

Assoc. Prof. IŞIL BİRLİK

Personal Information

Office Phone: [+90 232 301 7487](tel:+902323017487)

Email: isil.kayatekin@deu.edu.tr

Web: <https://avesis.deu.edu.tr/isil.kayatekin>

International Researcher IDs

ScholarID: DTRLHs8AAAAJ

ORCID: 0000-0003-3098-2001

Publons / Web Of Science ResearcherID: Q-2312-2019

ScopusID: 23048676900

Yoksis Researcher ID: 183934

Education

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (Dr), Turkey 2006 - 2011

Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (Yl) (Tezli), Turkey 2003 - 2006

Undergraduate, Dokuz Eylul University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, Turkey 1999 - 2003

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Synthesis of superconducting films and improvement of their flux pinning properties with barium zirconate nanoparticles using chemical solution deposition method, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (Dr), 2011

Postgraduate, Synthesis and characterization of buffer layers and yttrium barium copper oxide superconducting coatings by chemical solution deposition method, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (Yl) (Tezli), 2006

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Engineering and Technology

Academic Positions

Associate Professor, Dokuz Eylul University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, 2023 - Continues

Assistant Professor, Dokuz Eylul University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, 2011 -

2023

Research Assistant, Dokuz Eylul University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, 2003 - 2011

Academic and Administrative Experience

Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Dokuz Eylul University, 2016 - 2019

Deputy Head of Department, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Nanobilim ve Nanomühendislik Anabilim Dalı, 2017 - 2018

Deputy Head of Department, Dokuz Eylul University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, 2017 - 2018

Courses

Postgraduate

MME5054 Yapısal Nanokristalin Malzemeler, Postgraduate, 2013 - 2014

Undergraduate

MMM4709 Bitirme Projesi Hazırlık, Undergraduate, 2020 - 2021, 2019 - 2020, 2017 - 2018, 2016 - 2017, 2015 - 2016

MMM3505 Fiziksel Metalurji, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

MMM4898 Bitirme Projesi, Undergraduate, 2020 - 2021, 2019 - 2020

MME1113 Introduction to Materials Engineering, Undergraduate, 2020 - 2021

MMM2011 Malzeme Bilgisi, Undergraduate, 2020 - 2021, 2017 - 2018, 2015 - 2016

MME2001 Materials Science I, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

MTS3003 Nanoteknoloji'ye Giriş, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

MMM2402 Malzeme II, Undergraduate, 2019 - 2020, 2017 - 2018, 2016 - 2017

MMM2416 Taşınım Olayları, Undergraduate, 2019 - 2020

MME1218 Technical English II, Undergraduate, 2019 - 2020, 2016 - 2017

MME1111 Introduction to Materials Engineering, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017

MMM4098 Bitirme Projesi, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

MMM3012 Isıl İşlemler, Undergraduate, 2017 - 2018

MME2011 Materials Science, Undergraduate, 2017 - 2018

MME1107 Technical English I, Undergraduate, 2017 - 2018

MMM4711 Tasarım ve Malzeme Seçimi, Undergraduate, 2016 - 2017, 2015 - 2016

MMM3015 Malzeme Karakterizasyonu II, Undergraduate, 2015 - 2016

MME1101 Introduction to Materials Engineering, Undergraduate, 2015 - 2016

Supervised Theses

BİRLİK I., Silika esaslı nadir toprak elementleri katkılı fotonik kristallerin geliştirilmesi, Doctorate, R.DALMIŞ(Student), 2020

BİRLİK I., Metalik implantlar üzerine CaP kaplamaların elektroforetik çöktürme yöntemi ile üretimi ve karakterizasyonu, Postgraduate, U.TİRLİÇ(Student), 2019

BİRLİK I., Katkılı nanopartikül içeren kaplamaların yapısal özelliklerinin incelenmesi, Postgraduate, D.DAĞDELEN(Student), 2019

BİRLİK I., Elektroçöktürme tekniği ile üretilen Ni esaslı nanokompozit kaplamaların yapısal ve mekanik özellikleri, Postgraduate, O.BARDAKÇIOĞLU(Student), 2016

BİRLİK I., Elektroçöktürme yöntemi ile Ni matris nanokompozit kaplamaların üretimi, Postgraduate,

