



ERTAN GÜDEKLİ

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International Researcher IDs

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Publons / Web Of Science ResearcherID: J-4371-2019

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Yoksis Researcher ID: 102320



Biography

He is a faculty member at Istanbul University, Faculty of Science, Department of Physics, Mathematical Physics Department. He completed his undergraduate degree from Istanbul University, Faculty of Science, Department of Physics, and his master's and doctorate degrees from Istanbul University, Institute of Science, Mathematical Physics Program. Research Areas: General Theory of Relativity, Cosmology, Higher Order Gravitation Theories, Membrane-universe Models, Dynamical Systems.

Learning Knowledge

| | |
|------------------------------|--|
| Doctorate 1997 - 2004 | Istanbul University, Fen Bilimleri, Fizik Programı Matematiksel Fizik Anabilim Dalı, Turkey |
| Postgraduate 1994 - 1997 | Istanbul University, Fen Bilimleri, Fizik Programı Matematiksel Fizik Anabilim Dalı, Turkey |
| Undergraduate 1990 - 1994 | Istanbul University, Faculty Of Science, Department Of Physics, Turkey |

Certificates, Courses and Trainings

Measurement and Evaluation, AUZEF SORU YAZMA CALISTAYI, İstanbul Üniversitesi, 2022
IT, MATLAB FUNDAMENTALS AND PROGRAMMING TECHNIQUES, SEM-ODTÜ TEKNOKENT, 2006

Dissertations

Doctorate, Bianchi Tip Çözümlerde Ufuk-Eşyönlüleşme Meseleleri , İstanbul University, Fizik, Fizik Programı Matematiksel

Fizik Anabilim Dalı, 2004

Postgraduate, Homojen Evren Modellerinin Matemetiksel Temelleri, İstanbul University, Fizik, Fizik Programı
Matematiksel Fizik Anabilim Dalı, 1997

Academic Titles / Tasks

Professor
2022 - Continues Istanbul University, Faculty of Science, Department of Physics

Associate Professor
2017 - 2022 Istanbul University, Faculty of Science, Department of Physics

Assistant Professor
2008 - 2017 Istanbul University, Faculty of Science, Department of Physics

Supported Projects

1. GÜDEKLİ E., Project Supported by Higher Education Institutions, $f(R,G)$ -tipi Kozmolojilerde Dinamik Sistem Analizi, 2011 - 2015

Awards

1. GÜDEKLİ E., 2019 YILI TÜRK FİZİK DERNEĞİ ONUR ÖDÜLÜ, Turkish Physical Society 35th International Physics Congress, September 2019

Jury Memberships

Post Graduate, Post Graduate, İstanbul Üniversitesi, July, 2024

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Üniversitesi, July, 2024
Doctorate, Doctorate, İstanbul Üniversitesi, July, 2024

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Üniversitesi, June, 2024
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi-Cerrahpaşa, May, 2024

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Çanakkale Onsekiz Mart Üniversitesi, March, 2024

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, İstanbul Üniversitesi, March, 2024

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, İstanbul Üniversitesi, March, 2024

Doctorate, Doctorate, İstanbul Üniversitesi, February, 2024

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Üniversitesi, February, 2024

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Yıldız Teknik Üniversitesi, January, 2024

Post Graduate, Post Graduate, İstanbul Yeni Yüzyıl Üniversitesi, January, 2024

Post Graduate, Post Graduate, İstanbul Üniversitesi, January, 2024

Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, November, 2023

Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, November, 2023
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, November, 2023
Post Graduate, Post Graduate, İstanbul Üniversitesi, June, 2023
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Üniversitesi, June, 2023
Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, May, 2023
Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Çanakkale Onsekiz Mart Üniversitesi, February, 2023
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, January, 2023
Doctoral Examination, Doctoral Examination, Çanakkale Onsekiz Mart Üniversitesi, July, 2022
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, June, 2022
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Üniversitesi, June, 2022
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, June, 2022
Post Graduate, Post Graduate, İstanbul Üniversitesi, June, 2022
Doctorate, Doctorate, İstanbul Üniversitesi, February, 2022
Doctorate, Doctorate, İstanbul Üniversitesi, February, 2022
Doctoral Examination, Doctoral Examination, Çanakkale Onsekiz Mart Üniversitesi, January, 2022
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, İstanbul Yeni Yüzyıl Üniversitesi, January, 2022
Post Graduate, Post Graduate, İstanbul Üniversitesi, January, 2022
Doctoral Examination, Doctoral Examination, Çanakkale Onsekiz Mart Üniversitesi, January, 2022
Post Graduate, Post Graduate, İstanbul Üniversitesi, December, 2021
Post Graduate, Post Graduate, İstanbul Üniversitesi, November, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, University of Delhi, August, 2021
Doctorate, Doctorate, Çanakkale Onsekiz Mart Üniversitesi, August, 2021
Post Graduate, Post Graduate, İstanbul Üniversitesi, August, 2021
Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, July, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Üniversitesi, July, 2021
Doctorate, Doctorate, İstanbul Üniversitesi, June, 2019
Doctorate, yüksek lisans, Onsekiz Mart Üniversitesi, June, 2018
Doctorate, Doktora , Onsekiz Mart Üniversitesi, June, 2018
Post Graduate, Yüksek Lisans, İstanbul Üniversitesi Fen Bilimleri Enstitüsü, May, 2018
Post Graduate, Jüri Üyesi, İstanbul Üniversitesi Fen Bilimler Enstitüsü, June, 2016
Post Graduate, Jüri Üyesi, İstanbul Ün. Fen Bilimleri Enstitüsü, May, 2013
Post Graduate, Jüri Üyesi, İstanbul Ün. Fen Bilimleri Enstitüsü, May, 2013
Post Graduate, Jüri Üyesi, İstanbul Fen Bilimler Enstitüsü, November, 2012

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Observational signature of QPOs with particle motion around non-commutative Schwarzschild black hole surrounded by perfect fluid dark matter**
Mustafa G., Demir E., Davlataliev A., Chaudhary H., Atamurotov F., GÜDEKLİ E.
Physics of the Dark Universe, vol.46, 2024 (SCI-Expanded)
2. **Optical properties of Euler-Heisenberg black hole surrounded by perfect fluid dark matter**
YILDIZ G., Ditta A., Ashraf A., GÜDEKLİ E., Alanazi Y. M., Reyimbergenov A.
PHYSICS OF THE DARK UNIVERSE, vol.46, 2024 (SCI-Expanded)
3. **Epicyclic oscillations and particle collision with trajectories around quantum corrected black holes**
Mustafa G., Demir E., Javed F., Maurya S., GÜDEKLİ E., Murodov S., Atamurotov F.
Physics of the Dark Universe, vol.46, 2024 (SCI-Expanded)
4. **Orbital motion, epicyclic oscillations, and collision of particles around conformally coupled charged**

black hole

Mustafa G., YILDIZ G., Javed F., Maurya S., GÜDEKLİ E., Atamurotov F.

Physics of the Dark Universe, vol.46, 2024 (SCI-Expanded)

5. Joule-Thomson expansion, motion of particles and QPOs around Bardeen-AdS black hole immersed in a fluid of strings

Mustafa G., Javed F., Maurya S., Alkarni S., Donmez O., ÇILLİ A., GÜDEKLİ E.

Journal of High Energy Astrophysics, vol.44, pp.437-456, 2024 (SCI-Expanded)

6. Particle dynamics with trajectories and epicyclic oscillations around a piece-wise black hole immersed in dark matter

ÇALIŞKAN A., Mustafa G., Naseer T., Maurya S., GÜDEKLİ E., Murodov S., Atamurotov F.

Journal of High Energy Astrophysics, vol.44, pp.99-115, 2024 (SCI-Expanded)

7. Observational analysis of late-time acceleration in $f(Q, L_m)$ gravity

Myrzakulov K., Koussour M., Donmez O., ÇILLİ A., GÜDEKLİ E., Rayimbaev J.

