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Kişisel Bilgiler

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Eğitim Bilgileri

Lisans, Eskişehir Osmangazi Üniversitesi, Mühendislik-Mimarlık Fakültesi, Mimarlık Bölümü, Türkiye 2011 - 2017

Doktora, Polytechnic University, Brooklyn Campus, Fizik, Amerika Birleşik Devletleri 1988 - 1993

Yüksek Lisans, Anadolu Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Türkiye 1984 - 1987

Lisans, Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Türkiye 1978 - 1983

Yaptığı Tezler

Yüksek Lisans, Güneş enerjisinin depolanması, Anadolu Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 1987

Araştırma Alanları

Malzeme Bilimi ve Mühendisliği, Disiplinlerarası Fizik ve İlgili Bilim ve Teknoloji Alanları, Yoğun Madde 1:Yapısal, Mekanik ve Termal Özellikler , Yoğun Madde 2:Elektronik Yapı, Elektrik, Manyetik ve Optik Özellikler

Akademik Unvanlar / Görevler

Prof. Dr., Eskişehir Osmangazi Üniversitesi, Mühendislik-Mimarlık Fakültesi, Metalurji ve Malzeme Müh.Böl., 2018 - Devam Ediyor

Prof. Dr., Eskişehir Osmangazi Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2010 - 2018

Doç. Dr., Eskişehir Osmangazi Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2005 - 2010

Yrd. Doç. Dr., Eskişehir Osmangazi Üniversitesi, Fen Fakültesi, Fizik Bölümü, 1994 - 2004

Araştırma Görevlisi, Eskişehir Osmangazi Üniversitesi, Fen Fakültesi, Fizik Bölümü, 1984 - 1994

Araştırma Görevlisi, Polytechnic University, Brooklyn Campus, Science, Physics, 1988 - 1993

Araştırma Görevlisi, Anadolu Üniversitesi, Fen Fakültesi, Fizik Bölümü, 1985 - 1988

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. **Coating effects of a strain sensor on durability and sensitivity using the fiber loop ringdown spectroscopy technique**

KAYA B. M., ESENTÜRK O., AŞICI C., Sarac U., DINDİŞ G., BAYKUL M. C.
PHYSICA SCRIPTA, cilt.99, sa.5, 2024 (SCI-Expanded)

II. **Improvement of some physical and magnetic properties of nanocrystalline Fe₁₅-Ni₈₅/ITO thin films by galvanostatic pretreatment process**

Saraç U., Baykul M. C., Dındış G., Trong D. N., Kaya B. M., Lan D. P., Long V. C., Tâlu S.

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- III. **Electrolyte pH dependence of composition, roughness parameters, particle diameter and magnetic features of nanostructured Fe-Co-Ni/ITO deposits prepared by electrochemical deposition method**
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- IV. **Tuning structural properties, morphology and magnetic characteristics of nanostructured Ni-Co-Fe/ITO ternary alloys by galvanostatic pretreatment process**
SARAÇ U., Dung Nguyen Trong D. N. T., BAYKUL M. C., Van Cao Long V. C. L., Talu S.
MICROSCOPY RESEARCH AND TECHNIQUE, cilt.85, sa.12, ss.3945-3954, 2022 (SCI-Expanded)
- V. **Electrochemical Deposition of Fe–Co–Ni Samples with Different Co Contents and Characterization of Their Microstructural and Magnetic Properties**
Long V. C., Saraç U., BAYKUL M. C., Trong L. D., Tălu Ş., Trong D. N.
Coatings, cilt.12, sa.3, 2022 (SCI-Expanded)
- VI. **The influence of seed layer electroplating time on structural properties, optical energy bandgap, diameter, growth orientation and surface roughness of ZnO nanorods**
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Journal of Materials Science: Materials in Electronics, cilt.32, ss.26578-26587, 2021 (SCI-Expanded)
- VII. **Studying structural, magnetic and morphological features of electrochemically fabricated thin films of Co–Ni–Fe with different Fe compositions**
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- VIII. **The effect of boric acid content on the properties of electrochemically prepared Ni-Fe/ITO thin films**
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DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES, sa.3, ss.1137-1145, 2021 (SCI-Expanded)
- IX. **THE EFFECT OF SOLUTION TEMPERATURE ON CHEMICALLY MANUFACTURED CdS SAMPLES**
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- X. **Controlling the surface morphologies, structural and magnetic properties of electrochemically fabricated Ni-Co thin film samples via seed layer deposition**
Denizli C., SARAÇ U., BAYKUL M. C.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.31, sa.5, ss.4279-4286, 2020 (SCI-Expanded)
- XI. **Bath temperature-dependent structural properties, coercive force, surface morphology and surface texture of electrochemically grown nanostructured Ni-Co/ITO thin films**
SARAÇ U., KAYA M., BAYKUL M. C.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, cilt.126, sa.3, 2020 (SCI-Expanded)
- XII. **A Comparative Study on Microstructures, Magnetic Features and Morphologies of Ternary Fe-Co-Ni Alloy Thin Films Electrochemically Fabricated at Different Deposition Potentials**
SARAÇ U., KAYA M., BAYKUL M. C.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.32, sa.4, ss.917-923, 2019 (SCI-Expanded)
- XIII. **Economic analysis of flat-plate solar collectors (FPSCs): A solution to the unemployment problem in the city of Eskisehir**
ACAROĞLU H., BAYKUL M. C.
RENEWABLE & SUSTAINABLE ENERGY REVIEWS, cilt.64, ss.607-617, 2016 (SCI-Expanded)
- XIV. **Differences Observed in the Phase Structure, Grain Size-Shape, and Coercivity Field of Electrochemically Deposited Ni-Co Thin Films with Different Co Contents**
SARAÇ U., BAYKUL M. C., Uguz Y.
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- XV. **The Influence of Applied Current Density on Microstructural, Magnetic, and Morphological Properties of Electrodeposited Nanocrystalline Ni-Co Thin Films**
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- XVI. **Preparation and Characterization of Activated Carbon from Chestnut Shell and its Adsorption**

