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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAG-3249-2020

ScopusID: 57210785857

Yoksis Researcher ID: 249188

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Environment and Sustainability, Çevre ve Sıfır Atık, Çevre, Şehircilik ve İklim Değişikliği Bakanlığı, 2024

Other, Devlet Malını Koruma ve Tasarruf Tedbirleri, Vergi Denetim Kurulu Başkanlığı, 2024

Other, Günlük Hayatta Su Verimliliği, Tarım ve Orman Bakanlığı, 2024

Other, Günlük Hayatta ve Kamu Binalarında Enerji Verimliliği, Enerji ve Tabii Kaynaklar Bakanlığı, 2024

Occupational Health and Safety, İş Sağlığı ve Güvenliği Eğitim Programı, Ankara Üniversitesi, 2024

Occupational Health and Safety, İş Sağlığı ve Güvenliği Eğitim Programı, Ankara Üniversitesi, 2022

Other, İlk Yardımcı Belgesi, AFAD İlk Yardım Eğitim Merkezi, 2022

Vocational Training, 9th International Summer School on Particle Accelerators and Detectors, Turkish Physical Society, 2013

Occupational Health and Safety, C Sınıfı İş Sağlığı ve Güvenliği Uzmanı, ÇSGB, 2013

Vocational Training, V. Ulusal Parçacık Hızlandırıcıları ve Dedektörleri Yaz Okulu, TFD, 2009

Vocational Training, 8th Fluka Course, NCSR, Democritos, Atina, GREECE, 2009

Vocational Training, Hızlandırıcı ve Parçacık Fiziğinde Bilgisayar Uygulamaları Okulu, TAEK, 2009

Vocational Training, IV. Ulusal Parçacık Hızlandırıcıları ve Dedektörleri Yaz Okulu, Türk Fizik Derneği, 2008

IT, TR ATLAS Gaziantep Grid Workshop, Gaziantep Üniversitesi, 2008

IT, YEF@TR-GRID Okulu, TAEK, 2008

Vocational Training, V. DPT –YUUP Çalıştayı, THM Projesi, 2007

Vocational Training, 2.Ulusal Grid Çalıştayı, ÜBİTAK, 2007

Dissertations

Doctorate, İstanbul İli Marmaray ve Metro Yer altı Ulaşım İstasyonlarında Radon Seviyelerinin Ölçülmesi, İstanbul University, Institute Of Graduate Studies In Sciences, Fen Fakültesi Bölümü, 2019

Postgraduate, TÜRK HIZLANDIRICI MERKEZİ (THM) SERBEST ELEKTRON LAZERİ OPTİK KAVİTE PARAMETRELERİNİN BELİRLENMESİ VE HESAPLANMASI, Kütahya Dumlupınar University, Fen Bilimleri Enstitüsü, 2010

Research Areas

Physics, Nuclear physics, Natural Sciences

Academic Titles / Tasks

Lecturer PhD, Ankara University, Hızlandırıcı Teknolojileri Enstitüsü, Hızlandırıcı Teknolojileri Anabilim Dalı, 2018 - Continues

