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Personal Information

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Education Information

Doctorate, Recep Tayyip Erdogan University, Fen Bilimleri Enstitüsü, Fizik Bölümü/Atom Ve Molekül Fiziği, Turkey 2015 - 2018

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Fizik/Atom Ve Molekül Fiziği, Turkey 2013 - 2015

Postgraduate, Recep Tayyip Erdogan University, Fen Bilimleri Enstitüsü, Fizik Bölümü/Atom Ve Molekül Fiziği, Turkey 2009 - 2012

Undergraduate, Karadeniz Technical University, Rize Fen-Edebiyat Fakültesi , Fizik Bölümü, Turkey 2005 - 2009

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, DOĞU KARADENİZ'DE SEDİMENT ÖRNEKLERİNDE Cs-137 RADYOİZOTOPUNUN DENEYSEL EKOLOJİK ÖMÜR TAYİNİ VE BAZI AĞIR METAL KONSANTRASYONLARININ BELİRLENMESİ, Recep Tayyip Erdogan University, Fen Bilimleri Enstitüsü, Fizik/Atom Ve Molekül Fiziği, 2018

Postgraduate, ZnO İNCE FİLM ÖRNEKLERİNDE OPTİK VE XRF PARAMETRELERİNİN İNCELENMESİ, Recep Tayyip Erdogan University, Fen Bilimleri Enstitüsü, Fizik/Atom Ve Molekül Fiziği, 2012

Research Areas

Physics, Atomic and Molecular Physics, Molecular Properties and Interactions with Photon, Natural Sciences

Academic Titles / Tasks

Associate Professor, Recep Tayyip Erdogan University, Rektörlük, -, 2021 - Continues

Lecturer PhD, Recep Tayyip Erdogan University, Rektörlük, -, 2018 - Continues

Expert, Recep Tayyip Erdogan University, Rektörlük, -, 2012 - Continues

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- Bio-kinetics of cesium-137 in Mediterranean mussel (*Mytilus galloprovincialis*) and sea snail (*Rapana venosa*) via seawater exposure**
BALTAŞ H., ŞİRİN M., ÇİLOĞLU E., İminova G., ÇEVİK U.

JOURNAL OF SEA RESEARCH, vol.176, 2021 (Journal Indexed in SCI)

