

Prof.Dr. ALTUĞ ARDA

Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Mühendisliği Bölümü, Türkiye 1996 - 2003

Lisans, Hacettepe Üniversitesi, Eğitim Fakültesi, Fizik Eğitimi Anabilimdalı, Türkiye 1988 - 1993

Yabancı Diller

İngilizce, B1 Orta

Almanca, B1 Orta

Araştırma Alanları

Fizik, Atom ve Molekül Fiziği, Atomik ve moleküler etkileşimler, Genel Fizik, Fiziğin Matematiksel Yöntemleri, Temel Parçacıklar ve Alanlar , Genel alan ve parçacık teorisi, Temel Bilimler

Akademik Unvanlar / Görevler

Prof.Dr., Hacettepe Üniversitesi, Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi, 2017 - Devam Ediyor

Jüri Üyelikleri

Akademik Kadroya Atama, profesörlük kadrosuna atama, Mersin üniversitesi, Ocak, 2018

Doçentlik Sınavı, doçentlik yayın aşaması, yök doçentlik jürisi, Kasım, 2016

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Bound-state solutions of the Dirac equation for the Kratzer potential with pseudoscalar-Coulomb term**
Arda A., Sever R.
EUROPEAN PHYSICAL JOURNAL PLUS, cilt.134, 2019 (SCI İndekslerine Giren Dergi)
- II. **Analytical solution of two-body spinless Salpeter equation for Hellmann potential**
Arda A.
INDIAN JOURNAL OF PHYSICS, cilt.91, ss.903-907, 2017 (SCI İndekslerine Giren Dergi)
- III. **Feinberg- Horodecki Equation with Pöschl-Teller Potential: Space-like Coherent States**
Arda A., Sever R.
ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, cilt.72, ss.541-545, 2017 (SCI İndekslerine Giren Dergi)

- IV. **Klein-Gordon equation for a charged particle in space-varying electromagnetic fields-A systematic study via the Laplace transform**
 DAS T, Arda A.
 CHINESE JOURNAL OF PHYSICS, cilt.55, ss.310-317, 2017 (SCI İndekslerine Giren Dergi)
- V. **Thermodynamic quantities for the Klein-Gordon equation with a linear plus inverse-linear potential: Biconfluent Heun functions**
 Arda A., Tezcan C., Sever R.
 PRAMANA-JOURNAL OF PHYSICS, cilt.88, 2017 (SCI İndekslerine Giren Dergi)
- VI. **Solution of Effective-Mass Dirac Equation with Scalar-Vector and Pseudoscalar Terms for Generalized Hulthen Potential**
 Arda A.
 ADVANCES IN HIGH ENERGY PHYSICS, 2017 (SCI İndekslerine Giren Dergi)
- VII. **Exact Solutions of Effective-Mass Dirac-Pauli Equation with an Electromagnetic Field**
 Arda A., Sever R.
 FEW-BODY SYSTEMS, cilt.58, 2017 (SCI İndekslerine Giren Dergi)
- VIII. **Schrodinger equation with a non-central potential: Some statistical quantities**
 Arda A., Tezcan C., Sever R.
 EUROPEAN PHYSICAL JOURNAL PLUS, cilt.131, 2016 (SCI İndekslerine Giren Dergi)
- IX. **Klein-Gordon and Dirac Equations with Thermodynamic Quantities**
 Arda A., Tezcan C., Sever R.
 FEW-BODY SYSTEMS, cilt.57, ss.93-101, 2016 (SCI İndekslerine Giren Dergi)
- X. **Effective Mass Quantum Systems with Displacement Operator: Inverse Square Plus Coulomb-Like Potential**
 Arda A., Sever R.
 FEW-BODY SYSTEMS, cilt.56, ss.697-702, 2015 (SCI İndekslerine Giren Dergi)
- XI. **Approximate Solutions of Dirac Equation with Hyperbolic-Type Potential**
 Arda A., Sever R.
 COMMUNICATIONS IN THEORETICAL PHYSICS, cilt.64, ss.269-273, 2015 (SCI İndekslerine Giren Dergi)
- XII. **Exact Analytical Solution of the N-Dimensional Radial Schrodinger Equation with Pseudoharmonic Potential via Laplace Transform Approach**
 DAS T., Arda A.
 ADVANCES IN HIGH ENERGY PHYSICS, 2015 (SCI İndekslerine Giren Dergi)
- XIII. **PT-/non-PT-symmetric and non-Hermitian Hellmann potential: approximate bound and scattering states with any l-values**
 Arda A., Sever R.
 PHYSICA SCRIPTA, cilt.89, 2014 (SCI İndekslerine Giren Dergi)
- XIV. **Step-up and Step-down Operators of a Two-Term Molecular Potential Via Nikiforov-Uvarov Method**
 Arda A., Sever R.
 FEW-BODY SYSTEMS, cilt.55, ss.265-271, 2014 (SCI İndekslerine Giren Dergi)
- XV. **Pseudospin and Spin Symmetric Solutions of the Dirac Equation: Hellmann Potential, Wei-Hua Potential, Varshni Potential**
 Arda A., Sever R.
 ZEITSCHRIFT FUR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, cilt.69, ss.163-172, 2014 (SCI İndekslerine Giren Dergi)
- XVI. **Approximate Analytical Solutions of the Dirac Equation for Yukawa Potential Plus Tensor Interaction with Any kappa-Value**
 Arda A., Sever R.
 FEW-BODY SYSTEMS, cilt.54, ss.1829-1837, 2013 (SCI İndekslerine Giren Dergi)
- XVII. **Scattering of a spinless particle by an asymmetric Hulthen potential within the effective mass formalism**
 Aydogdu O., Arda A., Sever R.

