

Prof. Nilgün Baydoğan

Personal Information

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Biography

Professor Nilgun Baydogan's research focuses on the layers which ionizing radiation strikes on materials. Her working area encompasses the use of thin-film solar cells, flexible polymer nanocomposites, self-healing polymer nanocomposites, and living polymer in several industrial areas (for instance, aerospace applications, high altitude platforms to obtain high performance and radiation protection of optoelectronic equipment, and aircrew at the service area).

Her best-known works are the applications of nuclear techniques to several materials (such as polymer nanocomposites, semiconductors, thin-film solar cells, flexible materials, polymer and TCO thin films), optoelectronics and the applications of nondestructive methods (such as gamma-ray radiography, X-ray radiography and ultrasound testing) in several materials (such as polymer nanocomposites, stainless steels etc.).

The aim of using ionizing radiation in her research is to determine the suitable absorbed dose in materials to improve their performance in order for them to be utilised in satellites and aircraft, which requires a lot of attention to icephobic and hydrophobic coating, nanocomposites, nanocoatings with high corrosion resistance, and nanobiosensors for early diagnosis.

Nilgun's current research relates to self-healing materials, and she is undertaking this research with the cooperation of Istanbul Technical University, Turkey, local service providers (including national research centres), private companies, and other universities. Her previous research has focused on nanocomposites for European green vehicles, unmanned underwater vehicles, aerospace and nanobiosensors for early diagnosis.

Her research topics include radiation protection and health physics, radiation shielding, radiation dosimetry, radiation detection and measurements for high dose areas, radiological materials, and radiation damage in materials.

Education Information

Doctorate, Istanbul Technical University, Enerji Enstitüsü, Nükleer Araştırmalar, Turkey 1996 - 2001

Postgraduate, Istanbul Technical University, Enerji Enstitüsü, Nükleer Araştırmalar, Turkey 1993 - 1996

Undergraduate, Istanbul University, Faculty Of Science, Department Of Physics, Turkey 1988 - 1993

Foreign Languages

English

Certificates, Courses and Trainings

Quality Management, Süreç Yönetimi Bilgilendirme Eğitimi, İstanbul Teknik Üniversitesi, 2020
Quality Management, Kalite Bilinçlendirme ve Bilgilendirme Eğitimi, İstanbul Teknik Üniversitesi, 2020
New Product Development, Certificate on The Successful Experiment on Kibo/ISS, ExHAM «Self-Healing Sample» Mission by JAXA, Japan, JAXA, Japan, 2019
New Product Development, Certificate on the Beginning of our on-orbit experiment for "Radiation Shielding" Theme by Istanbul Technical University, JAXA Japan, May 23, 2018., JAXA Japan., 2018
New Product Development, Certificate on Acceptance for Radiation Shielding Sample, Japan Aerospace Exploration Agency (JAXA) International Space Station, Tsukuba, Japan, Japan Aerospace Exploration Agency (JAXA) International Space Station, Tsukuba, Japan, 2017
Occupational Health and Safety, Radiation Protection in Industrial Radiography Certificate: Turkish Atomic Energy Authority-TAEK, Turkish Atomic Energy Authority-TAEK, 2011
Quality Management, Radiography Nondestructive Testing Certificate : Turkish Atomic Energy Authority-TAEK , Turkish Atomic Energy Authority-TAEK , 2006
Occupational Health and Safety, Radiation Protection in Industrial Radiography Certificate: Turkish Atomic Energy Authority-TAEK , Turkish Atomic Energy Authority-TAEK , 2006

Dissertations

Doctorate, Farklı Camların Radyasyon Karşısındaki Davranışlarının İncelenmesi, Dozimetrik Amaçlı Kullanımlarının Değerlendirilmesi ve Yeni Bir Korelasyon, İstanbul Teknik Üniversitesi, Nükleer Enerji Enstitüsü, Nükleer Uygulamalar, 2002
Postgraduate, The behavior of soda glass against Electromagnetic radiation, (in Turkish), Istanbul Technical University, Enerji Enstitüsü, Nükleer Araştırmalar, 1996

Research Areas

Security Strategies, Environmental Risk Assessment, Environmental Health and Safety, Industrial and Hazardous Waste Management, Water Pollution and Control, Soil and Groundwater Pollution and Control, Marine Protected Areas, Micro and Nano Communication, Optical Communication, Measurement and Control of Nonelectric Variables, Measurement and Control of Electric and Magnetic Variables, Smart Factors, Bioinstrumentation and Microelectromechanical Systems (MEMS), Biomedical Optics, Printed Circuits, Thin Film, Thick Film and Hybrid ICs, Electronic Circuits, Nanotechnology, Optics and Photonics, Electromagnetic in Biology and Medicine, Electric and Magnetic Fields, Electromagnetic Band Spacing Structures, Electromagnetic Waves, Antennas and Propagation, Photonic Band Spacing Structures, Generating Stations and Plants, Renewable energy, Dielectric Materials and Devices, Magnetic Materials and Devices, Optical Materials and Devices, Optoelectronic Materials and Devices, Semiconducting Materials and Devices, Polymer Technology, Drilling Techniques and Control Methodologies, Production of Oil and Gas, Marine Oil and Gas Production, Semiconductor and Superconductor Materials, Optical Properties, Mechanical Properties, Physical Properties, Electrical and Magnetic Properties, Nondestructive Testing, Composites, Glass Technology and Glass Ceramics, Adhesion and Adhesives, Polymeric Materials, Biomaterials, Plating, Material Characterization, Nanomaterials, Thermal Properties, Biomaterial, Biosensor, Industrial Biotechnology, Nuclear Structure, Nuclear Engineering and Nuclear Energy Studies, Experimental Methods of Particle and Nuclear Physics, Surfaces, Interfaces, Thin Films and Nanosystems, Electronic structure of bulk material, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Magnetic Properties and Materials, Electron and Ion Emission by Liquids and Solids, Bioinorganic Chemistry, Inorganic Polymers, nanoclusters, Organic Reaction Mechanisms

