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Kişisel Bilgiler

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Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: [HCI-7113-2022](https://publons.com/author/102793)

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Eğitim Bilgileri

Doktora, Ondokuz Mayıs Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), Türkiye 2012 - 2018

Lisans, Ondokuz Mayıs Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, Türkiye 2012 - 2016

Yüksek Lisans, Ondokuz Mayıs Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Türkiye 2009 - 2012

Lisans, Ondokuz Mayıs Üniversitesi, Eğitim Fakültesi, Ortaöğretim Fen Ve Matematik Alanlar Eğitimi Bölümü, Türkiye 2003 - 2009

Yaptığı Tezler

Doktora, X(3872) mezonunun pertürbatif olmayan yöntemlerle incelenmesi, Ondokuz Mayıs Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), 2018

Yüksek Lisans, Bafra Kızılırmak deltası toprak örneklerinde doğal gama radyoaktivite ölçümleri, Ondokuz Mayıs Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 2012

Araştırma Alanları

Diferansiyel denklemler, Fizik, Temel Parçacıklar ve Alanlar, Temel Bilimler, Fizik, Yüksek Enerji Fiziği

Akademik Unvanlar / Görevler

Doç. Dr., Ondokuz Mayıs Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2020 - Devam Ediyor

Araştırma Görevlisi, Ondokuz Mayıs Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2009 - 2018

Akademik İdari Deneyim

Ondokuz Mayıs Üniversitesi, 2020 - Devam Ediyor

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Unveiling the structure of hidden-bottom strange pentaquarks via magnetic moments**
Mutuk H., Kang X.
PHYSICS LETTERS B, cilt.855, 2024 (SCI-Expanded)
- II. **Magnetic moments of hidden-bottom pentaquark states**
Mutuk H.
EUROPEAN PHYSICAL JOURNAL C, cilt.84, sa.8, 2024 (SCI-Expanded)
- III. **Masses and magnetic moments of doubly heavy tetraquarks via diffusion Monte Carlo method**
Mutuk H.
European Physical Journal C, cilt.84, sa.4, 2024 (SCI-Expanded)
- IV. **Flavor exotic triply-heavy tetraquark states in AdS/QCD potential**
Mutuk H.
EUROPEAN PHYSICAL JOURNAL C, cilt.83, sa.5, 2023 (SCI-Expanded)
- V. **Molecular interpretation of $X(3960)$ as $D_s(+)$ $D_s(-)$ state**
Mutuk H.
EUROPEAN PHYSICAL JOURNAL C, cilt.82, sa.12, 2022 (SCI-Expanded)
- VI. **Spectrum of $cc(\bar{b})\bar{b}$, $bc(\bar{c})\bar{c}$, and $bc(\bar{b})\bar{b}$ tetraquark states in the dynamical diquark model**
Mutuk H.
PHYSICS LETTERS B, cilt.834, 2022 (SCI-Expanded)
- VII. **Investigation of Λ_{cc} dibaryon in QCD**
Mutuk H., Azizi K.
PHYSICAL REVIEW D, cilt.105, sa.9, 2022 (SCI-Expanded)
- VIII. **Magnetic moments of spin-1/2 triply heavy baryons: a study of light-cone QCD and quark-diquark model**
Mutuk H., Ozdem U.
EUROPEAN PHYSICAL JOURNAL PLUS, cilt.137, sa.4, 2022 (SCI-Expanded)
- IX. **The status of Ξ_{cc} baryon: investigating quark-diquark model**
Mutuk H.
EUROPEAN PHYSICAL JOURNAL PLUS, cilt.137, sa.1, 2022 (SCI-Expanded)
- X. **Quasinormal modes of dS and AdS black holes: Feedforward neural network method**
Ovgun A., Sakalli I., Mutuk H.
INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, cilt.18, sa.10, 2021 (SCI-Expanded)
- XI. **Monte-Carlo based QCD sum rules analysis of $X(2900)$ and $X(2900)$**
Mutuk H.
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, cilt.48, sa.5, 2021 (SCI-Expanded)
- XII. **Nonrelativistic treatment of fully-heavy tetraquarks as diquark-antidiquark states**
Mutuk H.
EUROPEAN PHYSICAL JOURNAL C, cilt.81, sa.4, 2021 (SCI-Expanded)
- XIII. **Prediction of wear properties of graphene-Si₃N₄ reinforced titanium hybrid composites by artificial neural network**
Mutuk T., Gürbüz M., Mutuk H.
MATERIALS RESEARCH EXPRESS, cilt.7, sa.8, 2020 (SCI-Expanded)
- XIV. **A Neural Network Study of Blasius Equation**
Mutuk H.
NEURAL PROCESSING LETTERS, cilt.51, sa.3, ss.2179-2194, 2020 (SCI-Expanded)
- XV. **A study of excited Ω_c^- states in hypercentral constituent quark model via artificial neural network**
Mutuk H.
EUROPEAN PHYSICAL JOURNAL A, cilt.56, sa.5, 2020 (SCI-Expanded)
- XVI. **Spin averaged mass spectrum of heavy quarkonium via asymptotic iteration method**
Mutuk H.

