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Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri, Fizik, Turkey 1994 - 1998

Postgraduate, Karadeniz Technical University, Fen Bilimleri, Fizik, Turkey 1991 - 1994

Undergraduate, Karadeniz Technical University, Fen Fakültesi, Fizik, Turkey 1987 - 1991

Dissertations

Doctorate, DEMİR VE KOBALT DİFÜZYONUNUN $YBa_2Cu_3O_7$ SÜPERİLETKENİNİN YAPISAL VE SÜPERİLETKEN ÖZELLİKLERİ ÜZERİNE ETKİSİ, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, 1998

Postgraduate, DOĞU KARADENİZ DİP TORTULARININ X-IŞINI FLORESANS YÖNTEMİYLE İNCELENMESİ, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Fizik Anabilim Dalı, 1994

Research Areas

Physics, Atomic and Molecular Physics, Theory of Atoms and Molecules, Nuclear physics, Radioactive decay and in-beam spectroscopy, Natural Sciences

Academic Titles / Tasks

Professor, Karadeniz Technical University, Fen Fakültesi, Fizik, 2007 - Continues

Associate Professor, Karadeniz Technical University, Fen Fakültesi, Fizik, 2002 - 2007

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Electronic structure and photophysical properties of some promising organic molecules for organic solar cells**
Uzun K. K., Sayin S., ÇEVİK U.
JOURNAL OF MOLECULAR MODELING, vol.29, no.10, 2023 (SCI-Expanded)
- II. **Effect of detector crystal size on Compton suppression factors**
Kaya S., Çelik N., Gök A., ÇEVİK U.
Radiation Effects and Defects in Solids, vol.178, no.11-12, pp.1449-1462, 2023 (SCI-Expanded)

