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Education Information

Doctorate, Ege University, Fen Bilimleri Enstitüsü, Nükleer Bilimler (Dr), Turkey 1992 - 2000

Postgraduate, Ege University, Nükleer Bilimler Enstitüsü, Fizik (YI) (Tezli), Turkey 1988 - 1991

Undergraduate, Selcuk University, Faculty Of Engineering-Architecture, Fizik Mühendisliği Pr., Turkey 1981 - 1988

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, U-233'ün termal fisyonunda, ani-nötron, ani-gama ve kütle verimi dağılımlarının monte-carlo tekniği ile incelenmesi, Ege University, Fen Bilimleri Enstitüsü, Nükleer Bilimler (Dr), 1999

Postgraduate, İki ayrı x-ışını enerjisinde kütle soğurma katsayısının ölçülmesi suretiyle kömürlerde kül içeriğinin saptanması, Ege University, Nükleer Bilimler Enstitüsü, Fizik (YI) (Tezli), 1991

Research Areas

Nuclear physics

Academic Titles / Tasks

Associate Professor, Dokuz Eylul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 1989 - Continues

Courses

Undergraduate

FİZİK I, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

FİZİK-II, Undergraduate, 2020 - 2021

ARAŞTIRMA PROJESİ, Undergraduate, 2016 - 2017, 2015 - 2016

PHYSICS-I, Undergraduate, 2015 - 2016, 2014 - 2015, 2001 - 2002, 2000 - 2001

PHYSICS-II, Undergraduate, 2000 - 2001

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Photocatalytic removal of aldrin and dieldrin using graphene oxide and TiO₂-doped CuFe₂O₄**
Akçağlar S.
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, no.1, pp.1-17, 2024 (SCI-Expanded)
- II. **ADSORPTION OF A PAPER INDUSTRY DYE (MALACHITE GREEN) USING MnO₂-GO NANOCOMPOSITE**
Akçağlar S.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.31, pp.9812-9820, 2022 (SCI-Expanded)
- III. **Development of a portable survey meter system for the studies of uranium discovery**
Akcağlar S., Bayburt M., Kahveci O.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.295, no.1, pp.415-418, 2013 (SCI-Expanded)
- IV. **Development of an arbitrary function generator and test system for nuclear spectrometers**
Avcı O., Bayburt S., Bayburt M., Celiktaş C.
RADIATION MEASUREMENTS, vol.46, no.8, pp.730-733, 2011 (SCI-Expanded)

Articles Published in Other Journals

- I. **Removal of Aluminum (Al⁺³) and Copper (Cu⁺²) from a Chemical Industry Wastewater with Graphene Oxide (GO) / Zinc Oxide (ZnO) Nanocomposite**
Akçağlar S.
International Refereed Journal of Engineering and Science, vol.1, no.1, pp.1-13, 2024 (Peer-Reviewed Journal)
- II. **Efficient Photodegradation of Two Endocrine Disruptors, Namely Polybrominated Diphenyl Ether and Benzophenone, Using Bi₂O₃-ZnO Nanocomposites under Sunlight power**
Akçağlar S.
International Refereed Journal of Engineering and Science , vol.1, no.1, pp.1-13, 2024 (Peer-Reviewed Journal)
- III. **Photooxidation of Roxithromycin and Erythromycin from Antibiotic-Containing Wastewater Using CeO₂/ZnO Nanocomposite**
Akçağlar S.
Research Inveny : International Journal of Engineering and Science, vol.1, no.1, pp.1-17, 2024 (Peer-Reviewed Journal)
- IV. **Photo removal of imidacloprid from neonicotinoids using Bamboo vinegar**
Akçağlar S.
International Journal of Advanced Multidisciplinary Research and Studies, vol.2, no.4, pp.480-485, 2022 (Peer-Reviewed Journal)
- V. **Removal of Clothianidin from Surface Water Using TiO₂/CNT/Pd-Cu Nanocomposite Under Photocatalytic Conditions**
Akçağlar S.
Chemistry Research Journal, vol.7, no.3, pp.111-120, 2022 (Peer-Reviewed Journal)
- VI. **SEPARATION OF Co(II) AND Se(VI) FROM A METAL AND GLASS INDUSTRY WASTES USING GRAPHENE OXIDE-MANGANE OXIDE NANOCOMPOSITE**
Akçağlar S.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.38, no.1, pp.29-46, 2020 (ESCI)
- VII. **Kurşunun grafen oksit nanopartikülü ile giderimi ve grafen oksitin geri kazanımı**
Akçağlar S.

- Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, no.3, pp.1187-1196, 2020 (Peer-Reviewed Journal)
- VIII. **Remediation of Cr(VI) using C₃N₄/DEU - 51(Fe) under sun light irradiation**
Akçağlar S.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.26, no.3, pp.496-504, 2020 (ESCI)
- IX. **Separation of Zirconium and Hafnium Tetrachloride from the Nuclear Power Reactors using a Distillation Column with NaCl-KCl Salt Mixtures**
Akçağlar S.
Chemistry Research Journal, vol.4, no.1, pp.106-111, 2019 (Peer-Reviewed Journal)
- X. **REMOVAL OF Co(II) AND Se(VI) FROM RAW METAL AND GLASS INDUSTRY WASTEWATERS USING NANO-SiO₂ / ZrO₂-CALCIUM ALGINATE AEROGELS**
Akçağlar S.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.36, no.1, pp.63-74, 2018 (ESCI)
- XI. **DEVELOPMENT OF AN AMPLIFIER FOR NUCLEAR SPECTROMETERS**
Akçağlar S., Akdurak S., Bayburt M., Çeliktaş C.
SCIENCE AND TECHNOLOGY, vol.4, no.3, pp.31-41, 2014 (Peer-Reviewed Journal)
- XII. **Energy Resolution Improvement of a CdTe Detector By Means of a Timing Technique**
Çeliktaş C., Bayburt M., Akçağlar S.
International Journal of Instrumentation Science, vol.2, no.1, pp.6-12, 2013 (Peer-Reviewed Journal)
- XIII. **RADYASYON İZLEME SİSTEMİ İÇİN BİLGİSAYAR PROGRAMI: RAMOS**
Akçağlar S., Kahveci O., Bayburt M.
e-Journal of New World Sciences Academy, vol.6, no.3, pp.761-767, 2011 (Peer-Reviewed Journal)
- XIV. **Laboratuvarlar için Kablosuz (RF) Radyasyon İzleme Sistemi**
Akçağlar S., Bayburt M.
E-Journal of New World Sciences Academy, vol.5, no.2, pp.558-563, 2010 (Peer-Reviewed Journal)
- XV. **Laboratuvarlar İçin Radyasyon İzleme Sistemi**
Akçağlar S., Bayburt M.
Natural and Applied Sciences, Nuclear Physics, vol.3, no.3, pp.491-498, 2008 (Peer-Reviewed Journal)
- XVI. **Eurocrate Sistemler İçin Bilgisayar Kontrollü SCA (Tek Kanallı Analizör) Modülü Geliştirilmesi**
Akçağlar S., Bayburt M., Akdurak S.
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.7, no.3, pp.69-74, 2005 (Peer-Reviewed Journal)
- XVII. **X-Işını Görüntülemeye Yarıiletken Dedektörlerin Kullanılması**
AKÇAĞLAR S., BAYBURT M.
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.4, no.2, pp.113-122, 2002 (Peer-Reviewed Journal)
- XVIII. **X-Işını Görüntüleme İçin, X-Işını Simülasyon Programının Geliştirilmesi**
AKÇAĞLAR S.
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.4, no.1, pp.99-106, 2002 (Peer-Reviewed Journal)
- XIX. **Kömürlerde Kül Oranının 2-µ ve Demir Düzeltme Yöntemi İle Ölçülmesi**
Akçağlar S., Yener G.
D.E.Ü. Fen ve Mühendislik Dergisi, vol.3, no.3, pp.93-98, 2001 (Peer-Reviewed Journal)

Books

I. SYNTHESIS OF SILVER NANOPARTICLES

Akçağlar S.

in: New Applications in Digital Engineering, Prof. Dr. Ahmet FERTELLİ, Editor, IKSAD INTERNATIONAL

PUBLISHING HOUSE, Ankara, pp.89-99, 2023

II. REMOVAL OF AMOXICILLIN BETA-LACTAM ANTIBIOTIC USING La/Cu/Zr NANOCOMPOSITE VIA ADSORPTION

Akçağlar S.

in: SCIENCE AND NEW APPLICATIONS, Assist. Prof. Dr. Nilgün ONURSAL, Editor, IKSAD INTERNATIONAL PUBLISHING HOUSE, Ankara, pp.65-89, 2023

III. TREATMENT OF POLY AROMATIC HYDROCARBONS (PAHs) FROM SURFACE WATER USING ZNO/NA₂S₂O₈ NANOCOMPOSITE UNDER SUN LIGHT IRRADIATION

Akçağlar S.

