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Publons / Web Of Science ResearcherID: A-8674-2015

ScopusID: 12767158100

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Education Information

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (Dr), Turkey 2002 - 2008

Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (Yl) (Tezli), Turkey 1998 - 2002

Undergraduate, Dokuz Eylul University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 1993 - 1998

Dissertations

Doctorate, Production of hydroxyapatite coating by sol-gel technique on 316L stainless steel and its corrosion properties, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (Dr), 2008

Postgraduate, Determination and evaluation of S/N curves for TiN and ZrN coated 316 L hip stems, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (Yl) (Tezli), 2002

Research Areas

Engineering and Technology

Academic Titles / Tasks

Research Assistant, Dokuz Eylul University, Mühendislik Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, 1999 - 2011

Academic and Administrative Experience

Dokuz Eylul University, 2017 - 2018

Dokuz Eylul University, 2017 - 2018

University Executive Board Member, Dokuz Eylul University, Mühendislik Fakültesi, 2015 - 2016

Dokuz Eylul University, 2012 - 2015

Courses

TASARIM VE MALZEME SECİMİ, Undergraduate, 2019 - 2020, 2018 - 2019, 2016 - 2017, 2013 - 2014
INTRODUCTION TO MATERIALS ENGINEERING, Undergraduate, 2019 - 2020
MALZEME LABORATUVARI, Undergraduate, 2019 - 2020, 2017 - 2018, 2016 - 2017, 2013 - 2014
BİTİRME PROJESİ HAZIRLIK, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2013 - 2014
CORROSION, Undergraduate, 2019 - 2020
KOROZYON, Undergraduate, 2018 - 2019, 2017 - 2018
MATERIALS SCIENCE, Undergraduate, 2018 - 2019
BİTİRME PROJESİ, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2013 - 2014
NANOTEKNOLOJİYE GİRİŞ, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017
ISIL İŞLEMLER, Undergraduate, 2018 - 2019
MÜHENDİSLİK MALZEMELERİ, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2013 - 2014
TAŞINIM OLAYLARI, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017
MALZEME BİLGİSİ, Undergraduate, 2017 - 2018, 2016 - 2017
MALZEME KARAKTERİZASYONU II, Undergraduate, 2016 - 2017
MALZEME KARAKTERİZASYONU I, Undergraduate, 2016 - 2017
BİYOMALZEMELERDE YÜZEYSEL DEĞİŞİKLİKLER, Postgraduate, 2013 - 2014

Advising Theses

AK AZEM N. F., Ni-seramik nanokompozit kaplamaların darbeli elektroçöktürme tekniği ile üretilmesi ve karakterizasyonu, Postgraduate, C.ERKAL(Student), 2020
AK AZEM N. F., Sol-jel yöntemi ile sentezlenen nanopartiküllerin fotokatalitik özelliklerinin geliştirilmesi, Postgraduate, S.CENGİZ(Student), 2019
AK AZEM N. F., AA2024/Al₂O₃ parçacık takviyeli metal matrisli kompozit köpüklerin üretimi ve özelliklerinin incelenmesi, Postgraduate, Ö.YASİN(Student), 2019
AK AZEM N. F., Elektroçöktürme tekniği ile üretilen Ni matris nanokompozit kaplamaların korozyon özelliklerinin incelenmesi, Postgraduate, T.KOÇ(Student), 2018
AK AZEM N. F., Medikal implantların işlevselleştirilmesi için biyoaktif kaplamalar, Postgraduate, B.BAKIN(Student), 2015
AK AZEM N. F., Effect of aging treatment on mechanical and corrosion properties of Pb alloys, Postgraduate, U.AYBARÇ(Student), 2013

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **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)
- III. **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-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, vol.603, 2020 (SCI-Expanded)
- IV. **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)

- V. **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)
- VI. **Modification of the sedimentation method for PMMA photonic crystal coatings**
DALMIŞ R., BİRLİK I., AK AZEM N. F., Celik E.
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, vol.577, pp.194-201, 2019 (SCI-Expanded)
- VII. **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)
- VIII. **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)
- IX. **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., Booyesen R., Vladescu A.
COATINGS, vol.7, no.11, 2017 (SCI-Expanded)
- X. **Investigation of duty cycle effect on corrosion properties of electrodeposited calcium phosphate coatings**
AK AZEM N. F., Delice T. K., Ungan G., Cakir A.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.68, pp.681-686, 2016 (SCI-Expanded)
- XI. **Mechanical properties and biocompatibility of the sputtered Ti doped hydroxyapatite**
Vladescu A., Padmanabhan S. C., AK AZEM N. F., Braic M., Titorencu I., Birlik I., Morris M. A., Braic V.
JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS, vol.63, pp.314-325, 2016 (SCI-Expanded)
- XII. **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)
- XIII. **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)
- XIV. **Effect of the deposition temperature on corrosion resistance and biocompatibility of the hydroxyapatite coatings**
Vladescu A., Braic M., AK AZEM N. F., Titorencu I., Braic V., Pruna V., Kiss A., Parau A. C., Birlik I.
APPLIED SURFACE SCIENCE, vol.354, pp.373-379, 2015 (SCI-Expanded)
- XV. **Enhancement of the mechanical properties of hydroxyapatite by SiC addition**
Vladescu A., Birlik I., Braic V., Toparli M., Celik E., AK AZEM N. F.
JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS, vol.40, pp.362-368, 2014 (SCI-Expanded)
- XVI. **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)
- XVII. **Synthesis of HAP coating on galvanostatically treated stainless steel substrates by sol-gel method**
AK AZEM N. F., Cakir A.
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.51, no.2, pp.190-197, 2009 (SCI-Expanded)
- XVIII. **Tribological Properties of Electric Arc-Sprayed CuSn Coating for Bearing Elements**