- III. **Radiological health risks assessment and antioxidant activities of beehive honeys: a case study of Manisa province, Turkey**
Şirin M., Baltas N., Demir Kanbur E., Özçelik A. E., Çevik U., Baltas H.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, 2022 (SCI-Expanded)
- IV. **Comparison of charge transport and opto-electronic properties of pyrene and anthracene derivatives for OLED applications**
UZUN K., SAYIN S., TAMER Ö., ÇEVİK U.
Journal Of Molecular Modeling, vol.27, 2021 (SCI-Expanded)
- V. **Radioactivity measurements in spas of central and Eastern Black Sea region, Turkey**
UZUN DURAN S., KÜÇÜKÖMEROĞLU B., ÇEVİK U., ÇELİK N., TAŞKIN H., ERSOY H.
INTERNATIONAL JOURNAL OF RADIATION RESEARCH, no.17, pp.383-391, 2019 (SCI-Expanded)
- VI. **Radioactivity measurements in spas of central and Eastern Black Sea region, Turkey**
UZUN DURAN S., KÜÇÜKÖMEROĞLU B., ÇEVİK U., ÇELİK N., TAŞKIN H., ERSOY H.
INTERNATIONAL JOURNAL OF RADIATION RESEARCH, no.17, pp.383-391, 2019 (SCI-Expanded)
- VII. **Radioactivity measurements in spas of central and Eastern Black Sea region, Turkey**
Duran S., Küçükömeroğlu B., Çevik U., Celik N., Taskin H., Ersoy H.
INTERNATIONAL JOURNAL OF RADIATION RESEARCH, vol.17, no.3, pp.383-391, 2019 (SCI-Expanded)
- VIII. **Comparison of active and passive radon survey in cave atmosphere, and estimation of the radon exposed dose equivalents and gamma absorbed dose rates**
Ozen S. A., ÇEVİK U., TASKIN H.
ISOTOPES IN ENVIRONMENTAL AND HEALTH STUDIES, vol.55, no.1, pp.92-109, 2019 (SCI-Expanded)
- IX. **Evaluation and mapping of radionuclides in the terrestrial environment and health hazard due to soil radioactivity in Artvin, Turkey**
Taskin H., YEŞİLKANAT C. M., KOBYA Y., ÇEVİK U.
ARABIAN JOURNAL OF GEOSCIENCES, vol.11, no.23, 2018 (SCI-Expanded)
- X. **The effect of energy resolution of detection instrument on mass attenuation coefficient**
Celik N., Ozen S. A., Demirtas O. F., Cevik U.
JOURNAL OF INSTRUMENTATION, vol.13, 2018 (SCI-Expanded)
- XI. **Investigation of heavy metal distributions along 15m soil profiles using EDXRF, XRD, SEM-EDX, and ICP-MS techniques**
Ozen S. A., ÖZKALAYCI F., ÇEVİK U., VAN GRIEKEN R.
X-RAY SPECTROMETRY, vol.47, no.3, pp.231-241, 2018 (SCI-Expanded)
- 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., DALGIC G., ÇEVİK U.
JOURNAL OF MARINE SYSTEMS, vol.177, pp.21-27, 2018 (SCI-Expanded)
- XIII. **Interpolated mapping and investigation of environmental radioactivity levels in soils and mushrooms in the Middle Black Sea Region of Turkey**
Turkekul I., Yesilkanat C. M., CIRIS A., KOLEMEN U., ÇEVİK U.
ISOTOPES IN ENVIRONMENTAL AND HEALTH STUDIES, vol.54, no.3, pp.262-273, 2018 (SCI-Expanded)
- XIV. **Spatial interpolation and radiological mapping of ambient gamma dose rate by using artificial neural networks and fuzzy logic methods**
Yesilkanat C. M., Kobya Y., TASKIN H., ÇEVİK U.
JOURNAL OF ENVIRONMENTAL RADIOACTIVITY, vol.175, pp.78-93, 2017 (SCI-Expanded)
- XV. **Radioactivity measurements and risk assessments of spa waters in some areas in Turkey**
DURAN S., KÜÇÜKÖMEROĞLU B., Damla N., TASKIN H., Celik N., ÇEVİK U., ERSOY H.
ISOTOPES IN ENVIRONMENTAL AND HEALTH STUDIES, vol.53, no.1, pp.91-103, 2017 (SCI-Expanded)
- XVI. **Radiological maps in beach sands along some coastal regions of Turkey**
KÜÇÜKÖMEROĞLU B., Karadeniz A., Damla N., Yesilkanat C. M., ÇEVİK U.
MARINE POLLUTION BULLETIN, vol.112, pp.255-264, 2016 (SCI-Expanded)
- XVII. **Indoor radon and gamma spectrometric measurements for the Erzincan Basin on North Anatolian**

Fault Zone, Turkey

KÜÇÜKÖMEROĞLU B., ÖZTÜRK E., Damla N., Celik N., DURAN S., ÇEVİK U., TASKIN H., ALBAYRAK N.
INDOOR AND BUILT ENVIRONMENT, vol.25, no.5, pp.857-866, 2016 (SCI-Expanded)