Academic Titles / Tasks

Professor, Istanbul Technical University, Enerji Enstitüsü, Nükleer Araştırmalar, 2014 - Continues
Associate Professor, Istanbul Technical University, Enerji Enstitüsü, Nükleer Araştırmalar, 2009 - 2014
Assistant Professor, Istanbul Technical University, Enerji Enstitüsü, Nükleer Araştırmalar, 2007 - 2009
Research Assistant, Istanbul Technical University, Enerji Enstitüsü, Nükleer Araştırmalar, 2002 - 2007
Research Assistant, Istanbul Technical University, Enerji Enstitüsü, Nükleer Araştırmalar, 1998 - 2007
Research Assistant, Kocaeli University, Fizik Bölümü, 1993 - 1998

Academic and Administrative Experience

Enerji Bilim ve Teknoloji Program Yürütme Kurulu Üyesi, Istanbul Technical University, Enerji Enstitüsü, Nükleer Araştırmalar, 2021 - Continues
Committee Member of IWRED2021, Taiyuan University of Technology, 2021 5th International Workshop on Renewable Energy and Development (IWRED 2021), 2021 - 2021
Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Istanbul Technical University, Enerji Enstitüsü, Nükleer Araştırmalar, 2021 - 2021
Member of Programme Steering Committee, Istanbul Technical University, Enerji Enstitüsü, Nükleer Araştırmalar, 2011 - 2016
Researcher, University of California, Berkeley, Lawrence Berkeley National Laboratory, 2002 - 2003

Courses

NUCLEAR TECHN.FOR NANOMATERIAL, Doctorate, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2018 - 2019, 2019 - 2020
Radyolojik Malzemeler, Postgraduate, 2012 - 2013, 2013 - 2014, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021
Radyasyon Zirhlaması, Postgraduate, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2020 - 2021
Radiation Damage in Materials, Doctorate, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2018 - 2019, 2019 - 2020
RADYASYON.KORUN.&SAĞLIK FİZİĞİ, Postgraduate, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2018 - 2019, 2019 - 2020
NUCLEAR FUEL CYCLE: ANALYSIS AND MANAGEMENT, Doctorate, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2019 - 2020
RADIATION PROCESS FOR NANOMATERIALS, Doctorate, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2017 - 2018
Radiation Dosimetry, Postgraduate, 2011 - 2012, 2012 - 2013
RADIATION PROTECTION, Postgraduate, 2006 - 2007, 2007 - 2008, 2008 - 2009, 2009 - 2010, 2010 - 2011

Advising Theses

Baydoğan N., MWCNT ve Magnetit Nanodolgu ile Güçlendirilmiş Poli(Metil Metakrilat) Sentezi - Synthesis of Poly(Methyl Methacrylate) Reinforced by Multi-Walled Carbon Nanotubes and Magnetite Nanofillers", Postgraduate, E.Erman(Student), 2022
Baydoğan N., SYNTHESIS OF POLY(METHYL METHACRYLATE) REINFORCED BY GRAPHENE NANOPATES , Postgraduate, E.Kocaçınar(Student), 2021
Baydoğan N., SODYUM METABORAT DEKAHİDRAT (BORAKS) KATKILI PMMA POLİMER KOMPOZİTLERİN MİKRODALGA ÖZELLİKLERİNİN GELİŞTİRİLMESİ, Postgraduate, F.Berke(Student), 2021
Baydoğan N., Synthesis of poly(imide) siloxane block copolymer, structural characterization and comparison of irradiation effect in radiation shielding properties for flexible sheet and pelletized form, Doctorate, T.DOĞAN(Student), 2020

Baydoğan N., Arslan C., Hydrothermal growth of ZnO nanowires enhanced characteristic properties, Doctorate, Ü.HALE(Student), 2020

Baydoğan N., Optoelektronik Özellikleri Geliştirilen Katkılı ZnO Nanomalzemelerin Elektrot Malzemesi Olarak Kullanılması, Doctorate, O.ÜRPER(Student), 2020

Baydoğan N., Comparison of beta, neutron and gamma attenuation properties of pmma/colemanite composites, Postgraduate, S.MEHRANPOUR(Student), 2020

Baydoğan N., The effect of borax addition to poly(methyl methacrylate), Postgraduate, Y.YİĞİT(Student), 2020

Baydoğan N., Arslan C., Multi-scale self-healing nanocomposite shielding material for aerospace, Doctorate, T.BEL(Student), 2018

Baydoğan N., The investigation of the irradiation effect on PMMA/MWCNTs polymer nanocomposites, Postgraduate, S.ULAĞ(Student), 2017

Baydoğan N., Giz A. T. , Physical properties of poly(methyl methacrylate)/graphene nanoplatelets nanocomposite, Postgraduate, M.MAIMAITITUERSUN(Student), 2017

