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Education Information

Doctorate, Hacettepe University, Fen Bilimleri, Nükleer Enerji Müh., Turkey 2009 - 2015

Postgraduate, Hacettepe University, Fen Bilimleri, Nükleer Enerji Müh., Turkey 2006 - 2009

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Nükleer Enerji Müh., Turkey 2001 - 2006

Dissertations

Doctorate, İTÜ TRIGA Mark II araştırma reaktörü delici ışınlama kanalının bnct uygulaması için tasarımı, Hacettepe Üniversitesi, Nükleer Bilimler Enstitüsü, Nükleer Teknoloji Anabilim Dalı, 2015

Postgraduate, Thorium utilization in ACR (Advanced CANDU Reactor) and CANDU-6, Hacettepe Üniversitesi, Nükleer Bilimler Enstitüsü, Nükleer Teknoloji Anabilim Dalı, 2009

Research Areas

Physics, Nuclear physics, Nuclear Engineering and Nuclear Energy Studies, Natural Sciences

Academic Titles / Tasks

Research Assistant, Hacettepe University, Mühendislik Fakültesi, Nükleer Enerji Mühendisliği Bölümü, 2006 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Monte Carlo model of annular flow in boiling water reactors**
TİFTİKÇİ A., TÜRKMEN M.
PROGRESS IN NUCLEAR ENERGY, vol.123, 2020 (SCI-Expanded)
- II. **Neutronics modeling of bubbles in bubbly flow regime in boiling water reactors**
TÜRKMEN M., TİFTİKÇİ A.
NUCLEAR ENGINEERING AND TECHNOLOGY, vol.51, no.5, pp.1241-1250, 2019 (SCI-Expanded)
- III. **A new method in beam shaping: Multi-Objective Genetic Algorithm method coupled with a Monte-Carlo based reactor physics code**
TÜRKMEN M., ERGÜN Ş., Çolak Ü.
PROGRESS IN NUCLEAR ENERGY, vol.99, pp.165-176, 2017 (SCI-Expanded)
- IV. **Core map generation for the ITU TRIGA Mark II research reactor using Genetic Algorithm coupled with Monte Carlo method**

- TÜRKMEN M., Çolak Ü., ERGÜN Ş.
NUCLEAR ENGINEERING AND DESIGN, vol.295, pp.84-95, 2015 (SCI-Expanded)
- V. **Effect of burnup on the neutronic parameters of ITU TRIGA Mark II research reactor**
TÜRKMEN M., Çolak Ü., ERGÜN Ş.
PROGRESS IN NUCLEAR ENERGY, vol.83, pp.26-34, 2015 (SCI-Expanded)
- VI. **Modification of the radial beam port of ITU TRIGA Mark II research reactor for BNCT applications**
Akan Z., TÜRKMEN M., Çakır T., Reyhancan İ. A., Çolak Ü., Okka M., Kiziltas S.
APPLIED RADIATION AND ISOTOPES, vol.99, pp.110-116, 2015 (SCI-Expanded)
- VII. **Analysis of ITU TRIGA Mark II research reactor using Monte Carlo method**
TÜRKMEN M., Çolak Ü.
PROGRESS IN NUCLEAR ENERGY, vol.77, pp.152-159, 2014 (SCI-Expanded)
- VIII. **Use of Th and U in CANDU-6 and ACR-700 on the once-through cycle: Burnup analyses, natural U requirement/saving and nuclear resource utilization**
TÜRKMEN M., ZABUNOĞLU O. H.
JOURNAL OF NUCLEAR MATERIALS, vol.429, pp.263-269, 2012 (SCI-Expanded)
- IX. **Effect of pebble packing on neutron spectrum and the isotopic composition of HTGR fuel**
TÜRKMEN M., COLAK U.
ANNALS OF NUCLEAR ENERGY, vol.46, pp.29-36, 2012 (SCI-Expanded)

Articles Published in Other Journals

- I. **Effect of Pu content on uncertainty in reactor parameters due to use of no temperature gradient in (U-Pu)O-2 fuels**
TÜRKMEN M.
TURKISH JOURNAL OF PHYSICS, vol.41, no.2, pp.113-123, 2017 (ESCI)

Books & Book Chapters

- I. **Nükleer Enerji ve Nükleer Teknoloji, Geleceğin Enerji Politikalarında Nükleer Enerjinin Yeri ve Önemi**
TOMBAKOĞLU M., ERGÜN Ş., ATAK H., ÇELİKTEKİN O. Ş., TÜRKMEN M., TİFTİKÇİ A., AYHAN H., AKSOY A. B.
in: Nükleer Enerji Raporu, Tombakoğlu M., Ergün Ş., Atak H., Çeliktekin O.Ş., vd., Editor, Tmmob Fizik Mühendisleri Odası (Fmo), Ankara, pp.9-40, 2011

Refereed Congress / Symposium Publications in Proceedings

- I. **U PO O2 YAKIT İÇİN SABİT SICAKLIK YAKLAŞIMINDAN KAYNAKLI REAKTÖR PARAMETRELERİNDEKİ BELİRSİZLİK**
TÜRKMEN M., SÖKMEN C. N.
XI. Ulusal Nükleer Bilimler ve Teknolojileri kongresi, Turkey, 12 - 14 October 2016
- II. **PIN CELL SIMULATION OF THE CHANGE IN DOPPLER BROADENING AND SELF SHIELDING WITH THE CHANGE IN NUCLEAR FUEL TEMPERATURE AND FUEL TYPE BY USING OPENMC**
NURİ b., GENCER k., GÜLÇİN s., ÇELİKTEKİN O. Ş., TÜRKMEN M., SÖKMEN C. N.
BgNS INTERNATIONAL CONFERENCE NUCLEAR POWER FOR THE PEOPLE, 2 - 05 September 2015
- III. **Fuel Burnup Calculation in ITU TRIGA Mark II Research Reactor by Using Monte Carlo Method**
TÜRKMEN M., Çolak Ü.
23rd International Conference on Nuclear Energy for New Europe (NENE), Portoroz, Slovenia, 8 - 11 September 2014

Supported Projects

TÜRKMEN M., Project Supported by Higher Education Institutions, UPuO2 Yakıtlarda İzotermal Sıcaklık Yaklaşımından Kaynaklı Reaktör Parametrelerindeki Belirsizlik, 2016 - 2017

ZABUNOĞLU H. O., ÇELİKTEN O. Ş., TÜRKMEN M., Project Supported by Higher Education Institutions, Nükleer Yakıt Elemanı Tesir Kesitlerine Radyal Sıcaklık Dağılımlarının Etkisinin İncelenmesi, 2015 - 2016

Metrics

Publication: 14

Citation (WoS): 27

Citation (Scopus): 22

H-Index (WoS): 3

H-Index (Scopus): 3