- XVIII. **Distribution of Cs-137 in the Mediterranean mussel (*Mytilus galloprovincialis*) in Eastern Black Sea Coast of Turkey**
BALTAS H., KIRIS E., DALGIC G., ÇEVİK U.
MARINE POLLUTION BULLETIN, vol.107, no.1, pp.402-407, 2016 (SCI-Expanded)
- XIX. **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 (SCI-Expanded)
- XX. **A New Approach for Determination of Volumetric Water Content in Soil Samples by Gamma-Ray Transmission**
Celik N., Altin D., ÇEVİK U.
WATER AIR AND SOIL POLLUTION, vol.227, no.6, 2016 (SCI-Expanded)
- XXI. **Dose rate estimates and spatial interpolation maps of outdoor gamma dose rate with geostatistical methods; A case study from Artvin, Turkey**
Yesilkanat C. M., Kobya Y., TASKIN H., ÇEVİK U.
JOURNAL OF ENVIRONMENTAL RADIOACTIVITY, vol.150, pp.132-144, 2015 (SCI-Expanded)
- XXII. **Evaluation of Outdoor Gamma Dose Rate and Cancer Risk in Artvin Province, Turkey**
Kobya Y., TASKIN H., Yesilkanat C. M., ÇEVİK U.
HUMAN AND ECOLOGICAL RISK ASSESSMENT, vol.21, no.8, pp.2077-2085, 2015 (SCI-Expanded)
- XXIII. **Building-up a code for the purpose of TRUE coincidence summing correction in gamma-ray spectrometry with EGS4**
Celik N., Altin D., ÇEVİK U.
RADIATION PHYSICS AND CHEMISTRY, vol.115, pp.158-163, 2015 (SCI-Expanded)
- XXIV. **Radioactivity Survey and Risk Assessment Study for Drinking Water in the Artvin Province, Turkey**
KOBYA Y., Taskin H., YEŞİLKANAT C. M., ÇEVİK U., Karahan G., ÇAKIR B.
WATER AIR AND SOIL POLLUTION, vol.226, no.3, 2015 (SCI-Expanded)
- XXV. **Precision and accuracy of ST-EDXRF performance for As determination comparing with ICP-MS and evaluation of As deviation in the soil media**
AKBULUT S., ÇEVİK U., VAN A. A., DE WAEL K., VAN GRIEKEN R.
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- XXVI. **ACCUMULATION OF METALS IN ROADSIDE SOIL, DUST AND PINE NEEDLES IN DIFFERENT CHARACTERISTIC TRAFFIC AREAS**
AKBULUT S., ÇEVİK U.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.23, pp.516-522, 2014 (SCI-Expanded)
- XXVII. **Lead adsorption capacity of some moss species used for heavy metal analysis**
Koz B., ÇEVİK U.
ECOLOGICAL INDICATORS, vol.36, pp.491-494, 2014 (SCI-Expanded)
- XXVIII. **Decaying source model: Alternative approach to determination of true counting rates at X and gamma ray counting systems**
Karabidak S. M., ÇEVİK U.
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- XXIX. **Assessment of Radiological Levels at Schools in Trabzon, Turkey**
ÇEVİK U., Celik A., Celik N., Ozkalayci F., Akbulut S.
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- XXX. **Identification of heavy metal origins related to chemical and morphological soil properties using several non-destructive X-ray analytical methods**
Akbulut S., GRIEKEN R., KILIC M. A., ÇEVİK U., ROTONDO G. G.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.185, no.3, pp.2377-2394, 2013 (SCI-Expanded)