Baydoğan N., Güneş pillerinin cigs soğurucu tabakasının radyasyon karşısındaki davranışı, Doctorate, U.CANCI(Student), 2017

Baydoğan N., Gama transmisyon tekniği kullanılarak poli(metil metakrilat) malzemenin üretim aşamasında açığa çıkan gazın polimer yapıya etkisinin incelenmesi, Postgraduate, H.ÇAKAR(Student), 2016

Baydoğan N., Çimenoğlu H., Growth and characterization of sol-gel derived Cu(In,Ga)Se₂ (CIGS) thin-films and beta irradiation effect, Postgraduate, Ş.AKYOL(Student), 2015

Baydoğan N., Karbon çeliği borularında dijital radyografi kullanılarak korozyon tespiti, Postgraduate, H.YILDIRIM(Student), 2015

Baydoğan N., Gama ışınlarına maruz kalmış ZrO₂ ince filmlerin karakterizasyonu, Postgraduate, D.ABAYLI(Student), 2015

Baydoğan N., B₂O₃ hedefin 103-127 keV enerjili protonlar ile bombardımanı sonucu gerçekleşen 11B(p,α)2α reaksiyonunun kısmi diferensiyel tesir kesitlerinin ölçülmesi, Postgraduate, O.ALAÇAYIR(Student), 2015

Baydoğan N., Nötronlara maruz kalmış ZnO: Al/P-Si heterokavşakların akım-voltaj karakteristiklerinde oluşan değişimlerin incelenmesi, Postgraduate, E.GÜNAYDIN(Student), 2014

Baydoğan N., Nötronlara maruz kalan ZnO:Al ince filmlerde optik modelin incelenmesi, Postgraduate, T.ÖZDURMUŞOĞLU(Student), 2013

Baydoğan N., İletken Zn_{1-x}Mg_{0.05}Al_xO ince filmlerinin radyasyon karşısında optik davranışlarının incelenmesi, Postgraduate, D.AKCAN(Student), 2013

Baydoğan N., Radyasyona maruz kalmış Ta₂O₅ ince filmlerin yapısal özelliklerinin incelenmesi, Postgraduate, B.ERKAN(Student), 2011

Baydoğan N., Çimenoğlu H., Characterization of nanostructured ZnO:Al films and the effect of beta radiation on their colour parameters, Postgraduate, Ü.HALE(Student), 2010

Baydoğan N., Radyografi yöntemi ile kaynak dikişlerinde hata tespiti, Postgraduate, T.YAŞAR(Student), 2010

Baydoğan N., Gama transmisyon tekniği ile al katkılı ZnO ince filmlerin yapısındaki değişimlerin incelenmesi, Postgraduate, B.EMRE(Student), 2010

Baydoğan N., ZnO nanokristallerinde elektromanyetik radyasyon etkisi, Postgraduate, L.SEPET(Student), 2010

Baydoğan N., Radyografik muayene yöntemi ile petrol boru hatlarındaki borularda kaynak dikişi ve diğer hataların incelenmesi, Postgraduate, C.DELİGÖZ(Student), 2010

Baydoğan N., Çimenoğlu H., Nanocrystalline ZnO:Al thin films prepared by sol-gel dip coating technique and ZnO: Al/p-Si heterojunctions, Postgraduate, Ö.KARACASU(Student), 2010

Baydoğan N., Kayalı E. S. , Investigation on structural, optical and electrical properties and behaviour against gamma irradiation of Al: ZnO thin films prepared by sol-gel spin coating method, Postgraduate, M.TEKİN(Student), 2009

Baydoğan N., Çimenoğlu H., Investigation of structural and electrical properties of gamma rays exposed Al doped ZnO films manufactured via sol-gel technique, Postgraduate, Ö.ÖZDEMİR(Student), 2009

Designed Lessons

Baydoğan N., Radiation Protection and Health Physics - Radyasyondan Korunma ve Sağlık Fiziği, Postgraduate, 2010 - 2011

Baydoğan N., Radiation Shielding - Radyasyon Zırhlaması, Postgraduate, 2010 - 2011

Baydoğan N., Altınsoy N., Radiation Dosimetry - Radyasyon Dozimetrisi, Postgraduate, 2010 - 2011

Taught Courses And Trainings

Baydoğan N., Altınsoy N., Baytaş A. F. , Tuğrul B., Ultrasonik Test Teknikleri Seviye 1, 1999 - 1999

Baydoğan N., Altınsoy N., Baytaş A. F. , Tuğrul B., Radyografik Muayene Seviye 1, 1999 - 1999

Baydoğan N., Baytaş A. F. , Altınsoy N., Tuğrul B., Ultrasonik Test Teknikleri, Seviye-1, 1998 - 1998

Baydoğan N., Baytaş A. F. , Altınsoy N., Tuğrul B., Radyografik Muayene, Seviye-1, 1998 - 1998