- CANADIAN JOURNAL OF PHYSICS, cilt.97, sa.12, ss.1342-1348, 2019 (SCI-Expanded)
- XVII. **Mass spectrum of exotic X(5568) state via artificial neural network**
Mutuk H.
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, cilt.34, sa.28, 2019 (SCI-Expanded)
- XVIII. **Neural network study of hidden-charm pentaquark resonances**
Mutuk H.
CHINESE PHYSICS C, cilt.43, sa.9, 2019 (SCI-Expanded)
- XIX. **Asymptotic iteration and variational methods for Gaussian potential**
Mutuk H.
PRAMANA-JOURNAL OF PHYSICS, cilt.92, sa.4, 2019 (SCI-Expanded)
- XX. **Energy levels of one-dimensional anharmonic oscillator via neural networks**
Mutuk H.
MODERN PHYSICS LETTERS A, cilt.34, sa.12, 2019 (SCI-Expanded)
- XXI. **Cornell Potential: A Neural Network Approach**
Mutuk H.
ADVANCES IN HIGH ENERGY PHYSICS, cilt.2019, 2019 (SCI-Expanded)
- XXII. **X(3872) and its heavy quark spin symmetry partners in QCD sum rules**
Mutuk H., SARAÇ OYMAK Y., Gumus H., ÖZPİNECİ A.
EUROPEAN PHYSICAL JOURNAL C, cilt.78, sa.11, 2018 (SCI-Expanded)
- XXIII. **S-Wave Heavy Quarkonium Spectra: Mass, Decays, and Transitions**
Mutuk H.
ADVANCES IN HIGH ENERGY PHYSICS, cilt.2018, 2018 (SCI-Expanded)
- XXIV. **Mass Spectra and Decay Constants of Heavy-Light Mesons: A Case Study of QCD Sum Rules and Quark Model**
Mutuk H.
ADVANCES IN HIGH ENERGY PHYSICS, cilt.2018, 2018 (SCI-Expanded)
- XXV. **A Physical Proof for Cauchy's Inequality**
Mutuk H.
AMERICAN MATHEMATICAL MONTHLY, cilt.123, sa.8, ss.843, 2016 (SCI-Expanded)
- XXVI. **Measurement of the terrestrial and anthropogenic radionuclide concentrations in Bafra Kizilirmak delta (bird sanctuary) in Turkey**
Mutuk H., Gumus H., Turhan S.
RADIATION PROTECTION DOSIMETRY, cilt.158, sa.3, ss.350-354, 2014 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Solutions of Second Order Linear Differential Equations via Runge-Kutta, Power Series and Laplace Transformation in Mathematica**
MUTUK H.
İğdir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, cilt.9, ss.2048-2061, 2019 (Hakemli Dergi)
- II. **NEGATION OF BETA FUNCTION**
Mutuk H.
JOURNAL OF SCIENCE AND ARTS, sa.3, ss.617-620, 2018 (ESCI)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Artificial Neural Network Applications in Quantum Mechanics**
MUTUK H.
2nd EMU Physics Days, Kıbrıs (Kktc), 22 - 23 Mart 2019

- II. **TR 83 Bölgesinde İnovasyona Dayalı Rekabet**
MUTUK H., Çakır S.
International Symposium on Multidisciplinary Studies and Innovative Technologies, 2 - 04 Kasım 2017
- III. **Comparison of Some Inventive Problem Solving Methods**
MUTUK H., YAVUZ M.
International Symposium on Multidisciplinary Studies and Innovative Technologies, 2 - 04 Kasım 2017
- IV. **Runge-Kutta Approach to Quantum Harmonic Oscillator**
MUTUK H.
International Workshop on Mathematical Methods in Engineering, Türkiye, 27 - 29 Nisan 2017
- V. **Runge-Kutta Method for Coulomb Potential in Schrödinger Equation**
MUTUK H., GÜMÜŞ H., ERTÜRK V. S.
INTERNATIONAL WORKSHOP ON MATHEMATICAL METHODS IN ENGINEERING, 27 - 29 Nisan 2017
- VI. **Corrections to the Elements of Inverse of a Matrix**
MUTUK H.
Turkish Physical Society 32nd International Physics Congress, Türkiye, 6 - 09 Eylül 2016
- VII. **Revisiting Propagators in Quantum Mechanics**
MUTUK H.
International Conference on Quantum Science and Applications, 25 - 27 Mayıs 2016
- VIII. **SVZ Sum Rules in Quantum Mechanics**
Mutuk H., Gumus H.
International Conference on Quantum Science and Applications (ICQSA), Eskişehir, Türkiye, 25 - 27 Mayıs 2016, cilt.766
- IX. **Introduction to High Energy Physics For Materials Scientists**
MUTUK H.
Advances in Materials and Processing Technologies, 14 - 17 Aralık 2015
- X. **To be or not to be in physics**
MUTUK H.
2nd International Conference on Computational and Experimental Science and Engineering (ICCESEN 2015), Türkiye, 14 - 19 Ekim 2015
- XI. **Shielding Behaviors and Analysis of Mechanical Treatment of Cements Containing Nano sized Powders**
MUTUK H., MUTUK T., GÜMÜŞ H., MESCİ B.
ICCESEN 2015, 14 - 19 Eylül 2015
- XII. **Experimental and theoretical HF and DFT investigation of 2 Ethyl N 5 nitrothiophen 2 yl methylidene aniline**
MUTUK H., CEYLAN Ü., ÖZDEMİR TARI G., AĞAR E.
9th International Physics Conference of the Balkan Physical Union-BPU9, İstanbul, Türkiye, 24 - 27 Ağustos 2015

Desteklenen Projeler

Mutuk H., TÜBİTAK Projesi, Investigation of Isovector States of Charm Sector XYZ Particles, 2022 - 2023
TÜBİTAK Projesi, X 3872 ve Diğer Hadronik Moleküllerin İncelenmesi, 2014 - 2017
Mutuk H., Yükseköğretim Kurumları Destekli Proje, Advances in Materials and Processing Technologies Conference, 2015 - 2016

Burslar

2219 Yurtdışı Doktora Sonrası Araştırma Bursu, TÜBİTAK, 2022 - 2023