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Eğitim Bilgileri

Doktora, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, Türkiye 2003 - 2008

Yüksek Lisans, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, Türkiye 1999 - 2002

Lisans, Marmara Üniversitesi, Fen - Edebiyat Fakültesi, Fizik Bölümü, Türkiye 1995 - 1999

Yaptığı Tezler

Doktora, Elektron-iyon birleşmesi ve elektron-iyon çarpışmalı iyonlaşma, gaz fazında otoiyonlaşmaya karşı kararlı dianyonlar, dikatyonlar ve coulomb patlaması, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), 2008

Yüksek Lisans, Birinci mertebeden taban ve son hal korelasyonlarının titanium atomunun geçiş genliklerine etkileri, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Yl) (Tezli), 2002

Araştırma Alanları

Fizik, Yoğun Madde 1:Yapısal, Mekanik ve Termal Özellikler , Katı ve sıvı yapılar, kristalografi, Yoğun maddede elektronik olmayan taşınım özellikleri, Temel Bilimler

Akademik Unvanlar / Görevler

Doç.Dr., Marmara Üniversitesi, Fen - Edebiyat Fakültesi, Fizik Bölümü, 2018 - Devam Ediyor

Yrd.Doç.Dr., Marmara Üniversitesi, Fen - Edebiyat Fakültesi, Fizik Bölümü, 2011 - 2018

Araştırma Görevlisi, Marmara Üniversitesi, Fen - Edebiyat Fakültesi, Fizik Bölümü, 2001 - 2011

Yönetilen Tezler

YUMAK YAŞI A., YAŞI U., Pozitron annihilasyon ömür spektroskopisi kullanılarak pamam dendrimerlerinin serbest hacim incelemesi, Yüksek Lisans, H.Kılç(Öğrenci), 2019

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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Proton pathways via free volumes: A positron annihilation lifetime spectroscopy (PALS) investigation of proton conductivity in SPEEK-PEG-TMOS composites**
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- II. **Free-Volume analysis of PAMAM dendrimers by means of positron annihilation lifetime spectroscopy**
Yumak Yahsi A., Uzun H., Altunkaya A. N., Unalkizilirmak A., TÜLÜ M., TAV C., YAHŞI U.
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- III. **Dielectric relaxation time of PVAc in terms of hole fraction calculated from the theory of Simha-Somcynsky**
YUMAK YAHŞI A., Almashayek A., YAHŞI U.
Polymer, cilt.295, 2024 (SCI-Expanded)
- IV. **Optical and photoluminescence spectroscopy analysis and Doppler broadening annihilation radiation studies of perovskites based on La_{1-X}Ni_XMnO_{2.75} thin layers**
Arrar A., Benhaliliba M., Boukhachem A., YAHŞI U., TAV C., Yumak A., Amlouk M.
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- V. **Doping-induced stability in vanadium-doped ZnO quantum well wires (QWW): Combination of DFT calculations within experimental measurements**
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- VI. **Effect of europium content on physical properties of In₂O₃ thin films for sensitivity and optoelectronic applications**
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- VII. **Microstructural and optical properties of SnO₂-ZnSnO₃ ceramics**
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CERAMICS INTERNATIONAL, cilt.42, sa.5, ss.6273-6281, 2016 (SCI-Expanded)
- VIII. **Europium incorporation dynamics and some physical investigations within ZnO sprayed thin films**
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- IX. **INVESTIGATION OF RARE EARTH TEMPERATUREDEPENDENT PHYSICAL AND CHEMICAL ADSORPTION PROCESS CASE OF DYSPROSIUM ION**
YUMAK A.
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- X. **Physical investigations on perovskite LaMnO₃-delta sprayed thin films for spintronic applications**
Boukhachem A., Ziouche A., Ben Amor M., Kamoun O., Zergoug M., Maghraoui-Meherzi H., Yumak A., Boubaker K., Amlouk M.
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- XI. **Structural, optical and conductivity investigations on kappa-Al₂O₃ ceramics for powder metallurgical production and sensitivity applications**
Arifa H., Boukhachem A., Askri B., Boubaker K., Yumak A., Raouadi K.
CERAMICS INTERNATIONAL, cilt.42, sa.2, ss.2147-2157, 2016 (SCI-Expanded)
- XII. **Europium doping-induced stability and quantum confinement effect in ZnO quantum well wires QWW: Electronic structure calculation and material structural investigation in terms of band-gap shift**
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MATERIALS LETTERS, cilt.164, ss.89-92, 2016 (SCI-Expanded)
- XIII. **Common and different doping patterns within photo-reactive complexes of Co²⁺ in Bi₁₂SiO₂₀ and Co³⁺ in Bi₁₂TiO₂₀**
Petkova P., Boubaker K., Vasilev P., Mustafa M., YUMAK YAHŞI A., Bachvarova D.