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Current Insight into 3D Printing in Solid-State Lithium-Ion Batteries: A Perspective**
Ponnada S., Gorle D. B. , Bose R. S. C. , Kiai M. S. , Devi M., Raju C. V. , Baydoğan N., Nanda K. K. , Marken F., Sharma R. K.
Batteries and Supercaps, vol.202200223, pp.2-12, 2022 (Journal Indexed in SCI)
- II. **Comparative study of gamma-ray attenuation for poly (imide siloxane) block copolymer in biocompatible flexible sheet and pelletize forms**
Dogan T., Köken N., Baydoğan N.
MATERIALS CHEMISTRY AND PHYSICS, vol.275, 2022 (Journal Indexed in SCI)
- III. **Electron beam penetration of poly (methyl methacrylate)/colemanite composite irradiated at low earth orbit space radiation environment**
Bel T., Mehranpour S., Sengul A. V. , Camtakan Z., Baydoğan N.
Journal of Applied Polymer Science, vol.138, no.45, 2021 (Journal Indexed in SCI Expanded)
- IV. **Improvement of thermal stability and gamma-ray absorption in microwave absorbable poly(methyl methacrylate)/graphene nanoplatelets nanocomposite**
Bel T., Muhammetursun M., Kocacinar E., Erman E., Gul F. B. , Dogan E., Celep M., Baydoğan N.
Journal of Applied Polymer Science, vol.138, 2021 (Journal Indexed in SCI)
- V. **Spark plasma sinterability of TiC ceramics with different nitride additives**
Namini A. S. , Delbari S. A. , Baydoğan N., Vajdi M., Moghanlou F. S. , Asl M. S.
JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS, vol.123, pp.363-370, 2021 (Journal Indexed in SCI)
- VI. **Investigation of the elastic properties of poly (methyl methacrylate) reinforced with graphene nanoplatelets**
Muhammetursun M., Bel T., Kocacinar E., Erman E., Gul F. B. , Augousti A., Baydoğan N.
Journal of Applied Polymer Science, 2021 (Journal Indexed in SCI Expanded)
- VII. **Effect of Al concentration on optical parameters of ZnO thin film derived by Sol-Gel dip coating technique**
Ürper O., Baydoğan N.
Materials Letters, vol.274, 2020 (Journal Indexed in SCI)
- VIII. **Comparison of beta and neutron attenuations of poly(imide siloxane) block copolymers for medical applications**
Dogan T., Baydoğan N.
INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, vol.69, no.13, pp.831-839, 2020 (Journal Indexed in SCI)
- IX. **Annealing time effect on CIGS thin films**
Matur U. C. , Baydoğan N.

Emerging Materials Research, vol.9, no.3, pp.725-729, 2020 (Journal Indexed in SCI)

- X. **Effect of Hydrothermal Solutions on Optical and Electrical Properties of ZnO Nanowires Grown on a ZnO:Al Seed Layer for Improved Mechanical Performance**
Arslan H. T. , Arslan C., Baydoğan N.
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.15, pp.307-315, 2020 (Journal Indexed in SCI)
- XI. **Influence of structural changes on electrical properties of Al:ZnO films**
Ürper O., Baydoğan N.
MATERIALS LETTERS, vol.258, 2020 (Journal Indexed in SCI)
- XII. **The Growth and Structural Characterization in Sol-Gel Derived $\text{CuIn}_{(1-x)}\text{Ga}_x\text{Se}_2$ Thin Films by Controlling pH-Value**
Voss S. A. , Matur U. C. , Cimenoglu H., Baydogan N.
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.14, no.9, pp.1230-1236, 2019 (Journal Indexed in SCI)
- XIII. **Radiation shielding properties of poly (methyl methacrylate)/colemanite composite for the use in mixed irradiation fields of neutrons and gamma rays**
Bel T., Arslan C., Baydoğan N.
MATERIALS CHEMISTRY AND PHYSICS, vol.221, pp.58-67, 2019 (Journal Indexed in SCI)
- XIV. **Annealing ambient effect on electrical properties of ZnO:Al/p-Si heterojunctions**
Ürper O., Karacasu O., Çimenoglu H., Baydoğan N.
SUPERLATTICES AND MICROSTRUCTURES, vol.125, pp.81-87, 2019 (Journal Indexed in SCI)
- XV. **Production of PMMA/microsphere/ montmorillonite nanocomposite, PMMA / microsphere / halloysite nanocomposite by atom transfer radical polymerization technique and comparison of mechanical properties**
Bel T., Arslan C., Baydoğan N.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.34, no.2, pp.688-700, 2019 (Journal Indexed in SCI)
- XVI. **PMMA/ Mikroküre/ Montmorillonite nanokompozit ve PMMA/ Mikroküre/ Halloysite Nanokompozitin Atom Transfer Radikal Polimerizasyon Tekniği ile Üretilmesi ve Mekanik Özelliklerinin Karşılaştırmalı Olarak İncelenmesi**
Baydoğan N., Arslan C., Bel T.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.2018, no.2018, pp.1-22, 2018 (Journal Indexed in SCI Expanded)
- XVII. **Sol-Gel Derived Cu(In,Ga)Se_2 Thin Film Solar Cell**
Matur U. C. , Baydoğan N.
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.12, pp.352-358, 2017 (Journal Indexed in SCI)
- XVIII. **Changes in gamma attenuation behaviour of sol-gel derived CIGS thin film irradiated using Co-60 radioisotope**
Matur U. C. , Baydoğan N.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.695, pp.1405-1413, 2017 (Journal Indexed in SCI)
- XIX. **Sol Gel Derived Cu In Ga Se₂ Thin Film Solar Cell**
CANCI MATUR U., Baydoğan N.
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.12, pp.352-358, 2017 (Journal Indexed in SCI)
- XX. **Investigation of Natural Radioactivity of Surface Soil Samples in the Vicinity of Edirne-Turkey**
Zaim N., Tugrul A. B. , Atlas H., BUYUK B., Demir E., Baydoğan N., Altınsoy N.
ACTA PHYSICA POLONICA A, vol.130, no.1, pp.64-67, 2016 (Journal Indexed in SCI)
- XXI. **Investigation for remediation of selenium aqueous environment with using organic pillared bentonite by radiotracer technique**
Tugrul A. B. , Hacıyakupoğlu S., Erentürk S., KARATEPE N., BAYTAS F., Baydoğan N., Altınsoy N., BUYUK B., ORUCOGLU E., Demir E., et al.
Acta Physica Polonica A, vol.127, no.4, pp.1186-1188, 2015 (Journal Indexed in SCI Expanded)
- XXII. **Kinetic and thermodynamic behavior of selenium on modified bentonite and activated carbon using**