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Synthesis and characterization of YBCO superconducting thin films doped with BaHfO₃ via the TFA-MOD technique for potential aerospace applications**
BEKTAŞ M., BİRLİK I., Celik E.
Physica C: Superconductivity and its Applications, vol.629, 2025 (SCI-Expanded)
- II. **Enhancement of the photocatalytic efficiency of ZnO utilizing luminescent Y₂O₃ particles**
Gultekin S., BİRLİK I., OĞUZLAR S., ERTEKİN K.
MATERIALS RESEARCH EXPRESS, vol.11, no.11, 2024 (SCI-Expanded)
- III. **Synthesis and characterization of BaIrO₃-doped YBCO superconducting thin films via TFA-MOD technique**
BEKTAŞ M., BİRLİK I., Celik E.
Journal of Materials Science: Materials in Electronics, vol.35, no.15, 2024 (SCI-Expanded)
- IV. **Manipulation of brightness and decay kinetics of LuAG: Ce³⁺ and YAG: Ce³⁺ by simple metal oxides in polymeric matrices**
Yildirim B., KESKİN Ö. Y., OĞUZLAR S., BİRLİK I., Azem F. A., ERTEKİN K.
OPTICS AND LASER TECHNOLOGY, vol.142, 2021 (SCI-Expanded)
- V. **Comparison of Sm³⁺ and Tb³⁺ dopant effects on the silica-based three-dimensional inverse opal photonic crystal coatings**
DALMIŞ R., BİRLİK I., AK AZEM N. F., Celik E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.6, pp.7815-7826, 2021 (SCI-Expanded)
- VI. **Structurally colored silica photonic crystal coatings modified by Ce or Eu rare-earth dopants**
DALMIŞ R., BİRLİK I., AK AZEM N. F., Celik E.
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.603, 2020 (SCI-Expanded)
- VII. **Investigation of Spectral Interactions between a SrAl₂O₄:Eu²⁺, Dy³⁺ Phosphor and Nano-Scale TiO₂**
OĞUZLAR S., ZEYREK ONGUN M., KESKİN Ö. Y., Delice T. K., Azem F. A., BİRLİK I., ERTEKİN K.
JOURNAL OF FLUORESCENCE, vol.30, no.4, pp.839-847, 2020 (SCI-Expanded)
- VIII. **Enhancing optical properties of Lu₃Al₅O₁₂:Ce³⁺ by cost-effective silica-based photonic crystals**
Yildirim B., DALMIŞ R., ERTEKİN K., BİRLİK I., Azem F. A.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.13, pp.10267-10278, 2020 (SCI-Expanded)
- IX. **Comparison of the effect of non-metal and rare-earth element doping on structural and optical properties of CuO/TiO₂ one-dimensional photonic crystals**
KESKİN Ö. Y., DALMIŞ R., BİRLİK I., AK AZEM N. F.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.817, 2020 (SCI-Expanded)
- X. **Synergistic effect of manganese and nitrogen codoping on photocatalytic properties of titania nanoparticles**
BİRLİK I., Dagdelen D.
BULLETIN OF MATERIALS SCIENCE, vol.43, no.1, 2020 (SCI-Expanded)
- XI. **A new one-dimensional photonic crystal combination of TiO₂/CuO for structural color applications**
DALMIŞ R., KESKİN Ö. Y., AK AZEM N. F., BİRLİK I.
CERAMICS INTERNATIONAL, vol.45, no.17, pp.21333-21340, 2019 (SCI-Expanded)
- XII. **Modification of the sedimentation method for PMMA photonic crystal coatings**
DALMIŞ R., BİRLİK I., AK AZEM N. F., Celik E.
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.577, pp.194-201, 2019 (SCI-

Expanded)