- JOURNAL OF MATHEMATICAL PHYSICS, cilt.53, 2012 (SCI İndekslerine Giren Dergi)
- XVIII. EXACT SPIN AND PSEUDO-SPIN SYMMETRIC SOLUTIONS OF THE DIRAC-KRATZER PROBLEM WITH A TENSOR POTENTIAL VIA LAPLACE TRANSFORM APPROACH**
Arda A., Sever R.
MODERN PHYSICS LETTERS A, cilt.27, 2012 (SCI İndekslerine Giren Dergi)
- XIX. Approximate analytical solutions of a two-term diatomic molecular potential with centrifugal barrier**
Arda A., Sever R.
JOURNAL OF MATHEMATICAL CHEMISTRY, cilt.50, ss.1920-1930, 2012 (SCI İndekslerine Giren Dergi)
- XX. Exact Solutions of the Morse-like Potential, Step-Up and Step-Down Operators via Laplace Transform Approach**
Arda A., Sever R.
COMMUNICATIONS IN THEORETICAL PHYSICS, cilt.58, ss.27-30, 2012 (SCI İndekslerine Giren Dergi)
- XXI. Non-central potentials, exact solutions and Laplace transform approach**
Arda A., Sever R.
JOURNAL OF MATHEMATICAL CHEMISTRY, cilt.50, ss.1484-1494, 2012 (SCI İndekslerine Giren Dergi)
- XXII. Exact solutions of the Schrodinger equation via Laplace transform approach: pseudoharmonic potential and Mie-type potentials**
Arda A., Sever R.
JOURNAL OF MATHEMATICAL CHEMISTRY, cilt.50, ss.971-980, 2012 (SCI İndekslerine Giren Dergi)
- XXIII. Effective-mass Dirac equation for Woods-Saxon potential: Scattering, bound states, and resonances**
Aydogdu O., Arda A., Sever R.
JOURNAL OF MATHEMATICAL PHYSICS, cilt.53, 2012 (SCI İndekslerine Giren Dergi)
- XXIV. Effective-mass Klein-Gordon-Yukawa problem for bound and scattering states**
Arda A., Sever R.
JOURNAL OF MATHEMATICAL PHYSICS, cilt.52, 2011 (SCI İndekslerine Giren Dergi)
- XXV. Scattering and bound state solutions of the asymmetric Hulthen potential**
Arda A., Aydogdu O., Sever R.
PHYSICA SCRIPTA, cilt.84, 2011 (SCI İndekslerine Giren Dergi)
- XXVI. Bound State Solutions of Schrodinger Equation for Generalized Morse Potential with Position-Dependent Mass**
Arda A., Sever R.
COMMUNICATIONS IN THEORETICAL PHYSICS, cilt.56, ss.51-54, 2011 (SCI İndekslerine Giren Dergi)
- XXVII. Effective-mass Klein-Gordon equation for non-PT/non-Hermitian generalized Morse potential**
Arda A., Sever R.
PHYSICA SCRIPTA, cilt.82, 2010 (SCI İndekslerine Giren Dergi)
- XXVIII. Scattering of the Woods-Saxon potential in the Schrodinger equation**
Arda A., Aydogdu O., Sever R.
JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL, cilt.43, 2010 (SCI İndekslerine Giren Dergi)
- XXIX. Approximate analytical solutions of the effective mass Dirac equation for the generalized Hulth,n potential with any kappa-value**
Arda A., Sever R., Tezcan C.
CENTRAL EUROPEAN JOURNAL OF PHYSICS, cilt.8, ss.843-849, 2010 (SCI İndekslerine Giren Dergi)
- XXX. New exact solution of the one-dimensional Dirac equation for the Woods-Saxon potential within the effective mass case**
PANELLA O., BIONDINI S., Arda A.
JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL, cilt.43, 2010 (SCI İndekslerine Giren Dergi)
- XXXI. Effective Mass Schrodinger Equation via Point Canonical Transformation**
Arda A., Sever R.
CHINESE PHYSICS LETTERS, cilt.27, 2010 (SCI İndekslerine Giren Dergi)
- XXXII. Effective Mass Dirac-Morse Problem with any kappa-value**
Arda A., Sever R., Tezcan C., Akcay H.