radiotracer technique

Tugrul B., Erentürk S., Hacıyakupoğlu S., KARATEPE N., Altınsoy N., Baydoğan N., BAYTAS F., BUYUK B., Demir E., GEDİK S.

Acta Physica Polonica A, vol.128, no.2, pp.180-181, 2015 (Journal Indexed in SCI Expanded)

XXIII. The Characterization of the Irradiated ZrO₂ Transparent Thin Films

Abaylı D., BAYDOĞAN N.

Procedia - Social and Behavioral Sciences, vol.195, pp.2117-2121, 2015 (Journal Indexed in SSCI)

XXIV. The effect of neutron and mixed gamma and neutron irradiation on the solar properties of borosilicate glass

Baydoğan N., Tugrul A. B.

RESEARCH ON CHEMICAL INTERMEDIATES, vol.40, pp.299-306, 2014 (Journal Indexed in SCI)

XXV. Dose depth and penetration of light dependence in the irradiated optical glass by reactor neutrons

Baydoğan N., Tugrul A. B.

OPTICAL MATERIALS, vol.36, no.2, pp.489-494, 2013 (Journal Indexed in SCI)

XXVI. The improvement in the electrical properties of nanospherical ZnO:Al thin film exposed to irradiation using a Co-60 radioisotope

Baydoğan N., Özdemir Ö., Çimenoğlu H.

RADIATION PHYSICS AND CHEMISTRY, vol.89, pp.20-27, 2013 (Journal Indexed in SCI)

XXVII. Borosilicate glass for gamma irradiation fields

Baydoğan N., Tugrul A. B.

SOLID STATE SCIENCES, vol.14, pp.1692-1697, 2012 (Journal Indexed in SCI)

XXVIII. Effect of annealing temperature on ZnO:Al/p-Si heterojunctions

Baydoğan N., KARACASU O., Çimenoğlu H.

THIN SOLID FILMS, vol.520, no.17, pp.5790-5796, 2012 (Journal Indexed in SCI)

XXIX. ZnO:Al thin films used in ZnO: Al/p-Si heterojunctions

Baydoğan N., KARACASU O., Çimenoğlu H.

JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.61, no.3, pp.620-627, 2012 (Journal Indexed in SCI)

XXX. Solar parameters of induced WO₃-coated glass

Baydogan N. D., Zayım E. O., Tugrul A. B.

NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.264, pp.302-310, 2007 (Journal Indexed in SCI)

XXXI. Evaluation of the optical changes for a soda-lime-silicate glass exposed to radiation

Baydogan N., Tugrul A. B.

GLASS PHYSICS AND CHEMISTRY, vol.32, pp.309-314, 2006 (Journal Indexed in SCI)

XXXII. Irradiation effect in WO₃ thin films

Zayım E., BAYDOĞAN N.

SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.90, no.4, pp.402-413, 2006 (Journal Indexed in SCI)

XXXIII. Evaluation of Optical Changes for Soda Lime Silicate Glass Exposed to Radiation

BAYDOĞAN N., Tuğrul A. B.

GLASS PHYSICS AND CHEMISTRY, vol.32, no.3, pp.309-314, 2006 (Journal Indexed in SCI Expanded)

XXXIV. Evaluation of optical properties of the amorphous carbon film on fused silica

Baydogan N.

MATERIALS SCIENCE AND ENGINEERING B-SOLID STATE MATERIALS FOR ADVANCED TECHNOLOGY, vol.107, no.1, pp.70-77, 2004 (Journal Indexed in SCI)

XXXV. Optical and solar parameters of irradiated lead-alkali-silicate glass

Dogan N., TUGRUL A. B.

SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.69, no.3, pp.241-250, 2001 (Journal Indexed in SCI)

XXXVI. Dosimetric evaluation of gamma doses using irradiated lead-alkali-silicate glass

Dogan N., TUGRUL A. B.

RADIATION MEASUREMENTS, vol.33, no.2, pp.211-216, 2001 (Journal Indexed in SCI)