Lecturer, Kütahya Dumlupınar University, İLERİ TEKNOLOJİLER TASARIM, ARAŞTIRMA-GELİŞTİRME UYGULAMA VE ARAŞTIRMA MERKEZİ, 2016 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Tailoring optimal KERMA, projected range, and mass stopping power, and gamma-ray shielding capabilities through BaO/ZnO/CdO/SrO incorporation into Na₂O-SiO₂ glasses**
YILMAZ ALAN H., YILMAZ A., SUSAM L., Ozturk G., KILIÇ G., İLİK E., Oktik S., AKKUŞ B., ALMisned G., Tekin H.
Radiation Physics and Chemistry, vol.226, 2025 (SCI-Expanded)
- II. **Non-decreasing monotonic effects of cerium and gadolinium on tellurite glasses toward enhanced heavy-charged particle stopping: alpha-proton particles as major a part of cosmic radiation**
Yılmaz Alan H., Almisned G., Yılmaz A., Susam L. A., Ozturk G., Kilic G., Ilik E., Tuysuz B., Topuzlar S. E., Akkus B., et al.
Journal of the Australian Ceramic Society, vol.60, no.3, pp.823-832, 2024 (SCI-Expanded)
- III. **Efficacy of barium and calcium additives in lithium silicate glasses for nuclear shielding applications**
YILMAZ ALAN H.
Physica Scripta, vol.99, no.7, 2024 (SCI-Expanded)
- IV. **KERMA, projected range, mass stopping power and gamma-ray shielding properties of antimony and tellurium reinforced iron phosphate glasses**
Yılmaz Alan H., Yılmaz A., Susam L. A., Ozturk G., Kilic G., Ilik E., Oktik S., Akkus B., Almisned G., Tekin H. O.
Radiation Physics and Chemistry, vol.218, 2024 (SCI-Expanded)
- V. **A study on quality control check of dose distribution in blood bags irradiated by ¹³⁷Cs source blood irradiator by using EBT3 radiochromic film dosimetry**
Alan H., Ünal G., Atakul T., Akyürek S., Yücel H.
RADIATION PHYSICS AND CHEMISTRY, vol.214, 2024 (SCI-Expanded)
- VI. **Exploring the KERMA, mass stopping power and projected range values against heavy-charged particles: A focusing study on Sm, Yb, and Nd reinforced tellurite glass shields**
YILMAZ A., Almisned G., YILMAZ ALAN H., SUSAM L., Ozturk G., KILIÇ G., Tuysuz B., Topuzlar S. E., AKKUŞ B., Tekin H.
Radiation Physics and Chemistry, vol.212, 2023 (SCI-Expanded)
- VII. **Tailoring a Behavioral Symmetry on KERMA, Mass Stopping Power and Projected Range Parameters against Heavy-Charged Particles in Zinc-Tellurite Glasses for Nuclear Applications**
SUSAM L., YILMAZ A., ALMisned G., YILMAZ ALAN H., Ozturk G., KILIÇ G., Tuysuz B., Topuzlar S. E., AKKUŞ B., Ene A., et al.
Symmetry, vol.15, no.6, 2023 (SCI-Expanded)
- VIII. **Towards a better understanding of detection properties of different types of plastic scintillator crystals using physical detector and MCNPX code**
YILMAZ A., YILMAZ ALAN H., Susam L. A., AKKUŞ B., ALMisned G., İlhan T. B., Tekin H.
Nuclear Engineering and Technology, vol.54, no.12, pp.4671-4678, 2022 (SCI-Expanded)
- IX. **DEEP NEURAL NETWORKS AS A TOOL TO ESTIMATION OF COSMIC RADIATION DOSE RECEIVED ON FLIGHT**
Yılmaz A., YILMAZ ALAN H., Faydasıcok O., Susam L. A., ŞAMLI R., Akkus B., Erol A., Gudekli E., Inci C. I., Emirhan M.

E.

UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS, vol.84, no.2, pp.187-202, 2022 (SCI-Expanded)

X. **ESTIMATION OF COSMIC RADIATION DOSE RECEIVED ON FLIGHT BY MEANS OF DIFFERENT MACHINE LEARNING METHODS AND CARI-7A CALCULATIONS**

YILMAZ A., YILMAZ ALAN H., FAYDASIÇOK Ö., SUSAM L., ŞAMLI R., AKKUŞ B., Erol A., GÜDEKLİ E., İnci Ç. İ., EMİRHAN M. E.

Romanian Journal of Physics, vol.67, no.1-2, 2022 (SCI-Expanded)

XI. **COSMIC RADIATION EXPOSURE CALCULATIONS FOR INTERNATIONAL AND DOMESTIC FLIGHTS DEPARTS FROM ISTANBUL AND ANKARA**

Susam L. A., Alan H. Y., YILMAZ ALAN H., Erol A., İnci C. İ., Akinci F. C., Akkus B., DEMİR M., Emirhan M. E., Faydasicok O., et al.

RADIATION PROTECTION DOSIMETRY, vol.192, no.1, pp.61-68, 2020 (SCI-Expanded)

XII. **Investigation of radon concentrations of underground metro and Marmaray stations in Istanbul**

Alan H., AKKUŞ B., Susam L. A.

Journal of Radioanalytical and Nuclear Chemistry, vol.322, no.2, pp.291-304, 2019 (SCI-Expanded)

Articles Published in Other Journals

I. **A Study on the Effect of Addition Li, Na, and K on the Radiation Shielding Capabilities of B2O3-TeO2-ZnO-PbF2-Er2O3 Glass Structure**

YILMAZ ALAN H.

Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.24, no.4, pp.789-797, 2024 (Peer-Reviewed Journal)

II. **An investigation on protection properties of Tantalum (V) oxide reinforced glass screens on unexposed breast tissue for mammography examinations**

Yılmaz Alan H., Almisned G., Yılmaz A., Susam L., İlik E., Kilic G., Ozturk G., Tuysuz B., Akkus B., Tekin H. O. Radiography, vol.30, no.1, pp.282-287, 2024 (ESCI)

III. **TURKISH ACCELERATOR CENTER STRUCTURE OF OPTICAL CAVITIES**

Yıldız H., Yılmaz Alan H.

Balkan Physics Letter, vol.16, 2009 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **EVALUATION OF BARIUM AND CALCIUM OXIDE ADDITIVES IN LITHIUM SILICATE GLASSES FOR RADIATION SHIELDING APPLICATIONS**

YILMAZ ALAN H.

II. INTERNATIONAL CONGRESS ON ADVANCED RESEARCH AND APPLICATIONS, Sivas, Turkey, 19 - 20 September 2024

II. **Effectiveness of Different Additives on the B2O3-TeO2- ZnOPbF2-Er2O3 Glass Structure for Radiation Shielding Applications**

YILMAZ ALAN H.

TURKISH PHYSICAL SOCIETY 40TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 2 - 06 September 2024

III. **ENHANCING RADIATION SHIELDING IN NUCLEAR APPLICATIONS: A REVIEW OF HIGH ENTROPY ALLOYS**

ÖZKAN M., ÖZTÜRK G., AKKUŞ B., Almisned G., YILMAZ A., SUSAM L., YILMAZ ALAN H., KILIÇ G., Tüysüz B., OKTİK Ş., et al.

22st International Balkan Workshop on Applied Physics, Romania, 09 July 2024

IV. **Progress In Protective Glass Shielding For Mamography Scans**

Tüysüz B., Akkuş B., Almisned G., Yılmaz A., Susam L., Yılmaz Alan H., Kılıç G., Öztürk G., Oktik Ş., Güler Ö., et al.
Turkish Physical Society 39th International Physics Congress, Muğla, Turkey, 31 August - 04 September 2023,
pp.260