- Toparli M., Celik E., Birlik I., DOKUMACI ALKAN E., AK AZEM N. F.
TRIBOLOGY TRANSACTIONS, vol.52, no.3, pp.389-394, 2009 (SCI-Expanded)
- XIX. **Microstructural, thermal and mechanical properties of HVOF sprayed Ni-Al-based bond coatings on stainless steel substrate**
Culha O., Celik E., AK AZEM N. F., Birlik I., Toparli M., Turk A.
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.204, pp.221-230, 2008 (SCI-Expanded)
- XX. **Wear behaviour of thermal flame sprayed FeCr coatings on plain carbon steel substrate**
UYULGAN B., DOKUMACI ALKAN E., Celik E., Kayatekin I., AK AZEM N. F., Ozdemir I., Toparli M.
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.190, pp.204-210, 2007 (SCI-Expanded)
- XXI. **Al₂O₃-TiO₂ thin films on glass substrate by sol-gel technique**
Celik E., Keskin I., Kayatekin I., AK AZEM N. F., Ozkan E.
MATERIALS CHARACTERIZATION, vol.58, no.4, pp.349-357, 2007 (SCI-Expanded)
- XXII. **Processing, characterization and photocatalytic properties of Cu doped TiO₂ thin films on glass substrate by sol-gel technique**
Celik E., Gokcen Z., AK AZEM N. F., Tanoglu M., Emrullahoglu O. F.
MATERIALS SCIENCE AND ENGINEERING B-SOLID STATE MATERIALS FOR ADVANCED TECHNOLOGY, vol.132, no.3, pp.258-265, 2006 (SCI-Expanded)
- XXIII. **Preparation and characterization of Fe₂O₃-TiO₂ thin films on glass substrate for photocatalytic applications**
Celik E., Yildiz A., AK AZEM N. F., Tanoglu M., Toparli M., Emrullahoglu O., Ozdemir I.
MATERIALS SCIENCE AND ENGINEERING B-SOLID STATE MATERIALS FOR ADVANCED TECHNOLOGY, vol.129, pp.193-199, 2006 (SCI-Expanded)
- XXIV. **Assessment of microstructural and mechanical properties of HVOF sprayed WC-based cermet coatings for a roller cylinder**
Celik E., Culha O., UYULGAN B., AK AZEM N. F., Ozdemir I., Turk A.
SURFACE & COATINGS TECHNOLOGY, vol.200, pp.4320-4328, 2006 (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.
Afyon 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**

Sargın 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. Influence of Bath Composition on the Structure and Properties of Nickel Coatings Produced by Electrodeposition Technique

BİRLİK I., AK AZEM N. F.

Deu Muhendislik Fakultesi Fen ve Muhendislik, vol.20, no.59, pp.689-697, 2018 (Peer-Reviewed Journal)

VIII. Sol-jel Yöntemi ile Hazırlanmış ZnO Nanopartiküllerin Optimizasyonu

AK AZEM N. F., BİRLİK I.

Deu Muhendislik Fakultesi Fen ve Muhendislik, vol.20, no.58, pp.121-127, 2018 (Peer-Reviewed Journal)

IX. 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.

Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.14, pp.453-460, 2014 (Peer-Reviewed Journal)

X. 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.

Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.14, pp.471-478, 2014 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. 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

II. 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

III. 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

IV. 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

V. 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

VI. 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

VII. 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

VIII. 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

- IX. **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
- X. **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
- XI. **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
- XII. **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
- XIII. **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
- XIV. **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
- XV. **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.
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- XVI. **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
- XVII. **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
- XVIII. **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
- XIX. **Preparation and Characterization of SiO₂ Nanofluid by Flame Spray System for Machining Proces**
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
- XX. **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
- XXI. **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
- XXII. **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
- XXIII. **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.
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- XXIV. **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.
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- XXV. **Effects of TiO₂-SiO₂ Nanoparticles to Cooling Fluids**
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- XXVI. **The effect of Si incorporation on structural and corrosion performance of CaP coatings**
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25th Symposium and Annual Meeting of the International Society for Ceramics in Medicine, Bucharest, Romania, 7 - 10 November 2013, pp.59
- XXVII. **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
- XXVIII. **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
- XXIX. **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
- XXX. **Production of HAP Coating on 316L Stainless Steel Substrates by Sol-gel Technique**
AK AZEM N. F., Cakir A.
14th National Biomedical Engineering Meeting, İzmir, Turkey, 20 - 22 May 2009, pp.304-307
- XXXI. **Effect of Temperature on Electrochemically Deposited HAP Films on CoCrMo Substrate**
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