Journal of High Energy Astrophysics, vol.44, pp.164-171, 2024 (SCI-Expanded)

8. Orbital motion and QPOs testing around rotating Hairy black holes in Horndeski gravity
Güdekli E.

PHYSICS OF THE DARK UNIVERSE, vol.46, pp.1-32, 2024 (SCI-Expanded)

9. Particle dynamics and QPOs around a black hole coupled with nonlinear electrodynamics and cloud of strings
Güdekli E.

CHINESE JOURNAL OF PHYSICS, vol.92, pp.1-30, 2024 (SCI-Expanded)

10. Investigating physical existence of charged stellar models

Demir E., Naseer T., Ashraf A., GÜDEKLİ E.

Chinese Journal of Physics, vol.91, pp.299-315, 2024 (SCI-Expanded)

11. Bouncing Universe Scenarios in an Extended Gravitational Framework Involving Curvature-Matter Coupling

Zubair M., Muneer Q., Waheed S., Yildiz G. D. A., Gudekli E.

JOURNAL OF HIGH ENERGY ASTROPHYSICS, vol.44, pp.1-32, 2024 (SCI-Expanded)

12. Experimental approach and analysis of the effectiveness of using virtual reality (VR) technology in teaching astronomy to students of pedagogical specialties

Chervonnyy M., Ertan G.

ILIM, vol.41, no.3, pp.50-60, 2024 (SCI-Expanded)

13. Exploring the deceleration parameter in $f(T)$ gravity: A comprehensive analysis using parametrization techniques and observational data

Chaudhary H., Bouali A., DURU H., GÜDEKLİ E., Mustafa G.

International Journal of Geometric Methods in Modern Physics, vol.21, no.9, 2024 (SCI-Expanded)

14. Cosmology of the interacting Tsallis holographic dark energy in $f(R, T)$ gravity framework

Sultana S., Ranjit C., Chattopadhyay S., GÜDEKLİ E.

International Journal of Modern Physics D, vol.33, no.9-10, 2024 (SCI-Expanded)

15. Constraints on bulk viscosity in $\langle i \rangle f \langle /i \rangle$ (Q, T) gravity from $H(z)/\text{Pantheon}$ plus data

Koussour M., Errehymy A., Donmez O., Myrzakulov K., Khan M., Çil B., Güdekli E.

PHYSICS OF THE DARK UNIVERSE, vol.45, 2024 (SCI-Expanded)

16. Linear redshift parametrization of deceleration parameter in $\langle i \rangle f \langle /i \rangle$ ($\langle i \rangle R \langle /i \rangle$, $\langle i \rangle L \langle sub \rangle m \langle /sub \rangle \langle /i \rangle$) gravity

Myrzakulov Y., Donmez O., YILDIZ G., GÜDEKLİ E., Muminov S., Rayimbaev J.

PHYSICS OF THE DARK UNIVERSE, vol.45, 2024 (SCI-Expanded)

17. Sign changeable coupled ghost dark fluid in the realization of cosmological bounce inflation
Saha S., Chattopadhyay S., Gudekli E.

INTERNATIONAL JOURNAL OF MODERN PHYSICS D, vol.33,

no.<https://www.worldscientific.com/doi/10.1142/S0218271824500421>, pp.1-32, 2024 (SCI-Expanded)

18. Observational constraints on parameterized deceleration parameter with $f(Q, T)$ gravity

- Shekh S. H., Caliskan A., Mustafa G., Maurya S. K., Pradhan A., Güdekli E.
 International Journal of Geometric Methods in Modern Physics, vol.21, no.3, 2024 (SCI-Expanded)
19. **Thin-shell wormholes with AdS black holes surrounded by Chaplygin dark fluid**
 Javed F., Waseem A., Mustafa G., Güdekli E.
 International Journal of Geometric Methods in Modern Physics, vol.21, no.3, 2024 (SCI-Expanded)
20. **A coupled-fluid approach to explore bounce and inflationary cosmology with Barrow holographic as the driving dark fluid**
 Saha S., Chattopadhyay S., Güdekli E.
 European Physical Journal C, vol.84, no.3, 2024 (SCI-Expanded)
21. **Class of charged traversable Casimir wormholes in $f(R,T)$ gravity**
 Azmat H., Muneer Q., Zubair M., Güdekli E., Ahmad I., Waheed S.
 Nuclear Physics B, vol.998, 2024 (SCI-Expanded)
22. **Some versions of Chaplygin gas model in modified gravity framework and validity of generalized second law of thermodynamics**
 Sultana S., Güdekli E., Chattopadhyay S.
 Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences, vol.79, no.1, pp.51-70, 2024 (SCI-Expanded)
23. **Testing of Kerr black hole with quintessential dark energy through observational data by using quasi-periodic oscillations**
 Liu Y., Mustafa G., Maurya S., Yildiz G. A., Güdekli E.
 Physics of the Dark Universe, vol.42, 2023 (SCI-Expanded)
24. **Observational constraints on transit reconstructed Tsallis $f(T)$ gravity**
 Shekh S. H., Mustafa G., Caliskan A., Güdekli E., Pradhan A.
 International Journal of Geometric Methods in Modern Physics, vol.20, no.12, 2023 (SCI-Expanded)
25. **New traversable wormhole solutions in Einstein Gauss-Bonnet gravity**
 Zubair M., Farooq M., Güdekli E., Kousar H. R., Yildiz G. A.
 International Journal of Geometric Methods in Modern Physics, vol.20, no.11, 2023 (SCI-Expanded)
26. **A structural analysis of self-gravitating anisotropic stars via equation of state in modified teleparallel gravity**
 Jan M., Liu S., Basit A., Çalışkan A., Güdekli E.
 Results in Physics, vol.51, 2023 (SCI-Expanded)
27. **A Study on the Various Aspects of Bounce Realisation for Some Choices of Scale Factors**
 Saha S., Güdekli E., Chattopadhyay S.
 Symmetry, vol.15, no.7, 2023 (SCI-Expanded)
28. **New wormhole solutions using dark matter profiles with the signature of observational data in teleparallel gravity**
 Chen R., Mustafa G., Caliskan A., Güdekli E.
 International Journal of Geometric Methods in Modern Physics, vol.20, no.8, 2023 (SCI-Expanded)
29. **Hyperbolic Scenario of Accelerating Universe in Modified Gravity**
 Khan R. A. A., Tiwari R. K., Bharali J., Bouali A., Yildiz G. D. A., GÜDEKLİ E.
 Symmetry, vol.15, no.6, 2023 (SCI-Expanded)
30. **Implications of $f(i) (R, i, T)$ gravity on the complexity factor of a physically consistent charged anisotropic stellar model**
 Zubair M., Azmat H., Güdekli E., Alhowaity A., Hamam H.
 NEW ASTRONOMY, vol.100, 2023 (SCI-Expanded)
31. **Traversable wormholes in Rastall teleparallel gravity with non-commutative geometry**
 Song S., Güdekli E.
 New Astronomy, vol.100, 2023 (SCI-Expanded)
32. **Traversable Wormhole in $f(Q)$ Gravity Using Conformal Symmetry**
 Jan M., Ashraf A., Basit A., Caliskan A., Güdekli E.
 Symmetry, vol.15, no.4, 2023 (SCI-Expanded)
33. **Horizon problem for Bianchi type-V universe model**