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SEPARATION SCIENCE AND TECHNOLOGY, cilt.49, sa.17, ss.2711-2720, 2014 (SCI-Expanded)

- XVII. **THE EFFECTS OF SELENIUM ON LYCOPERSICON ESCULENTUM MILL. SEEDLINGS**
ÇOLAK G., BAYKUL M. C., Gurler R., ÇATAK E., CANER N.
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- XVIII. **Microstructural and morphological characterizations of nanocrystalline Ni-Cu-Fe thin films electrodeposited from electrolytes with different Fe ion concentrations**
SARAÇ U., BAYKUL M. C.
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- XIX. **INVESTIGATION OF THE EFFECTS OF ALUMINUM STRESS ON SOME MACRO AND MICRO-NUTRIENT CONTENTS OF THE SEEDLINGS OF LYCOPERSICON ESCULENTUM MILL. BY USING SCANNING ELECTRON MICROSCOPE**
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- XX. **Evolution of surface roughness parameters and microstructure in two-phase nanocrystalline Co-Cu films electrodeposited onto ITO coated glass substrates at different deposition potentials**
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JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.25, sa.1, ss.39-45, 2014 (SCI-Expanded)
- XXI. **Some physical effects of reaction rate on PbS thin films obtained by chemical bath deposition**
ALTIOKKA B., BAYKUL M. C., ALTIOKKA M. R.
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- XXII. **Characterization of nanocrystalline Ni-Cu thin films electrodeposited onto ITO coated glass substrates: effect of pretreatment current density**
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- XXIII. **Effect of Deposition Time on Properties of Ni-Cu Alloy Films Electrodeposited on ITO Coated Glass Substrates**
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- XXIV. **Morphological and microstructural properties of two-phase Ni-Cu films electrodeposited at different electrolyte temperatures**
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- XXV. **Properties of electrodeposited Fe-Cu films grown on ITO coated glass substrates at different electrolyte temperatures**
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- XXVI. **Comparison of Microstructural and Morphological Properties of Electrodeposited Fe-Cu Thin Films with Low and High Fe:Cu Ratio**
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ADVANCES IN MATERIALS SCIENCE AND ENGINEERING, cilt.2013, 2013 (SCI-Expanded)
- XXVII. **Surface Morphology, Structural and Magnetic Properties of Electrodeposited NiFeCu/Cu Films**
BAYKUL M. C., Sarac U., ALPER M.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, cilt.25, sa.8, ss.2585-2589, 2012 (SCI-Expanded)
- XXVIII. **Deposition potential dependence of composition, microstructure, and surface morphology of electrodeposited Ni-Cu alloy films**
SARAÇ U., ÖKSÜZOĞLU R. M., BAYKUL M. C.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.23, sa.12, ss.2110-2116, 2012 (SCI-Expanded)
- XXIX. **Effect of Applied Current Density on Morphological and Structural Properties of Electrodeposited Fe-Cu Films**
SARAÇ U., BAYKUL M. C.

