

Prof. HASAN OKUYUCU

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: FQO-3232-2022

Yoksis Researcher ID: 30914

Education

Doctorate, Gazi University, Teknik Eğitim Fakültesi, Metal Eğitimi Bölümü, Turkey 1997 - 2002

Postgraduate, Gazi University, Teknik Eğitim Fakültesi, Metal Eğitimi Bölümü, Turkey 1994 - 1997

Undergraduate, Istanbul Technical University, Sakarya Mühendislik Fakültesi, Metalurji Mühendisliği Pr., Turkey 1986 - 1991

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Yiterbiyum-baryum-bakır oksit süperiletken şeritlerin sol-jel metodu ile üretimi ve karakterizasyonu, Gazi Üniversitesi, Teknik Eğitim Fakültesi, Metal Eğitimi Bölümü, 2002

Postgraduate, Kalay-bizmut sisteminin termodinamiği, Gazi Üniversitesi, Teknik Eğitim Fakültesi, Metal Eğitimi Bölümü, 1997

Research Areas

Engineering and Technology

Academic Positions

Professor, Ankara Yildirim Beyazıt University, Mühendislik ve Doğa Bilimleri Fakültesi, Malzeme Mühendisliği Bölümü, 2015 - Continues

Associate Professor, Yıldırım Beyazıt Üniversitesi, Mühendislik Ve Doğa Bilimleri Fakültesi, Malzeme Mühendisliği Bölümü, 2011 - 2015

Assistant Professor, Gazi University, Teknik Eğitim Fakültesi, Metal Eğitimi Bölümü, 2006 - 2011
Research Assistant, Gazi University, Teknik Eğitim Fakültesi, Metal Eğitimi Bölümü, 2002 - 2006
Research Assistant, Florida State University, National High Magnetic Field Laboratory, Materials Science And Technology, 1999 - 2002
Research Assistant, Gazi University, Teknik Eğitim Fakültesi, Metal Eğitimi Bölümü, 1994 - 1999

Academic and Administrative Experience

Yıldırım Beyazıt Üniversitesi, Mühendislik Ve Doğa Bilimleri Fakültesi, Malzeme Mühendisliği Bölümü, 2015 - Continues
Dean, Ankara Yıldırım Beyazıt University, Mimarlık Fakültesi, 2019 - 2020
Vice Dean, Ankara Yıldırım Beyazıt University, Mühendislik ve Doğa Bilimleri Fakültesi, 2011 - 2018
Yıldırım Beyazıt Üniversitesi, Rektörlük, 2011 - 2014

Courses

Undergraduate

Introduction to Materials Engineering, Undergraduate, 2017 - 2018
MALZEME BİLİMİ I, Undergraduate, 2017 - 2018, 2016 - 2017
Engineering Ethics, Undergraduate, 2017 - 2018

Supervised Theses

OKUYUCU H., Investigation and Characterization of pH Effect on TiO₂ Thin Film Surface, Postgraduate, G.ERTUĞRUL(Student), 2016

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Need of an Inert Atmosphere for High-Energy Ball Milling of Al Alloys**
Özdemir F., Christudasjustus J., Vukkum V. B., Okuyucu H., Gupta R. K.
Journal of Materials Engineering and Performance, vol.32, no.7, pp.3007-3013, 2023 (SCI-Expanded)
- II. **Corrosion behavior of a bulk nanocrystalline Al-Fe alloy**
Ozdemir F., Witharamage C., Christudasjustus J., Darwish A., Okuyucu H., Gupta R.
Corrosion Science, vol.209, 2022 (SCI-Expanded)
- III. **Corrosion behavior of age hardening aluminum alloys produced by high-energy ball milling**
Ozdemir F., Witharamage C. S., Darwish A. A., OKUYUCU H., Gupta R. K.
Journal of Alloys and Compounds, vol.900, 2022 (SCI-Expanded)
- IV. **Charge carrier transport in polycrystalline CH₃NH₃PbI₃ perovskite thin films in a lateral direction characterized by time-of-flight photoconductivity**
Emin S., Pavlica E., Okuyucu H., Valant M., Bratina G.
Materials Chemistry and Physics, vol.220, pp.182-189, 2018 (SCI-Expanded)
- V. **Tungsten carbide electrocatalysts prepared from metallic tungsten nanoparticles for efficient hydrogen evolution**
Emin S., Altinkaya C., Semerci A., Okuyucu H., Yildiz A., Stefanov P.
Applied Catalysis B: Environmental, vol.236, pp.147-153, 2018 (SCI-Expanded)
- VI. **Coating of nano-sized ionically conductive Sr and Ca doped LaMnO₃ films by sol-gel route**
OKUYUCU H., Cinici H., Konak T.
CERAMICS INTERNATIONAL, vol.39, no.2, pp.903-909, 2013 (SCI-Expanded)
- VII. **Optimizations of friction stir welding of aluminum alloy by using genetically optimized neural**

