

Prof. Nilgün Baydoğan

Personal Information

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Address: İTÜ Enerji Enstitüsü, Ayazağa Kampüsü, Maslak, İstanbul

International Researcher IDs

ScholarID: a9hWrn4AAAAJ

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Publons / Web Of Science ResearcherID: I-1298-2017

ScopusID: 15750021000

Yoksis Researcher ID: 54569

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, İstanbul Technical University, Enerji Enstitüsü, Nükleer Araştırmalar, Turkey 1993 - 1996

Undergraduate, İstanbul 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 Begining of our on-orbit experiment for "Radiation Shielding" Theme by İstanbul 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, Tsukaba, Japan, Japan Aerospace Exploration Agency (JAXA) International Space Station, Tsukaba, 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), İstanbul 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, İstanbul Technical University, Enerji Enstitüsü, Nükleer Araştırmalar, 2014 - Continues
Associate Professor, İstanbul Technical University, Enerji Enstitüsü, Nükleer Araştırmalar, 2009 - 2014
Assistant Professor, İstanbul Technical University, Enerji Enstitüsü, Nükleer Araştırmalar, 2007 - 2009
Research Assistant, İstanbul Technical University, Enerji Enstitüsü, Nükleer Araştırmalar, 2002 - 2007
Research Assistant, İstanbul 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 Yürütmeye Kurulu Üyesi, İstanbul Technical University, Enerji Enstitüsü, Nükleer Araştırmalar, 2021 - Continues
Academic Board Member for Nano Science and Nano Engineering Program, the Department of Nano Science and Nano , İstanbul Technical University, Lisansüstü Eğitim Enstitüsü, Academic Board Member for Nano Science and Nano Engineering Program, 2011 - Continues
Academic Board Member for Nuclear Researches Division, Energy Institute, İstanbul Technical University (ITU), İstanbul Technical University, Enerji Enstitüsü, Nükleer Araştırmalar, 2007 - 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, İstanbul Technical University, Enerji Enstitüsü, Nükleer Araştırmalar, 2021 - 2021
Member of Programme Steering Committee, İstanbul Technical University, Enerji Enstitüsü, Nükleer Araştırmalar, 2011 - 2016
Program Executive Board Member for Graduate Program of "Radiation Science and Technology", ITU Energy Institute, İstanbul 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, 2019 - 2020, 2018 - 2019, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011
Radyolojik Malzemeler, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2013 - 2014, 2012 - 2013
Radyasyon Zırhlaması, Postgraduate, 2020 - 2021, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
Radiaiton Damage in Materials, Doctorate, 2019 - 2020, 2018 - 2019, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
RADYASYON.KORUN.&SAĞLIK FİZİĞİ, Postgraduate, 2019 - 2020, 2018 - 2019, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012
NUCLEAR FUEL CYCLE: ANALYSIS AND MANAGEMENT, Doctorate, 2019 - 2020, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2012 - 2013, 2011 - 2012, 2010 - 2011
RADİATİON PROCESS FOR NANOMATERIALS, Doctorate, 2017 - 2018, 2013 - 2014, 2012 - 2013, 2011 - 2012

Radiation Dosimetry, Postgraduate, 2012 - 2013, 2011 - 2012

RADIATION PROTECTION, Postgraduate, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007

Advising Theses

Arslan C., Baydoğan N., Bor karbür katkılı PMMA (polimetil metakrilat) polimerkompozitlerin ATRP metodu ile sentezi ve karakterizasyonu, Postgraduate, D.TULUK(Student), 2022

Baydoğan N., Synthesis of poly (Methyl methacrylate) reinforced by multi-walled carbon nanotubes and magnetite nanofillers, Postgraduate, E.ERMAN(Student), 2022

Baydoğan N., ELECTRICAL CONDUCTIVITY DEVELOPMENT OF PMMA-BASED NANOFUID EMULSION FOR USE IN ENHANCED OIL RECOVERY AT OIL RESERVOIRS, Postgraduate, A.YILMAZ(Student), 2022

Baydoğan N., SYNTHESIS OF POLY(METHYL METHACRYLATE) REINFORCED BY GRAPHENE NANOPLATES , 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., Comparison of beta, neutron and gamma attenuation properties of pmma/colemanite composites, Postgraduate, S.MEHRANPOUR(Student), 2020