- Çil B., Çevik I., Yıldız G. A., Kara E., Güdekli E.
Canadian Journal of Physics, vol.101, no.3, pp.101-105, 2023 (SCI-Expanded)
34. **Constraining study of Rastall parameter on charged anisotropic compact star model**
Ashraf A., Shahzad M. R., Zhang Z., Gudekli E., Jamal M. F.
Physica Scripta, vol.98, no.3, 2023 (SCI-Expanded)
35. **Structural properties of a new class of stellar structures in modified teleparallel gravity**
ÇALIŞKAN A., Zulqarnain R. M., GÜDEKLİ E., Siddique I., Ahmad H., Askar S.
FRONTIERS IN ASTRONOMY AND SPACE SCIENCES, vol.10, 2023 (SCI-Expanded)
36. **Thermal fluctuations, QNMs, and emission energy of charged ADS black hole with nonlinear electrodynamics**
Javed F., Basit A., ÇALIŞKAN A., GÜDEKLİ E.
Frontiers in Astronomy and Space Sciences, vol.10, 2023 (SCI-Expanded)
37. **Wormholes models in $f(R)$ gravity inspired by non-compact matter source**
Gudekli E., Nazar H., Abbas G., Saddique M.
INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, vol.19, 2022 (SCI-Expanded)
38. **Thermodynamics and stability analysis of Tsallis Holographic Dark Energy (THDE) models in $F(R, T)$ gravity**
Zubair M., Muneer Q., Gudekli E.
ANNALS OF PHYSICS, vol.445, 2022 (SCI-Expanded)
39. **A study of bouncing cosmology in framework of $f(T, T)$ gravity with probing of cosmographic parameters**
Zubair M., Farooq M., Gudekli E.
INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, vol.19, no.09, 2022 (SCI-Expanded)
40. **Isotropization of N-component orthogonal fluid within the framework of Einstein field equations**
Yılmaz A. O., Çil B., Kara E., Güdekli E.
New Astronomy, vol.94, 2022 (SCI-Expanded)
41. **Study of anisotropic strange stars in Królik Barua metric under $f(T, T)$ gravity**
GÜDEKLİ E., Kamran M. J., Zubair M., Ahmed I.
Chinese Journal of Physics, vol.77, pp.592-604, 2022 (SCI-Expanded)
42. **Anisotropic stellar model in $F(T, \mathcal{T})$ gravity under the Karmarkar condition**
Gudekli E., Zubair M., Kamran M. J., Ahmed I.
INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, vol.19, no.04, pp.1-18, 2022 (SCI-Expanded)
43. **Viscous holographic $f(Q)$ cosmology with some versions of holographic dark energy with generalized cut-offs**
Chakraborty G., Chattopadhyay S., GÜDEKLİ E.
RESEARCH IN ASTRONOMY AND ASTROPHYSICS, vol.21, no.12, 2022 (SCI-Expanded)
44. **Corrigendum to Isotropization of N-component orthogonal fluid within the framework of Einstein field equations: [New Astronomy Volume 94 (2022) Article 101792] (New Astronomy (2022) 94, (S1384107622000227), (10.1016/j.newast.2022.101792))**
Yılmaz A. O., Çil B., Kara E., Güdekli E.
NEW ASTRONOMY, vol.95, pp.1-10, 2022 (SCI-Expanded)
45. **DEEP NEURAL NETWORKS AS A TOOL TO ESTIMATION OF COSMIC RADIATION DOSE RECEIVED ON FLIGHT**
YILMAZ A., YILMAZ ALAN H., FAYDASIÇOK Ö., Susam L., Samli R., AKKUŞ B., Erol A., GÜDEKLİ E., İnci C. İ., EMİRHAN M. E.
UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS, vol.84, no.2, pp.187-202, 2022 (SCI-Expanded)
46. **ESTIMATION OF COSMIC RADIATION DOSE RECEIVED ON FLIGHT BY MEANS OF DIFFERENT MACHINE LEARNING METHODS AND CARI-7A CALCULATIONS**
YILMAZ ALAN H., YILMAZ ALAN H., FAYDASIÇOK Ö., Susam L., ŞAMLI R., AKKUŞ B., Erol A., GÜDEKLİ E., İnci C. İ.,

- EMİRHAN M. E.
Romanian Journal of Physics, vol.67, no.1-2, 2022 (SCI-Expanded)
47. **ESTIMATION OF COSMIC RADIATION DOSE RECEIVED ON FLIGHT BY MEANS OF DIFFERENT MACHINE LEARNING METHODS AND CARL-7A CALCULATIONS**
YILMAZ A., YILMAZ ALAN H., FAYDASİÇOK Ö., Susam L., Samli R., AKKUŞ B., Erol A., GÜDEKLİ E., Inci C. I., EMİRHAN M. E.
ROMANIAN JOURNAL OF PHYSICS, no.1-2, 2022 (SCI-Expanded)
48. **BUSINESS PROCESS OPTIMIZATION BEYOND REENGINEERING**
Güdekli E., Karakoz Abdiseitovna K., Dauletbay Turdalievich B., Pulat Ablatayevich S.
TIANJIN DAXUE XUEBAO (ZIRAN KEXUE YU GONGCHENG JISHU BAN)/JOURNAL OF TIANJIN UNIVERSITY SCIENCE AND TECHNOLOGY, vol.54, no.12, pp.852-862, 2021 (SCI-Expanded)
49. **Mimetic matter in LRS Bianchi type-I model**
Güdekli E., Demir E.
CANADIAN JOURNAL OF PHYSICS, vol.99, no.10, pp.875-879, 2021 (SCI-Expanded)
50. **Relativistic stellar model in $f(R,T)$ gravity using karmarkar condition**
Zubair M., Javaid H., Azmat H., GÜDEKLİ E.
New Astronomy, vol.88, 2021 (SCI-Expanded)
51. **Gravitational collapse for anisotropic radiating star with Karmarkar condition in $f(R,T)$ gravity**
Ahmed R., Abbas G., GÜDEKLİ E.
Chinese Journal of Physics, vol.72, pp.78-92, 2021 (SCI-Expanded)
52. **Anisotropic stellar compact spheres in $f(R)$ gravity via Karmarkar approach**
Abbas G., Nazar H., Qaisar S., GÜDEKLİ E.
International Journal of Geometric Methods in Modern Physics, vol.18, 2021 (SCI-Expanded)
53. **Constraining the swiss-cheese IR-fixed point cosmology with cosmic expansion**
Mitra A., Zarikas V., Bonanno A., Good M., GÜDEKLİ E.
Universe, vol.7, no.8, 2021 (SCI-Expanded)
54. **Analysis of different scenarios with new Tsallis holographic dark energies and bulk viscous fluid in the framework of Chern-Simons modified gravity**
Ranjit C., Islam S., Chattopadhyay S., GÜDEKLİ E.
International Journal of Modern Physics A, vol.36, 2021 (SCI-Expanded)
55. **A statistical analysis of observational hubble parameter data to discuss the cosmology of holographic chaplygin gas**
Sarkar A., Chattopadhyay S., GÜDEKLİ E.
Symmetry, vol.13, no.4, 2021 (SCI-Expanded)
56. **Thermodynamics of barrow holographic dark energy with specific cut-off**
Chakraborty G., Chattopadhyay S., GÜDEKLİ E., Radinschi I.
Symmetry, vol.13, no.4, 2021 (SCI-Expanded)
57. **Anisotropic compact star models in $f(T)$ gravity with Tolman-Kuchowicz spacetime**
Zubair M., Ditta A., GÜDEKLİ E., Bhar P., Azmat H.
International Journal of Geometric Methods in Modern Physics, vol.18, 2021 (SCI-Expanded)
58. **Study of cosmological evolution via GGPDE $f(R)$ models**
Nawazish I., Javed W., GÜDEKLİ E., Abbas G.
International Journal of Geometric Methods in Modern Physics, vol.18, 2021 (SCI-Expanded)
59. **Dynamical system analysis of FLRW models with Modified Chaplygin gas.**
Yılmaz A. O., Güdekli E.
Scientific reports, vol.11, pp.2750, 2021 (SCI-Expanded)
60. **Cosmic radiation exposure calculations for international and domestic flights departs from Istanbul and Ankara**
Susam L., Alan H. Y., Yilmaz A., Erol A., Inci C. I., Akinci F. Ç., Akkus B., Demir M., Emirhan M. E., Faydasicok O., et al.
Radiation Protection Dosimetry, vol.192, no.1, pp.61-68, 2020 (SCI-Expanded)
61. **Preface: Turkish Physical Society 35th International Physics Congress (TPS35)**

