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Eğitim Bilgileri

Doktora, Bursa Uludağ Üniversitesi, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (Dr), Türkiye 2006 - 2012

Yüksek Lisans, Bursa Uludağ Üniversitesi, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (Yıl) (Tezli), Türkiye 2004 - 2006

Lisans, Bursa Uludağ Üniversitesi, FEN-EDEBİYAT FAKÜLTESİ, Fizik Bölümü, Türkiye 1999 - 2003

Yaptığı Tezler

Doktora, Uludağ'ın bazı epifitik likenlerindeki radyonüklid dağılımının incelenmesi, Bursa Uludağ Üniversitesi, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (Dr), 2012

Yüksek Lisans, Bursa Katırlı dağı karayosunlarında radyasyon taraması, Bursa Uludağ Üniversitesi, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (Yıl) (Tezli), 2006

Araştırma Alanları

Temel Bilimler, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Araştırma Görevlisi, Bursa Uludağ Üniversitesi, FEN-EDEBİYAT FAKÜLTESİ, FİZİK, 2008 - 2017

Verdiği Dersler

FZK1085 FİZİK, Lisans, 2017 - 2018

Yönetilen Tezler

KAHRAMAN A., Yb2O3/SiO₂ yığın kapı oksit tabakasının MOS tabanlı radyasyon sensörlerinde duyar bölge olarak

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Stereotactic radiotherapy for brain metastases in patients with non-small cell lung cancer: CyberKnife-M6 experience**
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- II. **Dosimetric Comparison of Free- Breathing versus Respiratory Motion-managed Radiotherapy with 4D-CT Based VMAT in Lung Cancer**
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- IV. **Effect of high-radiation-dose-induced structural modifications of HfSiO₄/n-Si on electrical characteristics**
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- V. **Investigation of parameters of new MAPD-3NM silicon photomultipliers**
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- VI. **The relationship between structural and electrical properties of the post-deposition annealed Er₂O₃/n-Si hetero-structures**
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- VII. **Effects of the oxide/interface traps on the electrical characteristics in Al/Yb₂O₃/SiO₂/n-Si/Al MOS capacitors**
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- IX. **The effect and nature of the radiation induced oxide-interface traps on the performance of the Yb₂O₃ MOS device**
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- X. **Influence of frequency and gamma irradiation on the electrical characteristics of Er₂O₃, Gd₂O₃, Yb₂O₃, and HfO₂ MOS-based devices**
KAHRAMAN A., Deevi S. C., YILMAZ E.
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- XI. **Impact and origin of the oxide-interface traps in Al/Yb₂O₃/n-Si/Al on the electrical characteristics**
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- XII. **A comprehensive study on usage of Gd₂O₃ dielectric in MOS based radiation sensors considering frequency dependent radiation response**
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- RADIATION PHYSICS AND CHEMISTRY, cilt.152, ss.36-42, 2018 (SCI-Expanded)
- XIII. **Impact of interfacial layer using ultra-thin SiO₂ on electrical and structural characteristics of Gd₂O₃ MOS capacitor**
KAHRAMAN A., Gurer U., LÖK R., KAYA S., YILMAZ E.
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- XIV. **Understanding of post deposition annealing and substrate temperature effects on structural and electrical properties of Gd₂O₃ MOS capacitor**
KAHRAMAN A.
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- XV. **Proposal of alternative sensitive region for MOS based radiation sensors: Yb₂O₃**
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- XVI. **Irradiation response of radio-frequency sputtered Al/Gd₂O₃/p-Si MOS capacitors**
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- XVII. **Investigation of RadFET response to X-ray and electron beams**
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- XVIII. **The Investigation of Radionuclide Concentrations in Soil and Lifetime Cancer Risk Due to Gamma Radioactivity in Zonguldak, Turkey**
Koray A., Akkaya G., Kahraman A., Kaynak G., Baldik R.
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- XIX. **Variation in the radon concentrations and outdoor gamma radiation levels in relation to different geological formations in the thermal regions of Bursa, Turkey**
AKKAYA G., KAHRAMAN A., Koray A., Kaynak G.
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- XX. **Evaluation of Radiation Sensor Aspects of Er₂O₃ MOS Capacitors under Zero Gate Bias**
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- XXI. **Effects of post deposition annealing, interface states and series resistance on electrical characteristics of HfO₂ MOS capacitors**
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- XXII. **Effects of packing materials on the sensitivity of RadFET with HfO₂ gate dielectric for electron and photon sources**
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- XXIII. **Frequency dependent gamma-ray irradiation response of Sm₂O₃ MOS capacitors**
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- XXV. **MEASUREMENTS OF RADON CONCENTRATIONS IN WATERS AND SOIL GAS OF ZONGULDAK, TURKEY**
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 Kahraman A., Poffijn A., Kaynak G.
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- XXVIII. **Radioactivity measurements in epiphytic lichens of Uludag Mountain in Western Anatolia**
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- XXIX. **The investigation of radionuclide distributions in soil samples collected from Bursa, Turkey**
 Akkaya G., Kaynak G., Kahraman A., Gurler O.
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- XXX. **MEASUREMENTS OF RADIUM LEVELS IN BOTTLED NATURAL SPRING WATER OF MARMARA REGION (TURKEY)**
 AKAR TARIM Ü., GÜRLER O., KAHRAMAN A., Yalcin S., Kaynak G., Gundogdu O.
 ROMANIAN JOURNAL OF PHYSICS, cilt.57, ss.1204-1210, 2012 (SCI-Expanded)
- XXXI. **MEASUREMENTS OF RADON LEVELS IN THERMAL WATERS OF BURSA, TURKEY**
 GÜRLER O., AKAR TARIM Ü., KAHRAMAN A., Yalcin S., Kaynak G., Gundogdu O.
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- XXXII. **Calculation of angular distribution of 662 keV gamma rays by Monte Carlo method in copper medium**
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- XXXIII. **Investigation of environmental contamination in lichens of Gokceada (Imbroz) Island in Turkey**
 Kahraman A., Kaynak G., Gurler O., Yalcin S., Ozturk Ş., Gundogdu O.
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Diger Dergilerde Yayınlanan Makaleler