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

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

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

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

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 davranışları, Doctorate, U.CANCİ(Student), 2017

Baydoğan N., The investigation of the irradiation effect on PMMA/MWCNTs polymer nanocomposites, Postgraduate, S.ULAĞ(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., 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 diferansiyel tesir kesitlerinin ölçülmesi, Postgraduate, O.ALACAYIR(Student), 2015

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

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

Baydoğan N., Radyasyona maruz kalmış Ta205 ince filmlerin yapısal özelliklerinin incelenmesi, Postgraduate,

B.ERKAN(Student), 2011

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., 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., 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., 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

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

Jury Memberships

Committee Of Expert, Committee Of Expert, Istanbul Technical University, January, 2015

Designed Lessons

Baydoğan N., Radiological Materials, Postgraduate, 2011 - 2012

Baydoğan N., Radiation Damage in Materials, Postgraduate, 2011 - 2012

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., Ultarasonik Test Teknikleri, Seviye-1, 1998 - 1998

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

Research Infrastructure Information

Baydoğan N., Innovationorbit1 Araştırma Grubu, February 2018

Education Infrastructure Information

Baydoğan N., Innovation and Smart Materials, February 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Strengthened bonds by chemical development at surface of low dielectric PMMA/Borax composite for low reflection of broadband waves (500 MHz—50 GHz)**
 Yavuztürk Gülb., Celep M., Baydoğan N.
 Journal of Polymer Research, vol.30, no.12, 2023 (SCI-Expanded)
- II. **Finned heat exchangers made of TiB₂-SiC-graphene composites with enhanced heat transfer performance**
 Nekahi S., Vaferi K., Nekahi S., Vajdi M., Sadegh Moghanlou F., Baydoğan N., Asl M. S.
 Journal of the Brazilian Society of Mechanical Sciences and Engineering, vol.45, no.9, 2023 (SCI-Expanded)
- III. **Optical development and density modification dependence in poly (methyl methacrylate) reinforced with borax microparticles**
 Yigit Y., Yavuztürk Gülb., Macun C. H., Baydoğan N.
 Journal of Polymer Research, vol.30, no.9, 2023 (SCI-Expanded)
- IV. **Modification of gamma transmittance at gamma dose absorbed flexible poly (imide siloxane) block copolymer with high thermal performance feature**
 Dogan T., Baydoğan N.
 Polymer-Plastics Technology and Materials, vol.1, no.1, pp.1-16, 2023 (SCI-Expanded)
- V. **Swelling modification by electron beam at chalcopyrite copper indium gallium diselenide thin-film controlled optical features**
 Baydoğan N., Çimenoglu H., Canci Matur U., Akyol Voss S.
 CURRENT APPLIED PHYSICS, vol.52, pp.9-23, 2023 (SCI-Expanded)
- VI. **Sustainable metal-organic framework co-engineered glass fiber separators for safer and longer cycle life of Li-S batteries**
 Ponnada S., Mansoor M., Aslfattahi N., Baydogan N., Naskar S., Sharma R. K., Kiai M. S.
 JOURNAL OF ALLOYS AND COMPOUNDS, vol.941, pp.1-6, 2023 (SCI-Expanded)
- VII. **Cu layer derived by accelerated microparticles on ZnO:Al/p-Si heterojunction**
 Köse Y., Ürper O., Çimenoglu H., Baydoğan N.
 Journal of Materials Science: Materials in Electronics, vol.34, no.8, 2023 (SCI-Expanded)
- VIII. **Modification of optical constants at nanospherical ZnO:Al thin film**
 Urper O., Tonka M., Baydogan N.
 JOURNAL OF MATERIALS SCIENCE: MATERIALS IN ELECTRONICS, vol.34, no.4, pp.1-6, 2023 (SCI-Expanded)
- IX. **Experimental study and numerical simulation for the development of critical performance parameters of eco-friendly Cu₂ZnSnS₄-based solar cells**
 Belarbi F., Matur U. C., Tamin C., Rahal W., Benghabrit S., Baydoğan N., Adnane M.
 OPTICS AND LASER TECHNOLOGY, vol.158, 2023 (SCI-Expanded)
- X. **Machine learning analysis on critical structural factors of Al:ZnO (AZO) films**
 Yıldırım C., Baydoğan N.
 MATERIALS LETTERS, vol.336, pp.1-4, 2023 (SCI-Expanded)
- XI. **High temperature performance adhesive derived from randomly segmented poly (imide siloxane) copolymer**
 Doğan T., Bel T., Doğan M., Köken N., Kızılcan N., Baydoğan N.
 Materials Science and Engineering B: Solid-State Materials for Advanced Technology, vol.287, 2023 (SCI-Expanded)
- XII. **Effect of the improved bulk modulus on dielectric properties of poly (methyl methacrylate)/borax hybrid composite at radar frequencies**
 Gül F. B., Danaci E., Baydoğan N.
 Materials Today Communications, vol.33, 2022 (SCI-Expanded)
- XIII. **Thermal neutrons effect on improvement of electrical properties at CIGS thin film derived by sol-gel dip coating technique**
 Matur U. C., Baydoğan N.
 Optical Materials, vol.134, 2022 (SCI-Expanded)
- XIV. **Effect of electron beam improved dielectric function on optical properties of sol-gel derived CuIn1-**