- JOURNAL OF MATERIALS SCIENCE & TECHNOLOGY, cilt.28, sa.11, ss.1004-1009, 2012 (SCI-Expanded)
- XXX. **Contribution of electrolyte pH and deposition potentials to the magnetic anisotropy of electrodeposited nickel films**
KÖÇKAR H., ALPER M., KARAAĞAÇ Ö., NAKİBOĞLU N., BAYKUL M. C.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, cilt.322, ss.1088-1091, 2010 (SCI-Expanded)
- XXXI. **Band alignment of Cd(1-x)ZnxS produced by spray pyrolysis method**
BAYKUL M. C., Orhan N.
THIN SOLID FILMS, cilt.518, sa.8, ss.1925-1928, 2010 (SCI-Expanded)
- XXXII. **Comparison of Ni-Cu alloy films electrodeposited at low and high pH levels**
Alper M., KÖÇKAR H., Safak M., BAYKUL M. C.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.453, ss.15-19, 2008 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **An investigation of structural properties and surface morphologies of electrochemically fabricated nanocrystalline Ni-Co-Cu/ITO deposits with different compositions**
SARAÇ U., BAYKUL M. C.
TURKISH JOURNAL OF PHYSICS, cilt.43, sa.4, ss.372-382, 2019 (ESCI)
- II. **The influence of deposit composition controlled by changing the relative Fe ion concentration on properties of electroplated nanocrystalline Co-Fe-Cu ternary thin films**
SARAÇ U., KAYA M., BAYKUL M. C.
TURKISH JOURNAL OF PHYSICS, cilt.42, sa.2, ss.136-145, 2018 (ESCI)
- III. **G-7 Ülkelerinde Rüzgâr Enerjisi ve Ekonomik Büyüme Arasındaki İlişkinin Panel Eşbütünlüşme Yaklaşımı ile Analizi**
Atay G., ACAROĞLU H., BAYKUL M. C.
Anadolu Üniversitesi Sosyal Bilimler Dergisi, ss.15-29, 2017 (Hakemli Dergi)
- IV. **Synthesis of Ni-Fe thin films by electrochemical deposition technique and characterization of their microstructures and surface morphologies**
SARAÇ U., KAYA M., BAYKUL M. C.
TURKISH JOURNAL OF PHYSICS, cilt.41, sa.6, ss.536-544, 2017 (ESCI)
- V. **Disadvantages of Imperfect Competition in Solar Energy Collector Markets and Policy Recommendations**
ACAROĞLU H., BAYKUL M. C.
Research in World Economy, cilt.7, sa.1, ss.45-51, 2016 (Hakemli Dergi)
- VI. **Lycopersicon Esculentum Mill. Fidiciklerine Selenyum Etkilerinin Analitik ve Mikro Analitik Yöntemler ile İncelenmesi**
Çolak G., Baykul M. C., Caner N., Gürler R., Çatak E., Tokur S.
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- VII. **Lycopersicon esculentum Mill Fidiciklerine Farklı Konsantrasyonlarda Uygulanan Alüminyum Etkilerinin LV SEM ile İncelenmesi**
ÇOLAK G., BAYKUL M. C., GÜRLER R., ÇATAK E., CANER N., TOKUR S.
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, cilt.8, sa.1, ss.1-22, 2003 (Hakemli Dergi)
- VIII. **Lycopersicon esculentum Mill. Fidiciklerine Farklı Konsantrasyonlarda Uygulanan Alüminyum Etkilerinin LV SEM ile İncelenmesi**
ÇOLAK G., BAYKUL M. C., GÜRLER R., CANER N., TOKUR S., ÇATAK E.
Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, cilt.8, sa.1, ss.1-22, 2003 (Hakemli Dergi)
- IX. **Lycopersicon esculentum Mill Fidiciklerinin Bazı Makro ve Mikro Besin Elementleri Alım Düzeylerine Alüminyum Etkisinin Analitik ve Mikro Analitik Yöntemler ile İncelenmesi**
ÇOLAK G., BAYKUL M. C., GÜRLER R., CANER N., TOKUR S., ÇATAK E.
Balıkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, cilt.4, sa.1, ss.4-26, 2002 (Hakemli Dergi)