- Akkuş B., Burcu Cakirli Mutlu R., Güdekli E., Kınacı B., Güzelçimen F., Dogan G. S., Akıncı F. Ç., Ertoprak A.
AIP Conference Proceedings, vol.2178, 2019 (SCI-Expanded)
62. **Spherically Symmetric Solutions of Light Galileon**
MOMENI D., HOUNDJO M. J. S., Gudekli E., RODRIGUES M. E., ALVARENGA F. G., Myrzakulov R.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, vol.55, no.2, pp.1211-1221, 2016 (SCI-Expanded)
63. **Cosmological viable mimetic $f(R)$ and $f(R, T)$ theories via Noether symmetry**
MOMENI D., Myrzakulov R., Gudekli E.
INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, vol.12, no.10, 2015 (SCI-Expanded)
64. **Teleparallelism by inhomogeneous dark fluid**
Gudekli E., Myrzakul A., MYRZAKULOV R.
ASTROPHYSICS AND SPACE SCIENCE, vol.359, no.2, 2015 (SCI-Expanded)
65. **Trace-anomaly driven inflation in $f(T)$ gravity with a cosmological constant**
Gudekli E., MYRZAKULOV N., YERZHANOV K., MYRZAKULOV R.
ASTROPHYSICS AND SPACE SCIENCE, vol.357, no.1, 2015 (SCI-Expanded)
66. **Bulk-Brane Matching in Bianchi-Types Brane World**
Sevinc O., Gudekli E.
ADVANCES IN HIGH ENERGY PHYSICS, 2011 (SCI-Expanded)

Articles Published in Other Journals

1. **Consistency Conditions of $f(R,G)$ -Gravity Field Equations for Bianchi-Type III Metric**
Güler S., Güdekli E.
Asian Journal of Research and Reviews in Physics,, vol.4, no.3, pp.29-41, 2021 (Peer-Reviewed Journal)
2. **An Analysis for Conservative and Non-conservative $f(R, T)$ Gravity Models**
Can D., Güdekli E.
Asian Journal of Research and Reviews in Physics, 2021 (Peer-Reviewed Journal)
3. **Bianchi Type-V Cosmology with Gamma Law $EoSin F(R,T)$ Gravity**
Açan Yıldız G. D., Güdekli E., Sofuoğlu D.
BOOK OF FULL TEXT PROCEEDINGS TURKISH PHYSICAL SOCIETY 35th INTERNATIONAL PHYSICS CONGRESS
(TPS-35), no.1, pp.427-431, 2019 (Peer-Reviewed Journal)
4. **Investigation of Bianchi Type-V Dark Energy Cosmological Models in $F(R,T)$ Gravity**
KARA E., ÇİL B., GÜDEKLİ E., SOFUOĞLU D.
BOOK OF FULL TEXT PROCEEDINGS TURKISH PHYSICAL SOCIETY 35th INTERNATIONAL PHYSICS CONGRESS
(TPS-35), no.1, pp.554-558, 2019 (Peer-Reviewed Journal)
5. **Cosmological Evolution and Constraint Equations in $f(G,T)$ Gravity Theory**
Sofuoğlu D., Güdekli E.
BOOK OF FULL TEXT PROCEEDINGS TURKISH PHYSICAL SOCIETY 35th INTERNATIONAL PHYSICS CONGRESS
(TPS-35), no.1, pp.411-419, 2019 (Peer-Reviewed Journal)
6. **Power-Law Solution in $f(G,T)$ Gravity**
SOFUOĞLU D., GÜDEKLİ E.
BOOK OF FULL TEXT PROCEEDINGS TURKISH PHYSICAL SOCIETY 35th INTERNATIONAL PHYSICS CONGRESS
(TPS-35), no.1, pp.420-426, 2019 (Peer-Reviewed Journal)
7. **Examination of Bianchi Type -VI0- for Dark Energy in $f(R,T)=R+?t$ Gravity**
ÇİL B., KARA E., GÜDEKLİ E., SOFUOĞLU D.
BOOK OF FULL TEXT PROCEEDINGS TURKISH PHYSICAL SOCIETY 35th INTERNATIONAL PHYSICS CONGRESS
(TPS-35), no.1, pp.469-473, 2019 (Peer-Reviewed Journal)
8. **THE DEVICE WHICH MEASURES THE DEPENDENCE OF ADIABATIC COEFFICIENTS OF LIQUID TO THE TEMPERATURE**
Bizhigitov T., GÜDEKLİ E., Sembiyeva A.
MECHANICS & TECHNOLOGIES, pp.148-154, 2015 (Peer-Reviewed Journal)

9. THE DEPENDENCE OF LIQUID VISCOSITY TO TEMPERATURE AND MAGNETIC FIELD

GÜDEKLİ E., Bizhigitov T., Sembiyeva A.

<http://rmebrk.kz/journals/3470/29767.pdf>, pp.156-162, 2015 (Peer-Reviewed Journal)

Books & Book Chapters

1. TEMEL FİZİK

Güdekli E. (Editor)

Istanbul University, İstanbul, 2022

Refereed Congress / Symposium Publications in Proceedings

1. PARAMETRIZATION OF DECELERATION PARAMETER IN ALTERNATIVE GRAVITATION THEORIES

Açan Yıldız G. D., Güdekli E.

TURKISH PHYSICAL SOCIETY 40TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 2 - 06 September 2024,
pp.255

2. THE INTERNAL STRUCTURE OF ANISOTROPIC STARS INTERACTING WITH ELECTROMAGNETIC FIELDS WITHIN THE FRAMEWORK OF $f(R, T, Q)$ THEORY

Demir E., Güdekli E.

TURKISH PHYSICAL SOCIETY 40TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 2 - 06 September 2024,
pp.253

3. EFFECT OF BULK VISCOSITY TO THE LATE-TIME ACCELERATED EXPANSION IN $f(Q, T)$ GRAVITY WITHIN THE FRAMEWORK OF OBSERVATIONAL DATASETS

Çil B., Güdekli E.

TURKISH PHYSICAL SOCIETY 40TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 2 - 06 September 2024,
pp.247

4. THE ROLE OF NON-COMMUTATIVE GEOMETRY IN RASTALL TELEPARALLEL GRAVITY

Cilli A., Çalışkan A., Güdekli E.

TURKISH PHYSICAL SOCIETY 40TH INTERNATIONAL PHYSICS CONGRESS,, Muğla, Turkey, 2 - 06 September 2024,
pp.242

5. DYNAMICAL SYSTEM ANALYSIS OF TWO COMPONENT FLUIDS IN BIANCHI V MODEL

Yılmaz A. O., Güdekli E.

TURKISH PHYSICAL SOCIETY 40TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 2 - 06 September 2024,
pp.203-204

6. Charged Wormhole Solutions in the Context of Modified Gravity

Aydın Z. D., Çalışkan A., Güdekli E.

TURKISH PHYSICAL SOCIETY 40TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 2 - 06 September 2024,
pp.417

7. Examine of Quasi-Periodic Oscillations of X-ray Flux Seen in Stellar-Mass Black Holes

Açan Yıldız G. D., Güdekli E.

DPG spring Meeting- Black Holes, Berlin, Germany, 11 - 15 March 2024, pp.1

8. HYPERBOLIC SCENARIO OF ACCELERATING UNIVERSE IN BIANCHI TYPE UNIVERSE

Açan Yıldız G. D., Güdekli E.

TURKISH PHYSICAL SOCIETY 39 th INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2023, pp.123

9. INVESTIGATION OF WORMHOLE SOLUTIONS IN THE FRAMEWORK OF WEITZENBOCK GEOMETRY

Çalışkan A., Güdekli E.