in: NEW APPLICATIONS IN DIGITAL ENGINEERING, Prof. Dr. Ahmet FERTELLİ, Editor, IKSAD INTERNATIONAL PUBLISHING HOUSE, Ankara, pp.99-113, 2023

IV. REMOVALS OF SOME ORGANIC DYES NAMELY NATURAL BROWN #12 AND NATURAL YELLOW #11 USING GRAPHENE IRON OXIDE (G/Fe₃O₄) NANOCOMPOSITE

Akçağlar S.

in: SCIENCE AND NEW APPLICATIONS, Assist. Prof. Dr. Nilgün ONURSAL, Editor, IKSAD INTERNATIONAL PUBLISHING HOUSE, Ankara, pp.35-65, 2023

V. DECOLORIZATION OF TEXTILE INDUSTRY WASTEWATER USING ZINC OXIDE-POLYANILINE HYBRID NANOCOMPOSITE

Akçağlar S.

in: Science and Mathematics Sciences, DEMİR CANAN, Editor, IVPE, Cetinje, pp.73-83, 2022

VI. Zinc Oxide Nanoparticles Using Cynara scolymus L (Artichoke) Leaf Aqueous extract Green Synthesis, Characterization, Anti-Bacterial Effects

AKÇAĞLAR S.

in: CLINICAL APPROACHES AND NANOTECHNOLOGY IN MEDICINE, Sevil AKÇAĞLAR, Sevim AKÇAĞLAR, Editor, IKSAD INTERNATIONAL PUBLISHING HOUSE, Ankara, pp.13-26, 2022

VII. Thermal Neutron Fission of Uranium-233 by Monte-Carlo Method

AKÇAĞLAR S.

in: Science and Mathematics Sciences, Mehtap Düz, Editor, IVPE, Cetinje, pp.42-54, 2020

VIII. Adsorption of Uranium and Americium from Nuclear Wastes with AXAD PR

AKÇAĞLAR S.

LAP LAMBERT Academic Publishing, Saarbrücken, 2016

Papers Published in Refereed Scientific Meetings

I. Treatment of Alizarin yellow dye using a nanocomposite

AKÇAĞLAR S.

1st International Conference on Engineering, Natural and Social Sciences, Konya, Turkey, 20 - 23 December 2022, pp.139-145

II. Bioremediation of Endrine and Endosulfan via UV light

AKÇAĞLAR S.

1st International Conference on Engineering, Natural and Social Sciences, Konya, Turkey, 20 - 23 December 2022, pp.132-138

III. Biological Synthesis of Silver@Graphene Oxide Nanocomposite and Antimicrobial Determination of Activity

AKÇAĞLAR S., AKÇAĞLAR S.

2022 III. INTERNATIONAL CONFERENCE ON GLOBAL PRACTICE OF MULTIDISCIPLINARY SCIENTIFIC STUDIES, CONFERENCE PROCEEDINGS BOOK, Cyprus (Kktc), 01 December 2022, pp.1-11

IV. Green Synthesis, Characterization and Antibacterial Activity of Silver Nanoparticles of Aspergillus terreus

AKÇAĞLAR S., AKÇAĞLAR S.

2022 International Conference on Global Practice of Multidisciplinary Scientific Studies-III CONFERENCE
PROCEEDINGS BOOK, Cyprus (Kktc), 01 December 2022, pp.1-2

