

Prof. HALUK UTKU

Personal Information

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Education Information

Doctorate, University Of Cincinnati, Faculty Of Engineering, Department Of Mine, United States Of America 1986 - 1990

Postgraduate, İstanbul Teknik Üniversitesi, Nükleer Enerji Enstitüsü, Turkey 1981 - 1984

Undergraduate, İstanbul Üniversitesi, Fen Fakültesi, Astronomi-Fizik, Turkey 1974 - 1978

Foreign Languages

English, C1 Advanced

Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Biophysics and Medical Physics, Natural Sciences

Academic Titles / Tasks

Professor, Hacettepe Üniversitesi, Nükleer Bilimler Enstitüsü, Nükleer Bilimler Anabilim Dalı, 2003 - Continues

Associate Professor, Hacettepe Üniversitesi, Nükleer Bilimler Enstitüsü, 1995 - 2003

Assistant Professor, Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 1991 - 1994

Academic and Administrative Experience

Hacettepe Üniversitesi, Nükleer Bilimler Enstitüsü, 2012 - 2016

Hacettepe Üniversitesi, Nükleer Bilimler Enstitüsü, Nükleer Bilimler Anabilim Dalı, 2003 - 2008

Courses

İLERİ RADYOTERAPİ FİZİĞİ DOZİMETRESİ, Doctorate, 2016 - 2017

Advising Theses

UTKU H., Alzheimer'lı dokuda protein dağılımının sinkrotron kızılötesi soğurma spektrumları yardımı ile haritalanması,

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

- I. **Synchrotron FT-IR microspectroscopic analysis of necrotic bone**
Bayari S. H. , UTKU H., IKEMOTO Y., Celasun B., Koemuercue M., ATIK A.
SPECTROSCOPY-AN INTERNATIONAL JOURNAL, vol.21, no.4, pp.227-234, 2007 (Journal Indexed in SCI)
- II. **Wavelets as a powerful method to filter IR spectra**
Utku H., PIRAVADILI S.
INFRARED PHYSICS & TECHNOLOGY, vol.49, pp.167-172, 2006 (Journal Indexed in SCI)
- III. **Discrimination of brain's neuroelectric responses by a decision-making function**
Utku H., ERZENGIN O., CAKMAK E., Karakaş S.
JOURNAL OF NEUROSCIENCE METHODS, vol.114, no.1, pp.25-31, 2002 (Journal Indexed in SCI)
- IV. **Application of the feature selection method to discriminate digitized wheat varieties**
Utku H.
JOURNAL OF FOOD ENGINEERING, vol.46, no.3, pp.211-216, 2000 (Journal Indexed in SCI)
- V. **Classification of barleys based on malting quality by image analysis**
Utku H., KOKSEL H., OZKARA R.
JOURNAL OF THE INSTITUTE OF BREWING, vol.104, no.6, pp.351-354, 1998 (Journal Indexed in SCI)
- VI. **Use of statistical filters in the classification of wheats by image analysis**
Utku H., KOKSEL H.
JOURNAL OF FOOD ENGINEERING, vol.36, no.4, pp.385-394, 1998 (Journal Indexed in SCI)
- VII. **Classification of wheat grains by digital image analysis using statistical filters (Reprinted from Wheat: Prospects for global improvement, 1998)**
Utku H., KOKSEL H., KAYHAN S.
EUPHYTICA, vol.100, pp.171-178, 1998 (Journal Indexed in SCI)
- VIII. **Investigation of the temporal subdomain method for solving the finite element formulation of the space-time reactor kinetics equations**
UTKU H., CHRISTENSON J. M.
Nuclear Science and Engineering, vol.116, no.1, pp.55-66, 1994 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Determination of inflection points of CyberKnife dose profiles within acceptability criteria of deviations in measurements**
SARIGÜL N., YEDEKÇİ F. Y. , YEĞİNER M., AKYOL F., UTKU H.
Reports of Practical Oncology and Radiotherapy, vol.25, no.1, pp.6-12, 2020 (Refereed Journals of Other Institutions)
- II. **Evaluation of NanoDot Optically Stimulated Luminescence Dosimeter for Cone-shaped Small-field Dosimetry of Cyberknife Stereotactic Radiosurgery Unit: A Monte Carlo Simulation and Dosimetric Verification Study.**
AKYOL F. Y. , SARIGUL N., YEGINER M., Yedekci Y., UTKU H.
Journal of medical physics, vol.44, pp.27-34, 2019 (Journal Indexed in ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **OSL DOZİMETRELERİN KÜÇÜK ALAN DOZİMETRESİ OLARAK KULLANIMININ TEST EDİLMESİ**
SARIGÜL N., YEDEKÇİ F. Y. , YEĞİNER M., AKYOL H. F. , UTKU H.

Supported Projects

Utku H., Alkar A. Z. , TUBITAK Project, Field Programmable Gate Array-based Control of Nuclear Reactor Dynamics with Feedback using Hardware-in-the loop Technique, 2020 - 2022

SARIGÜL N., UTKU H., YEĞİNER M., TUBITAK Project, Cyberknife SRS SBRT Sisteminin OSL Tabanlı Küçük Alan Dozimetri, 2014 - 2016

UTKU H., Project Supported by Higher Education Institutions, Termolüminesans (TLD) Dozimetri Hizmeti Laboratuvarının Akreditasyonu, 2012 - 2015

Utku H., Project Supported by Higher Education Institutions, Dozimetri Hizmet Laboratuvarı Kurulması, 2006 - 2008

Utku H., Çolak Ş., Project Supported by Higher Education Institutions, Radyasyon Fiziği Laboratuvarı Kurulması (Eğitim Amaçlı), 2006 - 2007

Utku H., Project Supported by Higher Education Institutions, Spectroscopic Analysis of Protein and Mineral Content of Osteonecrosis Tissue Samples at the Molecular Level Using IR micro-spectroscopy, Experiment Location: Spring-8 Synchrotron Laboratory, 2006 - 2006

Utku H., TUBITAK Project, Görüntü Analizi ve Elektroforez Tekniğinin Buğday Çeşitlerinin Sınıflandırılmasında Kullanımı , 1995 - 1997

Citations

Total Citations (WOS):71

h-index (WOS):5