network

Tansel I. N., Demetgul M., Okuyucu H., Yapici A.

International Journal of Advanced Manufacturing Technology, vol.48, pp.95-101, 2010 (SCI-Expanded)

VIII. Coating of LaCoO₃ thin film with sol-gel dip coating method

Okuyucu H., Dahl P. I., Einarsrud M. A.

Journal of Nanoscience and Nanotechnology, vol.8, no.2, pp.685-688, 2008 (SCI-Expanded)

IX. Investigation of effect of the stand-off distance on interface characteristics of explosively welded copper and stainless steel

Durgutlu A., Okuyucu H., Gulenc B.

Materials and Design, vol.29, no.7, pp.1480-1484, 2008 (SCI-Expanded)

X. Artificial neural network application to the friction stir welding of aluminum plates

Okuyucu H., KURT A., Arcaklioglu E.

Materials and Design, vol.28, no.1, pp.78-84, 2007 (SCI-Expanded)

XI. Evaluation of the lattice matching effect on critical current density for surface coated YbBa₂Cu₃O₇

Okuyucu H.

Ceramics International, vol.30, no.8, pp.2143-2146, 2004 (SCI-Expanded)

XII. Growth and characterization of YbBCO films on textured Gd₂O₃ buffer-layered Ni tapes: All sol-gel process

El-Kawni M., Okuyucu H., Aslanoglu Z., Akin Y., Hascicek Y.

Journal of Superconductivity and Novel Magnetism, vol.16, no.3, pp.533-536, 2003 (SCI-Expanded)

XIII. X-ray structure determination of the rare earth oxides (Er_{1-u}Gd_u)₂O₃ applying the rietveld method

Heiba Z., Okuyucu H., Hascicek Y.

Journal of Applied Crystallography, vol.35, no.5, pp.577-580, 2002 (SCI-Expanded)

Articles Published in Other Journals

I. Üniversite Sıralamalarında Metodoloji: Gerçekte Ölçülen Ne?

OKUYUCU H.

Üniversite Araştırmaları Dergisi, vol.2, no.2, pp.108-112, 2019 (Peer-Reviewed Journal)

Papers Presented at Peer-Reviewed Scientific Conferences

I. Investigation of The Influence of Age Hardening on The Corrosion Resistance and Hardness of a Nanocrystalline AA2024 Alloy

Özdemir F., Gupta R. K., Okuyucu H.

21th International Metallurgy and Materials Congress, İstanbul, Turkey, 6 - 08 October 2022, pp.1-2, (Summary Text)

II. Characteristics of Nickel Boron Electrodeposition Coatings prepared by Different Current Type

ÖKTEM M. F., KARSLIOĞLU R., OKUYUCU H., BARUT U.

1 st International Symposium on Light Alloys and Composite Materials (ISLAC'18), 22 - 24 March 2018, (Summary Text)

III. Effect of Different Current Type on Tribological properties of Ni-B-Co/SiC Nano Composite Coatings Produced by Electrodeposition

BARUT U., GÜRCAN E., KARSLIOĞLU R., OKUYUCU H.

2nd International Conference on Tribology - TURKEYTRIB'xx18, 18 - 20 April 2018, (Summary Text)

IV. Effect of Current Type on Tribological Properties of Nickel Boron Coatings Produced by Electrodeposition

BARUT U., GÜRCAN E., KARSLIOĞLU R., OKUYUCU H.