TURKISH PHYSICAL SOCIETY 39TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2023, pp.223

10. HOLOGRAPHIC PRINCIPLE APPLICATIONS IN F(T) GRAVITY FOR THE BIG BOUNCE SCENARIO
Çil B., Güdekli E.
TURKISH PHYSICAL SOCIETY 39TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2023, pp.224
11. STATE SPACE CONSTRUCTION AND STABILITY ANALYSIS OF 2- COMPONENT FLUIDS UNDER EINSTEIN'S FIELD EQUATIONS
Yılmaz A. O., Güdekli E.
TURKISH PHYSICAL SOCIETY 39TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2023, pp.221
12. Teleparalel Gravitasyonda Solucan Deliği Çözümlerinin Araştırılması
Çalışkan A., Güdekli E.
9. Bilim Günleri, İstanbul, Turkey, 9 - 11 May 2023, pp.1
13. Limitation of Infrared Fixed Point Swiss-Cosmology Through Cosmic Expansion
Çil B., Güdekli E.
Turkish Physical Society 38th International Physics Congress, Muğla, Turkey, 4 - 08 September 2022, pp.1-2
14. Connections between Teleparallelism and Dark Fluid in Modified Gravity
Gençel Y. C., Güdekli E.
Turkish Physical Society 38th International Physics Congress,, Muğla, Turkey, 4 - 08 September 2022, pp.224
15. Barrow Holographic Dark Energy Under Purview Of Bulk Viscosity
Gökduman Y. S., Güdekli E.
Türk Fizik Derneği 38. Uluslararası Fizik Kongresi,, Muğla, Turkey, 4 - 07 September 2022, pp.225
16. ANISOTROPIC STELLAR MODEL IN MODIFIED GRAVITY UNDER THE KARMAKAR CONDITION
Açan Yıldız G. D., Güdekli E.
TURKISH PHYSICAL SOCIETY 38 TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2022, pp.229
17. PHYSICAL ATTRIBUTES OF STELLAR MODEL IN F(T,T) THEORY
Açan Yıldız G. D., Güdekli E.
TURKISH PHYSICAL SOCIETY 38 TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2022, pp.341
18. STATE SPACE ANALYSIS OF FRW UNIVERSE WITH MODIFIED CHAPLYGIN GAS
Yılmaz A. O., Güdekli E.
TURKISH PHYSICAL SOCIETY 38 TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 31 August - 04 September 2022, pp.220
19. EİNSTEİN ALAN DENKLEMLERİ ÇERÇEVESİNDE BİANCHİ TİP-I KOZMOLOJİK MODELİNİN İZOTROPİZASYONU
Çil B., Güdekli E.
T.C. İSTANBUL YENİ YÜZYIL ÜNİVERSİTESİ8. BİLİM GÜNLERİ KONGRESİ, İstanbul, Turkey, 9 - 11 May 2022, pp.2
20. BİANCHİ TİP-V EVREN MODELİNDE EŞYÖNLÜLEŞME MESELESİ
Kara E., Güdekli E.
T.C. İSTANBUL YENİ YÜZYIL ÜNİVERSİTESİ8. BİLİM GÜNLERİ KONGRESİ, İstanbul, Turkey, 9 - 11 May 2022, pp.1
21. Strong Energy Condidition Violation of the Bianchi type-V Universe Mode
Çil B., Çevik İ., Kara E., Güdekli E.
Turkish Physical Society 37th International Physics Congress, Muğla, Turkey, 1 - 05 September 2021, pp.1
22. Investigation of Fluid Isotropization for Bianchi Type-I Universe Model
Yılmaz A. O., Çil B., Kara E., Güdekli E.
Turkish Physical Society 37th International Physics Congress, Muğla, Turkey, 1 - 05 September 2021, pp.3-4
23. Dynamics of f(R) Cosmologies Containing Einstein Static Models for Bianchi type-I
Açan Yıldız G. D., Güdekli E.
Turkish Physical Socienty 37nd International Physics Congress, Muğla, Turkey, 1 September - 05 December 2021, pp.2-3
24. Examination of Fluid Isotropization for Bianchi Type-V Universe Model

- Yılmaz A. O., Çil B., Kara E., Güdekli E.
Turkish Physical Society 37th International Physics Congress, Muğla, Turkey, 1 - 05 September 2021, pp.4-5
25. **Dynamical System Analysis of FLRW Models**
Güdekli E.
An International Virtual Workshop on "Recent Advancement in Astrophysics and Cosmology", Jharkhand, India, 12 - 13 October 2020, pp.3
26. **DYNAMICAL SYSTEM ANALYSIS OF ANISOTROPIC AND HOMOGENOUS $f(R)$ GRAVITY MODELS**
Kirca E. T., Aygenli H., Güdekli E.
TURKISH PHYSICAL SOCIETY 36TH INTERNATIONAL PHYSICS CONGRESS, İstanbul, Turkey, 1 - 05 September 2020, pp.127-128
27. **PERFECT FLUID LRS BIANCHI TYPE -I- UNIVERSE MODEL IN $f(R,T)$**
Çelik E., GÜDEKLİ E.
TURKISH PHYSICS SOCIETY 35ND INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 4 - 09 September 2019, pp.101
28. **EXAMINATION OF BIANCHI TYPE-VI0 FOR DARK ENERGY IN $f(R,T) = R + ?T$ GRAVITY**
Cil B., Kara E., GÜDEKLİ E., SOFUOĞLU D.
TURKISH PHYSICS SOCIETY 35th INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 4 - 08 September 2019, vol.1, no.1, pp.248
29. **INVESTIGATION OF BIANCHI TYPE-V DARK ENERGY COSMOLOGICAL MODELS IN $f(R,T)$ GRAVITY**
KARA E., ÇİL B., GÜDEKLİ E., SOFUOĞLU D.
Turkish Physical Society 35th International Physics Congress, Muğla, Turkey, 4 - 08 September 2019, vol.1, no.1, pp.249
30. **BIANCHI TYPE-V COSMOLOGY WITH GAMMA LAW EOS IN $f(R,T)$ GRAVITY**
GÜDEKLİ E., Acan Yıldız G. D., SOFUOĞLU D.
TURKISH PHYSICS SOCIETY 35ND INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 4 - 08 September 2019, vol.1, no.1, pp.250
31. **Cosmological Evolution and Constraint Equations in $f(G,T)$ Gravity Theory**
SOFUOĞLU D., GÜDEKLİ E.
Turkish Physical Society 35th International Physics Congress, Muğla, Turkey, 4 - 08 September 2019, vol.1, no.1, pp.254
32. **Power-law Solution in $f(G,T)$ Gravity**
SOFUOĞLU D., GÜDEKLİ E.
Turkish Physical Society 35th International Physics Congress, Muğla, Turkey, 4 - 08 September 2019, vol.1, no.1, pp.260
33. **CONFORMALLY FLAT TILTED BIANCHI TYPE-III COSMOLOGICAL MODELS IN $f(R,T)$ GRAVITY**
Keskin Ş., Çegil M. D., GÜDEKLİ E.
TURKISH PHYSICS SOCIETY 35ND INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 4 - 08 September 2019, vol.1, no.1, pp.247
34. **DYNAMICAL SYSTEM ANALYSIS OF ROBERTSON-WALKER (RW) MODELS IN GENERAL RELATIVITY**
Yılmaz A. O., GÜDEKLİ E.
TURKISH PHYSICS SOCIETY 35ND INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 4 - 08 September 2019, vol.1, no.1, pp.251
35. **FRACTIONAL DERIVATIVES GENERALIZATION OF COSMOLOGY**
Aktay N., GÜDEKLİ E.
TURKISH PHYSICS SOCIETY 35ND INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 4 - 08 September 2019, vol.1, no.1, pp.248
36. **CONFORMALLY CONSTANT TILTED BIANCHI TYPE-V COSMOLOGICAL MODELS IN $f(R,T)=R+?T$ GRAVITY**
Çegil M. D., Keskin Ş., GÜDEKLİ E.
TURKISH PHYSICS SOCIETY 35ND INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 4 - 08 September 2019, vol.1, no.1, pp.246

