP23-RMT-027/LHR, January 2025)

Thesis Title *Phase Space Analysis and Cosmic Parameters of Dynamical Dark Energy Model*

38. Maham Muzaffar (Reg. No. CIIT/ FA23-RMT-018/LHR, July 2025)

Thesis Title *Physical Aspects of Black Hole Thermodynamics through Modified Entropy*

39. Zainab Nazish (Reg. No. CIIT/SP24-RMT-019/LHR, January 2026)

Thesis Title *Effects of Modified Entropy on Black Hole Thermodynamics in Bumblebee Gravity*

40. Ameer Hamza (Reg. No. CIIT/SP24-RMT-007/LHR, January 2026)

Thesis Title *Thermodynamic Phase Transitions of Black Hole Through Modified Entropy*

41. Rubab Shoukat (Reg. No. CIIT/FA24-RMT-010 /LHR, In progress)

Supervision of PhD Students

1. **Muhammad Umair Shehzad (CIIT/FA13-PMATH-005/LHR, Completed, Sep.2018)**

   Thesis Title: *Dynamical Properties of Specific Black Holes*

2. **Ayesha Iqbal (CIIT/FA14-PMATH-002/LHR, Completed, April 2021)**

   Thesis Title: *Study of Cosmic Acceleration and Thermodynamic Consequences in Alternative Theories of Gravity*

3. **Sadaf Butt (CIIT/FA17-PMATH-005/LHR, Completed, July 21, 2022)**

   Thesis Title: *Analysis of Cosmic Expansion Through Some Effective Approaches*

4. **Shahid Chaudhary (CIIT/FA17-PMT-015/LHR, Completed, Nov. 18, 2022)**

   Thesis Title: *Physical Analysis of Black Holes Through Well-Known Approaches*

5. **Abdul Maalik Sultan (CIIT/SP19-PMT-002/LHR, Completed, July 6, 2023)**

   Thesis Title: *Dynamic Properties of Some Cosmological Systems*

6. **Muhammad Usman (CIIT/SP20-PMT-006/LHR, Completed, November 04, 2025)**

   Thesis Title: *Dynamical and Cosmographic Analysis of Some Cosmic Models*

7. **Maryam Shahid (CIIT/FA21-PMT-005/LHR, In Progress, Synopsis Approved)**

   Thesis Title: *Probing Mathematical and Astrophysical Properties of Specific Black Holes*

8. **Zoya Khan (CIIT/FA21-PMT-001/LHR, In Progress, Synopsis Approved)**

   Thesis Title: *Analysis of Emerging Scenarios in Some Modified Theories of Gravity*

9. **Umair Anwar (CIIT/SP24-PMT-003/LHR, In Progress)**

10. **Shama Sadiq (CIIT/FA24-PMT-005/LHR, In Progress)**

Supervision of BSM Students

1. **Ayesha Sadiq (Reg.No. CIIT/FA14-BSM-013/LHR, Completed, 2018)**

   Thesis Title: *Thermodynamics of Dyadosphere of Reissner-Nordstrom, f(R) Global Monopole and Janis-Newman-Winicour Black Holes*

2. **Hafiza Zarish Arshad (Reg.No. CIIT/FA14-BSM-001/LHR, Completed, 2018)**

   Thesis Title: *Thermal Fluctuations of a Regular and Einstein-Aether Black Holes*

3. **Aneesa Majeed (Reg. No. CIIT/FA15-BSM-003/LHR, Completed, 2019)**

   Thesis Title: *Thermodynamics of Fractal Universe Inspired by Constant and Variable Squared Sound Speed*

4. **Khadija Asif (Reg. No. CIIT/FA15-BSM-010/LHR, Completed, 2019)**

   Thesis Title: *Cosmological Implications of Fractal Universe with Different Squared Sound Speed Forms*

5. **Hafsa Tufail (Reg. No. CIIT/SP16-BSM-005/LHR, Completed, Jan 2019)**

   Thesis Title: *Thermodynamics of Chaplygin Gas Model in Fractal Universe*

6. **Maham Muzaffar (Reg. No. CIIT/FA19-BSM-027/LHR, Completed, June 2023)**
7. **Hifza Riaz (Reg. No. CIIT/FA19-BSM-038/LHR, Completed, June 2023)**