- XXXI. **Gross alpha and beta activities of airborne particulate samples from Wawel Royal Castle Museum in Cracow, Poland**
AKBULUT S., KRUPINSKA B., WOROBIEC A., ÇEVİK U., TASKIN H., VAN GRIEKEN R., SAMEK L., WILKOJC E.
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.295, no.2, pp.1567-1573, 2013 (SCI-Expanded)
- XXXII. **BIOMONITORING OF HEAVY METALS BY MOSS AND SOIL AROUND AFSIN-ELBISTAN COAL-FIRED POWER PLANT IN THE EAST-MEDITERRANEAN REGION OF TURKEY**
Koz B., ÇEVİK U., AKBULUT S.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.22, pp.3751-3758, 2013 (SCI-Expanded)
- XXXIII. **HEAVY METAL ANALYSIS BY MOSS SPECIES IN THE BLACK SEA REGION OF TURKEY**
Koz B., ÇEVİK U., BULUT V. N., Kaya S., Gundogdu A., Celik N.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.22, pp.1287-1295, 2013 (SCI-Expanded)
- XXXIV. **Polarized-Beam High-Energy EDXRF in Geological Samples**
ÇEVİK U., Akbulut S., MAKAROVSKA Y., Van Grieken R.
SPECTROSCOPY LETTERS, vol.46, no.1, pp.36-46, 2013 (SCI-Expanded)
- XXXV. **A study of environmental radioactivity measurements in the Samsun province, Turkey**
KÜÇÜKÖMEROĞLU B., MAKSUTOĞLU F., Damla N., ÇEVİK U., CELEBI N.
RADIATION PROTECTION DOSIMETRY, vol.152, no.4, pp.369-375, 2012 (SCI-Expanded)
- XXXVI. **Radiological significance of coal, slag and fly ash samples from the Eastern Black Sea region**
Damla N., ÇEVİK U., Kara A.
KERNTECHNIK, vol.77, no.5, pp.395-400, 2012 (SCI-Expanded)
- XXXVII. **Heavy metal analysis around Murgul (Artvin) copper mining area of Turkey using moss and soil**
Koz B., ÇEVİK U., Akbulut S.
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- XXXVIII. **Calculation of radiation attenuation coefficients, effective atomic numbers and electron densities for some building materials**
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- XXXIX. **Effect of detector collimation on the measured mass attenuation coefficients of some elements for 59.5-661.6 keV gamma-rays**
Celik N., ÇEVİK U., Celik A.
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.281, pp.8-14, 2012 (SCI-Expanded)
- XL. **Virtual point detector for HPGe detectors for 26.6-1332 keV photon energies by experiment and Monte Carlo simulation**
Celik N., ÇEVİK U., KÜÇÜKÖMEROĞLU B.
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- XLII. **Mineralogical, geochemical and radiological characterisation of Selmo Formation in Batman area, Turkey**
Isik U., Damla N., Akkoca D. B., ÇEVİK U.
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- XLII. **ELEMENTAL AND RADIOACTIVITY ANALYSES OF MOSSES COLLECTED IN HATILA VALLEY NATIONAL PARK - EASTERN BLACK SEA REGION OF TURKEY**
Koz B., ÇEVİK U., Celik N.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.21, no.1, pp.94-100, 2012 (SCI-Expanded)
- XLIII. **Radiochemical characterization of mineral waters in the Eastern Black Sea Region, Turkey**
Kobyas Y., Damla N., ÇEVİK U., KOBYA A. İ.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.182, pp.415-422, 2011 (SCI-Expanded)
- XLIV. **Radon level and indoor gamma doses in dwellings of Trabzon, Turkey**
KURNAZ A., KÜÇÜKÖMEROĞLU B., ÇEVİK U., CELEBI N.
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- XLV. **Gamma ray and neutron shielding properties of some concrete materials**

YILMAZ E., BALTAŞ H., KIRIŞ E., USTABAS I., ÇEVİK U., EL-KHAYATT A. M.

ANNALS OF NUCLEAR ENERGY, vol.38, no.10, pp.2204-2212, 2011 (SCI-Expanded)

- XLVI. **Assessment of natural radioactivity and mass attenuation coefficients of brick and roofing tile used in Turkey**
Damla N., ÇEVİK U., KOBYA A. I., Celik A., Celik N., YILDIRIM İ.
RADIATION MEASUREMENTS, vol.46, no.8, pp.701-708, 2011 (SCI-Expanded)
- XLVII. **K-beta/K-alpha X-Ray Intensity Ratios for Co, Ni, Cu, and Zn in Phthalocyanines Complexes**
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- XLVIII. **Radiological characterisation of Artvin and Ardahan provinces of Turkey**
KÜÇÜKÖMEROĞLU B., YEŞİLBAĞ Y. Ö., KURNAZ A., Celik N., ÇEVİK U., CELEBI N.
RADIATION PROTECTION DOSIMETRY, vol.145, no.4, pp.389-394, 2011 (SCI-Expanded)
- XLIX. **Determination of proper peaking time for Ultra-LEGe detector**
KARABIDAK S. M., Kaya S., ÇEVİK U., Celik A.
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- L. **Radiological maps for Trabzon, Turkey**
KURNAZ A., KÜÇÜKÖMEROĞLU B., Damla N., ÇEVİK U.
JOURNAL OF ENVIRONMENTAL RADIOACTIVITY, vol.102, no.4, pp.393-399, 2011 (SCI-Expanded)
- LI. **Chemical composition of building materials used in Turkey**
ÇEVİK U., Damla N., Van Grieken R., AKPINAR M. V.
CONSTRUCTION AND BUILDING MATERIALS, vol.25, no.4, pp.1546-1552, 2011 (SCI-Expanded)
- LII. **Radon Survey and Exposure Assessment in Karaca and Cal Caves, Turkey**
ÇEVİK U., Kara A., CELIK N., KARABIDAK M., Celik A.
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- LIII. **Radiation dose estimation and mass attenuation coefficients of marble used in Turkey**
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- LIV. **Assessment of natural radiation exposure levels and mass attenuation coefficients of lime and gypsum samples used in Turkey**
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- LV. **Radiological and chemical assessment of phosphate rocks in some countries**
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- LVI. **Monte Carlo determination of water concentration effect on gamma-ray detection efficiency in soil samples**
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- LVII. **Biomonitoring of heavy metals by epiphytic lichen species in Black Sea region of Turkey**
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- LVIII. **Heavy metal analysis around Iskenderun Bay in Turkey**
ÇEVİK U., Koz B., MAKAROVSKA Y.
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- LX. **Assessment of environmental radioactivity for Batman, Turkey**
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- LXI. **Gamma ray concentrations in soil and building materials in Ordu, Turkey**

