

## Doç. Dr. AYŞE YUMAK YAHŞI

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Yoksis Araştırmacı ID: 101223

### 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 (YI) (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 Fakültesi, Fizik Bölümü, 2022 - Devam Ediyor

Doç. Dr., Marmara Üniversitesi, Fen - Edebiyat Fakültesi, Fizik Bölümü, 2018 - 2022

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

YUMAK YAHŞI A., Okumuş A., Baş boyun radyoterapisinde farklı tedavi tekniklerinde simultane integre boost yönteminin karşılaştırılması, Doktora, B.Coşkun(Öğrenci), 2016

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Correlation of proton conductivity and free volume in sulfonated polyether ether ketone electrolytes: A positron annihilation lifetime spectroscopy study**  
Lahmuni M., Yilmazoğlu M., ABACI U., Coban O., YUMAK YAŞI A., TAV C., YAŞI U.  
Radiation Physics and Chemistry, cilt.226, 2025 (SCI-Expanded)
- II. **A novel approach for the atomic scale characterization of Li-ion battery components probed by positron annihilation lifetime spectroscopy**  
Bakar R., Koc S., YUMAK YAŞI A., TAV C., YAŞI U.  
Materials Research Bulletin, cilt.180, 2024 (SCI-Expanded)
- III. **Proton pathways via free volumes: A positron annihilation lifetime spectroscopy (PALS) investigation of proton conductivity in SPEEK-PEG-TMOS composites**  
Yilmazoğlu M., ABACI U., Okkay H., Yahsi A., TAV C., YAŞI U.  
Colloids and Surfaces A: Physicochemical and Engineering Aspects, cilt.687, 2024 (SCI-Expanded)
- IV. **Free-Volume analysis of PAMAM dendrimers by means of positron annihilation lifetime spectroscopy**  
Yumak Yahsi A., Uzun H., Altunkaya A. N., Unalkizilirmak A., TULÜ M., TAV C., YAŞI U.  
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- V. **Dielectric relaxation time of PVAc in terms of hole fraction calculated from the theory of Simha-Somcynsky**  
YUMAK YAŞI A., Almashayek A., YAŞI U.  
Polymer, cilt.295, 2024 (SCI-Expanded)
- VI. **Optical and photoluminescence spectroscopy analysis and Doppler broadening annihilation radiation studies of perovskites based on La<sub>1-x</sub>Ni<sub>x</sub>Mn<sub>0.75</sub> thin layers**  
Arrar A., Benhaliliba M., Boukhachem A., YAŞI U., TAV C., Yumak A., Amlouk M.  
OPTIK, cilt.224, 2020 (SCI-Expanded)
- VII. **Doping-induced stability in vanadium-doped ZnO quantum well wires (QWW): Combination of DFT calculations within experimental measurements**  
Yumak A., Goumri-Said S., Khan W., Boubaker K., Petkova P.  
SOLID STATE SCIENCES, cilt.57, ss.33-37, 2016 (SCI-Expanded)
- VIII. **Effect of europium content on physical properties of In<sub>2</sub>O<sub>3</sub> thin films for sensitivity and optoelectronic applications**  
Kamoun O., Boukhachem A., Mrabet C., Yumak A., Petkova P., Boubaker K., Amlouk M.  
BULLETIN OF MATERIALS SCIENCE, cilt.39, sa.3, ss.777-788, 2016 (SCI-Expanded)
- IX. **Microstructural and optical properties of SnO<sub>2</sub>-ZnSnO<sub>3</sub> ceramics**  
Saafi I., Dridi R., Mimouni R., Amlouk A., Yumak A., Boubaker K., Petkova P., Amlouk M.  
CERAMICS INTERNATIONAL, cilt.42, sa.5, ss.6273-6281, 2016 (SCI-Expanded)
- X. **Europium incorporation dynamics and some physical investigations within ZnO sprayed thin films**  
Kamoun O., Boukhachem A., Yumak A., Petkova P., Boubaker K., Amlouk M.  
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, cilt.43, ss.8-16, 2016 (SCI-Expanded)
- XI. **INVESTIGATION OF RARE EARTH TEMPERATUREDEPENDENT PHYSICAL AND CHEMICAL ADSORPTION PROCESS CASE OF DYSPROSIUM ION**  
YUMAK A.  
Journal of Materials Science and Engineering with Advanced Technology, cilt.13, ss.1-12, 2016 (SCI-Expanded)
- XII. **Physical investigations on perovskite LaMnO<sub>3</sub>-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.  
MATERIALS RESEARCH BULLETIN, cilt.74, ss.202-211, 2016 (SCI-Expanded)
- XIII. **Structural, optical and conductivity investigations on kappa-Al<sub>2</sub>O<sub>3</sub> 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)