- XGaXSe₂ thin-film**
Akyol Voss S., Cancı Matur U., Cimenoğlu H., Baydoğan N.
Optical Materials, vol.134, 2022 (SCI-Expanded)
- XV. 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 (SCI-Expanded)
- XVI. 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 (SCI-Expanded)
- XVII. 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 (SCI-Expanded)
- XVIII. Improvement of thermal stability and gamma-ray absorption in microwave absorbable poly(methyl methacrylate)/graphene nanoplatelets nanocomposite**
Bel T., Muhammettursun M., Kocacinar E., Erman E., Gul F. B., Dogan E., Celep M., Baydoğan N.
Journal of Applied Polymer Science, vol.138, 2021 (SCI-Expanded)
- XIX. Investigation of the elastic properties of poly (methyl methacrylate) reinforced with graphene nanoplatelets**
Muhammettursun M., Bel T., Kocacinar E., Erman E., Gul F. B., Augousti A., Baydoğan N.
Journal of Applied Polymer Science, vol.138, no.29, 2021 (SCI-Expanded)
- XX. 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 (SCI-Expanded)
- XXI. 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 (SCI-Expanded)
- XXII. 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 (SCI-Expanded)
- XXIII. Annealing time effect on CIGS thin films**
Matur U. C., Baydoğan N.
Emerging Materials Research, vol.9, no.3, pp.725-729, 2020 (SCI-Expanded)
- XXIV. 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 (SCI-Expanded)
- XXV. Influence of structural changes on electrical properties of Al:ZnO films**
Ürper O., Baydoğan N.
MATERIALS LETTERS, vol.258, 2020 (SCI-Expanded)
- XXVI. The Growth and Structural Characterization in Sol-Gel Derived CuIn(1-x),Ga_xSe₂ 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 (SCI-Expanded)
- XXVII. 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 (SCI-Expanded)
- XXVIII. **Annealing ambient effect on electrical properties of ZnO:Al/p-Si heterojunctions**
Ürper O., Karacasu O., Çimenoğlu H., Baydoğan N.
SUPERLATTICES AND MICROSTRUCTURES, vol.125, pp.81-87, 2019 (SCI-Expanded)
- XXIX. **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 (SCI-Expanded)
- XXX. **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 (SCI-Expanded)
- XXXI. **Sol-Gel Derived Cu(In,Ga)Se₂ Thin Film Solar Cell**
Matur U. C., Baydoğan N.
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.12, pp.352-358, 2017 (SCI-Expanded)
- XXXII. **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 (SCI-Expanded)
- XXXIII. **Sol Gel Derived Cu In Ga Se₂ Thin Film Solar Cell**
CANÇİ MATUR U., Baydoğan N.
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.12, pp.352-358, 2017 (SCI-Expanded)
- XXXIV. **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., Altinsoy N.
ACTA PHYSICA POLONICA A, vol.130, no.1, pp.64-67, 2016 (SCI-Expanded)
- XXXV. **Investigation for remediation of selenium aqueous environment with using organic pillared bentonite by radiotracer technique**
Tugrul A. B., Haciykupoğlu S., Erentürk S., KARATEPE N., BAYTAS F., Baydoğan N., Altinsoy N., BUYUK B., ORUCOGLU E., Demir E., et al.
Acta Physica Polonica A, vol.127, no.4, pp.1186-1188, 2015 (SCI-Expanded)
- XXXVI. **The Characterization of the Irradiated ZrO₂ Transparent Thin Films**
Abaylı D., BAYDOĞAN N.
Procedia - Social and Behavioral Sciences, vol.195, pp.2117-2121, 2015 (SSCI)
- XXXVII. **Kinetic and thermodynamic behavior of selenium on modified bentonite and activated carbon using radiotracer technique**
Tugrul B., Erentürk S., Haciykupoğlu S., KARATEPE N., Altinsoy N., Baydoğan N., BAYTAS F., BUYUK B., Demir E., GEDIK S.
Acta Physica Polonica A, vol.128, no.2, pp.180-181, 2015 (SCI-Expanded)
- XXXVIII. **The effect of neutron and mixed gamma and neutron irradiation on the solar properties of borosilicate glass**
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NANOTUBES (MWCNTs)