- XIII. **SiO₂/TiO₂ one-dimensional photonic crystals doped with Sm and Ce rare-earth elements for enhanced structural colors**
DALMIŞ R., AK AZEM N. F., BİRLİK I., Celik E.
APPLIED SURFACE SCIENCE, vol.475, pp.94-101, 2019 (SCI-Expanded)
- XIV. **Sputtered Si and Mg doped hydroxyapatite for biomedical applications**
Vladescu A., Cotrut C. M., AK AZEM N. F., Bramowicz M., Pana I., Braic V., BİRLİK I., Kiss A., Braic M., Abdulgader R., et al.
BIOMEDICAL MATERIALS, vol.13, no.2, 2018 (SCI-Expanded)
- XV. **Biodegradable Ceramics Consisting of Hydroxyapatite for Orthopaedic Implants**
Monsees T. K., AK AZEM N. F., Cotrut C. M., Braic M., Abdulgader R., Pana I., BİRLİK I., Kiss A., Booysen R., Vladescu A.
COATINGS, vol.7, no.11, 2017 (SCI-Expanded)
- XVI. **Preparation and Characterization of Ni-TiO₂ Nanocomposite Coatings Produced by Electrodeposition Technique**
BİRLİK I., AK AZEM N. F., Toparli M., Celik E., Delice T. K., Yildirim S., Bardakcioglu O., DİKİCİ T.
FRONTIERS IN MATERIALS, vol.3, 2016 (SCI-Expanded)
- XVII. **Mechanical properties and fractal analysis of the surface texture of sputtered hydroxyapatite coatings**
Bramowicz M., Braic L., AK AZEM N. F., Kulesza S., BİRLİK I., Vladescu A.
APPLIED SURFACE SCIENCE, vol.379, pp.338-346, 2016 (SCI-Expanded)
- XVIII. **Effect of SiC interlayer between Ti6Al4V alloy and hydroxyapatite films**
Azem F. A., BİRLİK I., Braic V., Toparli M., Celik E., Parau A., Kiss A., Titorencu I., Vladescu A.
Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, vol.229, no.4, pp.307-318, 2015 (SCI-Expanded)
- XIX. **The corrosion and bioactivity behavior of SiC doped hydroxyapatite for dental applications**
AK AZEM N. F., Kiss A., BİRLİK I., Braic V., Luculescu C., Vladescu A.
CERAMICS INTERNATIONAL, vol.40, no.10, pp.15881-15887, 2014 (SCI-Expanded)
- XX. **CHARACTERIZATION AND DETERMINATION OF MECHANICAL PROPERTIES OF YBCO SUPERCONDUCTING THIN FILMS WITH MANGANESE USING THE TFA-MOD METHOD**
ÇULHA O., BİRLİK I., Toparli M., Celik E., Engel S., Holzapfel B.
MATERIALI IN TEHNOLOGIJE, vol.47, no.2, pp.153-160, 2013 (SCI-Expanded)
- XXI. **Characterization of Buffer Layers on Ni-based Substrates for YBCO Superconductors**
BİRLİK I., Celik E.
CANADIAN METALLURGICAL QUARTERLY, vol.49, no.1, pp.81-89, 2010 (SCI-Expanded)
- XXII. **Structural, Electrical, and Electromagnetic Properties of Cotton Fabrics Coated with Polyaniline and Polypyrrole**
Onar N., AKŞİT A., EBEOĞLUGİL M. F., BİRLİK I., Celik E., Ozdemir I.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.114, no.4, pp.2003-2010, 2009 (SCI-Expanded)
- XXIII. **Electromagnetic and Electrical Properties of Coated Cotton Fabric with Barium Ferrite Doped Polyaniline Film**
AKŞİT A., Onar N., EBEOĞLUGİL M. F., BİRLİK I., Celik E., Ozdemir I.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.113, no.1, pp.358-366, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **Evaluating the impact of sonication process on graphene oxide structural properties**
Sargin F., Azem F. A., Kanbur K., Birlik I., Turk A.
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.13, no.4, pp.1139-1149, 2024 (Peer-Reviewed Journal)