- I. **Dose responses of the SiO₂ used in radiation sensors in field effect transistor form**
 KAHRAMAN A., MORKOÇ B., YILMAZ O., YILMAZ E.
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- II. **18 MV'luk Harici İşinimin Kullanıldığı Radyasyon Terapisinde RadFET Radyasyon Sensörleri**
 MORKOÇ B., KAHRAMAN A., YEĞEN D., YILMAZ E.
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- III. **Electrical Parameters of the Erbium Oxide MOS Capacitor for Different Frequencies**
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- IV. **Effects of interface states and series resistance on the electrical characteristic of Sc203 MOS capacitor**
 KAHRAMAN A., YILMAZ E.
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- V. **Farklı kapı oksitli RadFET dozimetrelerinin ışınlama öncesi elektriksel karakterizasyonlarının TCAD simülasyon programı ile değerlendirilmesi**
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- VI. **FARKLI B İMLANTASYON KOŞULLARI İÇİN RADFET'LERİN ELEKTRİKSEL KARAKTERİZASYONUNUN TCAD BENZETİM PROGRAMI İLE İNCELENMESİ**
 KAHRAMAN A., YILMAZ E.
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- VII. **Correlation of radon and thoron concentrations with natural radioactivity of soil in Zonguldak, Turkey**
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- VIII. **Mosses beta radioactivity in Katırlı mountain-Bursa, Turkey**
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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Silicon based P-I-N photodiode design by using TCAD simulation**
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INTERNATIONAL CONFERENCE ON RADIATION APPLICATIONS (RAP 2022), Thessaloniki, Yunanistan, 6 - 10 Haziran 2022
- II. **Gamma radiation effects on the electrical and structural properties of the HfSiO₄ n-MOS**
KAHRAMAN A., YILMAZ E.
INTERNATIONAL CONFERENCE ON RADIATION APPLICATIONS (RAP 2021), 6 - 08 Eylül 2021
- III. **ELECTRICAL CHARACTERISTIC AND RADIATION RESPONSE OF AL/YB2O3/SIO₂/N-SI/AL MOS CAPACITOR**
MORKOÇ B., KAHRAMAN A., YILMAZ E.
TURKISH PHYSICAL SOCIETY 37TH INTERNATIONAL PHYSICS CONGRESS, 1 - 05 Eylül 2021
- IV. **IRRADIATION EFFECT ON Er₂O₃/n-Si STRUCTURE UNDER HIGH GAMMA-RAY DOSE**
KAHRAMAN A., MORKOÇ B., MUTALE A., GÜRLER O., YILMAZ E.
International Conference on Radiation Applications, 1 - 05 Haziran 2019
- V. **Influence of 18 MV X-Ray on the Electrical Characteristics of RadFET Radiation**
KAHRAMAN A., YILMAZ E., YEĞEN D., JAKSIC A.
4th INTERNATIONAL CONFERENCE ON COMPUTATIONAL AND EXPERIMENTAL SCIENCE AND ENGINEERING (ICCESEN-2017), 4 - 08 Ekim 2017
- VI. **Zero bias gamma irradiation effects on Yb₂O₃ MOS devices**
KAHRAMAN A., YILMAZ E.
Turkish Physical Society 33rd International Physics Congress, 6 - 10 Eylül 2017
- VII. **Post deposition annealing effects on the electrical characteristics of Er₂O₃ MOS capacitors**
YILMAZ E., KAHRAMAN A.
Turkish Physical Society 33rd International Phycis Congress, 6 - 10 Eylül 2017
- VIII. **Sc₂O₃ MOS KAPASİTÖRÜNÜN ELEKTRİKSEL KARAKTERİSTİĞİNİN FREKANSA BAĞLI İNCELENMESİ**
KAHRAMAN A., YILMAZ E.
ADIMFİZİK GÜNLERİ VI, 19 - 21 Temmuz 2017
- IX. **DETERMINATION OF GAMMA IRRADIATION RESPONSE OF Gd₂O₃ MOS CAPACITORS AT LOW FREQUECNY**
KAHRAMAN A., YILMAZ E.
FIFTH INTERNATIONAL CONFERENCEON RADIATION AND APPLICATIONS IN VARIOUS FIELDS OF RESEARCH, 12 - 16 Haziran 2017
- X. **Correlation of Radon and Thoron Concentrations with Natural Radioactivity of Soil in Zonguldak, Turkey**
Koray A., AKKAYA G., KAHRAMAN A.
32nd International Physics Congress of Turkish-Physical-Society (TPS), Bodrum, Türkiye, 6 - 09 Eylül 2016, cilt.1815
- XI. **Gd₂O₃ MOS Kapasitörlerin Radyasyon Cevaplarının İncelenmesi**
KAHRAMAN A., YILMAZ E.
XI. Ulusal Nükleer Bilimler ve Teknolojileri Kongresi, Türkiye, 12 - 14 Ekim 2016