37. **Perfect fluid LRS Bianchi type -I-Universe model in F (R, T)**
Gudekli E., Caliskan A.
34th International Physics Congress on Turkish Physical Society, TPS 2018, Konacik-Bodrum, Turkey, 5 - 09 September 2018, vol.2042
38. **EXIMANTION OF ANISOTROPIC BIANCHIV TYPES FOR PERFECT FLUID UNIVERSE MODELS**
GÜDEKLİ E., Çalışkan A.
TURKISH PHYSICS SOCIETY 34ND INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 5 - 09 September 2018, vol.34, pp.360
39. **CONFORMAL INVARIANCE IN MYRZAKULOV GRAVITY**
GÜDEKLİ E., AÇAN G.
Turkish Physical Society 34th International Physics Congress, Muğla, Turkey, 5 - 09 September 2018, vol.34, pp.358
40. **PERFECT FLUID LRS BIANCHI UNIVERSE IN MYRZAKULOV GRAVITY**
GÜDEKLİ E., Çalışkan A.
TURKISH PHYSICS SOCIETY 34ND INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 5 - 09 September 2018, vol.34, pp.367
41. **THE ISOTROPISATION OF TILTEDN-COMPONENT FLUIDS BIANCHE TYPE-V UNIVERSE MODELIN THE FRAMEWORK OF EINSTEIN FIELD EQUATIONS**
GÜDEKLİ E.
TURKISH PHYSICS SOCIETY 34ND INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 5 - 09 September 2018, vol.34, pp.370
42. **INVESTIGATION INHOMOGENOUS DARK FLUID IN TELEPARALLELISM**
GÜDEKLİ E.
TURKISH PHYSICS SOCIETY 33ND INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 6 - 10 September 2017, vol.33, pp.421
43. **Noether symmetry approach in FRW cosmological models with fermionic fields**
GÜDEKLİ E.
The 3rd International Conference ASTROPHYSICS, GRAVITY AND COSMOLOGY, Astana, Kazakhstan, 30 November - 02 December 2016, pp.1-4
44. **CONFORMAL INVARIANCE IN MIMETIC F(R,T) GRAVITY**
GÜDEKLİ E., DEMİR E.
TURKISH PHYSICS SOCIETY 32ND INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 5 - 09 September 2016, pp.21
45. **EXACT SOLUTION OF LIGHT GALILEON WITH TRANSLATIONAL SHIFT SYMMETRY IN SPHERICALLY SYMMETRIC GEOMETRY**
DEMİR E., GÜDEKLİ E.
TURKISH PHYSICS SOCIETY 32ND INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 5 - 09 September 2016, pp.20
46. **Mimetic F R Gravity Via Noether Symmetry**
Demir E., GÜDEKLİ E.
9th International Physics Conference of the Balkan Physical Union, 24 - 27 August 2015
47. **Conformal Invariance in F R T Gravity**
Pyotr T., GÜDEKLİ E., Ratbay M.
17th International Conference on Law and Trade, İstanbul, Turkey, 16 - 17 February 2015
48. **Exploring Solutions in Extended Horava-Lifshitz Gravity**
MYRZAKULOV A., GÜDEKLİ E., MYRZAKULOV R.
World Academy of Science, Engineering and Technology, International Journal of Mathematical, Computational, Physical, Electrical and Computer Engineering, İstanbul, Turkey, 16 - 17 February 2015, pp.10-15
49. **BIANCHI-TİP MODELLERİN NİTEL DİNAMİK SİSTEM ANALİZİ ARACILIĞIYLA EŞYÖNLÜLEŞME ÖZELLİKLERİNİN İNCELENMESİ**
GÜDEKLİ E.
TURKISH PHYSICAL SOCIETY 31TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 21 - 24 July 2014, pp.236

50. COVARIANT COSMOLOGICAL EVOLUTION AND CONSTRAINT EQUATIONS IN HIGHER-ORDER GRAVITY THEORIES
 ERMAN M., SOFUOĞLU D., GÜDEKLİ E.
 Turkish Physical Society 29th International Physics Congress, Turkey, 1 - 04 September 2012, pp.334
51. Bianchi-Type Brane World Cosmology
 GÜDEKLİ E., SEVİNÇ Ö.
 13th Regional Conference on Mathematical Physics,, Turkey, 1 - 04 July 2012, pp.10-11
52. Genel Rölativite Teorisi Çerçeve İçinde N-Bileşenli, Dik Akışkanlı Bianchi-Tip I Evreninin Eşyönlülüğü
 GÜDEKLİ E.
 Mantık, Matematik ve Felsefe III.Uluslararası Sempozyumu, İzmir, Turkey, 1 - 04 September 2005, pp.327-346

Other Publications

1. İstanbul İl Milli Eğitim Müdürlüğü
 GÜDEKLİ E.
 Other, pp.1-15, 2008

Academic and Administrative Experience

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|------------------|---|--|
| 2023 - Continues | Head of Department | Istanbul University, Faculty Of Science, Department Of Physics |
| 2018 - 2021 | Fakülte Kurulu Üyesi | Istanbul University, Faculty Of Science, Department Of Physics |
| 2017 - 2020 | Head of Department | Istanbul University, Faculty Of Science, Department Of Physics |
| 2016 - 2020 | Vice Dean | İstanbul Üniversitesi, Faculty of Science |
| 2016 - 2019 | Erasmus Program Institutional Coordinator | İstanbul Üniversitesi, Faculty of Science |
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Courses

- Fizikte Matematiksel Metotlar 1, Undergraduate, 2023 - 2024
 FİZİKTE MATEMATİKSEL METOTLAR II , Undergraduate, 2022 - 2023
 Elektrostatik, Undergraduate, 2021 - 2022
 Kısıslı Proje I, Undergraduate, 2021 - 2022
 Fizikte Matematiksel Metotlar I, Undergraduate, 2021 - 2022
 Fizikte Matematiksel Metodlar I, Undergraduate, 2021 - 2022
 Kısıslı Proje II, Undergraduate, 2019 - 2020
 İleri Elektromagnetik Teori, Postgraduate, 2020 - 2021