Kitap & Kitap Bölümleri

- I. **Physics I Experiments Laboratory Book for Engineering Students**
Alğın E., Peker D., İşsever U. G., Kılıç G., Aşıcı C., Baykul M. C., Çetin A., Çetinkaya Çolak S., Eroğlu S., İlik E., et al.
Eskişehir Osmangazi Üniversitesi, Eskişehir, 2019
- II. **Physics I Experiments Laboratory Book for Engineering Students**
ALĞIN E., PEKER D., İŞSEVER U. G., KILIÇ G., AŞICI C., BAYKUL M. C., ÇETİN A., ÇETİNKAYA ÇOLAK S., EROĞLU S., İLİK E., et al.
Eskişehir Osmangazi Üniversitesi, Eskişehir, 2018
- III. **Physics I Experiments Laboratory Book For Engineering Students**
ALĞIN E., PEKER D., İŞSEVER U. G., KILIÇ G., AŞICI C., BAYKUL M. C., ÇETİN A., ÇETİNKAYA ÇOLAK S., EROĞLU S., İLİK E., et al.
Eskişehir Osmangazi Üniversitesi Yayınları no:290, Eskişehir, 2017
- IV. **PHYSICS I II LAB MANUAL For Scientists and Engineers**
BAYKUL M. C., ALĞIN E., EROĞLU S., AŞICI C.
Eskişehir Osmangazi Üniversitesi Yayınları, Eskişehir, 2009

