

## Prof. AYHAN YILMAZER

### Personal Information

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### Education Information

Doctorate, Istanbul Technical University, Enerji Enstitüsü, Nükleer Teknoloji Abd, Turkey 1997 - 2004

Postgraduate, Istanbul Technical University, Nükleer Enerji Enstitüsü, Nükleer Teknoloji Abd, Turkey 1995 - 1997

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Nükleer Enerji Mühendisliği Bölümü, Turkey 1983 - 1987

### Foreign Languages

English, C1 Advanced

### Research Areas

Mechanical Engineering, Energy, Nuclear Energy, Engineering and Technology

### Academic Titles / Tasks

Professor, Hacettepe University, Mühendislik Fakültesi, Nükleer Enerji Mühendisliği Bölümü, 2014 - Continues

Associate Professor, Hacettepe University, Mühendislik Fakültesi, Nükleer Enerji Mühendisliği Bölümü, 2010 - 2014

Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Nükleer Enerji Mühendisliği Bölümü, 2007 - 2010

Lecturer, Hacettepe University, Mühendislik Fakültesi, Nükleer Enerji Mühendisliği Bölümü, 2004 - 2007

Research Assistant, University of Missouri-Columbia, Nuclear Science And Engineering Institute, Nuclear Science And Engineering Institute, 1990 - 1991

Research Assistant, Hacettepe University, Mühendislik Fakültesi, Nükleer Enerji Mühendisliği Bölümü, 1987 - 1990

### Academic and Administrative Experience

Hacettepe Üniversitesi, Mühendislik Fakültesi, Nükleer Enerji Mühendisliği Bölümü, 2015 - Continues

Hacettepe Üniversitesi, Nükleer Bilimler Enstitüsü, Radyasyon Fiziği Ve Uygulamaları Anabilim Dalı, 2008 - Continues

Hacettepe Üniversitesi, Mühendislik Fakültesi, Nükleer Enerji Mühendisliği Bölümü, 2007 - 2015

### Advising Theses

YILMAZER A., Nötron dozimetrisinde B4C ile filtreli LiF-TLD100 kullanımının incelenmesi, Postgraduate,

İ.AYDOĞAN(Student), 2015

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **HEAT CONDUCTION IN CONVECTIVELY COOLED ECCENTRIC SPHERICAL ANNULI A Boundary Integral Moment Method**  
YILMAZER A., KOCAR C.  
THERMAL SCIENCE, vol.21, no.5, pp.2255-2266, 2017 (Journal Indexed in SCI)
- II. **A novel analytical method for heat conduction in convectively cooled eccentric cylindrical annuli**  
YILMAZER A., KOCAR C.  
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.83, pp.1-15, 2014 (Journal Indexed in SCI)
- III. **Exact solution of the heat conduction equation in eccentric spherical annuli**  
YILMAZER A., KOCAR C.  
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.68, pp.158-172, 2013 (Journal Indexed in SCI)
- IV. **An analytical benchmark of MYRRHA ADS in cylindrical geometry**  
ATAK H., YILMAZER A.  
KERNTECHNIK, vol.76, no.5, pp.347-355, 2011 (Journal Indexed in SCI)
- V. **Green's function, temperature in a convectively cooled sphere with arbitrarily located spherical heat sources**  
Yilmazer A.  
APPLIED MATHEMATICAL MODELLING, vol.33, no.7, pp.3245-3257, 2009 (Journal Indexed in SCI)
- VI. **SOME BENCHMARK RESULTS IN SPHERICAL MEDIA RADIATIVE TRANSFER PROBLEMS**  
YILMAZER A., KOCAR C.  
TRANSPORT THEORY AND STATISTICAL PHYSICS, vol.38, no.5, pp.273-292, 2009 (Journal Indexed in SCI)
- VII. **Unified treatment of the P-n( $\lambda$ ) approximation to solve the reflected slab criticality problem with strong anisotropy**  
YILMAZER A., TOMBAKOĞLU M.  
KERNTECHNIK, vol.73, pp.260-268, 2008 (Journal Indexed in SCI)
- VIII. **A comparative study of classical polynomial approximations to solve the transport equation in spherical albedo problems**  
YILMAZER A., KOCAR C.  
KERNTECHNIK, vol.73, pp.270-276, 2008 (Journal Indexed in SCI)
- IX. **Ultraspherical-polynomials approximation to the radiative heat transfer in a slab with reflective boundaries**  
YILMAZER A., Kocar C.  
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.47, no.2, pp.112-125, 2008 (Journal Indexed in SCI)
- X. **Spectral P-N( $\lambda$ ) approximation(s) to the transport problems in spherical media**  
Yilmazer A.  
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.108, no.3, pp.403-422, 2007 (Journal Indexed in SCI)
- XI. **Jacobi polynomials approximation to the one-speed neutron transport equation**  
Yilmazer A.  
ANNALS OF NUCLEAR ENERGY, vol.34, no.12, pp.977-991, 2007 (Journal Indexed in SCI)
- XII. **Solution of one-speed neutron transport equation for strongly anisotropic scattering by T-N approximation: Slab criticality problem**  
Yilmazer A.  
ANNALS OF NUCLEAR ENERGY, vol.34, no.9, pp.743-751, 2007 (Journal Indexed in SCI)
- XIII. **On equiconvergence of ultraspherical polynomials solution of one-speed neutron transport equation**  
Yilmazer A., Tombakoglu M.  
ANNALS OF NUCLEAR ENERGY, vol.33, pp.957-965, 2006 (Journal Indexed in SCI)