- V. **Methods biological system nanoparticles**
AKÇAĞLAR S., AKÇAĞLAR S.
II-International Conference on Global Practice of Multidisciplinary Scientific Studies, Batumi, Georgia, Georgia, 26 June - 28 July 2022, pp.1508-1518
- VI. **Effect of nanomolecules on microorganisms**
AKÇAĞLAR S., AKÇAĞLAR S.
II-International Conference on Global Practice of Multidisciplinary Scientific Studies, Batumi, Georgia, Georgia, 26 - 28 July 2022, pp.1508-1518
- VII. **Nuclear energy in the world**
AKÇAĞLAR S.
KONGRE, Gaziantep, Turkey, 07 October 2020, pp.1207-1210
- VIII. **Radioactive wastes and disposal**
AKÇAĞLAR S.
KONGRE, Gaziantep, Turkey, 07 October 2020, pp.1203-1206
- IX. **Laboratuvarlar için Kablosuz (RF) Online Radyasyon İzleme Sistemi**
AKÇAĞLAR S., BAYBURT M.
X.Nükleer Bilimler ve Teknolojileri Kongresi, Muğla, Turkey, 06 October 2019, pp.434
- X. **Laboratuvarlar için Kablosuz (Bluetooth) Online Radyasyon İzleme Sistemi**
AKÇAĞLAR S., BAYBURT M.
X.Nükleer Bilimler ve Teknolojileri Kongresi, Muğla, Turkey, 06 September 2019, pp.435
- XI. **Removal of Co(II) and Se(VI) From Raw Metal and Glass Industry Wastewaters Using a Novel Adsorbant Nano-SiO₂ / ZrO₂-Calcium Alginate Aerogels**
AKÇAĞLAR S.
Kongre, 4 - 08 October 2017
- XII. **Removal and recovery of some simulated nuclear waste radionuclides using Amberlite XAD 16 - Pyridylazo Resorcinol (AXAD-PR) composite**
AKÇAĞLAR S.
Journal of Physics Conference series SCI-E, Erzurum, Turkey, 1 - 02 August 2016
- XIII. **Removal and Recovery of Some Radionuclides from Simulated Nuclear Waste Using Amberlite XAD 16 Pyridylazo Resorcinol Composite**
AKÇAĞLAR S.
IPCAP 2016 INTERNATIONAL PHYSICS CONFERENCE AT THE ANATOLIAN PEAK, Erzurum, Turkey, 25 - 27 February 2016
- XIV. **Seperation of zirconium and Hafnium Tetrachloride from the Nuclear Power Reactors Using an Distillation Column with an Extraction and Optimized NaCl KCl Salt Mixtures Levels for a Green Environment**
AKÇAĞLAR S.
IPCAP 2016 INTERNATIONAL PHYSICS CONFERENCE AT THE ANATOLIAN PEAK, Erzurum, Turkey, 25 - 27 February 2016
- XV. **Taşınabilir Radyasyon Ölçüm Sistemleri için Mikroişlemci Kontrollü Yüksek Voltaj Kartı Geliştirilmesi**
AKÇAĞLAR S., BAYBURT M., Kahveci O., Özer Ç.
29 th International Physics Congress, 05 September 2012, pp.704
- XVI. **Nükleer İşaretlerin Sayısal İşaret İşleme (DSP) Tekniği ile Gürültüden Arındırılması**
AKÇAĞLAR S., BAYBURT M., AKDURAK S., Kahveci O.
29 th International Physics Congress, Muğla, Turkey, 05 September 2012, pp.705
- XVII. **Nükleer Sayım Sistemleri için Otomatik Test ve Kalibrasyon Sistemi Geliştirilmesi**
AKÇAĞLAR S., BAYBURT M.
TÜRK FİZİK DERNEĞİ 26. ULUSLARARASI FİZİK KONGRESİ, Muğla, Turkey, 24 September 2009
- XVIII. **ARAZİ RADYASYON ÖLÇÜM ÇALIŞMALARINDA KÜRESEL KONUMLANDIRMA SİSTEMİNİN (GPS)**

KULLANILMASI

AKÇAĞLAR S., BAYBURT M.