- CHINESE PHYSICS LETTERS, cilt.27, 2010 (SCI İndekslerine Giren Dergi)
- XXXIII. **Approximate Pseudospin and Spin Solutions of the Dirac Equation for a Class of Exponential Potentials**
Arda A., Sever R., Tezcan C.
CHINESE JOURNAL OF PHYSICS, cilt.48, ss.27-37, 2010 (SCI İndekslerine Giren Dergi)
- XXXIV. **Analytical Solutions to the Klein-Gordon Equation with Position-Dependent Mass for q-Parameter Poschl-Teller Potential**
Arda A., Sever R., Tezcan C.
CHINESE PHYSICS LETTERS, cilt.27, 2010 (SCI İndekslerine Giren Dergi)
- XXXV. **Approximate analytical solutions of the pseudospin symmetric Dirac equation for exponential-type potentials**
Arda A., Sever R., Tezcan C.
ANNALEN DER PHYSIK, cilt.18, ss.736-746, 2009 (SCI İndekslerine Giren Dergi)
- XXXVI. **Exact Solutions of Effective Mass Dirac Equation with Non-PT-Symmetric and Non-Hermitian Exponential-type Potentials**
Arda A., Sever R.
CHINESE PHYSICS LETTERS, cilt.26, 2009 (SCI İndekslerine Giren Dergi)
- XXXVII. **APPROXIMATE I-STATE SOLUTIONS TO THE KLEIN-GORDON EQUATION FOR MODIFIED WOODS-SAXON POTENTIAL WITH POSITION DEPENDENT MASS**
Arda A., Sever R.
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, cilt.24, ss.3985-3994, 2009 (SCI İndekslerine Giren Dergi)
- XXXVIII. **APPROXIMATE I-STATE SOLUTIONS OF A SPIN-0 PARTICLE FOR WOODS-SAXON POTENTIAL**
Arda A., Sever R.
INTERNATIONAL JOURNAL OF MODERN PHYSICS C, cilt.20, ss.651-665, 2009 (SCI İndekslerine Giren Dergi)
- XXXIX. **Approximate Solution of the Effective Mass Klein-Gordon Equation for the Hulthen Potential with Any Angular Momentum**
Arda A., Sever R.
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS, cilt.48, ss.945-951, 2009 (SCI İndekslerine Giren Dergi)
- XL. **Approximate analytical solutions of the Klein-Gordon equation for the Hulthen potential with the position-dependent mass**
Arda A., Sever R., Tezcan C.
PHYSICA SCRIPTA, cilt.79, 2009 (SCI İndekslerine Giren Dergi)
- XLI. **Bound states of the Klein-Gordon equation for Woods-Saxon potential with position dependent mass**
Arda A., Sever R.
INTERNATIONAL JOURNAL OF MODERN PHYSICS C, cilt.19, ss.763-773, 2008 (SCI İndekslerine Giren Dergi)
- XLII. **Quantum mechanical treatment of the problem of constraints in non-extensive formalism revisited**
BAGCI G. B. , Arda A., Sever R.
MODERN PHYSICS LETTERS B, cilt.21, ss.981-985, 2007 (SCI İndekslerine Giren Dergi)
- XLIII. **On the problem of constraints in nonextensive formalism: A quantum mechanical treatment**