- XIV. **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**  
Yumak A., Yahsi U., Petkova P., Boubaker K.  
MATERIALS LETTERS, cilt.164, ss.89-92, 2016 (SCI-Expanded)
- XV. **Common and different doping patterns within photo-reactive complexes of Co<sup>2+</sup> in Bi<sub>12</sub>SiO<sub>20</sub> and Co<sup>3+</sup> in Bi<sub>12</sub>TiO<sub>20</sub>**  
Petkova P., Boubaker K., Vasilev P., Mustafa M., YUMAK YAHŞI A., Bachvarova D.  
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- XVI. **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)
- XVII. **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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- XVIII. **Structural, optical, vibrational and photoluminescence studies of Sn-doped MoO<sub>3</sub> sprayed thin films**  
Boukhachem A., Kamoun O., Mrabet C., Mannai C., Zouaghi N., Yumak A., Boubaker K., Amlouk M.  
MATERIALS RESEARCH BULLETIN, cilt.72, ss.252-263, 2015 (SCI-Expanded)
- XIX. **Stability and morphology-dependence of Sc<sup>3+</sup> ions incorporation and substitution kinetics within ZnO host lattice**  
Yumak A., TURGUT G., Kamoun O., ÖZİŞİK H., DELİĞÖZ E., Petkova P., Mimouni R., Boubaker K., Amlouk M., Goumri-Said S.  
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- XX. **Molecular structure stability of short-chain chlorinated paraffins (SCCPs): Evidence from lattice compatibility and Simha-Somcynsky theories**  
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- XXI. **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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- XXII. **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.  
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.639, ss.648-658, 2015 (SCI-Expanded)
- XXIII. **Low-cost spray-processed Ag<sub>1-x</sub>Cu<sub>x</sub>InS<sub>2</sub> nano-films: Structural and functional investigation within the Lattice Compatibility Theory framework**  
Gherouel D., Yumak A., Znaidi M., Bouzidi A., Boubaker K., Yacoubi N., Amlouk M.  
MATERIALS RESEARCH BULLETIN, cilt.68, ss.80-86, 2015 (SCI-Expanded)
- XXIV. **Physical investigations on NiMn<sub>2</sub>O<sub>4</sub> sprayed magnetic spinel for sensitivity applications**  
Larbi T., Amara A., Ouni B., Inoubli A., Karyaooui M., Yumak A., Saadallah F., Boubaker K., Amlouk M.  
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, cilt.387, ss.139-146, 2015 (SCI-Expanded)
- XXV. **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.  
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- XXVI. **Structural, optical and AC conductivity studies on alloy ZnO-Zn<sub>2</sub>SnO<sub>4</sub> (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)
- XXVII. **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.  
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- XXVIII. **Lattice Compatibility Theory LCT investigations on sulfur-oxygen substitution during Sb<sub>2</sub>S<sub>3</sub>-Sb<sub>2</sub>O<sub>3</sub> crystals growth**  
Colantoni A., Longo L., Boubaker K., Monarca D., Cecchini M., Cividino S., Yumak A., Biondi P., Di Giacinto S., Menghini G.  
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- XXIX. **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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- XXX. **Two small thermodynamically stable organic dications**  
YUMAK YAHŞI A., YAVUZ İ., ALTUN Z., Trindle C.  
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- XXXI. **Electron-impact ionization of atomic ions in the Na isoelectronic sequence**  
ALTUN Z., Yumak A., Golcek U., Loch S. D., Pindzola M. S., Griffin D. C.  
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- XXXII. **Dielectronic recombination data for dynamic finite-density plasmas - XIII. The magnesium isoelectronic sequence**  
Altun Z., Yumak A., Yavuz I., Badnell N. R., Loch S. D., Pindzola M. S.  
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- XXXIII. **Dielectronic recombination data for dynamic finite-density plasmas - XI. The sodium isoelectronic sequence**  
Altun Z., Yumak A., Badnell N., Loch S., Pindzola M.  
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- XXXIV. **Open shell dianions likely to be stable in the gas phase with respect to autoionization**  
Trindle C., Yumak A.  
JOURNAL OF CHEMICAL THEORY AND COMPUTATION, cilt.1, sa.5, ss.1038-1044, 2005 (SCI-Expanded)
- XXXV. **Tetrahedral sulfur-based dianions stable in the gas phase: Application of the Cederbaum-Dreuw design principles**  
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- XXXVI. **Erratum Dielectronic recombination data for dynamic finite density plasmas VI The boron isoelectronic sequence**  
ALTUN Z., YUMAK A., Badnell N. R., Colgan J., Pindzola M. S.  
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- XXXVII. **Dielectronic recombination data for dynamic finite-density plasmas - VI. The boron isoelectronic sequence**  
Altun Z., Yumak A., Badnell N., Colgan J., Pindzola M.  
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## **Diğer Dergilerde Yayınlanan Makaleler**