25.Uluslararası Fizik Kongresi, Muğla, Turkey, 25 August 2008, pp.208

- XIX. **Floroskopi Sistemlerinde CdTe Dedektörlerin Kullanılması**
AKÇAĞLAR S., BAYBURT M., Kahveci O.
25.Uluslararası Fizik Kongresi, Muğla, Turkey, 25 August 2008, pp.209
- XX. **Laboratuvarlar İçin Kablosuz Radyasyon İzleme Sistemi**
AKÇAĞLAR S., BAYBURT M.
25.Uluslararası Fizik Kongresi, Muğla, Turkey, 25 August 2008, pp.531
- XXI. **Radyasyon Ölçüm Sistemleri için Otomatik Veri Toplama Sistemi Geliştirilmesi**
AKÇAĞLAR S., BAYBURT M., AKDURAK S., Kahveci O.
24.Uluslararası Fizik Kongresi, Malatya, Turkey, 28 August 2007, pp.122
- XXII. **Nükleer Darbe Üretici Geliştirilmesi**
AKÇAĞLAR S., BAYBURT M., AKDURAK S., Kahveci O.
24.Uluslararası Fizik Kongresi, Malatya, Turkey, 28 August 2007, pp.129
- XXIII. **Nükleer Ölçüm Sistemleri İçin Sinyal Üretici**
AKÇAĞLAR S., BAYBURT M., AKDURAK S., Kahveci O.
24.Uluslararası Fizik Kongresi, Malatya, Turkey, 28 August 2007, pp.125
- XXIV. **Medikal Görüntülemeye Yararlanılan Dedektörlerin Kullanılması**
AKÇAĞLAR S., BAYBURT M.
24.Uluslararası Fizik Kongresi, Malatya, Turkey, 28 August 2007, pp.135
- XXV. **Nükleer Tıp Amaçlı X-Işını Simülasyon Programı Geliştirilmesi**
AKÇAĞLAR S., BAYBURT M., Diren C.
IX. Ulusal Nükleer Bilimler Ve Teknolojileri Kongresi, İzmir, Turkey, 14 September 2005, pp.195
- XXVI. **Nükleer Laboratuvarlar İçin Radyasyon İzleme (Monitoring) Sistemi**
AKÇAĞLAR S., BAYBURT M., Durmuş F.
IX. Ulusal Nükleer Bilimler Ve Teknolojileri Kongresi, İzmir, Turkey, 14 September 2005, pp.167
- XXVII. **X-Işını Görüntülemeye Kullanılan Dedektörlerin Enerjiye Bağlı Olarak Snr(Sinyal Gürültü Oranı) Değerlerinin Hesaplanması**
AKÇAĞLAR S., BAYBURT M.
IX. Ulusal Nükleer Bilimler Ve Teknolojileri Kongresi, İzmir, Turkey, 14 September 2005, pp.213
- XXVIII. **X-Işını Görüntülemeye CdZnTe Tipi Yariletken Detektör Kullanılarak Çift Enerji Tekniği İle Görüntü Oluşturulması**
AKÇAĞLAR S., BAYBURT M.
VIII Ulusal Medikal Fizik Kongresi, İstanbul, Turkey, 18 September 2001, pp.78
- XXIX. **Determination of the Efficiency Curves of CdZnTe and CsI Detectors Depending on X-ray Energies Using X-ray Simulation Program**
AKÇAĞLAR S., BAYBURT M.
First Hellenic-Turkish International Physics Conference, KOS, Greece, 10 September 2001, pp.269
- XXX. **Investigation of Prompt Neutron, Prompt Gamma and Mass Yield Distributions of U-233 in Thermal Neutron Fission by Monte-Carlo Method**
AKÇAĞLAR S., BAYBURT M.
1.Eurasia Conference on Nuclear Science and Its Application, İzmir, Turkey, 23 October 2000, pp.427
- XXXI. **Developing a Computer Controlled Single Channel Analyzer**
AKÇAĞLAR S., BAYBURT M.
1. Eurasia Conference on Nuclear Science and Its Application, İzmir, Turkey, 23 October 2000, pp.289
- XXXII. **Development of X-ray Simulation Program For X-ray Imaging**
AKÇAĞLAR S.
1. Eurasia Conference on Nuclear Science and Its Application, İzmir, Turkey, 23 October 2000, pp.363
- XXXIII. **Using CdZnTe Type Semiconductor Detectors in X-ray Image**
AKÇAĞLAR S., BAYBURT M.

1. Eurasia Conference on Nuclear Science and Its Application, İzmir, Turkey, 23 October 2000, pp.362
- XXXIV. **Devoloping a Double SCA for Eurocreate Digital Bus Module**
AKÇAĞLAR S., BAYBURT M., AKDURAK S.
1. Eurasia Conference on Nuclear Science and Its Application, İzmir, Turkey, 23 October 2000, pp.465
- XXXV. **Image Prossessing is Performed by a Division of X-ray Spectrum at Mono Energy by Using CdZnTe Dedector in Angiography**
AKÇAĞLAR S., BAYBURT M.
1. Eurasia Conference on Nuclear Science and Its Application, İzmir, Turkey, 23 October 2000, pp.337
- XXXVI. **Bilgisayar Kontrollü Tek Kanallı Analizör Geliştirilmesi**
AKÇAĞLAR S., BAYBURT M.
TFD 19. Fizik Kongresi, Elazığ, Turkey, 26 September 2000, pp.224
- XXXVII. **Uranyum ve Toryum Gama Enerjilerine Ayarlanmış İki Kanal Analizör Geliştirilmesi**
AKÇAĞLAR S., BAYBURT M.
TFD Ulusal Fizik Kongresi, Elazığ, Turkey, 26 September 2000, pp.223
- XXXVIII. **Kömürde Kül Oranının Demir Dengeleme ve X-Işını Transmisyon Yöntemi İle Ölçümü**
Akçağlar S., Yener G.
V. Ulusal Nükleer Bilimler Kongresi, İzmir, Turkey, 22 - 24 May 1991, pp.20

Metrics

Publication: 70

Citation (WoS): 5

Citation (Scopus): 9

H-Index (WoS): 1

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Awards

Akçağlar S., BEST RESEARCHER AWARDS, Wiley , November 2024