- II. **The Role of Water on the Oxidation Process of Graphene Oxide Structures**
KANBUR K., Birlik I., SARGIN F., AK AZEM N. F., TÜRK A.
Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.28, no.3, pp.567-578, 2024 (Peer-Reviewed Journal)
- III. **Corrosion Performance of Electrodeposited Ni Nanocomposite Coatings Reinforced with Metal Oxide Particles**
AK AZEM N. F., Birlik I., KOÇ DELİCE T., Dalmış R.
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.26, no.76, pp.28-33, 2024 (Peer-Reviewed Journal)
- IV. **Improvement of Photocatalytic Degradation of Titanium Dioxide Nanomaterials by Non-metal Doping**
AK AZEM N. F., BİRLİK I., KESKİN Ö. Y., Koç Delice T.
Aydın Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.23, no.4, pp.874-882, 2023 (Peer-Reviewed Journal)
- V. **Investigation the Effect of pH Value in Graphene Oxide Production**
Kanbur K., Birlik I., Sargin F., Ak Azem N. F., Türk A.
Euroasia Journal of Mathematics, Engineering, Natural & Medical Sciences, vol.9, no.20, pp.189-197, 2022 (Peer-Reviewed Journal)
- VI. **Investigation of The Effect of Vacuum Drying Conditions On Graphene Oxide Production**
Sargin F., Ak Azem N. F., Kanbur K., Birlik I., Türk A.
MAS Journal Of Applied Sciences, vol.7, no.1, pp.221-227, 2022 (Peer-Reviewed Journal)
- VII. **Sol-jel Yöntemi ile Hazırlanmış ZnO Nanopartiküllerin Optimizasyonu**
AK AZEM N. F., BİRLİK I.
Deu Mühendislik Fakültesi Fen ve Mühendislik, vol.20, no.58, pp.121-127, 2018 (Peer-Reviewed Journal)
- VIII. **Influence of Bath Composition on the Structure and Properties of Nickel Coatings Produced by Electrodeposition Technique**
BİRLİK I., AK AZEM N. F.
Deu Mühendislik Fakültesi Fen ve Mühendislik, vol.20, no.59, pp.689-697, 2018 (Peer-Reviewed Journal)
- IX. **Gaz Sensörleri İçin Sol-jel Yöntemiyle Cam Altıklar Üzerine Cu:SnO₂ Filmlerin Üretilmesi ve Karakterizasyonu**
Elbeyli S., EROL M., BİRLİK I., EBEOĞLUGİL M. F., Mermer Ö., Taş S., YİĞİT R., TOPARLI M., ÇELİK E.
Aydın Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.14, pp.407-416, 2014 (Peer-Reviewed Journal)
- X. **Preparation and Characterization of TiO₂ Nanofluid by Sol-gel Method for Cutting Tools**
Birlik I., Ak Azem N. F., Yiğit R., Erol M., Yıldırım S., Yurddaşkal M., Sancakoğlu O., Çelik E.
Aydın Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.14, pp.453-460, 2014 (Peer-Reviewed Journal)
- XI. **High Temperature Yb₂O₃-ZrO₂ Insulation Coatings on Ag Tapes for Magnet Technology**
Kaplan M., EBEOĞLUGİL M. F., BİRLİK I., YİĞİT R., ÇELİK E., Avcı E.
Aydın Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.14, pp.117-128, 2014 (Peer-Reviewed Journal)
- XII. **Preparation and Characterization of SiO₂ Nanofluid by Flame Spray System for Machining Process**
Ak Azem N. F., Birlik I., Yiğit R., Erol M., Yıldırım S., Çelik E.
Aydın Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.14, pp.471-478, 2014 (Peer-Reviewed Journal)
- XIII. **Improvement of Flux Pinning Properties of YBCO Superconducting Films with BaMeO₃ (Me:Zr, Mn, Hf and Ir) Perovskite Nanoparticles by TFA-MOD Technique**
ÇELİK E., BİRLİK I., Bektaş M., ÇULHA O., TOPARLI M.
Aydın Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.14, pp.255-260, 2014 (Peer-Reviewed Journal)
- XIV. **Synthesis, Characterization and Optical Properties of ZnO-CuO-Al₂O₃ Semiconducting Films on glass substrates by Sol-Gel Technique**
ÇELİK E., Öztoprak F., EBEOĞLUGİL M. F., BİRLİK I., YİĞİT R., TANOĞLU M., ASLAN M. H.

Usak University Journal of Material Sciences, no.2, pp.9-36, 2012 (Peer-Reviewed Journal)

- XV. **Polianilin ve Polipirol Kaplanan Kumaşların Elektromanyetik Koruyuculuk ve İletkenlik Özellikleri**
AKŞİT A., ONAR N., BİRLİK I., EBEOĞLUGİL M. F., ÇELİK E., ÖZDEMİR İ.
Tekstil Mühendis, vol.14, no.67, pp.1-10, 2007 (Peer-Reviewed Journal)
- XVI. **Polianilin ve Polipirol Kaplanan Kumaşların Elektromanyetik Koruyuculuk ve İletkenlik Özellikleri**
ONAR N., AKŞİT A., BİRLİK I., EBEOĞLUGİL M. F., ÇELİK E., ÖZDEMİR İ.
Tekstil ve Mühendis, vol.14, no.67, pp.9-16, 2007 (Peer-Reviewed Journal)