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

## Kitap & Kitap Bölümleri

- I. **The Analysis of Physical and Chemical Adsorption of Dysprosium Ions as Functions of the Temperature and Time in Terms of Boubaker Polynomials**  
YUMAK YAŞI A.  
Current Research Progress in Physical Science Vol. 3, Abbas Mohammed, Editör, BP International, ss.1-17, 2024
- II. **FİZİK, Fen ve Mühendislik için Teknoloji Güncellemeli, Serway, Jewett,, CİLT 1, Mekanik/Dalgalar/Termodinamik**  
Yaşlı U., Saçlı Ö. A., Keskin S. S., Tav C., Dumludağ F., Yumak Yaşlı 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-ion Battery Components probed by Positron Annihilation Lifetime Spectroscopy (PALS)**  
BAKAR R., KOÇ S., YUMAK YAŞI A., YAŞI 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**  
YAŞI U., ÇOŞKUN B., YUMAK YAŞI 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 YAŞI A., YAŞI U., TAV C., KÜZECİ S.  
The International Joint Science Congress of Materials Polymers ISCMP 2017, Ohrid, Makedonya, 25 - 28 Ağustos 2017
- IV. **The Surface Gradient Profile of Free Volume of PS, PMMA, and SAN using Simha-Somcynsky and Cahn-Hilliard Theories**  
YUMAK YAŞI A., KUZECİ S., TAV C., YAŞI U.  
The International Joint Science Congress of Materials Polymers, 25 - 28 Ağustos 2017
- V. **Infrared Spectroscopy of Undoped and Cu-doped (80-x)Sb<sub>2</sub>O<sub>3</sub>-20Li(2)O-xMoO(3) Glasses**  
Petkova P., Boubaker K., Vasilev P., Mustafa M., Yumak A., Touihri H., Soltani M. T.  
5th International Advances in Applied Physics and Materials Science Congress and Exhibition (APMAS), Oludeniz, Türkiye, 16 - 19 Nisan 2015, cilt.1727
- VI. **Dielectronic Recombination in He like Li like and Be like Iodine and KLM Resonances**  
BLEDA E. A., YUMAK YAŞI A., YAVUZ İ., ALTUN Z.  
XXVII INTERNATIONAL CONFERENCE ON PHOTONIC, ELECTRONIC AND ATOMIC COLLISIONS (ICPEAC 2011), PTS 1-15, Belfast, K. İrlanda, Birleşik Krallık, 1 - 05 Ekim 2012, cilt.388, ss.62038
- VII. **Dielectronic Recombination in He-like, Li-like and Be-like Yttrium and KLM Resonances**  
Yumak A., Karakas V., ALTUN Z.  
27th International Conference on Photonic, Electronic and Atomic Collisions (ICPEAC), Belfast, Birleşik Krallık, 27 Temmuz - 02 Ağustos 2011, cilt.388
- VIII. **Dielectronic Recombination Rate Coefficients of B-Like C (OTURUM NO: 01\_OP67)**  
YUMAK YAŞI A., YAVUZ İ., BLEDA E. A., KARAKAŞ V., ALTUN Z.  
Turkish Physical Society 28th International Physics Congress, Muğla, Türkiye, 6 - 09 Eylül 2011
- IX. **Dielectronic Recombination in He like Li like and Be like Bismuth and KLM Resonances**  
YAVUZ İ., YUMAK A., BLEDA E. A., ALTUN Z.  
XXVII International Conference on Photonic, Electronic and Atomic Collisions, Belfast, Birleşik Krallık, 27 Temmuz - 02 Ağustos 2011
- X. **Dielectronic recombination rate coefficients of B like C**

YUMAK YAŞI A., YAVUZ İ., BLEDA E. A., Karakaş V., ALTUN Z.