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Yılmaz A., Soleimani H., Baydoğan N.

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Doğan T., Köken N., Baydoğan N.

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Maimaitituersun M., Giz A. T., Baydoğan N.

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Doğan T., Köken N., Baydoğan N.

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Ulag S., Baydoğan N.
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Ürper O., Baydoğan N.
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Cancı Matur U., Baydoğan N.
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- XXXVII. **Elimination of Methylene Orange from Aqueous Media by Using Membrane**
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pp.196

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Baydoğan N., Tuğrul A. B.
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- XXXIX. **The changes in optical absorbance of ZrO₂ thin film with the rise of the absorbed dose**
Abaylı D., Baydogan N.
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- XL. **Synthesis Of Randomly Segmented Poly Amide Siloxane And Poly Imide Siloxane Block Copolymers**
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Matur U., Baydogan N.
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Tuğrul A. B., Altınsoy N., Demir E., Erentürk S., Yavuz N., Hacıyakupoğlu S., Büyükk B., Baydoğan N., Baytaş A. F., Er Z. Fifth International Conference on Environmental Management, Engineering, Planningand Economics(CEMEPE 2015) & SECOTOX Conference, Athens, Greece, 11 - 13 November 2015, vol.1, pp.344-349
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Tuğrul A. B., Altınsoy N., Demir E., Erentürk S., Büyükk B., Hacıyakupoğlu S., Baydoğan N., Baytaş A. F., Karatepe N. Ulusal Membran Teknolojileri Ve Uygulamaları Sempozyumu (MEMTEK-2015), İstanbul, Turkey, 7 - 08 October 2015, pp.8
- XLIV. **The Optical Properties of CIGS Thin Films Derived by Sol Gel Dip Coating Process at Different Withdrawal Speed**
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Istanbul University World Conference on Technology, Innovation And Entrepreneurship For Technology And Innovation - Based Sustainable Development, 24 - 29 August 2015
- XLV. **PRODUCTION OF SILICA THIN FILM BY USING SOL GEL METHOD PRODUCED FROM TEOS**
Tuna N., Yıldırım C., Baydoğan N., Baydoğan M.
9th International Physics Conference of the Balkan Physical Union, İstanbul, Turkey, 24 - 27 August 2015, pp.1-5
- XLVI. **The Changes In Optical Density Of Zro₂ Thin Film With The Rise Of The Absorbed Dose**
Abaylı D., Baydogan N.
9th International Physics Conference of the Balkan Physical Union - BPU9, İstanbul, Turkey, 24 - 27 August 2015, vol.1, no.1, pp.175
- XLVII. **SURFACE MODIFICATION OF SILICA AEROGELS**
Tuna N., Cumhur Y., Baydoğan N., Baydoğan M.
9th International Physics Conference of the Balkan Physical Union, İstanbul, Turkey, 24 - 27 August 2015, pp.1-5
- XLVIII. **The Production Of ZnO Al CIGS Heterojunction By Sol Gel Dip Coating Technique**
Cancı Matur U., Akyol Ş., Baydoğan N., Çimenoğlu H.
9th International Physics Conference of the Balkan Physical Union - BPU9, 24 - 27 August 2015, İstanbul, Turkey., İstanbul, Turkey, 24 - 27 August 2015, vol.1, no.1, pp.549
- XLIX. **Characterization of High Performance Randomly Segmented Poly(urethane siloxane) and Poly(imide siloxane) Block Copolymers**
Doğan T., Baydoğan N., Köken N.
9th International Physics Conference of the Balkan-Physical-Union (BPU), İstanbul, Turkey, 24 - 27 August 2015, vol.1722
- L. **Production of Nano Cu In Ga Se₂ Film Solution Under Inert Gas Atmosphre**
Akyol Ş., Cancı Matur U., Baydoğan N., Çimenoğlu H.
9th International Physics Conference of the Balkan Physical Union - BPU9, İstanbul, Turkey, 24 - 27 August 2015,