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Optimization of Oxidation Time During Graphene Oxide Production**
KANBUR K., BİRLİK I., SARGIN F., AK AZEM N. F., TÜRK A.
7th International Students Science Congress, İzmir, Turkey, 12 - 13 May 2023, pp.307-312
- II. **Various Drying Methods for Producing Graphene Oxide Structure**
KANBUR K., BİRLİK I., SARGIN F., AK AZEM N. F., TÜRK A.
Hodja Akhmet Yassawi 6th International Conference on Scientific Research, Lankaran, Azerbaijan, 13 May 2022, pp.387-395
- III. **Production and Characterization of Graphene Oxide by Ultrasound-Assisted Hummers Method**
SARGIN F., AK AZEM N. F., KANBUR K., BİRLİK I., TÜRK A.
Cukurova 8th International Scientific Researches Conference, Adana, Turkey, 15 April 2022, pp.1000-1009
- IV. **Investigation of the Effect of Vacuum Drying Conditions on Graphene Oxide Production**
SARGIN F., AK AZEM N. F., KANBUR K., BİRLİK I., TÜRK A.
16. MAS International European Conference on Mathematics, Engineering, Natural Medical Sciences, Mardin, Turkey, 22 February 2022, pp.485-486
- V. **Investigation the Effect of pH Value in GO Production**
KANBUR K., BİRLİK I., SARGIN F., AK AZEM N. F., TÜRK A.
EUROASIA International Congress on Scientific Researches and Recent Trends-IX, Antalya, Turkey, 18 February 2022, pp.59-61
- VI. **Ni Esaslı Nanokompozit Kaplamaların Puls Elektroçöktürme Yöntemi ile Üretilmesi ve Karakterizasyonu**
AK AZEM N. F., Kahraman C. E., BİRLİK I., Koç Delice T.
4. Çukurova Uluslararası Bilimsel Araştırmalar Kongresi, Adana, Turkey, 21 - 23 February 2020
- VII. **Colorization of 1-D photonic crystals with Rare-earth element doping**
KESKİN Ö. Y., AK AZEM N. F., BİRLİK I., DALMIŞ R.
4th International Symposium on Innovative Approaches in Engineering and Natural Sciences Proceedings, Samsun, Turkey, 22 - 24 November 2019
- VIII. **Structural and electrochemical characterization of HAP coatings electrophoretically deposited on Ti6AL4V alloy substrates**
Tiriç U., BİRLİK I., Koç Delice T., AK AZEM N. F.
HAZARFEN International Science, Mathematics and Engineering Sciences Congress, İzmir, Turkey, 8 - 10 November 2019
- IX. **Electrochemical Biosensor for Detection of Salbutamol Based on CuO Nanoparticle Modified Carbon Paste Electrode**
Delice Koç T., Özdemir K., Azem Ak F., Alpat Ş., Birlik I.
15th Nanoscience and Nanotechnology Conference of Turkey (NANOTR-15), Antalya, Turkey, 3 - 06 November 2019, pp.100
- X. **Effect of nitrogen doping on photocatalytic properties of TiO₂ nanoparticles**
KESKİN Ö. Y., dagdelen d., BİRLİK I., AK AZEM N. F.
14th NANOSCIENCE AND NANOTECHNOLOGY CONFERENCE, İzmir, Turkey, 22 - 25 October 2018
- XI. **Photocatalytic Activity of Cr Doped TiO₂ Nanoparticles**

Koç Delice T., Cengiz S., AK AZEM N. F., BİRLİK I.

14th Nanoscience and Nanotechnology Conference of Turkey, İzmir, Turkey, 22 - 25 October 2018