#### XIV. Analysis of a total loss of pool water accident in MTR-type research reactors

Yilmazer A., YAVUZ H.

KERNTECHNIK, vol.69, no.4, pp.154-160, 2004 (Journal Indexed in SCI)

### Books & Book Chapters

#### I. Nükleer Mühendisliğe Giriş

ZABUNOĞLU H. O. , SÖKMEN C. N. , TOMBAKOĞLU M., YILMAZER A., KOCAR C., ERGÜN Ş., ÇOLAK Ü., Süleyman Sırrı Ö.

Palme, Ankara, 2015

#### II. NÜKLEER MÜHENDİSLİĞE GİRİŞ

ZABUNOĞLU H. O. , SÖKMEN C. N. , TOMBAKOĞLU M., YILMAZER A., KOCAR C., ERGÜN Ş., ÇOLAK Ü., ÖZTEK S. S. PALME, 2015

### Refereed Congress / Symposium Publications in Proceedings

#### I. Use of LiF TLD100 Detector with B4C filter in Neutron Dosimetry

İLKEM A., YILMAZER A.

24th International Conference Nuclear Energy for New Europe, 14 - 17 September 2015, pp.4121-4128

#### II. Usage of LiF-TLD100 Detector and B4C Filter in Neutron Dosimetry

Aydogan I., YILMAZER A.

24th International Conference on Nuclear Energy for New Europe (NENE), Portoroz, Slovenia, 14 - 17 September 2015

### Supported Projects

YILMAZER A., GÜRDAL Ş. O. , KOCAR C., Project Supported by Higher Education Institutions, Radyasyon Algılama ve Ölçme Laboratuvarındaki Kaynakların Fiziksel Korunması ve Doz İzleme, 2017 - 2018

YILMAZER A., Project Supported by Higher Education Institutions, 24ncü Yeni Avrupa İçin Nükleer Enerji Konferansı, 2015 - 2016

YILMAZER A., KOCAR C., Project Supported by Higher Education Institutions, Uluslararası Nükleer Güç Reaktörleri Kullanılmış Yakıtlarının Yönetimi Konferansı Yakıt Çevriminin Arka-Ucuna Entegre Bir Yaklaşım, 15-19 Haziran 2015, UAEA Genel Merkezi, Viyana, Avusturya., 2015 - 2015

### Citations

Total Citations (WOS):66

h-index (WOS):6