Thesis Title: *Modified Entropy and Black Hole Thermodynamics*

Co-supervision

1. **Saba Qummer (PhD, CIIT/SP18-PMT-003/LHR , Co-Supervisor, Completed, September 30, 2022)**

   Thesis Title: *Effects of Dynamical Dark Energy Models on Cosmic Expansion*

2. **Irfan Ullah Malik (MS, CIIT/SP17-RMT-007/LHR, Completed, Jan. 2019)**

   Thesis Title: *Cosmological Analysis of Reconstructed Einstein-Aether Models*

Academic Experience

- Lecturer (Nov 2013 - Feb 2014)
  Department of Mathematics,
  Lahore Leads University, Lahore Pakistan.

- Assistant Professor (Mar 2014 - July 2014)
  Department of Mathematics,
  Lahore Leads University, Lahore Pakistan.

- Assistant Professor (Aug 2014 – Dec 2020)
  Department of Mathematics,
  COMSATS University Islamabad,
  Lahore Campus Pakistan.

- Associate Professor (Dec 2020 – Present)
  Department of Mathematics,
  COMSATS University Islamabad,
  Lahore Campus Pakistan.

- MS Programme Coordinator (Nov 2014 - Present)
  Department of Mathematics,
  COMSATS University Islamabad,
  Lahore Campus Pakistan.

- Member, DARC Committee (Nov 2015 - Present)
  Department of Mathematics,
  COMSATS University Islamabad,
  Lahore Campus Pakistan.

PhD THESIS EVAULATED

- Ms. Iffat Fayyaz (PhD), 11-12-2020, FAST-NU, Lahore
  Thesis Title: Dynamics of Some Cosmic Models in *f(R)* Theory

- Mr. Adnan Malik (PhD), 28-01-2021, FAST-NU, Lahore

Thesis Title: Some Interesting Aspects of Modified *f(R)* Theories of Gravity

MS/M.Phil THESIS EVAULATED

- Ms. Aneela Sadaf (MS), 08-12-2022, UO, Okara
  Thesis Title: "Rindler Trajectories in Cloud of Strings in Lovelock Gravity"

- Ms. Sana Khalid (MS), 08-12-2022, UO, Okara
  Thesis Title: "Motion of Test Particles around some Rotating and Non-rotating Black Holes"

- Mr. M. Shahzeb Gul (MS), 19-10-2022, UMT, Lahore
  Thesis Title: "Model of Anisotropic Compact Stellar Objects and Exotic Matter"

- Mr. Abdul Haseeb (MS), 30-08-2022, PU, Lahore
  Thesis Title: "Variational Improvement Scheme for Curvature Based Willmore Surfaces"

- Mr. Huzaifa Aman (MS), 30-08-2022, PU, Lahore
  Thesis Title: "Bouncing Cosmology"

- Ms. Maryam Nazeer (MS), 30-08-2022, PU, Lahore
  Thesis Title: "A Study on the Formation of Thin Shell"

- Ms. Ghulam Fatima (MS), 07-07-2022, UMT, Lahore
  Thesis Title: "Conformal Compact Model of Massive Stellar Object in F(R,T) Gravity"

- Ms. Lubna Nosheen (MS), 08-12-2021, UO, Okara
  Thesis Title: "Some Remarks on Criticality and Thermodynamics of the Charged Phantom AdS Black Bole"

- Ms. Sana Nafees (MS), 08-12-2021, UO, Okara
  Thesis Title: "Study of Thermodynamical Geometries of Conformal Gravity Black Hole"

- Mr. Waseem Ahmad (MS), 23-11-2021, UE, Lahore
  Thesis Title: "Complexity Factor For Static Cylindrical System in *f(R)* Gravity"

- Mr. Muhammad Aamir (MS), 03-11-2021, UMT, Lahore
  Thesis Title: Expansion-Free Cluster of Stars in *f(G,T)* Gravity

- Mr. Muhammad Kashif Ramzan (MS), 03-11-2021, UMT, Lahore
  Thesis Title: Evolution of Expansion-free Massive Stellar in *f(R,T)* Gravity

- Mr. Suraj Khan (MS), 10-08-2021, PU, Lahore
  Thesis Title: Impact of f(G) Gravity on the Evolution of Self-gravitating Objects