- II. **Evaluation of ecological risk, source, and spatial distribution of some heavy metals in marine sediments in the Middle and Eastern Black Sea region, Turkey.**
Apaydın A., Kabaoğlu H., Apaydın G., Şirin M., Cengiz E., Köksal O. K. , Baltas H., Tıraşoğlu E.
Environmental science and pollution research international, 2021 (Journal Indexed in SCI)
- III. **Acute copper accumulation in Mediterranean mussel and sea snail**
ŞİRİN M., ÇİLOĞLU E., BALTAŞ H.
SPECTROSCOPY LETTERS, 2021 (Journal Indexed in SCI)
- IV. **Determination of natural radionuclides and some metal concentrations in human tooth samples in the Rize province, Turkey**
Baltas H., SIRIN M., Senel F., DEVRAN F.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL HEALTH RESEARCH, vol.31, no.1, pp.20-33, 2021 (Journal Indexed in SCI)
- V. **The effect of titanium (Ti) additive on radiation shielding efficiency of Al25Zn alloy**
ŞİRİN M.
PROGRESS IN NUCLEAR ENERGY, vol.128, 2020 (Journal Indexed in SCI)
- VI. **A case study on pollution and a human health risk assessment of heavy metals in agricultural soils around Sinop province, Turkey**
Baltas H., Sirin M., Gokbayrak E., Ozcelik A. E.
CHEMOSPHERE, vol.241, 2020 (Journal Indexed in SCI)
- VII. **Investigation of accumulation of radionuclides in different tissues of Whiting fish (*Merlangius merlangus euxinus* Nordmann, 1840) caught on the coasts of Rize in the eastern Black Sea region of Turkey**
Sirin M.
MICROCHEMICAL JOURNAL, vol.152, 2020 (Journal Indexed in SCI)
- VIII. **A study of the radiological baseline conditions around the planned Sinop (Turkey) nuclear power plant using the mapping method**
Baltas H., Yesilkanat C. M. , Kiriş E., SIRIN M.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.191, no.11, 2019 (Journal Indexed in SCI)
- IX. **Radiation shielding properties of mortars with minerals and ores additives**
Baltas H., SIRIN M., Celik A., USTABAS I., EL-KHAYATT A. M.
CEMENT & CONCRETE COMPOSITES, vol.97, pp.268-278, 2019 (Journal Indexed in SCI)
- X. **Effect of annealing temperature on K-shell X-ray fluorescence parameters of zinc oxide thin films prepared by the sol-gel method**
SIRIN M., Baltas H., Kiriş E., Keskenler E. F.
SPECTROSCOPY LETTERS, vol.52, no.2, pp.98-104, 2019 (Journal Indexed in SCI)
- XI. **Determination of radiological hazard parameters in sea snails (*Rapana venosa*) in the East Black Sea Coast of Turkey**
Dalgıç G., Kiriş E., Baltas H., SIRIN M.
MARINE POLLUTION BULLETIN, vol.135, pp.441-445, 2018 (Journal Indexed in SCI)
- XII. **An overview of the ecological half-life of the Cs-137 radioisotope and a determination of radioactivity levels in sediment samples after Chernobyl in the Eastern Black Sea, Turkey**
Baltas H., SIRIN M., Dalgıç G., ÇEVİK U.
JOURNAL OF MARINE SYSTEMS, vol.177, pp.21-27, 2018 (Journal Indexed in SCI)
- XIII. **Assessment of metal concentrations (Cu, Zn, and Pb) in seawater, sediment and biota samples in the coastal area of Eastern Black Sea, Turkey**
Baltas H., SIRIN M., Dalgıç G., BAYRAK E. Y. , AKDENİZ A.
MARINE POLLUTION BULLETIN, vol.122, pp.475-482, 2017 (Journal Indexed in SCI)
- XIV. **Determination of radioactivity levels and heavy metal concentrations in seawater, sediment and anchovy (*Engraulis encrasicolus*) from the Black Sea in Rize, Turkey**
BALTAŞ H., KIRIŞ E., ŞİRİN M.

MARINE POLLUTION BULLETIN, vol.116, pp.528-533, 2017 (Journal Indexed in SCI)

XV. Comparison of elemental analysis for different kind of papers by using energy dispersive X-ray spectrometer

Yayli M., Koksall O., APAYDIN G., ŞİRİN M., Cengiz E., BALTAŞ H.

Asian Journal of Chemistry, vol.29, no.6, pp.1301-1307, 2017 (Journal Indexed in SCI Expanded)

XVI. Experimental study on copper uptake capacity in the Mediterranean mussel (*Mytilus galloprovincialis*)

Baltas H., DALGIC G., BAYRAK E. Y., SIRIN M., ÇEVİK U., APAYDIN G.

ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.23, no.11, pp.10983-10989, 2016 (Journal Indexed in SCI)

XVII. Determination of Natural Radioactivity Levels of Some Concretes and Mineral Admixtures in Turkey

Baltas H., Kiris E., Ustabas I., YILMAZ E., Sirin M., KULOGLU E., GUNES B. E.

ASIAN JOURNAL OF CHEMISTRY, vol.26, no.13, pp.3946-3952, 2014 (Journal Indexed in SCI)

Articles Published in Other Journals

I. Comparative Analysis of Manual, Rotary and Reciprocal Systems on Primary Teeth Root Canals: An In Vitro Scanning Electron Microscopy Study

ARSLAN İ., AYDINOĞLU S., BAYGIN Ö., TÜZÜNER T., ŞİRİN M.

Cumhuriyet Dental Journal, vol.22, no.3, pp.299-309, 2019 (Refereed Journals of Other Institutions)

II. Evaluation of radioactive pollution in sediment samples of Borçka Dam Lake, Turkey

ŞİRİN M.