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **An Economic Inquiry about Flat-Plate Solar Collectors (FPSCs) for Eskisehir, Turkey**
BAYKUL M. C., ACAROĞLU H.
International Congress on Social Sciences (FSECON), 14 - 15 Eylül 2018
- II. **A Comparative Global Overview for Flat-plate Solar Collectors (FPSCs) in G-7 G-20 Countries**
ACAROĞLU H., BAYKUL M. C.
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- III. **Determination of the Most Convenient Angle of Incline for a Solar Collector in Eskisehir**
BAYKUL M. C., Şadanoğlu İ.
Ist International Energy Environment Summit-Dubai, Dubai, Birleşik Arap Emirlikleri, 18 - 20 Mart 2017
- IV. **A Comparative Global Overview for Solar Photovoltaic (PV) Systems: Recent Market and Policy Trends in G-7 G-20 Countries**
BAYKUL M. C., ACAROĞLU H.
International Energy Environment Summit, Dubai, Birleşik Arap Emirlikleri, 18 - 20 Mart 2017
- V. **A Comparative Panel Data Analysis on the Relationship between Solar Energy and Economic Growth in G-7 G-20 Countries**
ACAROĞLU H., BAYKUL M. C.
International Energy Environment Summit, Dubai, Birleşik Arap Emirlikleri, 18 - 20 Mart 2017
- VI. **Fabrication and characterization of Au Zno ITO Au heterojunctions**
KAYA M., EFEOĞLU H., Orhan N., SARAÇ U., BAYKUL M. C.
International Semiconductor Device Research Symposium 2016, 7 - 09 Aralık 2016
- VII. **Fabrication and characterization of Au CdS Au contacts**
BAYKUL M. C., KAYA M., EFEOĞLU H., Orhan N., SARAÇ U.
International semiconductor device research semposium 2016, Maryland, Amerika Birleşik Devletleri, 7 - 09 Aralık 2016
- VIII. **The Analysis of the Relationship between Wind Energy and Economic Growth in G7 G20 Countries with Panel Cointegration Approach**
ATAY G., ACAROĞLU H., BAYKUL M. C.
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- IX. **THE ANALYSIS OF THE RELATIONSHIP BETWEEN WIND ENERGY AND ECONOMIC GROWTH IN G20 COUNTRIES WITH PANEL COINTEGRATION APPROACH**
Atay G., ACAROĞLU H., BAYKUL M. C.
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- X. **Effect of Cu content on surface roughness grain size magnetic and microstructural properties of electrodeposited nanocrystalline Ni Co Cu ternary thin films**
SARAÇ U., KAYA M., BAYKUL M. C.
12th International Nanoscience and Nanotechnology Conference, 3 - 05 Haziran 2016
- XI. **Effect of Cu content on surface rougness grain size magnetic and microstructural properties of electrodeposited nanocrystalline Ni Co Cu ternary thin films**
SARAÇ U., KAYA M., BAYKUL M. C.
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- XII. **Differences observed in the surface morphology and microstructure of Ni-Fe-Cu ternary thin films electrochemically deposited low and high applied current densities**
SARAÇ U., KAYA M., BAYKUL M. C.
International Conference on Quantum Science and Applications, 25 - 27 Mayıs 2016
- XIII. **The role of Cu content on the morphological magnetic and microstructural properties of nanocrystalline Ni Co Cu ternary thin films grown by electrodeposition**
SARAÇ U., KAYA M., BAYKUL M. C.
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- XIV. **Investigation of properties of electrochemically deposited nanocrystalline Co Fe Cu ternary thin films with different compositions**
SARAÇ U., KAYA M., BAYKUL M. C.
5th INTERNATIONAL CONFERENCE ON SUPERCONDUCTIVITY AND MAGNETISM, 24 - 30 Nisan 2016
- XV. **Investigation of properties of electrochemically deposited nanocrystalline C0 Fe Cu ternary thin films with different compositions**
SARAÇ U., KAYA M., BAYKUL M. C.
5 th ICSM 2016, 24 - 30 Nisan 2016
- XVI. **1G7ÜlkelerindeRüzgarEnerjiTüketimiileEkonomikBüyümeArasındakilişkininModellenmesiveDeğerlendirilmesi**
ATAY G., BAYKUL M. C., ACAROĞLU H.
IV. Anadolu International Conference in Economics, 10 - 12 Haziran 2015
- XVII. **G7 Ülkelerinde Rüzgar Enerji Tüketimi ile Ekonomik Büyüme Arasındaki İlişkinin Modellenmesi ve Değerlendirilmesi**
Atay G., BAYKUL M. C., ACAROĞLU H.
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- XVIII. **Study of layered ZnO thin films produced by electrochemicaldeposition technique**
BAYKUL M. C., KAYA M., NİLGÜN O.
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- XIX. **The Disadvantages of Imperfect Competition in the Solar Energy Collector Markets and Policy Recommendations**
ACAROĞLU H., BAYKUL M. C.
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- XX. **Comparison of Surface Morphologies And Optical Properties of Cds Thin Films Fabricated by Chemical Bath Deposition And Spray Pyrolysis Techniques**
KAYA M., BAYKUL M. C., ALTIOKKA B.
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- XXI. **Structural and optical properties of CdS nanocrystals grown in water-soluble diblock copolymer**
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- XXII. **The Effects of 900 MHz Electromagnetic waves in an Electroconvulsive Seizure Model in Mice**
ERDİNÇ O. O., BAYKUL M. C., ÖZKAN S., ÖZDEMİR A. Ö., SIRMAGÜL B., BAL C.
5th European Congress on Epileptology, Madrid, İspanya, 6 - 10 Ekim 2002, cilt43, ss.81
- XXIII. **Çok Kanallı Termal Mikroskop İle Sepiolitin Isıl İletkenlik Katsayısının ve Bakır-Sepiolit Yüzeyinin Termal Görüntüsü**
BAYKUL M. C., IŞIK İ., SAĞDIÇ F., AKAN T.

VIII. Ulusal Kil Sempozyumu, Kütahya, Türkiye, 24 - 27 Eylül 1999, ss.187-193

XXIV. **Malzeme Analiz Tekniklerinden Elektron Mikroskopları ve Çok Kanallı Termal Mikroskop**
AKAN T., BAYKUL M. C.

I. Kızılırmak Fen Bilimleri Sempozyumu, Kırıkkale, Türkiye, 14 - 16 Mayıs 1997, ss.451-459

Desteklenen Projeler

BAYKUL M. C., Yükseköğretim Kurumları Destekli Proje, Kimyasal Banyoda Biriktirme Yöntemiyle Argon-İyon Lazer Kaynağı, 2015 - 2021

BAYKUL M. C., Yükseköğretim Kurumları Destekli Proje, n-CdS / p-ZnO: (Na, K, N ve Sb) Katkılı Katmanlı Güneş Pilleri, 2018 - 2020

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Metrikler

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H-İndeks (Scopus): 9

Akademi Dışı Deneyim

ESKİŞEHİR OSMANGAZİ ÜNİVERSİTESİ

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