XXXVII. Optical and Solar Parameters of Lead Alkali Silicate Glass

Articles Published in Other Journals

- I. **The effects of the curing parameters of the hydrothermal solution on the characteristic properties of ZnO nanowires**
Tuğral Arslan H., Arslan C., Baydoğan N.
JOURNAL OF OPTICS-INDIA, vol.51, no.1, pp.79-88, 2022 (Journal Indexed in ESCI)
- II. **Production of Microencapsulate Glycidyl Methacrylate with Melamine Formaldehyde Resin Shell Materials**
Baydoğan N.
AIP Conference Proceedings, vol.1, no.1, pp.1-5, 2022 (Refereed Journals of Other Institutions)
- III. **Importance of Colorimetric Quantities in Ophthalmology and Optometry**
BAYDOĞAN N.
Acta Scientific Ophthalmology, vol.4, no.3, 2021 (Refereed Journals of Other Institutions)
- IV. **Effect of Refractive Index on Diopter Glasses for Optical Analysis of Human Eye Using Electromagnetic Wave at Ophthalmology Systems**
BAYDOĞAN N.
Acta Scientific Ophthalmology, vol.5, no.2, 2021 (Refereed Journals of Other Institutions)
- V. **Flexible Poly(imide) Siloxane Block Copolymers to Use at Biomedical Products**
DOĞAN T., KÖKEN N., BULUT O., BAYDOĞAN N.
DEFECT AND DIFFUSION FORUM, vol.400, 2020 (Refereed Journals of Other Institutions)
- VI. **Determination of the Intrinsic Viscosity and Molecular Weight of Poly(methyl methacrylate) Blends**
Yiğit Y., Kilislioğlu A., Karakuş S., Baydoğan N.
Journal of Investigations on Engineering and Technology, vol.2, no.2, pp.34-39, 2019 (Other Refereed National Journals)
- VII. **Optical Model of Sol-Gel Derived Al: ZnO Thin Film**
Tuğral Arslan H., Ürper O., Özdemirsoğlu T., Arslan C., Baydoğan N.
Acta Scientific Ophthalmology, vol.2, no.10, pp.12-15, 2019 (Refereed Journals of Other Institutions)
- VIII. **The variations of hydrophilic self-cleaning properties and refractive index dependence in the ZrO₂ thin films by gamma irradiation**
Abayli D., Baydoğan N.
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- IX. **Evaluation for elimination of methylene-orange from aqueous media by using membrane**
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- I. **İTÜ PATİCA-Patent Ticarileştirme Programı**
Baydoğan N.
Presentation, pp.1-2, 2020
- II. **CRI TÜRK'te Doç. Dr. Michael Kuyucu'nun hazırlayıp sunduğu "Akademik Bakış" programında - Akkuyu Projesi**
Baydoğan N.
Presentation, pp.1-2, 2018
- III. **Exposed Experiment Handrail Attachment Mechanism ExHAM**
Baydoğan N., Bel T.
Presentation, pp.1-2, 2018

Supported Projects

Baydoğan N., Şengül A. V. , Project Supported by Higher Education Institutions, Uzay Radyasyonuna Maruz Kalan Kolemanit Takviyeli Poli (metil metakrilat) Yapının Radyasyon Zırh Özelliklerinde Meydana Gelen Değişimlerin İncelenmesi, 2021 - Continues

Baydoğan N., Kızılcan N., Muhaffel F., Ürper O., Project Supported by Higher Education Institutions, POLİMER NANOKOMPOZİTLERDE MEKANİK ÖZELLİKLERİN İNCELENMESİ, 2018 - Continues

Baydoğan N., Erman E., Project Supported by Higher Education Institutions, MWCNT ve Magnetit Nanodolgular ile Güçlendirilmiş Poli(Metil Metakrilat) Sentezi, 2021 - 2022

Baydoğan N., Doğan T., Industrial Organizations of Other Countries Supported Project, Utilization of Nuclear Technology in Sustainable Development, 2021 - 2021

Baydoğan N., Ürper O., Project Supported by Higher Education Institutions, OPTOELEKTRONİK ÖZELLİKLERİ GELİŞTİRİLEN KATKILI ZnO NANOMALZEMELERİN ELEKTROT MALZEMESİ OLARAK KULLANILMASI, 2019 - 2021

Baydoğan N., Industrial Organizations of Other Countries Supported Project, JAXA - ExHam Research, 2016 - 2021

Baydoğan N., Project Supported by Higher Education Institutions, Gama Işımlarına Maruz Kalmış Hibrit Polyimide-Siloxane Esnek Taşıyıcıların Üretim Parametrelerinin İncelenmesi ve Güneş Hücrelerinde Kullanılan Yarı İletken Yapılarla Bu esnek Taşıyıcıların Uyumunun Değerlendirilmesi, 2014 - 2021

Baydoğan N., Horizon Europe Project, Nanostructured Betavoltaic Micro-Power Generators , 2018 - 2020

Baydoğan N., Ulaş S., Project Supported by Higher Education Institutions, Karbon Nanotüp Takviyeli PMMA Nanokompozit Yapının Üretimi ve İyonizan Radyasyon Karşısında Davranışlarının İncelenmesi, 2017 - 2018

Baydoğan N., Project Supported by Higher Education Institutions, Kendini Çok Yönlü Onarabilen Nanokompozit Geliştirilmesi ve Zırh Malzemesi Olarak Mekanik Davranışlarının İncelenmesi, 2016 - 2018

Baydoğan N., Project Supported by Higher Education Institutions, Polimer malzemelerde degas işleminin yapıya etkisinin incelenmesi ve gama transmisyon tekniği ile polimer yapının yoğunluğunda oluşan değişimler, 2015 - 2018

Baydoğan N., Project Supported by Higher Education Institutions, Investigation of Electrical Properties of CIGS Thin-Films Derived by Sol-Gel Process, 2014 - 2018

Baydoğan N., Project Supported by Higher Education Institutions, fLAW DETECTION oF wELDED jOINTS uSİNG rADİOGRApHİC eXAMİNATIÖN, 2013 - 2018