Cumhuriyet Science Journal, vol.40, no.3, pp.624-639, 2019 (Other Refereed National Journals)

III. Artifacts in cranial MRI caused by extracranial foreign bodies and analysis of these foreign bodies

KAYACI S., TABAK A., Durur-Subasi I., Eldes T., Koksall V., Sirin M., ARSLAN Y. K.

INDIAN JOURNAL OF RADIOLOGY AND IMAGING, vol.29, no.3, pp.299-304, 2019 (Journal Indexed in ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. Effect Of Natural Perlite Mineral Additive On Radiation Shielding Efficiency Of Di-Lithium Tetraborate And Lithium Metaborate Blended Glasses

ŞİRİN M.

ANADOLU KONGRESİ 4. ULUSLARARASI UYGULAMALI BİLİMLER KONGRESİ, Diyarbakır, Turkey, 25 - 26 July 2020, pp.6

II. CALCULATION OF GAMMA-RAY KERMA COEFFICIENTS FOR SOME CONCRETE MATERIALS

ŞİRİN M.

IV. INTERNATIONAL SCIENTIFIC AND VOCATIONAL STUDIES CONGRESS – SCIENCE AND HEALTH (BILMES SH 2019 - ANKARA), Ankara, Turkey, 7 - 10 November 2019, pp.213-216

III. Determination of photon kerma coefficients for CuO, CaO, SrCO₃, PbO and Bi₂O₃ compounds

ŞİRİN M., BALTAŞ H.

5th International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Amasya, Turkey, 2 - 04 May 2019, pp.159-161

IV. Calculation of gamma-ray kerma coefficients in different solid-state forms of Bi_{1.7}Pb_{0.3}Sr₂Ca₂Cu₃O₁₀ superconductor

ŞİRİN M., BALTAŞ H.

5th International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Amasya, Turkey, 2 - 04 May 2019, pp.156-158

V. Assessment of Metal Concentrations in Some Human Teeth Samples Living in Rize Province, Turkey

BALTAŞ H., ŞİRİN M., Şenel F., KIRIŞ E., Devran F.

INTERNATIONAL ECOLOGY 2018 SYMPOSIUM, Kastamonu, Turkey, 19 - 23 June 2018, pp.869