vol.549, pp.1-5

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Akyol S., Cancı Matur U., Baydoğan N., Çimenoglu H.
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vol.1, no.1, pp.5
- L.II. **Investigation for removal of methylene-blue in aqueous environment by using different membranes**
Tuğrul A. B., Altınsoy N., Demir E., Erentürk S., Yavuz N., Hacıyakupoğlu S., Büyük B., Baydoğan N., Baytaş A. F., Er Z.
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vol.1, pp.5
- L.IV. **The Characterization of the Irradiated ZrO₂ Transparent Thin Films**
Abaylı D., Baydogan N.
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2121
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Tuğral Aslan H., Baydoğan N., Çimenoglu H.
Istanbul University University World Conference on Technology, Innovation And Entrepreneurship For
Technology And Innovation - Based Sustainable Development, İstanbul, Turkey, 28 - 30 May 2015, vol.1, pp.7
- L.VII. **High Performance Randomly Segmented Poly(Urethane Siloxane) and Poly(Imide Siloxane)
Copolymers**
Doğan T., Baydoğan N., Köken N.
World Conference on Technology, Innovation and Entrepreneurship, İstanbul, Turkey, 28 - 30 May 2015, pp.2221-
2227
- L.VIII. **Aging Effect Of Sol-Gel Solution on Characteristic Properties of ZnO:Al Nanowires**
Tugral Arslan H., Çimenoglu H., Baydoğan N.
Istanbul University University World Conference on Technology, Innovation And Entrepreneurship For
Technology And Innovation - Based Sustainable Development, İstanbul, Turkey, 5 - 10 May 2015, pp.122
- L.IX. **Structural and Optical Properties of ZrO₂ Transparent Thin Films Prepared By Sol Gel Method**
Abaylı D., Baydoğan N.
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(CEMEPE), Athens, Greece, 13 - 15 April 2015, vol.1, pp.8-12
- L.X. **Investigation of Natural Radioactivity for Surface Soil Samples in the Vicinity of Edirne Turkey**
Zaim N., Tuğrul A. B., Demir E., Büyük B., Atlas H., Baydoğan N., Altınsoy N.
2nd International Conference on Computational and ExperimentalScience and Engineering (ICCESEN 2015),
Antalya, Turkey, 11 - 13 November 2015, pp.70
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Withdrawal Speed**
Matur U. C., Akyol S., Baydogan N., Cimenoglu H.
World Conference on Technology, Innovation and Entrepreneurship, İstanbul, Turkey, 28 - 30 May 2015, pp.1762-
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- LXII. **Beta irradiation effect on Cu(In, Ga)Se₂ thin-films**
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- LXIII. **Poly(imide Siloxane) Block Copolymers with Different Block Lengths and Their Structural Properties**
Doğan T., Baydoğan N., Kızılcan N.
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- LXIV. **Kinetic and Thermodynamic Behaviour of Selenium on Modified Bentonite and Activated Carbon Using Radiotracer Technique**
Tuğrul A. B., Erentürk S., Hacıyakupoğlu S., Yavuz N., Altınsoy N., Baydoğan N., Baytaş A. F., Büyükk B., Demir E., Oruçoglu E.
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- LXV. **Assessment of Adsorption Parameter Effectiveness for Radio-Selenium and Radio-Iodine Adsorption on Activated Carbon**
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- LXVI. **Assessment of Radioiodine and Radioselenium Adsorptions on Activated Carbon in Aqueous Media**
Tuğrul A. B., Yavuz N., Hacıyakupoğlu S., Erentürk S., Altınsoy N., Baydoğan N., Baytaş A. F., Büyükk B., Demir E.
ICEM-2014, İstanbul, Turkey, 5 - 07 June 2014, pp.37
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Matur U. C., Akyol S., Baydoğan N., Çimenoğlu H.
International Conference on Energy and Management, Turkey, 5 - 07 June 2014, pp.179-191
- LXVIII. **I-V Characterization of the Irradiated ZnO:Al Thin Film on P-Si Wafers By Reactor Neutrons**
Günaydin E., Matur U. C., Baydoğan N., Tugrul A. B., Çimenoğlu H., YEŞİLKAYA S. S.
International Conference on Energy and Management, Turkey, 5 - 07 June 2014, pp.171-178
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Patent