Baydoğan N., Project Supported by Higher Education Institutions, Irradiation Effect on Ta205 Thin Films, 2013 - 2018

Baydoğan N., Project Supported by Higher Education Institutions, ELECTROMAGNETİC RADATIÖN EFFECT ON ZNO NANOCRYSTALLİTES, 2010 - 2018

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Baydoğan N., Project Supported by Higher Education Institutions, Zırh Malzemesi Olarak Işınlanmış Paslanmaz Çeliklerin Düşük Çevrimli Yorulma Davranışlarının İncelenmesi, 2006 - 2018

Baydoğan N., Project Supported by Higher Education Institutions, GAMA İŞİNLARNA MARUZ KALMIŞ ZrO2 İNCE FİMLERİN KARAKTERİZASYONU, 2015 - 2017

Baydoğan N., Project Supported by Higher Education Institutions, Radyasyon Karşısında Güneş Pillerinin Davranışı, 2013 - 2017

Baydoğan N., Project Supported by Higher Education Institutions, Beta Işımları Karşısında Cıgs İnce Filmlerin Davranışları, 2014 - 2015

Baydoğan N., Project Supported by Higher Education Institutions, Nötronlara Maruz Kalan ZnO:Al/Psi Heterokavşaklarda I-V Karakteristiklerinin Değişimleri, 2011 - 2015

Baydoğan N., Project Supported by Higher Education Institutions, Nötronlara Maruz Kalan ZnO:Al İnce Filmlerde Optik Modelin İncelenmesi, 2011 - 2013

Baydoğan N., Project Supported by Higher Education Institutions, Ta205 İnce Filmlerde Radyasyon Etkisi, 2010 - 2013

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İncelenerek Optik ve Mekanik Özelliklerinin Geliştirilmesi ve Kaliteli Üretim Parametrelerinin Belirlenmesi, 2008 - 2010
Baydoğan N., Zayim E., TUBITAK Project, Gözenekli Tungsten Oksit Filmlerin Hazırlanması ve Katı Elektrokromik Cihaz Tasarımı, 2006 - 2008
Baydoğan N., Tuğrul B., Project Supported by Other Official Institutions, Toprak Nümunelerinin Radyoaktivite Seviyelerinin Tayini ile Katman Değerlendirilmesi, 2001 - 2002

Patent

Baydoğan N., The Wide-Band (500 Mhz 50 Ghz) Dielectric Coefficient of PMMA/Borax Composite , Patent, CHAPTER G Physics, The Invention Recourse Number: 2022/004865 , Standard Registration, 2022
Baydoğan N., PMMA/Co-Fe Nanocomposite with Ferromagnetic Properties and Frequency-Dependent Improvement of Magnetic Permeability in X-Band , Patent, CHAPTER G Physics, The Invention Recourse Number: 2022/004863 , Standard Registration, 2022
Baydoğan N., Coating Method with Multi-Layer Composite Structure in Electronic Systems, Patent, CHAPTER G Physics, The Invention Registration Number: 2017 14987 , Standard Registration, 2022
Baydoğan N., A Material to Be Used in Radiation Shielding and the Production Method of This Material, Patent, CHAPTER G Physics, The Invention Registration Number: 2019 07219 , Standard Registration, 2022
Baydoğan N., Poly (Methyl Methacrylate) Solution Synthesis for Enhanced Oil Recovery, Patent, CHAPTER G Physics, The Invention Recourse Number: 2021/17919 , Standard Registration, 2021

Activities in Scientific Journals

Journal of Nuclear Science and Technology Updates (JNST), Editor, 2021 - Continues
Synthesis and Sintering, First Editor, 2021 - Continues
Journal of Civil, Construction and Environmental Engineering, Editor, 2020 - Continues
Journal of Ophthalmology and Advance Research, Editor, 2020 - Continues
Probe - Media and Communication Studies, First Editor, 2019 - Continues
The Open Biology Journal, Editor, 2019 - Continues
Acta Scientific Ophthalmology (ASOP), Acta Scientific International Open Library, Editor, 2019 - Continues
Ceramic Sciences and Engineering, Editor, 2018 - Continues
Modern Organic Chemistry Research, Editor, 2018 - Continues
Characterization and Application of Nanomaterials, Editor, 2018 - Continues
Green and Environmental Chemistry, Frontiers in Chemistry and Environmental Science, Frontiers Community,, Committee Member, 2017 - Continues
Journal of Chemical Research and Application, Committee Member, 2017 - Continues
Frontiers in Chemistry, Committee Member, 2017 - Continues
SCIREA Journal of Materials, Committee Member, 2017 - Continues
Frontiers in Environmental Science, Committee Member, 2017 - Continues
Nuclear Energy and Engineering, Advisory Committee Member, 2017 - Continues
American Journal of Physics and Applications,, Committee Member, 2017 - 2020
- International Journal of Materials Science and Applications, Committee Member, 2017 - 2020
World Journal of Textile Engineering and Technology, Committee Member, 2017 - 2019

Memberships / Tasks in Scientific Organizations

Çekmece Nuclear Research & Training Center (ÇNAEM TAEK) Neutrality Committee Member for Certification of Non-Destructive Inspection Personnel according to ISO 9712 standard, Member of Science Committee, 2015 - Continues, Turkey

Scientific Refereeing

Project Supported by Other Official Institutions, Istanbul Technical University, Turkey, July 2022

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Istanbul Technical University, Turkey, February 2020