- VI. **Investigation of Radiological Cancer Risk in Baby Clam (*Chamelea gallina*) and Sediment Samples in the Coastal Area of Sinop Province, Turkey**
ŞİRİN M., BALTAŞ H., KIRIŞ E., DALGIÇ G., APAYDIN G.
INTERNATIONAL ECOLOGY 2018 SYMPOSIUM, Kastamonu, Turkey, 19 - 23 June 2018, pp.320
- VII. **INVESTIGATION OF RADIONUCLIDE CONCENTRATIONS IN DIFFERENT TISSUES OF WHITING (*MERLANGIUS MERLANGUS EUXINUS*) FROM THE EASTERN BLACK SEA COASTS (RIZE/TURKEY)**
DALGIÇ G., BALTAŞ H., ŞİRİN M., BİLGİNOĞLU İ.
IV INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES (ICENS), 2 - 06 May 2018
- VIII. **Radiological Assessment In Different Size Mediterranean Mussels (*Mytilus galloprovincialis*) In The Eastern Black Sea Region Of Turkey**
BALTAŞ H., KIRIŞ E., ŞİRİN M., DALGIÇ G.
ICENS 4. International Conference on Engineering and Natural Science, Kiev, Ukraine, 2 - 06 May 2018, vol.1, no.1, pp.244
- IX. **Distribution of ¹³⁷Cs In Sea Snail (*Rapana Venosa*) In The Eastern Black Sea Region Of Turkey**
BALTAŞ H., ŞİRİN M., KIRIŞ E., DALGIÇ G.
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- XII. **Investigation Of Radionuclide Concentrations In Different Tissues Of Whiting (*Merlangius merlangus euxinus*) From The Eastern Black Sea Coasts (Rize/Turkey)**
DALGIÇ G., BALTAŞ H., ŞİRİN M., BİLGİNOĞLU İ.
ICENS 4. International Conference on Engineering and Natural Science, Kiev, Ukraine, 2 May - 06 June 2018, vol.1, no.1, pp.273
- XIII. **Smear Layer Removal Efficacy of Manuel, Rotary and Reciprocal Systems on Primary Teeth Root Canal: An in vitro Scanning Electron Microscopy Study**
ARSLAN İ., METE ATLAS A., AYDINOĞLU S., BAYGIN Ö., ŞİRİN M.
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- XIV. **SMEAR LAYER REMOVAL EFFICIACY OF MANUEL, ROTARY AND RECIPROCAL SYSTEMS ON PRIMARY TEETH ROOT CANAL: AN IN VITRO SCANNING ELECTRON MICROSCOPY STUDY**
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INTERNATIONAL CONGRESS ON PREVENTIVE DENTISTRY, 5 - 08 March 2018
- XV. **Assessment Of Cu, Zn, As And Pb Concentrations In Soil Samples In The Coastal Area Of Sinop Province, Turkey**
BALTAŞ H., GÖKBAYRAK E., KIRIŞ E., SIRIN M., YEŞİLKANAT C. M. , APAYDIN G.
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- XVI. **Determination of the copper uptake capacity of baby clam (*Chamelea gallina* Linnaeus, 1758)**
Dalgiç G., Şirin M., Baltaş H., Kiriş E., Ertuğral B., Çiloğlu E.
2 nd International Science Symposium "Science Festival", Tbilisi, Georgia, 5 - 08 September 2017, vol.2, pp.129
- XVII. **Experimental study on the biokinetics of ¹³⁷Cs in sea snail (*Rapana venosa*)**
ŞİRİN M., BALTAŞ H., DALGIÇ G., ÇEVİK U., AĞIRBAŞ E., MAZLUM R. E.
2nd International Science Symposium "Science Festival", 5 - 08 September 2017
- XVIII. **Determination Of The Copper Uptake Capacity Of Baby Clam (*Chamelea gallina* linnaeus, 1758)**