2nd International Conference on Tribology - TURKEYTRIB'xx18, 18 - 20 April 2018, (Summary Text)

- V. **Effect of Nano SiC amounts on Tribological properties of Ni-B-Co Based Nano Composite Coatings Produced by Electrodeposition**
BARUT U., GÜRCAN E., KARSLIOĞLU R., OKUYUCU H.
2nd International Conference on Tribology - TURKEYTRIB'xx18, 18 - 20 April 2018, (Summary Text)
- VI. **Effect of Different Current Type on Tribological Properties of Ni-B-Co/SiC Nano Composite Coatings Produced by Electrodeposition**
Barut U., Gürcan E., Karşlıoğlu R., Okuyucu H.
2nd International Conference on Tribology (TurkeyTrib'18), İstanbul, Turkey, 18 - 20 April 2018, pp.57, (Summary Text)
- VII. **Effect of Nano SiC Amounts on Tribological properties of Ni-B-Co Based Nano Composite Produced by Electrodeposition**
Barut U., Karşlıoğlu R., Okuyucu H.
2nd International Conference on Tribology (TurkeyTrib'18), İstanbul, Turkey, 18 - 20 April 2018, pp.56, (Summary Text)
- VIII. **Effect of Current Type on Tribological Properties of Nickel Boron Coatings Produced by Electrodeposition**
Barut U., Gürcan E., Karşlıoğlu R., Okuyucu H.
2nd International Conference on Tribology (TurkeyTrib'18), İstanbul, Turkey, 18 - 20 April 2018, pp.55, (Summary Text)
- IX. **Characteristics of Nickel Boron Electrodeposition Coatings prepared by Different Current Type**
BARUT U., KARSLIOĞLU R., ÖKTEM M. F., OKUYUCU H.
1st International Symposium on Light Alloys and Composite Materials (ISLAC 'xx18), Karabük, Turkey, 22 - 24 March 2018, pp.192, (Summary Text)
- X. **Graphene Reinforcement Silver Nano Composite by Electroless Deposition**
BARUT U., KARSLIOĞLU R., ÖKTEM M. F., OKUYUCU H.
1st International Symposium on Light Alloys and Composite Materials (ISLAC 'xx18), Karabük, Turkey, 22 - 24 March 2018, pp.213, (Summary Text)
- XI. **MWCNT REINFORCEMENT SILVER BASED NANOCOMPOSITE BY ELECTRODEPOSITION**
BARUT U., KARSLIOĞLU R., ÖKTEM M. F., OKUYUCU H.
1st International Symposium on Light Alloys and Composite Materials (ISLAC 'xx18), Karabük, Turkey, 22 - 24 March 2018, pp.356, (Summary Text)
- XII. **Synthesis of Nano Al₂O₃ Reinforcement Ni-Based Nanocomposite Coating by Electroless Deposition Technique**
BARUT U., KARSLIOĞLU R., ÖKTEM M. F., OKUYUCU H.
1st International Symposium on Light Alloys and Composite Materials (ISLAC 'xx18), Karabük, Turkey, 22 - 24 March 2018, pp.398, (Summary Text)
- XIII. **Graphene Reinforcement Silver Nanocomposite Electrodeposition for Electrical Contact Materials**
BARUT U., KARSLIOĞLU R., ÖKTEM M. F., OKUYUCU H.
1st International Symposium on Light Alloys and Composite Materials (ISLAC 'xx18), Karabük, Turkey, 22 - 24 March 2018, pp.146, (Summary Text)
- XIV. **Synthesis of Nano Al₂O₃ Reinforcement Ni-Based Nanocomposite Coating by Electroless Deposition Technique**
Barut U., Karşlıoğlu R., Öktem M. F., Okuyucu H.
1st International Symposium on Light Alloys and Composite Materials (ISLAC '18), Karabük, Turkey, 22 - 24 March 2018, pp.398, (Summary Text)
- XV. **Characteristics of Nickel Boron Electrodeposition Coatings prepared by Different Current Type**
Barut U., Karşlıoğlu R., Okuyucu H., Öktem M. F.
1st International Symposium on Light Alloys and Composite Materials (ISLAC18), Karabük, Turkey, 22 - 24 March 2018, pp.192, (Summary Text)
- XVI. **Investigation of Sollution Ph Effect on Surface Modification of TiO₂ Thin Films**
Emin S. M., Ertuğrul G., Valant M., OKUYUCU H.