Tasks In Event Organizations

Baydoğan N., 8th Annual International Conference on Network and Information Systems for Computers [ICNISC 2022], Scientific Congress, China, Eylül 2022

Baydoğan N., Doğan T., INTERNATIONAL CONFERENCE ON NUCLEAR TECHNOLOGY RADIATION SAFETY AND ADVANCED TECHNOLOGICAL RESEARCHES, Scientific Congress, İstanbul, Turkey, Aralık 2021

Baydoğan N., 33rd Nano Congress for FUTURE ADVANCEMENTS, Scientific Congress, London, England, Nisan 2021

Baydoğan N., 2021 5th International Workshop on Renewable Energy and Development (IWRED 2021), Scientific Congress, Chengdu, China, Nisan 2021

Ertürk Bozkurtoğlu Ş. N. , Baydoğan N., Kızılcan N., MULTI-SCALE SELF-HEALING NANOCOMPOSITE SHIELDING MATERIAL, Scientific Congress, İstanbul, Turkey, Şubat 2018

Scientific Research / Working Group Memberships

Georgian International Academy Of Sciences, Tbilisi Georgia, Gias Honorary Faculty Members, Georgian International Academy Of Sciences, GIAS, Tbilisi Georgia, Georgia, <http://www.gias.ge/Home/article/73>, 2019 - Continues

Universal Science And Research Center Usrc , Baku Azerbaijan, Usrc Honorary Faculty Members, Universal Science And Research Center , Baku Azerbaijan, Azerbaijan, <http://www.usrc.az/Home/article/69>, 2019 - Continues

Nükleer Teknikler Araştırma Grubu, Istanbul Technical University, Turkey,

<http://www.energy.itu.edu.tr/arastirma/arastirma-gruplari/nukleer-teknikler-arastirma-grubu>, 2014 - Continues

Radyolojik Malzeme Araştırma Grubu, Istanbul Technical University, Turkey,

<http://www.energy.itu.edu.tr/arastirma/arastirma-gruplari/radyolojik-malzeme-arastirma-grubu>, 2014 - Continues

Radyasyondan Korunma Ve Radyoekoloji Araştırma Grubu, Istanbul Technical University, Turkey,

<http://www.energy.itu.edu.tr/arastirma/arastirma-gruplari/radyasyondan-korunma-ve-radyoekoloji-arastirma-grubu>, 2014 - Continues

Mobility Activity

Erasmus Programme, Lecturing, Oran Üniversitesi, Algeria, 2019 - 2019

Other, Workshop, Avrupa Birliği Nanoteknoloji Programı - Malta Ticaret Bakanlığı, Malta, 2018 - 2018

Other, Workshop, Avrupa Birliği Electrical Mobility Europe, Austria, 2017 - 2017

Post Doc, Post Doc, University of California, Berkeley, United States Of America, 2003 - 2004

Edit Congress and Symposium Activities

12th International Conference on Materials and Manufacturing Technologies (ICMMT 2021), Working Group, Singapore, Singapore, 2021

The 11th International Conference on Key Engineering Materials, Session Moderator, Moscow, Russia, 2021

Design Today Save Future Conference, Session Moderator, İstanbul, Turkey, 2019

8TH EGE ENERGY SYMPOSIUM AND EXHIBITION, Session Moderator, Afyonkarahisar, Turkey, 2016

Küresel rekabet için AR-GE, Session Moderator, İstanbul, Turkey, 2016

ISNNM-2012 12th International Symposium on Novel and Nano Materials, Session Moderator, İstanbul, Turkey, 2012

Citations

Total Citations (WOS):276

h-index (WOS):9

Invited Talks

33rd Nano Congress for Future Advancements April 28-29, 2021 Webinar, Conference, Conference Series LLC LTD, United Kingdom, April 2021

Enerji Aygıtları ve Malzemelerinin Modellenmesi-Üretimi, Workshop, Maltepe Üniversitesi, Turkey, July 2019

NANOTECHNOLOGY IN OIL AND GAS - 'PREPARATION AND CHARACTERIZATION OF PMMA/GRAPHENE NANOPATELETS POLYMER NANOCOMPOSITE', Conference, 13th International Conference on Diffusion in Solids and Liquids, DSL 2017, Austria, June 2017

Energy & Nuclear Materials - The Effect of Neutron and Mixed Gamma/Neutron Irradiation on The Solar Parameters of Borosilicate Glass, Conference, ISNNM-2012 12th International Symposium on Novel and Nano Materials, Turkey, August 2012

Scholarships

Post-doctoral Fellowship Program of the Istanbul Technical University Foundation, Turkey, University, 2002 - 2003

Awards

Baydoğan N., Camtakan Z., Kızıldaş S., Genceli M., Okka M., TÜBİTAK H2020 Programı Eşik Üstü Ödülü, Tübitak, January 2019

Baydoğan N., Visiting Researcher Grant, Lawrence Berkeley National Laboratory, Berkeley, California, January 2003

Visual Activities

Baydoğan N., Turkey - Japan Bridge , Cooperation on KIBO Utilization, Documentary, 2018 - 2019

Baydoğan N., Akademik Bakış, Radio Program, 2018 - 2018

Non Academic Experience

Other, Department of Energy Management and Controlling Systems

Other, Georgian International Academy Of Sciences, GIAS Tbilisi Georgia., Department of Energy Management and Controlling Systems

Other Public Institution, Tahribatsız Test Yöntemleri