- DALGIÇ G., ŞİRİN M., BALTAŞ H., KIRIŞ E., ERTUĞRAL B., ÇİLOĞLU E., BUĞDAYCI M.
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- XIX. **Distribution Of Natural And Artificial Radioactivity Levels Of Soil Samples In The Coastal Area Of Sinop Province, Turkey**
KIRIŞ E., ŞİRİN M., BALTAŞ H., YEŞİLKANAT C. M. , KARA A.
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- XX. **Experimental study on the biokinetics of Cs-137 in sea snail (Rapana venosa)**
ŞİRİN M., BALTAŞ H., DALGIÇ G., ÇEVİK U., AĞIRBAŞ E., MAZLUM R. E.
2 nd International Science Symposium "Science Festival" (ISS2017), Tiflis, Georgia, 5 - 08 September 2017, pp.128
- XXI. **DETERMINATION OF THE COPPER UPTAKE CAPACITY OF BABY CLAM (Chamelea gallina Linnaeus, 1758)**
DALGIÇ G., ŞİRİN M., BALTAŞ H., KIRIŞ E., ERTUĞRAL B., ÇİLOĞLU E., BUĞDAYCI M.
2 nd International Science Symposium "Science Festival" (ISS2017), Tiflis, Georgia, 5 - 08 September 2017, pp.129
- XXII. **Determination Of The Copper Uptake Capacity Of Baby Clam (Chamelea gallina linnaeus, 1758)**
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- XXIII. **Assessment Of Cu, Zn, As And Pb Concentrations In Soil Samples In The Coastal Area Of Sinop Province, Turkey**
BALTAŞ H., GÖKBAYRAK E., KIRIŞ E., ŞİRİN M., YEŞİLKANAT C. M. , APAYDIN G.
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- XXIV. **ASSESSMENT OF Cu, Zn, As AND Pb CONCENTRATIONS IN SOIL SAMPLES IN THE COASTAL AREA OF SINOP PROVINCE, TURKEY**
BALTAŞ H., GÖKBAYRAK E., KIRIŞ E., ŞİRİN M., YEŞİLKANAT C. M. , APAYDIN G.
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- XXV. **DISTRIBUTION OF NATURAL AND ARTIFICIAL RADIOACTIVITY LEVELS OF SOIL SAMPLES IN THE COASTAL AREA OF SINOP PROVINCE, TURKEY**
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2 nd International Science Symposium "Science Festival" (ISS2017), Tiflis, Georgia, 5 - 08 September 2017, pp.126
- XXVI. **EXPERIMENTAL STUDY ON THE BIOKINETICS OF Cs-137 IN SEA SNAIL (Rapana venosa)**
ŞİRİN M., BALTAŞ H., DALGIÇ G., ÇEVİK U., AĞIRBAŞ E., MAZLUM R. E.
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- XXVII. **DETERMINATION OF THE COPPER UPTAKE CAPACITY OF BABY CLAM (Chamelea gallina Linnaeus, 1758)**
DALGIÇ G., ŞİRİN M., BALTAŞ H., KIRIŞ E., ERTUĞRAL B., ÇİLOĞLU E., BUĞDAYCI M.
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- XXX. **DISTRIBUTION OF NATURAL AND ARTIFICIAL RADIOACTIVITY LEVELS OF SOIL SAMPLES IN THE COASTAL AREA OF SINOP PROVINCE, TURKEY**
KIRIŞ E., ŞİRİN M., BALTAŞ H., YEŞİLKANAT C. M. , KARA A.
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BALTAŞ H., GÖKBAYRAK E., KIRIŞ E., ŞİRİN M., YEŞİLKANAT C. M. , APAYDIN G.
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- XXXIII. **Experimental study on the biokinetics of 137Cs in biota samples**
BALTAŞ H., ŞİRİN M., DALGIÇ G.
The 3rd International Conference on Engineering and Natural Sciences (ICENS), 3 - 07 May 2017
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BALTAŞ H., ŞİRİN M., DALGIÇ G.
The 3rd International Conference on Engineering and Natural Sciences (ICENS), Budapeşte, Hungary, 3 - 07 May 2017, pp.226
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- XXXVII. **Antibiyotik İlaçların Cam Ampul Formu Çözücü Sıvılarında Cam Partikülü Kontaminasyonu**
ERKOÇ HUT A., BAYIR Y., ŞİRİN M.
Ulusal İç Hastalıkları Kongresi, Antalya, Turkey, 12 - 16 October 2016, pp.304
- XXXVIII. **Antibiyotik ilaçların cam ampul formu çözücü sıvılarında cam partikülü kontaminasyonu**
ERKOÇ A., BAYIR Y., ŞİRİN M.
18. Ulusal İç Hastalıkları Kongresi, Antalya, Turkey, 12 - 16 October 2016, pp.304-305
- XXXIX. **Biosynthesis of Silver Nanoparticles by *Bacillus pasteurii* ovit Bacterial Strain**
TUĞAY E., ŞİRİN M., ALPAY KARAOĞLU Ş.
10th Nanoscience and Nanotechnology Conference (NanoTR-10), İstanbul, Turkey, 17 - 21 June 2014, pp.106
- XL. **Biosynthesis of Silver Nanoparticles by *Bacillus pasteurii* ovit Bacterial Strain**
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- XLII. **Determination of some heavy metal levels in fruit and soil samples of cheryry laurel *Prunus laurocerasus* L by using XRF technique**
ŞİRİN M., BALTAŞ H., YILMAZ BAYRAK e.
TÜRK FİZİK DERNEĞİ 30. ULUSLARARASI FİZİK KONGRESİ, İstanbul, Turkey, 02 September 2012 - 05 September 2013
- XLIII. **Determination of Natural Radioactivity Levels in Fruit, Leaf, Core and Soil Samples of Cherry Laurel (*Prunus laurocerasus* L.)**
BALTAŞ H., KIRIŞ E., ŞİRİN M., ERTUGRAL B.
Turkish Physics Society, 30th International Physics Congress, İstanbul, Turkey, 2 - 05 September 2013, pp.144
- XLIV. **Variation of K β Ka X ray İntensity ratio of Zn in ZnO Thin Film Samples**
ŞİRİN M., BALTAŞ H., KESKENLER E. F. , DOĞAN S.
TÜRK FİZİK DERNEĞİ 28. ULUSLARARASI FİZİK KONGRESİ, Muğla, Turkey, 5 - 08 September 2012, pp.53
- XLV. **Investigation of optical parameters at ZnO thin films**
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- XLVI. **Investigation of optical parameters at ZnO thin films**
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- XLVII. **Determination of radioactivity levels and heavy metal in fish *Engraulis Encrasicolus* type consumed in Rize**
BALTAŞ H., ŞİRİN M., ÇEVİK U., AĞIRBAŞ E., DAMLA N.
TÜRK FİZİK DERNEĞİ 28. ULUSLARARASI FİZİK KONGRESİ, Muğla, Turkey, 6 - 09 September 2011, pp.52
- XLVIII. **Variation of $K\beta/K\alpha$ x-ray Intensity Ratio of Zn in ZnO Thin Film Samples**
ŞİRİN M., BALTAŞ H., KESKENLER E. F. , DOĞAN S.
28th International Physics Congress, Muğla, Turkey, 6 - 09 September 2011, pp.99
- XLIX. **Determination of gamma-ray attenuation coefficients in some building materials**
YILMAZ E., KIRIS E., ERTUGRAL B., ŞİRİN M., BALTAŞ H.
28th International Physics Congress of Turkish Physical Society, Muğla, Turkey, 06 September 2011, pp.117
- L. **Determination of gamma-ray attenuation coefficients in some building materials?**
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- LI. **Variation of X-ray intensity ratio of Zn in ZnO thin film samples**
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28th International Physics Congress of Turkish Physical Society, Muğla, Turkey, 6 - 09 September 2011, pp.31
- LII. **Determination of radioactivity levels and heavy metal in fish (*engraulis encrasicolus*) type consume in Rize**
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Supported Projects