- CELİK N., DAMLA N., ÇEVİK U.
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- LXII. **MONTE CARLO DETERMINATION OF INHOMOGENEITY EFFECT ON GAMMA-RAY DETECTION EFFICIENCY IN SOIL SAMPLES**
CELİK N., ÇEVİK U.
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- LXIII. **Radiological Characterization of Natural Spring Waters in Eastern Black Sea Region, Turkey**
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- LXIV. **Characterization of gas concrete materials used in buildings of Turkey**
DAMLA N., ÇEVİK U., KOBYA A. I., Celik A., VAN GRIEKEN R., KOBYA Y.
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- LXV. **Radioactivity and heavy metal levels in hazelnut growing in the Eastern Black Sea Region of Turkey**
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- LXVI. **Environmental radioactivity assessment for Bayburt, Turkey**
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- LXVII. **Determination of gross alpha and beta activities in waters from Batman, Turkey**
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- LXVIII. **A new method to compensate for counting losses due to system dead time**
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- LXIX. **Nickel diffusion in polycrystalline CuInSe₂ thin films with a < 112 > fiber texture**
Celik A., ÇEVİK U., BACAŞIZ E., CELİK N.
THIN SOLID FILMS, vol.517, no.9, pp.2851-2854, 2009 (SCI-Expanded)
- LXX. **Assessment of natural radioactivity of sand used in Turkey**
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- LXXI. **Natural and artificial radioactivity measurements in Eastern Black Sea region of Turkey**
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- LXXII. **Variation of K X-ray fluorescence cross-sections of Cu, Y and Ba in YBa₂Cu₃O_{7-δ} superconductor**
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- LXXIII. **Ecological half-life of Cs-137 in mosses and lichens in the Ordu province, Turkey by Cevik and Celik**
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- LXXIV. **Assessment of metal element concentrations in mussel (*M. Galloprovincialis*) in Eastern Black Sea, Turkey**
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- LXXV. **Radioactivity in sediments and gross alpha-beta activities in surface water of Firtina River, Turkey**
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- LXXVI. **Effective atomic numbers and electron densities of CuGaSe₂ semiconductor in the energy range 6-511 keV**
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- LXXVII. **Effective atomic numbers and electron densities for CdSe and CdTe semiconductors**
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- LXXVIII. **Determination of indoor radon and soil radioactivity levels in Giresun, Turkey**
 CELİK N., ÇEVİK U., Celik A., KÜÇÜKÖMEROĞLU B.
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- LXXIX. **Investigation of the dependency of the upper critical magnetic field on the content x in Y_{1-x}Yb_x/2Gdx/2Ba₂Cu₃O_{7-y} superconducting structures**
 Celik S., Oeztuerk K., ÇEVİK U., YANMAZ E.
 JOURNAL OF ALLOYS AND COMPOUNDS, vol.460, pp.79-82, 2008 (SCI-Expanded)
- LXXX. **Investigation of some superconducting properties of ytterbium diffusion-doped YBa₂Cu₃O_{7-x} superconductors**
 Oeztuerk K., Celik S., ÇEVİK U., YANMAZ E.
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Non Academic Experience

Antwerp Üniversitesi