Fizikte Matematik Metodlar, Undergraduate, 2019 - 2020
Fizikte Matematiksel Mrtodlar, Undergraduate, 2019 - 2020
İleri Fizik Uygulamaları II, Undergraduate, 2019 - 2020
Diferansiyel Denklemler ve Dinamik Sistemler, Postgraduate, 2019 - 2020
Kozmoloji, Postgraduate, 2019 - 2020
Kişisel Proje I, Undergraduate, 2019 - 2020
TEMEL FİZİK, Undergraduate, 2020 - 2021
Fizikte Matematiksel Metodlar, Undergraduate, 2019 - 2020
Fizikte Matematiksel Metodlar, Undergraduate, 2018 - 2019
Kozmoloji, Postgraduate, 2018 - 2019
Elektromagnetik Teori, Undergraduate, 2018 - 2019
Elektromagnetik Teori, Undergraduate, 2018 - 2019
Fizikte Diferansiyel Geometri, Postgraduate, 2018 - 2019
Elektromagnetik Teori, Undergraduate, 2018 - 2019
ELEKTROMAGNETİK TEORİ, Undergraduate, 2018 - 2019, 2017 - 2018, 2015 - 2016
Elektromagnetik Teori, Undergraduate, 2018 - 2019
Fizikte Diferansiyel Geometri, Postgraduate, 2018 - 2019
İLERİ ELEKTROMAGNETİK TEORİ, Postgraduate, 2017 - 2018
FİZİKTE MATEMATİKSEL METODLAR, Undergraduate, 2016 - 2017
İLERİ ELEKTROMAGNETİK TEORİ, Postgraduate, 2016 - 2017, 2015 - 2016
TEMEL BİLGİ TEKNOLOJİLERİ, Undergraduate, 2015 - 2016
SUNUM, Postgraduate, 2015 - 2016
DÜZ VE KISMİ TÜREVLİ DİFERANSİYEL DENKLEMLER, Undergraduate, 2015 - 2016, 2013 - 2014
Diferansiyel Denklemler, Undergraduate, 2014 - 2015
FİZİKTE DİFERANSİYEL GEOMETRİ, Postgraduate, 2013 - 2014
İleri Fizik Uygulamaları, Undergraduate, 2013 - 2014
Fizikte Mataematiç Metotlar, Undergraduate, 2013 - 2014
İleri Fizik Uygulamaları, Undergraduate, 2012 - 2013
DÜZ VE KISMİ TÜREVLİ DİFERANSİYEL DENKLEMLER, Undergraduate, 2012 - 2013
DÜZ VE KISMİ TÜREVLİ DİFERANSİYEL DENKLEMLER(II.ÖĞRETİM), Undergraduate, 2012 - 2013
Fizikte Matematik Metotlar (II.ÖĞRETİM), Undergraduate, 2012 - 2013
Fizikte Matematik Metotlar, Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011
MATEMATİKSEL FİZİKTE KISMİ TÜREVLİ DENKLEMLER, Undergraduate, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009
MATEMATİK II, Undergraduate, 2010 - 2011, 2009 - 2010
MATEMATİK I, Undergraduate, 2010 - 2011
MATEMATİK I, Undergraduate, 2010 - 2011, 2009 - 2010
MATEMATİK II, Undergraduate, 2010 - 2011
MATEMATİK II, Undergraduate, 2010 - 2011, 2009 - 2010
MATEMATİK I, Undergraduate, 2010 - 2011, 2009 - 2010
FİZİK II, Undergraduate, 2010 - 2011, 2009 - 2010
MATEMATİK II, Undergraduate, 2010 - 2011, 2009 - 2010
MATEMATİK II, Undergraduate, 2010 - 2011
MATEMATİK I, Undergraduate, 2010 - 2011, 2009 - 2010
MATEMATİK I, Undergraduate, 2010 - 2011
FİZİK I, Undergraduate, 2009 - 2010
Fizikte Matematik Metodlar, Undergraduate, 2009 - 2010
Fizik, Undergraduate, 2008 - 2009

Advising Theses

Güdekli E., Öz Karanlık Enerji İle Kerr Karadeliğinin Gözlemsel Veriler Kullanılarak İncelenmesi, Doctorate, G.Dilara(Student), Continues

Güdekli E., Değiştirilmiş Gravitasyon Teorilerindeki Kozmolojik Büyüklüklerin Dinamik Sistem Analizi, Doctorate, A.Osman(Student), Continues

Güdekli E., Karanlık Enerji Adayları için Genelleştirilmiş Holografik Durum Denklemlerinin İstatistiksel Analizi, Doctorate, E.Demir(Student), Continues

Güdekli E., Alternatif Gravitasyon Teorileri Çerçeveinde Holografik Sıçrama Analizi, Postgraduate, B.Çil(Student), 2024

Güdekli E., Investigation of the Effects of Fluids in Modified Gravitation Theories, Doctorate, A.ÇALIŞKAN(Student), 2024

Chattopadhyay S., Güdekli E., The Study of the Unification of Early Inflation and Late Time Acceleration through Dark Energy and Modified Theories of Gravity, Doctorate, G.CHAKRABORTY(Student), 2023

Güdekli E., Yüksek Mertebeden Eğrilikli Kütleçekim Kuramlarında Homojen Evren Modellerinin Varlığının Araştırılması, Doctorate, S.Güler(Student), 2022

Güdekli E., F(G) Kozmolojisinde Evrim ve Bağ Denklemleri, Postgraduate, N.AKTAY(Student), 2022

Güdekli E., Applications of the Theory of Dynamical Systems in f(R) Gravitation, Postgraduate, G.DİLARA(Student), 2021

Güdekli E., Genel Rölativite Teorisine Karanlık Madde ve Karanlık Enerjiye Alternatif Olacak Şekilde Kızılıtesi Düzeltmeler, Doctorate, D.Can(Student), 2021

Güdekli E., Yüksek mertebeden gravitasyon teorilerinde dinamik sistem analizi, Postgraduate, A.OSMAN(Student), 2021

Güdekli E., Mimetic f(R) Gravity, Postgraduate, E.Demir(Student), 2019

Patent

Emirhan M. E., AKKUŞ B., GÜDEKLİ E., AKINCI F. Ç., Koronavirüs Tespiti İçin Gerçek Zamanlı Ölçüm Cihazı, Patent, CHAPTER A Human Needs, The Invention Recourse Number: 2020-08695 , Standard Registration, 2020

Emirhan M. E., AKKUŞ B., GÜDEKLİ E., AKINCI F. Ç., MİKROORGANİZMA TESPİTİNDE KULLANILMAK ÜZERE MİKROORGANİZMALARIN YAYDIĞI IŞIĞIN ŞİDDETİNİ ARTTIRAN BİR APARAT, Patent, CHAPTER A Human Needs, The Invention Recourse Number: 2019-18275 , Standard Registration, 2019

Emirhan M. E., AKKUŞ B., GÜDEKLİ E., AKINCI F. Ç., HASTANELERDEKİ NOZOKOMİYAL ENFEKSİYON ETKENLERİNİ GERÇEK ZAMANLI ÖLÇMEK ÜZERE BİR CİHAZ, Patent, CHAPTER A Human Needs, The Invention Recourse Number: PT2019-18242 , Standard Registration, 2019

Activities in Scientific Journals

ADVANCES IN ASTRONOMY, Special Issue Editor, 2024 - Continues

Memberships / Tasks in Scientific Organizations

Türk Fizik DERNEĞİ, Member, 2013 - Continues

Scientific Refereeing

NUCLEAR PHYSICS B, SCI Journal, November 2024

EUROPEAN PHYSICAL JOURNAL C, SCI Journal, November 2024

CHINESE PHYSICS C, SCI Journal, November 2024

European Journal of Pure and Applied Mathematics, SCI Journal, November 2024

PHYSICS OF THE DARK UNIVERSE, SCI Journal, October 2024

PHYSICA Scripta, SCI Journal, October 2024
NUCLEAR Physics B, SCI Journal, October 2024
NUCLEAR Physics B, SCI Journal, October 2024
PHYSICS OF THE DARK UNIVERSE, SCI Journal, October 2024
CHINESE Physics C, SCI Journal, October 2024
PHYSICS OF THE DARK UNIVERSE, SCI Journal, September 2024
NUCLEAR Physics B, SCI Journal, September 2024
ANNALEN DER Physik (LEIPZIG), SCI Journal, August 2024
INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN Physics, SCI Journal, August 2024
ASTRONOMY AND COMPUTING, SCI Journal, August 2024
PHYSICS OF THE DARK UNIVERSE, SCI Journal, August 2024
ANNALEN DER Physik (LEIPZIG), SCI Journal, August 2024
Journal of New Theory, Other Indexed Journal, July 2024
INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN Physics, SCI Journal, July 2024
Journal of New Theory, Other Indexed Journal, July 2024
INDIAN JOURNAL OF Physics, SCI Journal, July 2024
INDIAN JOURNAL OF Physics, SCI Journal, June 2024
MODERN Physics LETTERS A, SCI Journal, June 2024
PLOS ONE, SCI Journal, June 2024
COMMUNICATIONS IN THEORETICAL Physics, SCI Journal, May 2024
ANNALEN DER Physik (LEIPZIG), SCI Journal, May 2024
PHYSICS OF THE DARK UNIVERSE, SCI Journal, May 2024
PHYSICS OF THE DARK UNIVERSE, SCI Journal, May 2024
PHYSICS OF THE DARK UNIVERSE, SCI Journal, May 2024
NEW ASTRONOMY, SCI Journal, May 2024
PLOS ONE, SCI Journal, April 2024
NEW ASTRONOMY, SCI Journal, April 2024
CHINESE Physics C, SCI Journal, April 2024
COMMUNICATIONS IN THEORETICAL Physics, SCI Journal, March 2024
COMMUNICATIONS IN THEORETICAL Physics, SCI Journal, March 2024
FORTSCHRITTE DER Physik, SCI Journal, March 2024
NEW ASTRONOMY, SCI Journal, March 2024
NEW ASTRONOMY, SCI Journal, February 2024
INDIAN JOURNAL OF Physics, SCI Journal, January 2024
PHYSICS OF THE DARK UNIVERSE, SCI Journal, January 2024
GENERAL RElativity And Gravitation, SCI Journal, January 2024
EUROPEAN Physical JOURNAL: SPECIAL TOPICS, Journal Indexed in SCI-E, January 2024
GENERAL RElativity And Gravitation, Journal Indexed in SCI-E, December 2023
FORTSCHRITTE DER Physik, Journal Indexed in SCI-E, November 2023
GENERAL RElativity And Gravitation, Journal Indexed in SCI-E, November 2023
Results in Physics, Journal Indexed in SCI-E, October 2023
GENERAL RElativity And Gravitation, SCI Journal, October 2023
PHYSICS OF THE DARK UNIVERSE, Journal Indexed in SCI-E, October 2023
INDIAN JOURNAL OF Physics, SCI Journal, October 2023
INTERNATIONAL JOURNAL OF THEORETICAL Physics, SCI Journal, September 2023
Results in Physics, SCI Journal, September 2023
PHYSICS OF THE DARK UNIVERSE, SCI Journal, September 2023
Journal of New Theory, Other Indexed Journal, September 2023
Journal of New Theory, Other Indexed Journal, September 2023
Journal of New Theory, Other Indexed Journal, June 2023
FOUNDATIONS OF Physics LETTERS, SCI Journal, May 2023

INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, SCI Journal, April 2023
SÜLEYMAN DEMIREL ÜNİVERSİTESİ FEN EDEBİYAT FAKÜLTESİ FEN DERGİSİ = SÜLEYMAN DEMIREL UNIVERSITY
FACULTY OF ARTS AND SCIENCE JOURNAL OF SCIENCE, Other Indexed Journal, March 2023
UNIVERSE, Journal Indexed in SCI-E, March 2023
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, SCI Journal, March 2023
Project Supported by Higher Education Institutions, BAP Research Project, Yildiz Technical University, Turkey, March 2023
ANNALEN DER PHYSIK (LEIPZIG), Journal Indexed in SCI-E, September 2022
Project Supported by Higher Education Institutions, BAP Research Project, Yildiz Technical University, Turkey, April 2022
Journal of New Theory, Other Indexed Journal, March 2022
Project Supported by Higher Education Institutions, BAP Research Project, Dogus University, Turkey, January 2022
Journal of New Theory, Other Indexed Journal, December 2021
Project Supported by Higher Education Institutions, BAP Research Project, Yildiz Technical University, Turkey, July 2021
Cumhuriyet Science Journal, National Scientific Refreed Journal, May 2021
Project Supported by Higher Education Institutions, BAP Research Project, Yildiz Technical University, Turkey, May 2021
Turkish Jornal of Physics, SCI Journal, April 2017
AIP, SCI Journal, December 2015
AIP, Journal Indexed in SSCI, December 2015
Turkish Jornal of Physics, SCI Journal, May 2014
Turkish Jornal of Physics, SCI Journal, November 2013
Balkan Physical Letters, Other Indexed Journal, October 2012

Scientific Consultations

TUBITAK BİDEP, Other, İstanbul University, Faculty Of Science, Department Of Physics, Turkey, 2019 - Continues

Tasks In Event Organizations

Güdekli E., Türk Fizik Derneği XVI. Uluslararası Parçacık Hızlandırıcıları ve Dedektörleri Yaz Okulu, Science / Art Camp or Summer School Organization, Muğla, Turkey, Eylül 2024
Güdekli E., Turkish Physical Society 40th International Physics Congress , Scientific Congress, Muğla, Turkey, Eylül 2024
Güdekli E., Türk Fizik Derneği 9. Fizik Öğrencileri Kongresi ve Şenliği , Scientific Congress, Muğla, Turkey, Eylül 2024
Güdekli E., Sofuoğlu D., Turkish Physical Society 39th International Physics Congress, Scientific Congress, Muğla, Turkey, Eylül 2023
Güdekli E., Türk Fizik Derneği 8. Fizik Öğrencileri Kongresi ve Şenliği , Scientific Congress, Muğla, Turkey, Eylül 2023
Sofuoğlu D., GÜDEKLİ E., T.C. İSTANBUL YENİ YÜZYIL ÜNİVERSİTESİ 9. BİLİM GÜNLERİ KONGRESİ, Scientific Congress, İstanbul, Turkey, Mayıs 2023
Güdekli E., T.C. İSTANBUL YENİ YÜZYIL ÜNİVERSİTESİ 8. BİLİM GÜNLERİ KONGRESİ, Scientific Congress, İstanbul, Turkey, Mayıs 2022
Güdekli E., The International Kuresan Multidisiplinary Studies Congress 2021, Scientific Congress, Turkey, Ekim 2021

Metrics

Publication: 130
Citation (WoS): 368
Citation (Scopus): 378
H-Index (WoS): 10
H-Index (Scopus): 10

Congress and Symposium Activities

International Conference on Relativistic Astrophysics and Cosmology, Invited Speaker, Lahore, Pakistan, 2024
Turkish Physical Society 34th International Physics Congress, Attendee, Muğla, Turkey, 2018
TURKISH PHYSICAL SOCIETY 33h INTERNATIONAL PHYSICAL CONGRESS, Attendee, Muğla, Turkey, 2017
The 3rd International Conference ASTROPHYSICS, GRAVITY AND COSMOLOGY, Attendee, Astana, Kazakhstan, 2016
TURKISH PHYSICAL SOCIETY 32th INTERNATIONAL PHYSICAL CONGRESS, Attendee, Muğla, Turkey, 2016
International Conference on Law and Trade,, Attendee, İSTANBUL, TÜRKİYE, , Turkey, 2015
TURKISH PHYSICAL SOCIETY 31th INTERNATIONAL PHYSICAL CONGRESS, Attendee, Bodrum/Muğla, Turkey, 2014
TURKISH PHYSICAL SOCIETY 29th INTERNATIONAL PHYSICAL CONGRESS, Attendee, Bodrum/Muğla, Turkey, 2012
27 th International Physics Congress, Attendee, İstanbul, Turkey, 2011
MATHEMATICAL PHYSICS Proceedings of the 13th Regional Conference, Attendee, Antalya, Turkey, 2010
International Workshop on Observational Cosmology, Attendee, TUG, Saklıkent, Antalya , Turkey, 2009
Sixth School On Non-Accelerator astroparticle Physics, Attendee, Trieste, Italy, 2001
Summer School in Partical Physics, Attendee, Trieste, Italy, 2001
Summer School in High Energy Physics and Cosmology, Attendee, Trieste, Italy, 1998

Invited Talks

STATE SPACE ANALYSIS OF FRW UNIVERSE WITH MODIFIED CHAPLYGIN GAS, Conference, International Conference on Relativistic Astrophysics and Cosmology, Pakistan, February 2024
International Conference on Recent Trends in Mathematical and Computational Sciences (ICRTMCS 2022), Conference, Department of Mathematics and Department of Statistics, Amity University Kolkata, India, July 2022
ASTROPHYSICS, GRAVITY AND COSMOLOGY, Conference, Gümüşöval Avrasya Üniversitesi, Kazakhstan, November 2016

Research Areas

Differential Equations, Topological Groups, Lie Groups, Physics, Astronomy and Astrophysics, Interdisciplinary Physics and Related Science and Technology Areas, Natural Sciences

Non Academic Experience

Non-profit Organisation, Türk Fizik Derneği
İstanbul Üniversityesi