- V. **Application of High Entropy Alloys (HEAs) in Nuclear Reactor Technology**
GÜLER Ö., TEKİN H. O., YILMAZ ALAN H., YILMAZ A., Almisned G., SUSAM L., AKKUŞ B., KILIÇ G., İLİK E., OKTİK Ş., et al.
TÜRK FİZİK DERNEĞİ 39. ULUSLARARASI FİZİK KONGRESİ, 31 August - 04 September 2023
- VI. **Assessment of glass shielding for cosmic radiation and space applications using OLTARIS code**
YILMAZ ALAN H., YILMAZ A., TEKİN H. O., Almisned G., SUSAM L., AKKUŞ B., KILIÇ G., İLİK E., GÜLER Ö., OKTİK Ş., et al.
TURKISH PHYSICAL SOCIETY 39TH INTERNATIONAL PHYSICS CONGRESS, Turkey, 31 August - 04 September 2023
- VII. **Investigation of Homogeneity of Dose Given to Blood in ¹³⁷Cs Source Blood Irradiator Device by Radiochromic Film Dosimetry and Evaluation of Alternative Irradiation Devices (¹³⁷Cs Kaynaklı Kan Işınlayıcı Cihazda Kana Verilen Doz Homojenliğinin Radyokromik Film Dozimetrisi ile İncelenmesi ve Alternatif Işınlama Cihazlarının Değerlendirilmesi)**
Yılmaz Alan H., Yücel H., Ünal G., Atakul T.
DYUK 22:I. Disiplinlerarası Yaklaşımlar Ulusal Kongresi, İstanbul, Turkey, 16 May 2022, pp.20
- VIII. **DEEP LEARNING APPROACH TO CALCULATION OF COSMIC RADIATION DOSE FOR AIRCREW**
Yılmaz A., Yılmaz Alan H., Susam L.
TURKISH PHYSICAL SOCIETY 37TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 1 - 05 September 2021,
pp.201
- IX. **TARLA Laboratuvarında Nükleer Rezonans Floresansı İçin Gama Spektroskopisi Sistemi ve Diğer Uygulamalar**
YILMAZ ALAN H., DAPO H., AKSOY A.
Parçacık Hızlandırıcıları ve Algıçları Yerel Altyapı ve Ar-Ge Çalıştayı, İstanbul, Turkey, 29 November 2020
- X. **Nuclear Applications Proposal at TARLA Facility**
YILMAZ ALAN H., AKSOY A., DAPO H.
TURKISH PHYSICAL SOCIETY 36TH INTERNATIONAL PHYSICS CONGRESS, İstanbul, Turkey, 1 - 05 September 2020
- XI. **RADON CONCENTRATION OF UNDERGROUND METRO AND MARMARAY STATIONS IN ISTANBUL**
YILMAZ ALAN H., AKKUŞ B., SUSAM L.
TURKISH PHYSICAL SOCIETY 35th INTERNATIONAL PHYSICS CONGRESS, 4 - 08 September 2019
- XII. **PERSONAL SAFETY SYSTEM OF THE TARLA**
YILMAZ ALAN H., AKSOY A., KAYA Ç., Karsli Ö., KOÇ İ. B., Elçim Ö. F., Kaya M., Yıldız H., uçar H.
TURKISH PHYSICAL SOCIETY 35th INTERNATIONAL PHYSICS CONGRESS, 4 - 08 September 2019
- XIII. **TARLA RADIATION SAFETY SYSTEM**
Yılmaz Alan H.
7th Internationally Participated Congress on Particle Accelerators and Applications, Muğla, Turkey, 2 - 03 September 2019, pp.12
- XIV. **DETERMINATION OF RADON LEVELS IN ISTANBUL UNDERGROUND TRANSPORTATION SYSTEMS**
Yılmaz Alan H., Akkuş B., Susam L., Aytan Ö.
19th International Balkan Workshop on Applied Physics, Constanta, Romania, 16 - 19 July 2019, pp.102-103
- XV. **PSS FOR THE TARLA ACCELERATOR FACILITY**
YILMAZ ALAN H., AKSOY A., KAYA Ç., Karsli Ö.
19th International Balkan Workshop on Applied Physics, Romania, 16 - 19 July 2019
- XVI. **TÜRK HIZLANDIRICI MERKEZİ SERBEST ELEKTRON LAZERİ KAVİTE YAPISI**
YILMAZ ALAN H., DURAN YILDIZ H., YILDIZ İ., AYDAR M.
TURKISH PHYSICAL SOCIETY 27th INTERNATIONAL PHYSICS CONGRESS, İstanbul, Turkey, 14 September 2010
- XVII. **TÜRK HIZLANDIRICI MERKEZİ, SERBEST ELEKTRON LAZERİ OPTİK KAVİTE SİSTEMİ**
DURAN YILDIZ H., YILMAZ ALAN H.
ADIM PHYSICS CONGRESS-I, 21 - 22 May 2010
- XVIII. **CERN'deki Gizemli Parçacık HIGGS**

KAYAASLAN F., YILMAZ ALAN H., DURAN YILDIZ H.

UFOK 5 - 5.Ulusal Fizik Öğrencileri Kongresi, Ankara, Turkey, 22 June 2009

XIX. LHC'nin Gizemli Parçacığı Higgs

YILMAZ ALAN H.

CERN Konferansı, Kütahya, Turkey, 25 December 2008

XX. TAC IR-FEL, OPTIC CAVITY SYSTEM, GAIN and LOSSES

DURAN YILDIZ H., YILMAZ ALAN H.

Turkish Physical Society 25.International Physics Conference, Muğla, Turkey, 25 - 29 August 2008

XXI. The Static Electron Sensor

DURAN YILDIZ H., Koyuncu F., YILMAZ ALAN H.

BPU 2nd INTERNATIONAL PHYSICS PROJECT COMPETITION FOR UNIVERSITY STUDENTS, Muğla, Turkey, 18 - 20 August 2008

XXII. PYTHIA and COMPHEP

AYDAR M., ÇAKMAK H., DURAN YILDIZ H., ÇETİNKAYA V., YILMAZ ALAN H., ÇAKMAK H.

III. Nükleer Yapı Çalıştayı, 15 November 2006

XXIII. What is the origin of the mass?

YILMAZ ALAN H., DURAN YILDIZ H.

