

## Prof. Dr. MEVLANA CELALETTİN BAYKUL

### Kişisel Bilgiler

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Yoksis Araştırmacı ID: 4982

### Eğitim Bilgileri

Lisans, Eskişehir Osmangazi Üniversitesi, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, MİMARLIK 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, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, METALURJİ VE MALZEME MÜHENDİSLİĞİ BÖLÜMÜ, 2018 - Devam Ediyor

Prof. Dr., Eskişehir Osmangazi Üniversitesi, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ, 2010 - 2018

Doç. Dr., Eskişehir Osmangazi Üniversitesi, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ, 2005 - 2010

Yrd. Doç. Dr., Eskişehir Osmangazi Üniversitesi, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ, 1994 - 2004

Araştırma Görevlisi, Eskişehir Osmangazi Üniversitesi, FEN FAKÜLTESİ, FİZİK 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**

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II. **Improvement of some physical and magnetic properties of nanocrystalline Fe<sub>15</sub>-Ni<sub>85</sub>/ITO thin films by galvanostatic pretreatment process**

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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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- V. **Electrochemical Deposition of Fe–Co–Ni Samples with Different Co Contents and Characterization of Their Microstructural and Magnetic Properties**  
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- 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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- 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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- IX. **THE EFFECT OF SOLUTION TEMPERATURE ON CHEMICALLY MANUFACTURED CdS SAMPLES**  
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CHALCOGENIDE LETTERS, cilt.18, sa.1, ss.1-10, 2021 (SCI-Expanded)
- 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.  
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- XI. **Bath temperature-dependent structural properties, coercive force, surface morphology and surface texture of electrochemically grown nanostructured Ni-Co/ITO thin films**  
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- XII. **A Comparative Study on Microstructures, Magnetic Features and Morphologies of Ternary Fe-Co-Ni Alloy Thin Films Electrochemically Fabricated at Different Deposition Potentials**  
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- XIII. **Economic analysis of flat-plate solar collectors (FPSCs): A solution to the unemployment problem in the city of Eskisehir**  
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- XIV. **Differences Observed in the Phase Structure, Grain Size-Shape, and Coercivity Field of Electrochemically Deposited Ni-Co Thin Films with Different Co Contents**  
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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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- XVII. **THE EFFECTS OF SELENIUM ON LYCOPERSICON ESCULENTUM MILL. SEEDLINGS**  
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- XVIII. **Microstructural and morphological characterizations of nanocrystalline Ni-Cu-Fe thin films electrodeposited from electrolytes with different Fe ion concentrations**  
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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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- XXI. **Some physical effects of reaction rate on PbS thin films obtained by chemical bath deposition**  
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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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- XXVI. **Comparison of Microstructural and Morphological Properties of Electrodeposited Fe-Cu Thin Films with Low and High Fe:Cu Ratio**  
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- XXIX. **Effect of Applied Current Density on Morphological and Structural Properties of Electrodeposited Fe-Cu Films**  
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- XXX. **Contribution of electrolyte pH and deposition potentials to the magnetic anisotropy of electrodeposited nickel films**  
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- XXXI. **Band alignment of Cd(1-x)ZnxS produced by spray pyrolysis method**  
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- XXXII. **Comparison of Ni-Cu alloy films electrodeposited at low and high pH levels**  
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## **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.  
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- 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**  
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- III. **G-7 Ülkelerinde Rüzgâr Enerjisi ve Ekonomik Büyüme Arasındaki İlişkinin Panel Eşbütünleşme Yaklaşımı ile Analizi**  
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- 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.  
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- 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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## Kitap & Kitap Bölümleri

- I. **Physics I Experiments Laboratory Book for Engineering Students**  
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- 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.  
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- IV. **PHYSICS I II LAB MANUAL For Scientists and Engineers**  
BAYKUL M. C., ALĞIN E., EROĞLU S., AŞICI C.  
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## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **An Economic Inquiry about Flat-Plate Solar Collectors (FPSCs) for Eskisehir, Turkey**  
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- II. **A Comparative Global Overview for Flat-plate Solar Collectors (FPSCs) in G-7 G-20 Countries**  
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25th Euroasia Business and Economic Society (EBES) Conference, 22 - 25 Mayıs 2018
- 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**  
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- 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.  
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- VII. **Fabrication and characterization of Au CdS Au contacts**  
BAYKUL M. C., KAYA M., EFEOĞLU H., Orhan N., SARAÇ U.  
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- 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**  
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INTERNATIONAL SUSTAINABLE DEVELOPMENT ON ECONOMY AND PLANNING CONFERENCE, İstanbul, Türkiye, 1 - 02 Temmuz 2016

- X. **Effect of Cu content on surface roughness grain size magnetic and microstructural properties of electrodeposited nanocrystalline Ni Co Cu ternary thin films**  
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- XI. **Effect of Cu content on surface rougness grain size magnetic and microstructural properties of electrodeposited nanocrystalline Ni Co Cu ternary thin films**  
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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**  
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- XIII. **The role of Cu content on the morphological magnetic and microstructural properties of nanocrystalline Ni Co Cu ternary thin films grown by electrodeposition**  
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- 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.  
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- 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**  
BAYKUL M. C., Ruzgar H., Arman E., Bas Y., BÜTÜN V.  
12th International Conference on Formation of Semiconductor Interfaces, Weimar, Almanya, 01 Şubat 2010, cilt.7, ss.423-426
- 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.  
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- 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**

Yayın: 73

Atf (WoS): 329

Atf (Scopus): 339

H-İndeks (WoS): 9

H-İndeks (Scopus): 9

## **Akademi Dışı Deneyim**

ESKİŞEHİR OSMANGAZİ ÜNİVERSİTESİ

ESKİŞEHİR OSMANGAZİ ÜNİVERSİTESİ

OSMANGAZİ ÜNİVERSİTESİ

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ANADOLU ÜNİVERSİTESİ

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