METAL 2017, Brno, Czech Republic, 24 - 26 May 2017, (Full Text)

- XVII. Tungsten carbide thin films for electrochemical water splitting studies**
Emin S., Altinkaya C., SEMERÇİ A., Valant M., OKUYUCU H., YILDIZ A.
International conference on functional nanomaterials and nanodevices, 24 - 27 October 2017, (Summary Text)
- XVIII. Graphene Reinforcement of Copper Metal Matrix Nanocomposite Coatings on Low Carbon Steel by Different Electrodeposition Methods**
GÜRCAN E., KARSLIOĞLU R., OKUYUCU H., İNAN A., YÜCE H. H., TAŞTEKİN F.
International Materials Technologies And Metallurgy Conference 2017, 26 - 27 October 2017, (Full Text)
- XIX. Copper-Graphene Composite Coating with Different Amount of Graphene on Low Carbon Steel by Electrodeposition**
TAŞTEKİN F., KARSLIOĞLU R., OKUYUCU H., İNAN A., YÜCE H. H., GÜRCAN E.
International Materials Technologies And Metallurgy Conference 2017, 26 September - 27 October 2017, (Full Text)
- XX. Nano Size AL₂O₃ Reinforcement Ni-Co Nanocomposite By Electrodeposition**
KARSLIOĞLU R., OKUYUCU H.
International Materials Technologies And Metallurgy Conference 2017, 26 - 27 September 2017, (Full Text)
- XXI. INVESTIGATION OF SOLUTION PH EFFECT ON SURFACE MODIFICATION OF TiO₂ THIN FILMS**
ATEŞOĞLU G., OKUYUCU H.
METAL 2017: 26TH INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS, Brno, Czech Republic, 24 - 26 May 2017, pp.1098-1103
- XXII. Investigation of solution pH effect on surface modification of TiO₂ thin films**
Ertuğrul G., Emin S. M., Valant M., OKUYUCU H.
26th International Conference on Metallurgy and Materials, METAL 2017, Brno, Czech Republic, 24 - 26 May 2017, pp.1098-1103, (Full Text)
- XXIII. Mühendislikte Evrensellik ve Yerellik**
OKUYUCU H.
Felsefe Şurası, Ankara, Turkey, 17 - 19 May 2016, (Full Text)
- XXIV. Investigation of Photocatalytic Properties of TiO₂ Thin Film Coated on Plexy Glass**
OKUYUCU H., ÇELEBİ N., Tarık B.
24th International Conference on Metallurgy and Materials, 3 - 05 June 2015, (Full Text)
- XXV. Alüminyum Cürufundan Alüminyum Metali ve Flaks Eldesi**
Sözbir N., Akçıl M., Okuyucu H.
ISEM, Adıyaman, Turkey, 24 - 26 October 2014, vol.1, pp.1108-1113, (Full Text)
- XXVI. INVESTIGATION OF PHOTOCATALYTIC PROPERTIES OF TiO₂ THIN FILM COATED ON PLEXY GLASS**
OKUYUCU H., ÇELEBİ N., Bazu T.
24th International Conference on Metallurgy and Materials, Brno, Czech Republic, 3 - 05 June 2015, pp.996-1004, (Full Text)
- XXVII. Coating of nano sized ionically conductive films by sol-gel route**
Okuyucu H., Konak T., Çinici H.
17th International Metallurgical and Materials Conference, METAL 2008, Hradec nad Moravici, Czech Republic, 13 - 15 May 2008, (Full Text)
- XXVIII. Yb-123 superconducting film coating on Gd₂O₃ buffered nickel substrate by sol-gel method**
Okuyucu H., Haşçıek Y., KARAKAYA İ.
Proceedings of the 8th Conference and Exhibition of the European Ceramic Society, İstanbul, Turkey, 29 June - 03 July 2003, pp.1209-1212, (Full Text)
- XXIX. Y-and Yb-123 coated conductor development by PLD and sol-gel on (Gd_{1-x}Er_x)₂O₃ buffered Ni tapes**
Okuyucu H., Arda L., Heiba Z. K., El-Kawni M. I., Tolliver J. C., Barnes P. N., Aslanoglu Z., Akin Y., Hascicek Y. S.
2002 Applied Superconductivity Conference, Houston, TX, United States Of America, 4 - 09 August 2002, vol.13, pp.2677-2679, (Full Text)
- XXX. Development of 100% lattice match buffer layers on RABiTS Ni tapes by sol-gel**

Okuyucu H., Arda L., Akin Y., Heiba Z. K., Aslanoglu Z., Hascicek Y. S.