- XII. **The effect of Mn-N co doping on photocatalytic properties of TiO₂ nanoparticles**
Dağdelen D., BİRLİK I.
14th NANOSCIENCE AND NANOTECHNOLOGY CONFERENCE, Turkey, 22 - 25 September 2018
- XIII. **Development of Ni Based Nanocomposite Coatings with SiO₂ Nanoparticles**
DALMIŞ R., BİRLİK I., AK AZEM N. F., Koç Delice T., ÇELİK E.
13th Nanoscience Nanotechnology Conference, Antalya, Turkey, 22 - 25 October 2017, pp.171
- XIV. **Development of Structural Color Photonic Crystal Instead of Traditional Paints**
DALMIŞ R., AK AZEM N. F., BİRLİK I., ÇELİK E.
The International Porous and Powder Materials Symposium and Exhibition, Aydın, Turkey, 12 - 15 September 2017, pp.46
- XV. **Elektroçöktürme yöntemiyle ZnO seramik nanopartiküllü nikel kaplamaların incelenmesi**
AK AZEM N. F., BİRLİK I., Koç Delice T.
23.Ulusal Elektron Mikroskopi kongresi, Antalya, Turkey, 19 - 21 May 2017
- XVI. **Ni-SiO₂ Nanokompozit Kaplamaların Üretimi ve Karakterizasyonu**
AK AZEM N. F., BİRLİK I., Koç Delice T.
23. Ulusal Elektron Mikroskopi Kongresi, Turkey, 19 - 21 May 2017
- XVII. **Synthesis of Zn-doped TiO₂ Ceramic Nanoparticles by sol-gel technique**
Bardakçioğlu O., YILDIRIM S., Koç Delice T., TOPARLI M., ÇELİK E., BİRLİK I., AK AZEM N. F.
IX. ULUSLARARASI KATILIMLI SERAMİK KONGRESİ, Afyon, Turkey, 26 - 28 November 2015
- XVIII. **Ni-TiO₂ nanokompozit kaplamaların yapısal ve mekanik özellikleri**
Bardakçioğlu O., YILDIRIM S., Koç Delice T., DİKİCİ T., TOPARLI M., ÇELİK E., BİRLİK I., AK AZEM N. F.
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015
- XIX. **Ni-TiO₂ nanokompozit kaplamaların yapısal ve mekanik özellikleri**
Bardakçioğlu O., YILDIRIM S., Koç Delice T., DİKİCİ T., TOPARLI M., ÇELİK E., BİRLİK I., AK AZEM N. F.
27.Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015, pp.618
- XX. **TiO₂-ZnO nanopartikülleri ile elektroçöktürülmüş nikel nanokompozit kaplamaların üretimi ve karakterizasyonu**
YILDIRIM S., Bardakçioğlu O., Koç Delice T., DİKİCİ T., TOPARLI M., ÇELİK E., BİRLİK I., AK AZEM N. F.
27.Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015, pp.729
- XXI. **Corrosion Protection of Ni-TiO₂ Nanocomposite Coatings**
Koç Delice T., YILDIRIM S., Bardakçioğlu O., DİKİCİ T., TOPARLI M., ÇELİK E., BİRLİK I., AK AZEM N. F.
XI. Nanoscience and Nanotechnology Conference (NanoTR-11), Ankara, Turkey, 22 - 25 June 2015
- XXII. **Preparation and Characterization of SiO₂ Nanofluid by Flame Spray System for Machining Process**
Ak Azem N. F., Birlik I., Yiğit R., Erol M., Yıldırım S., Çelik E.
VIII. Uluslararası Katılımlı Seramik Kongresi, Afyonkarahisar, Turkey, 22 - 24 November 2012, vol.14, pp.471-478
- XXIII. **Preparation and characterization of SiO₂ nanofluid by flame spray system for machining process**
AK AZEM N. F., BİRLİK I., YİĞİT R., EROL M., YILDIRIM S., ÇELİK E.
VIII. Uluslararası Katılımlı Seramik Kongresi, Afyon, Turkey, 22 - 24 November 2012, vol.14, pp.471-478
- XXIV. **Effect of Zn Substitution on Bioactivity Properties of Cap Coatings**
Bakın B., TİRİÇ U., Koç Delice T., BİRLİK I., AK AZEM N. F.
15th International Materials Symposium (IMSP'2014), Denizli, Turkey, 15 - 17 October 2014, pp.147
- XXV. **Effect of Zn Substitution to Corrosion Behaviour of CaP Coatings on Ti6Al4V Substrates**
Bakın B., TİRİÇ U., Koç Delice T., BİRLİK I., AK AZEM N. F.
2nd International Surface Treatment Symposium, İstanbul, Turkey, 25 - 27 June 2014, pp.75
- XXVI. **Preparation and Characterization of TiO₂ Nanoparticles by Sol-gel Method for Grinding Fluids**
Bardakçioğlu O., YILDIRIM S., Koç Delice T., YİĞİT R., AK AZEM N. F., BİRLİK I.
10th Nanoscience and Nanotechnology Conference, İstanbul, Turkey, 17 June 2014, pp.431
- XXVII. **Preparation of SiO₂ Nanoparticles and Its Beneficial Role in Grinding**
YILDIRIM S., Bardakçioğlu O., Koç Delice T., YİĞİT R., AK AZEM N. F., BİRLİK I.