- Mr. Furqan Hussain (MS), 10-08-2021, PU, Lahore
  Thesis Title: Generalization of LTB Geometry with Palatini Formalism

- Ms. Taiba Ashraf (MS), 10-08-2021, PU, Lahore
  Thesis Title: Gravastars in Modified Gauss-Bonnet Gravity

- Mr. Imran Shahzad (MS), 19-06-2020, IUB, Bahawalpur
  Thesis Title: Thermodynamics of Non-commutative Black Hole

- Ms. Lubna Shehzadi (MS), 19-06-2020, IUB, Bahawalpur
  Thesis Title: Compact Stars with Linear Equation of State in Rastall Theory

- Ms. Maria Bibi (MS), 19-06-2020, IUB, Bahawalpur
  Thesis Title: Quintessence Compact Stars Satisfying Karmarkar Condition

- Ms. Komal Ashraf (MS), 02-07-2020, PU, Lahore
  Thesis Title: Stability Analysis of Bardeen and Hayward Thin-Shells around Wormholes

- Mr. Mahroz Javed (MS), 18-08-2020, FAST-NU, Lahore
  Thesis Title: Charged Compact Stars in *f(R, G)* Gravity

- Ms. Quresha Hanif (MS), 18-08-2020, FAST-NU, Lahore
  Thesis Title: Study of Dense Star in General Theory of Relativity

- Mr. Anayat Ali (MS), 2019, IUB, Bahawalpur
  Thesis Title: Relativistic Wormholes Inspired by Stellar Density Models

- Mr. Naeem Yousaf (MS), 2019, IUB, Bahawalpur
  Thesis Title: Dynamical Behavior of Particles Near Brane-World Black Hole

- Ms. Fiza Kanwal (MS), 17-07-2017, FAST-NU, Lahore
  Thesis Title: Noether Symmetry Approach in Modified Gauss Bonnet Cosmology

- Ms. Rida Ejaz (MS), 17-07-2017, FAST-NU, Lahore
  Thesis Title: Energy-momentum Problem in General Relativity

and many more.

SELF ASSESSMENT

I have a good appreciable research skill including presentation skills, reading and writing skills in English and capable of teaching mathematics at any level with a great art of transfer of knowledge to the students. I can work under stress conditions, independently and with spirit. I have good working experience with scientific tools like Mathematica, Maple, WinEdit, Latex and MS Office.

ACHIEVEMENTS

- HEC Approved Supervisor

- PhD Scholarship Under Indigenous 5000 PhD Fellowship Program Batch-VII (Nov 2011-Nov 2014).

- Research Productivity Award **2012-2013** with **G-Category** from ***Pakistan Council for Science and Technology.***
- Research Productivity Award **2013-2014** with **C-Category** from ***Pakistan Council for Science and Technology.***
- Research Productivity Award **2014-2015** with **B-Category** from ***Pakistan Council for Science and Technology.***
- Research Productivity Award **2014** from ***COMSATS Institute of Information and Technology (Now CUI).***
- Research Productivity Award **2015-2016** with **A-Category** from ***Pakistan Council for Science and Technology.***
- Research Productivity Award **2015** from ***COMSATS Institute of Information and Technology (Now CUI).***
- Research Productivity Award **2016** from ***COMSATS Institute of Information and Technology (Now CUI).***
- Research Productivity Award **2017-2018** with **D-Category** from ***Pakistan Council for Science and Technology.***
- Research Productivity Award **2017** from ***COMSATS University Islamabad, Lahore-Campus.***
- One of the World Ranking of Top 2% Scientists by Stanford University USA 2020
- One of the World Ranking of Top 2% Scientists by Stanford University USA 2021
- One of the World Ranking of Top 2% Scientists by Stanford University USA 2022
- One of the World Ranking of Top 2% Scientists by Stanford University USA 2023
- One of the World Ranking of Top 2% Scientists by Stanford University USA 2024
- One of the World Ranking of Top 2% Scientists by Stanford University USA 2025

REVIEWER OF INTERNATIONAL JOURNALS

1. Astrophysics and Space Science
2. International Journal of Theoretical Physics
3. Canadian Journal of Physics

4. Advances in High Energy Physics
5. The European Physical Journal C
6. Results in Physics
7. International Journal of Modern Physics D
8. Classical and Quantum Gravity
9. Modern Physics Letter A
10. Physics of the Dark Universe