2002 Applied Superconductivity Conference, Houston, TX, United States Of America, 4 - 09 August 2002, vol.13, pp.2680-2683, (Full Text)

XXXI. Electrical characterization of ceramic insulation coatings for magnet technology

Celik E., Mutlu I., Okuyucu H., Hascicek Y.

2000 Applied Superconductivity Conference, Virginia Beach, VA, United States Of America, 17 - 22 September 2000, vol.11, pp.2881-2884, (Full Text)

XXXII. Textured La₂Zr₂O₇, Gd₂O₃, and Er₂O₃ buffer layers for a long-length YBCO coated conductors by non-vacuum process

Celik E., Okuyucu H., Mutlu I., Tomsic M., Schwartz J., Hascicek Y.

2000 Applied Superconductivity Conference, Virginia Beach, VA, United States Of America, 17 - 22 September 2000, vol.11, pp.3162-3165, (Full Text)

XXXIII. Textured buffer layers for YBCO coated conductors by continuous sol-gel processing

Okuyucu H., Celik E., Ramazanoglu M., Akin Y., Mutlu I., Sigmund W., Crow J., Hascicek Y.

2000 Applied Superconductivity Conference, Virginia Beach, VA, United States Of America, 17 - 22 September 2000, vol.11, pp.2889-2892, (Full Text)

Funded Projects

Öktem M. F., Okuyucu H., TUBITAK Project, Süt Üretiminde Mastitis Erken Uyarı Cihazı, 2018 - 2020

Karşlıoğlu R., Okuyucu H., Öktem M. F., TUBITAK Project, Nano Kompozit Elektrik Kontak Malzemelerinin Doğru, Pulse ve Pulse Reverse Elektrodpozisyon Yöntemi İle Üretilmesi, 2017 - 2019

OKUYUCU H., Project Supported by Higher Education Institutions, Merkezi Lab. Alryapı, 2017 - 2018

OKUYUCU H., Project Supported by Higher Education Institutions, 26th INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS, 2017 - 2017

Karşlıoğlu R., Öktem M. F., Okuyucu H., Project Supported by Higher Education Institutions, Grafen Takviyeli Bakır Matriksli Nano Kompozitlerin Pulse Reverse Elektrodpozisyon Yöntemi ile Üretilmesi, 2016 - 2017

OKUYUCU H., Project Supported by Higher Education Institutions, Sol-Gel processing and characterization of solid rocket propellant, 2016 - 2017

OKUYUCU H., Project Supported by Higher Education Institutions, Malzemelerin Yapısal Karakterizasyonu, 2016 - 2016

OKUYUCU H., Project Supported by Higher Education Institutions, Malzeme Seçiminde Bilgisayar Uygulamaları, 2015 - 2016

OKUYUCU H., Project Supported by Higher Education Institutions, 2ND INTERNATIONAL SYMPOSIUM ON INNOVATIVE TECHNOLOGIES IN ENGINEERING AND SCIENCE, 2014 - 2016

OKUYUCU H., Project Supported by Higher Education Institutions, 24th International Conference on Metallurgy and Materials, 2015 - 2015

OKUYUCU H., TUBITAK Project, TM yöntemiyle Al esaslıbor karbür ve seramik parçacık takviyeli metalik köpük üretimi ve integral zırh malzemesi olarak performansının değerlendirilmesi, 2007 - 2009

Metrics

Publication: 47

Citation (WoS): 140

Citation (Scopus): 666

H-Index (WoS): 3

H-Index (Scopus): 12

Non Academic Experience

TÜRK STANDARDLARI ENSTİTÜSÜ, YÖNETİM KURULU ÜYESİ

TÜBİTAK, POPÜLER KİTAPLAR YAYIN KURULU

TÜRK PATENT ENSTİTÜSÜ, DANIŞMA KURULU ÜYESİ

Other Public Institution, Diğer (Kurumlar,hastaneler Vb.), Board Member

Türk Standardları Enstitüsü, Hazırlık Grubu Başkanı

Norveç Bilim ve Sanayi Üniversitesi, Postdoc

Florida State Üniversitesi, Araştırma Görevlisi