Fourth International Student Conference of the Balkan Physical Union, 29 August - 01 September 2006

Activities in Scientific Journals

Journal of Nuclear Sciences, Technical Redactor, 2022 - Continues

Scientific Refereeing

Osmangazi Tıp Dergisi, National Scientific Refreed Journal, November 2024

JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, Journal Indexed in SCI-E, November 2024

International Journal of Computational and Experimental Science and Engineering (IJCESEN), Other journals, September 2024

Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, National Scientific Refreed Journal, November 2023

JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, Journal Indexed in SCI-E, July 2020

JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, Journal Indexed in SCI-E, March 2020

JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, Journal Indexed in SCI-E, November 2019

JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, Journal Indexed in SCI-E, September 2019

Tasks In Event Organizations

Yılmaz Alan H., TURKISH PHYSICAL SOCIETY 39th INTERNATIONAL PHYSICS CONGRESS, Scientific Congress, Muğla, Turkey, Eylül 2023

Yılmaz Alan H., 8th Internationally Participated Congress on Particle Accelerators and Applications, Scientific Congress, Turkey, Eylül 2022

Yılmaz Alan H., TURKISH PHYSICAL SOCIETY 38th INTERNATIONAL PHYSICS CONGRESS, Scientific Congress, Turkey, Eylül 2022

Yılmaz Alan H., TURKISH PHYSICAL SOCIETY 37TH INTERNATIONAL PHYSICS CONGRESS, SEPTEMBER 1-5, 2021, BODRUM/TURKEY, Scientific Congress, Turkey, Eylül 2021

Yılmaz Alan H., 7th Internationally Participated Congress on Particle Accelerators and Applications, Scientific Congress, Muğla, Turkey, Eylül 2019

Yılmaz Alan H., XIII. UPHDYO ULUSAL PARÇACIK HIZLANDIRICILARI VE DEDEKTÖRLERİ YAZ OKULU, Scientific Congress,

Ankara, Turkey, Temmuz 2019

, Yılmaz Alan H., 9th International Physics Conference of the Balkan Physical Union, Scientific Congress, İstanbul, Turkey, Ağustos 2015

, Yılmaz Alan H., Turkish Physical Society 31st International Physics Congress, Scientific Congress, Muğla, Turkey, Temmuz 2014

, Yılmaz Alan H., Türk Fizik Derneği 28.Uluslararası Fizik Kongresi, Scientific Congress, Turkey, Eylül 2011

, Yılmaz Alan H., TPS27 International Physics Congress, Scientific Congress, İstanbul, Turkey, Eylül 2010

Yılmaz Alan H., VI. Uluslararası Parçacık Hızlandırıcıları ve Dedektörleri Yaz Okulu, Scientific Congress, Turkey, Eylül 2010

Yılmaz Alan H., V. Uluslararası Parçacık Hızlandırıcıları ve Dedektörleri Yaz Okulu, Scientific Congress, Turkey, Eylül 2009

Metrics

Publication: 38

Citation (WoS): 19

Citation (Scopus): 23

H-Index (WoS): 3

H-Index (Scopus): 3

Congress and Symposium Activities

TENMAK, Çevre Korunmasında Radyasyon Teknolojisi, 17-18 Ekim 2022, Ankara, Türkiye, Attendee, Ankara, Turkey, 2022

4. Nesil Nükleer Reaktör Teknolojileri Toplantısı, Attendee, Ankara, Turkey, 2022

34th International Physics Congress (TPS-34), Attendee, Muğla, Turkey, 2018

9th International Physics Conference of the Balkan Physical Union , Attendee, İstanbul, Turkey, 2015

Turkish Physical Society-31th International Physics Congress (TPS-31), Attendee, Muğla, Turkey, 2014

5. Uluslararası Katılımlı Parçacık Hızlandırıcıları ve Uygulamaları Kongresi (5th Internationally Participated Congress on Particle Accelerators and Applications)- UPHUK5, Attendee, Muğla, Turkey, 2013

Turkish Physical Society-27th International Physics Congress (TPS-27), Attendee, İstanbul, Turkey, 2010

4th National Participated Congress on Particle Accelerators and Applications - UPHUK-4, Attendee, Muğla, Turkey, 2010

Türk Fizik Derneği 26.Uluslararası Fizik Kongresi, Attendee, Muğla, Turkey, 2009

Ankara YEF Günleri 2009, Attendee, Ankara, Turkey, 2009

25th International Physics Congress (TPS-25) , Attendee, Muğla, Turkey, 2008