- XII. Comparison of Simulation and Experimental Results of Packaging Materials on Radiation Sensitivity of NürFETs**
KAYA Ş., KAHRAMAN A., LÖK R., KARAÇALI H., AKTAĞ A., YILMAZ E.
10th International Conference on Luminescence and ESR Dosimetry, 5 - 07 Eylül 2016
- XIII. INVESTIGATION OF RADFET RESPONSE TO X RAY AND ELECTRON BEAMS IN REFERENCE CONDITIONS**
YILMAZ E., KAHRAMAN A., Yeğen D., JAKSIC A.
Forth International Conference on Radiation and Applications in Various Fields of Research, 23 - 27 Mayıs 2016
- XIV. A DETAILED STUDY OF THE RADIATION RESPONSE OF ER203 MOS CAPACITOR UNDER ZERO GATE BIAS**
KAHRAMAN A., YILMAZ E., AKTAĞ A., KAYA Ş.
Fourth International Conference on Radiation and Applications in Various Fields of Research, 23 - 27 Mayıs 2016
- XV. A Detailed Study on Dosimetry Aspects of Gd203 MOS Capacitor under Zero Gate Bias**
YILMAZ E., KAHRAMAN A., LÖK R., AKTAĞ A.
A Meeting of the Materials Research Society, 28 Mart - 01 Nisan 2016
- XVI. THE EFFECTS OF PACKAGE MATERIALS ON THE SENSITIVITY OF RADFET FOR ELECTRON AND PHOTON SOURCES**
KAHRAMAN A., KAYA Ş., ALİ OSMAN Ç., AKTAĞ A., TURAN R., YILMAZ E.
Third International Conference on Radiation and Applications in various Fields of Research, 8 - 12 Haziran 2015
- XVII. IRRADIATION RESPONSE OF P AND N TYPE Sm203 MOS CAPACITORS**
KAYA Ş., ALİ OSMAN Ç., KAHRAMAN A., KARAÇALI H., YILMAZ E., TURAN R.
Third International Conference on Radiation and Applications in various Fields of Research, 8 - 12 Haziran 2015
- XVIII. Investigation of photons with 662 and 1250 keV in Lead Media by PENELope Monte Carlo Simülation code**
LÖK R., YILMAZ E., KAHRAMAN A., KARAÇALI H., KAYA Ş., AKTAĞ A., SARAÇ H.
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- XIX. Usability of Sm203 as a Dielectric Layer in MOS Based Applications**
KAYA Ş., ALİ OSMAN Ç., KAHRAMAN A., KARAÇALI H., AKTAĞ A., YILMAZ E.
2015 MRS Spring Meeting & Exhibit, 6 - 10 Nisan 2015
- XX. The effects of package materials on the sensitivity of RadFET with HfO₂ gate dielectric for electron and photon sources**
KAHRAMAN A., KAYA Ş., AKTAĞ A., YILMAZ E.
25th Seminar on Activation Analysis and Gamma Spectroscopy (SAAGAS), Aachen, Germany, Aachen, Almanya, 23 - 25 Şubat 2015
- XXI. Measurement of Radon Level in Dwellings of the Yıldırım County in Bursa**
KAHRAMAN A., ANDRE P., KAYNAK Z. G.
3rd International Advances in Applied Physics & Materials Sciences Congress APMAS2013, Antalya, Türkiye, 24 - 28 Nisan 2013
- XXII. Effect of Thermal Annealing on the Sensitivity of Makrofol DE Polycarbonate**
KAHRAMAN A., ANDRE P., KAYNAK Z. G.
3rd International Advances in Applied Physics & Materials Sciences Congress APMAS2013, Antalya, Türkiye, 24 - 28 Nisan 2013
- XXIII. Uludağ in bazı bölgelerindeki musluk ve yeraltı sularında yaz mevsimi radon gazı seviyelerinin jeolojik yapıya bağlı olarak incelenmesi**
KAHRAMAN A., AKKAYA G., KAYNAK Z. G.
3. Uluslararası su kongresi ve sergisi, 22 - 24 Mart 2013
- XXIV. Büyükorhan Bursa Doğal Kaynak Sularının Yaz Mevsimi Radon Konsantrasyonlarının ve Doz Değerlerinin Araştırılması**
AKKAYA G., KAHRAMAN A., KAYNAK Z. G.
3. Uluslararası Bursa Su Kongresi ve Sergisi, Bursa, Türkiye, 22 - 24 Mart 2013