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- XIV. **Pure and zirconium-doped manganese(II,III) oxide: Investigations on structural and conduction-related properties within the Lattice Compatibility Theory scope**
 Ben Said L., Larbi T., Yumak A., Boubaker K., Amlouk M.
 MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, cilt.40, ss.224-229, 2015 (SCI-Expanded)
- XV. **Structural, optical, vibrational and photoluminescence studies of Sn-doped Mo₃ sprayed thin films**
 Boukhachem A., Kamoun O., Mrabet C., Mannai C., Zouaghi N., Yumak A., Boubaker K., Amlouk M.
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- XVI. **An attempt to give exact solitary and periodic wave polynomial solutions to the nonlinear Klein-Gordon-Schrodinger equations**
 Yumak A., Boubaker K., Petkova P.
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- XVII. **Stability and morphology-dependence of Sc³⁺ ions incorporation and substitution kinetics within ZnO host lattice**
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- XVIII. **Molecular structure stability of short-chain chlorinated paraffins (SCCPs): Evidence from lattice compatibility and Simha-Somcynsky theories**
 Yumak A., Boubaker K., Petkova P., Yahsi U.
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- XIX. **Effect of Mn content on structural, optical, opto-thermal and electrical properties of ZnO:Mn sprayed thin films compounds**
 Mimouni R., Kamoun O., Yumak A., Mhamdi A., Boubaker K., Petkova P., Amlouk M.
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- XX. **Impedance spectroscopy and sensors under ethanol vapors application of sprayed vanadium-doped ZnO compounds**
 Mhamdi A., Labidi A., Souissi B., Kahlaoui M., Yumak A., Boubaker K., Amlouk A., Amlouk M.
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- XXI. **Low-cost spray-processed Ag_{1-x}Cu_xInS₂ nano-films: Structural and functional investigation within the Lattice Compatibility Theory framework**
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- XXII. **Physical investigations on NiMn₂O₄ sprayed magnetic spinel for sensitivity applications**
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- XXIII. **Relaxation time of polypropylene glycol and polypropylene glycol dimethylether-like polymers in terms of fluid-phase temperature and pressure dependent hole fraction**
 YAHŞI U., Coskun B., YUMAK YAHŞI A., Boubaker K., TAV C.
 EUROPEAN POLYMER JOURNAL, cilt.68, ss.226-232, 2015 (SCI-Expanded)
- XXIV. **Structural, optical and AC conductivity studies on alloy ZnO-Zn₂SnO₄ (ZnO-ZTO) thin films**
 Dridi R., Saafi I., Mhamdi A., Matri A., Yumak A., Lakhdar M. H., Amlouk A., Boubaker K., Amlouk M.
 JOURNAL OF ALLOYS AND COMPOUNDS, cilt.634, ss.179-186, 2015 (SCI-Expanded)
- XXV. **Electrosynthesis and study of some physical properties of conductive and solid-state gas sensing polydiphenylamine**
 Boukhachem A., Yumak A., Krichen S., Madani A., Abderrabba M., Petkova P., Boubaker K., Amlouk M., Bouchriha H.
 SENSORS AND ACTUATORS A-PHYSICAL, cilt.227, ss.11-20, 2015 (SCI-Expanded)
- XXVI. **Lattice Compatibility Theory LCT investigations on sulfur-oxygen substitution during Sb₂S₃-Sb₂O₃ crystals growth**
 Colantoni A., Longo L., Boubaker K., Monarca D., Cecchini M., Cividino S., Yumak A., Biondi P., Di Giacinto S., Menghini G.

- MATERIALS RESEARCH EXPRESS, cilt.2, sa.3, 2015 (SCI-Expanded)
- XXVII. **Optical Physical Chemical and Electrical Properties of Nickel Oxide Sprayed Thin Films under Tin Doping Effects**
Amor M. B., Hamzaoui N., Boukhachem A., Mrabet C., Ghamnia M., YUMAK A., Boubaker K., Petkova P., Amlouk M.
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- XXVIII. **Two small thermodynamically stable organic dications**
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- XXIX. **Electron-impact ionization of atomic ions in the Na isoelectronic sequence**
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- XXX. **Dielectronic recombination data for dynamic finite-density plasmas - XIII. The magnesium isoelectronic sequence**
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- XXXI. **Dielectronic recombination data for dynamic finite-density plasmas - XI. The sodium isoelectronic sequence**
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- XXXII. **Open shell dianions likely to be stable in the gas phase with respect to autoionization**
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- XXXIII. **Tetrahedral sulfur-based dianions stable in the gas phase: Application of the Cederbaum-Dreuw design principles**
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- XXXIV. **Erratum Dielectronic recombination data for dynamic finite density plasmas VI The boron isoelectronic sequence**
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Düger Dergilerde Yayınlanan Makaleler

- I. **Baş Boyun Radyoterapisinde Farklı Tedavi Teknikleri İle SimultaneIntegre Boost Yönteminin Karşılaştırılması**
Coşkun B., YUMAK YAHSİ A., OKUMUŞ A., AKTAŞ Ş., TOKATLI Z. F.
Marmara Fen Bilimleri Dergisi, cilt.1, ss.20-28, 2017 (Hakemli Dergi)