- 10th Nanoscience and Nanotechnology Conference, İstanbul, Turkey, 17 June 2014, pp.433
- XXVIII. **Effects of TiO₂-SiO₂ Nanoparticles to Cooling Fluids**
Koç Delice T., Bardakçioğlu O., YILDIRIM S., YİĞİT R., BİRLİK I., AK AZEM N. F.
10th Nanoscience and Nanotechnology Conference, İstanbul, Turkey, 17 June 2014, pp.434
- XXIX. **High Temperature Yb₂O₃-ZrO₂ Insulation Coatings on Ag Tapes for Magnet Technology**
kaplan m., EBEOĞLUGİL M. F., BİRLİK I., YİĞİT R., ÇELİK E., AVCI E.
8. Uluslararası Katılımlı Seramik Kongresi 2012, Afyonkarahisar, Turkey, 22 - 24 November 2012, vol.14, pp.117-128
- XXX. **Production and Characterization of Cu:SnO₂ Films on Glass Substrates by Sol-gel Method for Gas Sensors**
ELBEYLİ S., EROL M., BİRLİK I., EBEOĞLUGİL M. F., MERMER Ö., YİĞİT R., taş s., TOPARLI M., ÇELİK E.
8. Uluslararası Katılımlı Seramik Kongresi 2012, Afyonkarahisar, Turkey, 22 - 24 November 2012, vol.14, pp.407-416
- XXXI. **The effect of Si incorporation on structural and corrosion performance of CaP coatings**
BİRLİK I., AK AZEM N. F., Bakın B., TİRİÇ U., ÇULHA O., TOPARLI M., ÇELİK E.
25th Symposium and Annual Meeting of the International Society for Ceramics in Medicine, Bucharest, Romania, 7 - 10 November 2013, pp.59
- XXXII. **Enhancement of the hydroxyapatite properties by SiC addition**
AK AZEM N. F., BİRLİK I., TOPARLI M., ÇELİK E., Braic M., Vladescu A.
25th Symposium and Annual Meeting of the International Society for Ceramics in Medicine, Bucharest, Romania, 7 - 10 November 2013, pp.109
- XXXIII. **Gaz Sensörleri İçin Sol-jel Yöntemiyle Cam Altlıklar Üzerine Cu:SnO₂ Filmlerin Üretilmesi ve Karakterizasyonu**
elbeyli s., EROL M., BİRLİK I., EBEOĞLUGİL M. F., MERMER Ö., YİĞİT R., taş s., TOPARLI M., ÇELİK E.
8.uluslararası Katılımlı Seramik Kongresi, AFYON, Turkey, 22 - 24 November 2012, vol.14, pp.407-416
- XXXIV. **Preparation and characterization of TiO₂ nanofluid by sol gel method for cutting tools**
Birlik I., Ak Azem N. F., Yiğit R., Erol M., Yıldırım S., Yurddaşkal M., Sancakoğlu O., Çelik E.
VIII. Uluslararası Katılımlı Seramik Kongresi, Afyonkarahisar, Turkey, 22 - 24 November 2012
- XXXV. **Preparation and characterization of TiO₂ nanofluid by sol-gel method for cutting tools**
Birlik I., Ak Azem N. F., Yiğit R., Erol M., Yıldırım S., Yurddaşkal M., Sancakoğlu O., Çelik E.
VIII. CERAMIC CONGRESS WITH INTERNATIONAL PARTICIPATION, Afyonkarahisar, Turkey, 22 - 24 November 2012
- XXXVI. **Indentation modelling of YBCO based thin films**
ÇULHA O., BİRLİK I., Bektaş M., TOPARLI M., ÇELİK E., Güzelaydın A. H.
5th National Superconductivity Symposium, İzmir, Turkey, 3 - 06 July 2011
- XXXVII. **Synthesis and characterization of BZO doped YBCO superconducting films with different type of precursors**
Bektaş M., BİRLİK I., ÇULHA O., TOPARLI M., ÇELİK E.
5th National Superconductivity Symposium, İzmir, Turkey, 3 - 06 July 2011
- XXXVIII. **Nanoparticle doped YBCO films prepared by chemical solution deposition method**
BİRLİK I., Holzapfel B., ÇELİK E.
6th Nanoscience and Nanotechnology Conference, İzmir, Turkey, 15 - 18 June 2010, pp.221
- XXXIX. **The Zr-doped REBCO films grown by TFA-MOD method**
BİRLİK I., ÇELİK E., Erbe M., Holzapfel B.
International Conference on Superconductivity and Magnetism, Antalya, Turkey, 25 - 30 April 2010
- XL. **YBCO superconducting films by TFA-MOD method**
BİRLİK I., ÇULHA O., TOPARLI M., ÇELİK E.
International Conference on Superconductivity and Magnetism, Antalya, Turkey, 25 - 29 August 2008, pp.263
- XLI. **Baryum Ferrit Katkılı Anilin Çözeltisi ile Kaplanan Kumaşların İletkenlik ve Manyetik Özellikleri**
ONAR N., AKŞİT A., EBEOĞLUGİL M. F., BİRLİK I., ÇELİK E., ÖZDEMİR İ.
3.Uluslararası Teknik Tekstiller Kongresi, 15 - 18 December 2007