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Baydoğan N., ATRP YÖNTEMİ İLE SENTEZLENEN PMMA/Co-Fe NANOKOMPOZİTİN FERROMANYETİK ÖZELLİKLERDE ÜRETİMİ, X-BANDINDA MANYETİK GEÇİRGENLİĞİNİN FREKANSA BAĞLI OLARAK GELİŞTİRİLMESİ TEKNİĞİ VE POTANSİYEL UYGULAMA ALANLARI, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Recourse Number: PCT/TR2023/050286 , Triadic Registration, 2023

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., GELİŞTİRİLMİŞ PETROL KURTARIMI İÇİN POLİ(METİL METAKRİLAT) ÇÖZELTİ SENTEZİ, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Recourse Number: PCT/TR2022/051304 , Triadic 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

Contractual Researches

Dogán T., Baydoğan N., CRDF (Civilian Research and Development Foundation) Global (nonprofit organization) and Global Affairs Canada, Utilization of Nuclear Technology in Sustainable Development, 2021 - 2021

Activities in Scientific Journals

Journal of Clinical, Medical, and Diagnostic Research(JCMDR), Committee Member, 2023 - Continues
Rafidain Journal of Science (RJS), Committee Member, 2023 - Continues
AMERICAN JOURNAL OF NEUROLOGY AND PSYCHIATRY RESEARCH, Editor, 2023 - Continues
BOHR International Journal of Engineering (BIJE), Publication Committee Member, 2023 - Continues
Synthesis and Sintering, First Editor, 2021 - Continues
Journal of Nuclear Science and Technology Updates (JNST), Editor, 2021 - Continues
Applied Science and Technology Express, Editor, 2021 - Continues
International Journal of Advanced and Applied Sciences (IJAAS), Editor, 2021 - Continues
Journal of Innovation Transformation and Development Research, Editor, 2021 - Continues
Journal of Ophthalmology Research Reviews & Reports, Editor, 2021 - Continues
Journal of Ophthalmology and Advance Research, Editor, 2020 - Continues
Journal of Civil, Construction and Environmental Engineering, 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
Characterization and Application of Nanomaterials, Editor, 2018 - Continues
Ceramic Sciences and Engineering, Editor, 2018 - Continues
Modern Organic Chemistry Research, Editor, 2018 - Continues
Journal of Chemical Research and Application, Committee Member, 2017 - Continues
Green and Environmental Chemistry, Frontiers in Chemistry and Environmental Science, Frontiers Community, Committee Member, 2017 - Continues
Frontiers in Chemistry, Committee Member, 2017 - Continues
Nuclear Energy and Engineering, Advisory Committee Member, 2017 - Continues
Frontiers in Environmental Science, Committee Member, 2017 - Continues
SCIREA Journal of Materials, 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

GIAS Honorary Faculty Members, Georgian International Academy Of Sciences, Department of Energy Management and Controlling Systems, School of Science and Technology, Member of Science Committee, 2019 - Continues, Georgia
USRC Honorary Faculty Members, Universal Science and Research Center, Department of Energy Management and Controlling Systems, School of Science and Technology, Member of Science Committee, 2019 - Continues, Azerbaijan
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

BOHR International Journal of Engineering (BIJE), Other Indexed Journal, January 2023

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., The International Congress on Optics, Electronics, and Optoelectronics 2023 (ICOEO-2023), , Scientific Congress, Xiamen, China, Haziran 2023

Baydoğan N., International Joint Conference on Energy and Environmental Engineering (CoEEE), Scientific Congress, Stockholm, Sweden, Mayıs 2023

Baydoğan N., ICMAA 2023 The 7th International Conference on Mechanical, Aeronautical and Automotive Engineering, Scientific Congress, Bangkok, Thailand, Şubat 2023

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

Baydoğan N., International Conference Nuclear Technology, Radiation Safety and Advanced Technological Researhes (ICNRA 2021), Scientific Congress, İstanbul, Turkey, Aralik 2021