- XXV. **Measurements of Radon Concentrations in Waters of Zonguldak Turkey**
KORAY A., AKKAYA G., KAHRAMAN A., KAYNAK Z. G.
3. Uluslararası Bursa Su Kongresi ve Sergisi, Bursa, Türkiye, 22 - 24 Mart 2013
- XXVI. **Uludağ in Bazı Bölgelerindeki Musluk ve Yeraltı Sularında Yaz Mevsimi Radon Gazı Seviyelerinin Jeolojik Yapıya Bağlı Olarak İncelenmes**
KAHRAMAN A., AKKAYA G., KAYNAK Z. G.
3. Uluslararası Bursa Su Kongresi ve Sergisi, Bursa, Türkiye, 22 - 24 Mart 2013
- XXVII. **RADON CONCENTRATIONS IN THERMAL WATERS IN BURSA PROVINCE AND THE ASSOCIATED HEALTH EFFECTS**
AKKAYA G., KAHRAMAN A., KAYNAK Z. G.
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- XXVIII. **ASSESSMENT OF GAMMA DOSE RATES IN BÜYÜKORHAN BURSA**
AKKAYA G., KAHRAMAN A., KAYNAK Z. G.
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- XXIX. **EVALUATION OF RADON CONCENTRATION IN GROUNDWATER DURING SPRING SEASON IN BÜYÜKORHAN TOWNSHIP OF BURSA PROVINCE**
AKKAYA G., KAHRAMAN A., KAYNAK Z. G.
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- XXX. **Heating Effect upon the Background Track Signal of Makrofol DE**
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- XXXI. **Measurement of the radon concentrations in drinking water in Uludag during spring season**
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- XXXII. **Assesment of Gamma Dose Rate Levels in Uludag Mountain**
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- XXXIII. **Assesment of Gamma Dose Rates in Büyükorhan Bursa**
AKKAYA G., KAHRAMAN A., KAYNAK Z. G.
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- XXXIV. **Radon Concentrations in Thermal Waters in Bursa Province and The Associated Health Effects**
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- XXXV. **Evaluation of radon concentration in groundwater during spring season in Büyükorhan township of Bursa province**
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- XXXVI. **Application of Decomposition Techniques to measured spectra of ^{137}Cs**
AKKAYA G., KAHRAMAN A., KAYNAK Z. G., GÜRLER O., YALÇIN S.
10 th International Balkan Workshop on Applied Physics, Constanta, Romanya, 6 - 08 Temmuz 2009
- XXXVII. **The Beta Radioactivity Measurements in Lichens of Katırlı Mountain Bursa Turkey**
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