- XLII. **CONDUCTIVITY AND MAGNETIC PROPERTIES OF COATED FABRICS WITH BARIUM FERRITE DOPED ANILINE SOLUTION**
ONAR N., AKŞİT A., EBEOĞLUGİL M. F., BİRLİK I., ÇELİK E., ÖZDEMİR İ.
III. International Technical Textiles Congress, İstanbul, Turkey, 1 - 02 November 2007, pp.200-208
- XLIII. **Characterization of ZnO-CuO-Al₂O₃ Thin Films by Sol-gel Technique for Gas Sensor**
EBEOĞLUGİL M. F., BİRLİK I., ÇULHA O., ÖZYAĞLI G., ÇELİK E.
10th ECERS International Conference and Exhibition of the European Ceramic Society, Berlin, Germany, 15 - 18 June 2007
- XLIV. **Self-cleaning properties of cotton fabrics coated by Zn doped-TiO₂ thin films**
AKŞİT A., ONAR N., EBEOĞLUGİL M. F., BİRLİK I., ÇELİK E.
AUTEX 2007, Tampere, Finland, 26 - 28 June 2007
- XLV. **Coated fabrics with barium ferrite doped silica sol and aniline solution**
ONAR N., AKŞİT A., EBEOĞLUGİL M. F., BİRLİK I., ÇELİK E., ÖZDEMİR İ.
10th International Conference of the European Ceramic Society, Berlin, Germany, 17 - 21 June 2007, pp.792-797
- XLVI. **Buffer layers on metallic substrates for YBCO coated conductors**
BİRLİK I., ÇELİK E.
10th International Conference of the European Ceramic Society, Berlin, Germany, 17 - 21 June 2007, pp.774-779
- XLVII. **Fosfor katkılı SiO₂ ince filmleri ile kaplanmış kumaşların güç tutuşurluk özelliklerinin geliştirilmesi**
AKŞİT A., ONAR N., EBEOĞLUGİL M. F., BİRLİK I., KUTLU B., ÇELİK E.
13. Uluslararası Metalurji ve Malzeme Kongresi, İstanbul, Turkey, 9 - 12 November 2006, pp.68
- XLVIII. **Demir katkılı TiO₂ ince filmleri ile kaplanmış pamuklu kumaşların UV-koruyucu özelliklerinin geliştirilmesi**
ONAR N., BİRLİK I., AKŞİT A., ÇELİK E.
13. Uluslararası Metalurji ve Malzeme Kongresi, İstanbul, Turkey, 9 - 12 November 2006, pp.87
- XLIX. **Multilayer CeO₂/Gd₂O₃ buffer layers for YBCO coated conductor**
BİRLİK I., AKIN Y., ÇELİK E.
13. Uluslararası Metalurji ve Malzeme Kongresi, İstanbul, Turkey, 9 - 12 November 2006, pp.322-328
- L. **Silisyum katkılı TiO₂ ince filmleri ile kaplanmış pamuklu kumaşların UV-koruyucu özelliklerinin geliştirilmesi**
ONAR N., BİRLİK I., AKŞİT A., ÇELİK E.
Uluslararası Katılımlı Seramik Kongresi, Sakarya, Turkey, 30 October - 01 November 2006, pp.408-412
- LI. **Sol-Gel Coatings of Plasma Modified Polypropylene Fabric for Gas Defence**
AKŞİT A., MUTLU M., KUTLU B., ONAR N., BİRLİK I., ÇELİK E.
3rd European Conference On Protective Clothing (ECPC) and NOKOBETEF 8 Protective Clothing- Towards Balanced Protection, Gdynia, Poland, 10 - 12 May 2006, pp.88

Funded Projects

BİRLİK I., Project Supported by Higher Education Institutions, ELEKTROÇÖKTÜRME TEKNİĞİ İLE ÜRETİLEN Nİ ESASLI NANOKOMPOZİT KAPLAMALARIN YAPISAL VE MEKANİK ÖZELLİKLERİ, 2014 - 2016

Scientific Project Refereeing

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, November 2022
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, November 2022
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, November 2022
Project Supported by Higher Education Institutions, BAP Research Project, August 2022

Metrics

Publication: 93

Citation (WoS): 441

Citation (Scopus): 496

H-Index (WoS): 11

H-Index (Scopus): 12