28th International Physics Congress, Mugla, Bodrum, Türkiye, 1 - 03 Kasım 2011, ss.114

- XI. **RECOMBINATION RATE COEFFICIENTS of Li LIKE SULFUR Ref 227**  
YAVUZ İ., YUMAK YAŞI A., BLEDA E. A., ALTUN Z.  
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- XII. **ELECTRON IMPACT IONIZATION of Li LIKE SILICON Ref 722**  
ALTUN Z., YUMAK YAŞI A., YAVUZ İ., BLEDA E. A.  
10th European Conference on Atoms Molecules and Photons (ECAMP 10), Salamanca, Meksika, 4 - 09 Temmuz 2010
- XIII. **Recombination Rate Coefficients of Be Like Sulfur**  
YUMAK A., YAVUZ İ., BLEDA E. A., ALTUN Z.  
ECAMP10, 10th European Conference on Atoms Molecules and Photons, Salamanca, Meksika, 4 - 09 Temmuz 2010, ss.34
- XIV. **Recombination Rate Coefficients of Li Like Sulfur**  
YAVUZ İ., YUMAK A., BLEDA E. A., ALTUN Z.  
ECamp10, 10th European Conference on Atoms Molecules and Photons, Salamanca, Meksika, 4 - 09 Temmuz 2010, ss.50
- XV. **Level resolved distorted wave cross sections of electron impact ionization of Ar5**  
YAVUZ İ., YUMAK YAŞI A., ALTUN Z.  
XXVI International Conference on Photonic, Electronic and Atomic Collisions, Kalamazoo, Amerika Birleşik Devletleri, 1 - 03 Kasım 2009, cilt.194, ss.62016
- 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.  
26th International Conference on Photonic, Electronic and Atomic Collisions, Michigan, Amerika Birleşik Devletleri, 22 - 28 Temmuz 2009, cilt.194
- XVII. **Can Small Organic Cations Bind Protons**  
YUMAK A., Trindle C., ALTUN Z.  
3th ICQC International Congress of Quantum Chemistry, Helsinki, Finlandiya, 22 - 24 Haziran 2009, ss.172
- XVIII. **Resonances in rate coefficients of Na like Sulphur**  
YAVUZ İ., YUMAK A., ALTUN Z.  
X08, 21st INTERNATIONAL CONFERENCE ON X-RAY AND INNER-SHELL PROCESSES, Paris, Fransa, 22 - 27 Haziran 2008, ss.59
- XIX. **Excitation Ionization Cross Section Na Like Tin**  
YUMAK A., Gölçek U., YAVUZ İ., ALTUN Z.  
ECAMP IX European Conference on Atoms Molecules and Photons, Heraklion, Yunanistan, 6 - 11 Mayıs 2007, ss.1
- XX. **Resonances in The Velocity Averaged Dielectronic Recombination Cross Section for Mg like Fe**  
YUMAK A., ÇİFTÇİOĞLU G. A., YAVUZ İ., ALTUN Z.  
IWP International Workshop on Photoionization 2005, Campinas, Brezilya, 27 - 31 Temmuz 2005
- XXI. **Dielectronic Recombination for K14 Ca15 and Sc16 from Ground Plus Metastable States**  
YUMAK A., ÇİFTÇİOĞLU G. A., ALTUN Z.  
24th International Conference on Photonic Electronic and Atomic Collisions, Rosario, Arjantin, 20 - 26 Temmuz 2005, ss.1

## Desteklenen Projeler

Tav C., Uzun H., Yumak Yaşı A., Yaşı U., Yükseköğretim Kurumları Destekli Proje, Pozitron Annihilasyon Spektroskopisi Kullanılarak PAMAM Dendrimerlerinin Boşluk Yapısının İncelenmesi, 2018 - 2021

Dumludağ F., Yaşı U., Altun Z., Aktaş Ş., Esmer K., Tav C., Özdemir M., Akkoyunlu B. O., Yumak Yaşı A., Alevli M., et al.,

## **Metrikler**

Yayın: 62

Atıf (WoS): 497

Atıf (Scopus): 540

H-İndeks (WoS): 13

H-İndeks (Scopus): 12

## **Akademi Dışı Deneyim**

University of Virginia Department of Chemistry

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