

Assoc. Prof. MURAT ŞİRİN

Personal Information

Office Phone: [+90 464 223 6126](tel:+904642236126) Extension: 1949

Email: muratsirin@erdogan.edu.tr

Web: <https://scholar.google.com.tr/citations?user=rEROKYgAAAAJ&hl=tr&oi=ao>

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**
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- 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.
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- 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.
International Congress on Preventive Dentistry, 5 - 08 March 2018
- XIV. **SMEAR LAYER REMOVAL EFFICIACY 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.
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**
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- XVI. **Determination of the copper uptake capacity of baby clam (*Chamelea gallina* Linnaeus, 1758)**
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- 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.
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- 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
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- XXIII. **Assessment Of Cu, Zn, As And Pb Concentrations In Soil Samples In The Coastal Area Of Sinop Province, Turkey**
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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**
KIRIŞ E., ŞİRİN M., BALTAŞ H., YEŞİLKANAT C. M. , KARA A.
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- 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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ŞİRİN M., BALTAŞ H., DALGIÇ G., ÇEVİK U., AĞIRBAŞ E., MAZLUM R. E.
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- XXXIII. **Experimental study on the biokinetics of 137Cs in biota samples**
BALTAŞ H., ŞİRİN M., DALGIÇ G.
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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.
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- 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.
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- XLIV. **Variation of K β Ka X ray İntensity ratio of Zn in ZnO Thin Film Samples**
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- 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.
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- 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.
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- L. Determination of gamma-ray attenuation coefficients in some building materials?**
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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

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- 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):141

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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