Bagci G. B. , Arda A., Sever R.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, cilt.20, ss.2085-2092, 2006 (SCI İndekslerine Giren Dergi)
- XLIV. **The forward-backward asymmetry in the $B \rightarrow \pi l^{(+)}l^{(-)}$ decay**
Arda A.
MODERN PHYSICS LETTERS A, cilt.20, ss.2925-2935, 2005 (SCI İndekslerine Giren Dergi)
- XLV. **Sensitivity of the zero position of the forward-backward asymmetry to new physics effects in the $B \rightarrow K^* \mu^{(+)} \mu^{(-)}$ decay**
Arda A., BOZ M.
PHYSICAL REVIEW D, cilt.66, 2002 (SCI İndekslerine Giren Dergi)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Non-Relativistic Phase Shifts via Laplace Transform Approach**
ARDA A., DAS T.
Bulgarian Journal of Physics, cilt.44, ss.221-230, 2017 (Diğer Kurumların Hakemli Dergileri)
- II. **Triangular quantum profiles: transmission probability and energy spectrum**
Arda A.
TURKISH JOURNAL OF PHYSICS, cilt.41, ss.72-80, 2017 (ESCI İndekslerine Giren Dergi)
- III. **The Zero Position of the Forward-Backward Asymmetry in the $B \rightarrow K\ell+\ell^-$ Decay with New Physics Effects**
ARDA A.
TURKISH JOURNAL OF PHYSICS, ss.349, 2004 (Diğer Kurumların Hakemli Dergileri)
- IV. **The Hypervirial Pade Summation Method Applied to the Anharmonic Oscillator**
ARDA A.
Turkish Journal of Physics, ss.223, 2004 (Diğer Kurumların Hakemli Dergileri)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Relativistic Approximate Solutions for a Two-Term Potential: Riemann-Type Equation**
ARDA A.
International Conference on Quantum Science and Applications (ICQSA), Eskişehir, Türkiye, 25 - 27 Mayıs 2016, cilt.766

Desteklenen Projeler

ARDA A., Yükseköğretim Kurumları Destekli Proje, Schrödinger ve Feinberg-Horodecki Denklemlerinin Bazı Potansiyel Alanları İçin Analitik Çözümleri, 2016 - 2017

Bilimsel Hakemlikler

Modern Physics Letters A, SCI Kapsamındaki Dergi, Haziran 2018
Advances in High Energy physics, SCI Kapsamındaki Dergi, Haziran 2018
Sri Lanken Journal of Physics, Diğer İndekslerce Taranan Dergi, Ocak 2018
Modern Physics Letters A, SCI Kapsamındaki Dergi, Ocak 2018

Davetli Kongre ve Sempozyum Faaliyetleri

International Conference on Quantum Science and Applications, Katılımcı, Eskişehir, Türkiye, 2016
The XXIst International Conference on Integrable Systems and Quantum Symmetries, Katılımcı, Praha, Çek Cumhuriyeti, 2013

Atıflar

Toplam Atıf Sayısı (WOS):506

h-indeksi (WOS):14