- BALTAŞ H., YEŞİLKANAT C. M. , KARA A., KIRIŞ E., ŞİRİN M., GÖKBAYRAK E., Project Supported by Higher Education Institutions, Sinop İlinin Karasal Alanında Toprak Örneklerinde ¹³⁷Cs Radyoaktivite Seviyesinin Belirlenmesi, 2016 - 2018
- BALTAŞ H., DALGIÇ G., KIRIŞ E., ŞİRİN M., APAYDIN G., Project Supported by Higher Education Institutions, Sinop İli Kıyusal Alanda Beyaz Kum Midyesi (*Chamelea gallina*) Örneklerinde Radyolojik Kanser Riskinin Araştırılması, 2016 - 2017
- AKÇAY H. T. , ŞİRİN M., TOKÇALAR S., DEMİR A., BAYAZIT T., Project Supported by Higher Education Institutions, Çeşitli Organik ve İnorganik Bileşiklerin, Doğal Ürünlerin Spektroskopik İncelenmesi, 2014 - 2017
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Edit Congress and Symposium Activities

- 5th International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology (TESNAT 2019), Attendee, Amasya, Turkey, 2019
- INTERNATIONAL ECOLOGY 2018 SYMPOSIUM, Attendee, Kastamonu, Turkey, 2018
- 2 nd International Science Symposium "Science Festival" (ISS2017), Attendee, Tbilisi, Georgia, 2017
- 30th International Physics Congress, Attendee, İstanbul, Turkey, 2013
- 29th International Physics Congress, Attendee, Muğla, Turkey, 2012
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Total Citations (WOS):146

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Awards

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ŞİRİN M., Bölüm Birinciliği, Karadeniz Teknik Üniversitesi Rize Fen Edebiyat Fakültesi, Karadeniz Teknik Üniversitesi, June 2009

ŞİRİN M., Onur Öğrencisi, Karadeniz Teknik Üniversitesi, Karadeniz Teknik Üniversitesi, June 2009