Kitap & Kitap Bölümleri

- I. **FİZİK, Fen ve Mühendislik için Teknoloji Güncellemeli, Serway, Jewett,, CİLT 1, Mekanik/Dalgalar/Termodinamik**
Yahşi U., Saçlı Ö. A., Keskin S. S., Tav C., Dumludağ F., Yumak Yahşi A., Avgın İ.
Palme Yayın Dağıtım, İstanbul, 2021

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. A Novel Approach Enabling Atomic Scale Characterization for Li-on Battery Components probed by Positron Annihilation Lifetime Spectroscopy (PALS)
BAKAR R., KOÇ S., YUMAK YAHSİ A., YAHSİ U.
7th Int. Symp on Materials for Energy Storage and Conversion & 11th Int. Conference on Nanomaterials and Advanced Energy Storage Systems, Muğla, Türkiye, 17 Temmuz 2023
- II. Temperature and Pressure Dependent Relaxation of Polymers In Terms of Free Volume Fraction
YAHSİ U., ÇOKSKUN B., YUMAK YAHSİ A., TAV C.
Uluslararası Katılımlı VII. Polimer Bilim ve Teknoloji Kongresi (Polimer 2018), Eskişehir, Türkiye, 9 - 12 Eylül 2018
- III. The Surface Gradient Profile of Free Volume of PS, PMMA, and SAN using Simha-Somcynsky and Cahn-Hilliard Theories
YUMAK YAHSİ A., YAHSİ U., TAV C., KÜZECİ S.
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- IV. The Surface Gradient Profile of Free Volume of PS, PMMA, and SAN using Simha-Somcynsky and Cahn-Hilliard Theories
YUMAK YAHSİ A., KUZECİ S., TAV C., YAHSİ U.
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- V. Infrared Spectroscopy of Undoped and Cu-doped (80-x)Sb₂O₃-20Li(2)O-xMoO₃(3) Glasses
Petkova P., Boubaker K., Vasilev P., Mustafa M., Yumak A., Touihri H., Soltani M. T.
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- VI. Dielectronic Recombination in He like Li like and Be like Iodine and KLM Resonances
BLEDA E. A., YUMAK YAHSİ A., YAVUZ İ., ALTUN Z.
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- VII. Dielectronic Recombination in He-like, Li-like and Be-like Yttrium and KLM Resonances
Yumak A., Karakas V., ALTUN Z.
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- VIII. Dielectric Recombination Rate Coefficients of B-Like C (OTURUM NO: 01_OP67)
YUMAK YAHSİ A., YAVUZ İ., BLEDA E. A., KARAKAŞ V., ALTUN Z.
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- IX. Dielectronic Recombination in He like Li like and Be like Bismuth and KLM Resonances
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- X. Dielectronic recombination rate coefficients of B like C
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- XI. RECOMBINATION RATE COEFFICIENTS of Li LIKE SULFUR Ref 227
YAVUZ İ., YUMAK YAHSİ A., BLEDA E. A., ALTUN Z.
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- XII. ELECTRON IMPACT IOIZATION of Li LIKE SILICON Ref 722
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- XIII. Recombination Rate Coefficients of Be Like Sulfur
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- XIV. **Recombination Rate Coefficients of Li Like Sulfur**
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- XV. **Level resolved distorted wave cross sections of electron impact ionization of Ar5**
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- XVI. **Electron-Impact Ionization of Atomic Ions: Theoretical Results**
Loch S. D., Burgos J. M. M., Ballance C. P., Ludlow J., Lee T. -, Fogle M., Pindzola M. S., Griffin D. C., Yumak A., Yavuz I., et al.
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- XVII. **Can Small Organic Cations Bind Protons**
YUMAK A., Trindle C., ALTUN Z.
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- XVIII. **Resonances in rate coefficients of Na like Sulphur**
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- XIX. **Excitation Ionization Cross Section Na Like Tin**
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- XX. **Resonances in The Velocity Averaged Dielectronic Recombination Cross Section for Mg like Fe**
YUMAK A., ÇİFTÇİOĞLU G. A., YAVUZ İ., ALTUN Z.
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- XXI. **Dielectronic Recombination for K14 Ca15 and Sc16 from Ground Plus Metastable States**
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Desteklenen Projeler

Tav C., Uzun H., Yumak Yahsi A., Yahsi U., Yükseköğretim Kurumları Destekli Proje, Pozitron Anihilasyon Spektroskopisi Kullanılarak PAMAM Dendrimerlerinin Boşluk Yapısının İncelenmesi, 2018 - 2021
Dumludağ F., Yahsi U., Altun Z., Aktaş Ş., Esmer K., Tav C., Özdemir M., Akkoyunlu B. O., Yumak Yahsi A., Alevli M., et al., Yükseköğretim Kurumları Destekli Proje, İleri Modern Fizik Laboratuvarı (FEN-E-120613-0265), 2013 - 2017

Metrikler

Yayın: 59
Atıf (WoS): 497
Atıf (Scopus): 525
H-İndeks (WoS): 13
H-İndeks (Scopus): 12

Akademi Dışı Deneyim

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