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

Baydoğan N., Seminar Series 4- Nuclear interactions and the development at medical products and archeometry, for Utilization of Nuclear Technology in Sustainable Development, Scientific Congress, İstanbul, Turkey, Kasım 2021

Baydoğan N., 4. The Importance of Nuclear Science and Technology in the Development of Innovative Materials, Social Activities, İstanbul, Turkey, Kasım 2021

Baydoğan N., Seminar Series 3- Nuclear interactions and environmental researches, for Utilization of Nuclear Technology in Sustainable Development, Scientific Congress, İstanbul, Turkey, Kasım 2021

Baydoğan N., Radiation Damage and Ensuring Radiation Safety in Materials Used for Radiological Purposes, Social Activities, İstanbul, Turkey, Kasım 2021

Baydoğan N., The Importance of Radiation Safety in Nanotechnological Products, Social Activities, Turkey, Kasim 2021

Baydoğan N., Seminar Series 2- Nuclear interactions and industrial development, for Utilization of Nuclear Technology in Sustainable Development, Scientific Congress, İstanbul, Turkey, Kasim 2021

Baydoğan N., The Effects of Energy Resources on Nuclear Energy Preference in the World and in Turkey and its Future Investigation, Social Activities, İstanbul, Turkey, Kasim 2021

Baydoğan N., Seminar Series 1- Nuclear interactions and material development, for Utilization of Nuclear Technology in Sustainable Development, Scientific Congress, İstanbul, Turkey, Kasim 2021

Baydoğan N., Seminar: The Effects of Energy Resources on Nuclear Energy Preference in the World and in Turkey and its Future Investigation, Scientific Congress, İstanbul, Turkey, Kasim 2021

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

Baydoğan N., 12th International Conference on Materials and Manufacturing Technologies (ICMMT 2021), Scientific Congress, Singapore, Singapore, Nisan 2021

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

Baydoğan N., International Conference on Energy and Sustainable Built Environment Design Today, ICESBE 2019 , Scientific Congress, İstanbul, Turkey, Haziran 2019

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

Baydoğan N., POLYMER & NANOCOMPOSITES SYMPOSIUM, Scientific Congress, İstanbul, Turkey, Şubat 2018

Baydoğan N., Seminar on Muli-Scale Self-Healing Nanocomposite Shielding Material -Polymer and Nanocomposites, Scientific Congress, İstanbul, Turkey, Şubat 2018

Baydoğan N., International Ege Energy Symposium and Exhibition (IEESE), Scientific Congress, Afyonkarahisar, Turkey, Mayıs 2016

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, İstanbul Technical University, Turkey,
<http://www.energy.itu.edu.tr/arastirma/arastirma-gruplari/nukleer-teknikler-arastirma-grubu>, 2014 - Continues
Radyolojik Malzeme Araştırma Grubu, İstanbul Technical University, Turkey,
<http://www.energy.itu.edu.tr/arastirma/arastirma-gruplari/radyolojik-malzeme-arastirma-grubu>, 2014 - Continues
Radyasyondan Korunma Ve Radyoekoloji Araştırma Grubu, İstanbul 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

Metrics

Publication: 265
Citation (WoS): 309
Citation (Scopus): 510
H-Index (WoS): 9
H-Index (Scopus): 12

Congress and Symposium Activities

12th International Conference on Materials and Manufacturing Technologies (ICMKT 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

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 Modelleme-Üretimi, Workshop, Maltepe Üniversitesi, Turkey, July 2019
NANOTECHNOLOGY IN OIL AND GAS - 'PREPARATION AND CHARACTERIZATION OF PMMA/GRAPHENE
NANOPLATELETS 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., Kızıltas 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., Akkuyu NGS, Documentary, 2023 - 2023

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

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

Representation and Promotion Activities

Institutional Representation, Kalkınma Bakanlığı <https://www.sbb.gov.tr/wp-content/uploads/2020/04/BilgiyeiletimTeknolojileriOzellitisasKomisyonuRaporu.pdf>, Turkey, İstanbul, 2018 - 2018

Non Academic Experience

University of California, Lawrence Berkeley National Laboratory, Accelerator and Fusion Divisions, Plasma Applications Group

Kocaeli University, Science and Literature Faculty, Department of Physics, Solid State Physics Division