

Prof. Dr. FİLİZ ERCAN

Kişisel Bilgiler

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Yoksis Araştırmacı ID: 121595

Eğitim Bilgileri

Doktora, Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Türkiye 1987 - 1994

Yüksek Lisans, Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Türkiye 1983 - 1987

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

Sertifika, Kurs ve Eğitimler

Kalite Yönetimi, Kalite Kurulu Kurumsal Dış Değerlendirme Programı, YÖK, 2016

İş Sağlığı ve Güvenliği, İş Sağlığı ve Güvenliği, Ankara ASO 1. Organize Sanayi Bölgesi, 2012

Araştırma Alanları

Nanomalzemeler, Fizik, Malzeme Bilimi, Yoğun Madde 1:Yapısal, Mekanik ve Termal Özellikler , Katı ve sıvı yapılar, kristalografi, Yoğun Madde 2:Elektronik Yapı, Elektrik, Manyetik ve Optik Özellikler

Akademik Unvanlar / Görevler

Prof. Dr., Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2006 - Devam Ediyor

Doç. Dr., Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2000 - 2006

Yrd. Doç. Dr., Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 1997 - 2000

Akademik İdari Deneyim

YÖK Kurum Danışmanı, Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2012 - 2019

Hacettepe Üniversitesi, Nükleer Bilimler Enstitüsü, Nükleer Bilimler Anabilim Dalı Başkanı, 2012 - 2015

Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği, 2012 - 2015

Hacettepe Üniversitesi, Hacettepe ASO 1. OSB MYO, Kurucu Müdürü, 2012 - 2015

Hacettepe Üniversitesi, Mühendislik Fakültesi, Fakülte Kurulu Doçent Temsilcisi,, Fizik Mühendisliği, 2003 - 2005

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayımlanan Makaleler

1. Heat treatment effects on the structural and electrical properties of thermally deposited AgIn5S8

thin films

Qasrawi A. F., Kayed T. S., ERCAN F.

SOLID STATE COMMUNICATIONS, cilt.151, sa.8, ss.615-618, 2011 (SCI-Expanded)

- II. **Preparation of thin film alloys with electrodeposition from heterotrinary M-1-M-2-M-1 complexes (M-1: Ni-II, Cu-II; M-2: Cu-II, Co-II, Zn-II, Cd-II)**
Duzgun E., Ergun U., ERCAN F., Sert M., Aksu M. L., Atakol O.
JOURNAL OF COATINGS TECHNOLOGY AND RESEARCH, cilt.7, sa.3, ss.365-371, 2010 (SCI-Expanded)
- III. **Thermal decomposition of new mononuclear Ni(II) complexes with ONNO type reduced Schiff bases and Pseudo halogens**
Ateş B. M., Zeybek B., Aksu M., Ergun Ü., ERCAN F., Aksu M. L., Atakol O.
Zeitschrift fur Anorganische und Allgemeine Chemie, cilt.636, sa.5, ss.840-845, 2010 (SCI-Expanded)
- IV. **The effect of ligand basicity on the thermal stability of heterodinuclear Ni(II)-Zn(II) complexes**
Zeybek B., Ateş B. M., ERCAN F., Aksu M. L., Kılıç E., Atakol O.
Journal of Thermal Analysis and Calorimetry, cilt.98, sa.2, ss.377-385, 2009 (SCI-Expanded)
- V. **Crystal structure of a new homo trinuclear Ni(II) complex with μ -cyanoacetato bridge**
Meltem Ateş B., ERCAN F., Levent Aksu M., Atakol O.
Zeitschrift fur Kristallographie, cilt.223, sa.8, ss.530-535, 2008 (SCI-Expanded)
- VI. **Structural characterization of Langmuir-Blodgett films of 4,5-bis(dodecyloxy)phthalic acid**
Topacı C., Topach A., Civan M., ERCAN F., Durmuş M., Ahsen V.
THIN SOLID FILMS, cilt.516, sa.23, ss.8299-8306, 2008 (SCI-Expanded)
- VII. **Dichlorido- $1\kappa\text{Cl}, 3\kappa\text{Cl}$ -bis- $\{\mu\text{-}2,2'\text{-}[\text{propane-1, 3-diylbis(iminomethylene)]\text{di-phenolato}\}$ -1:2 $\kappa\text{6 O}, \text{N}, \text{N}', \text{O}': \text{O}, \text{O}'; 2:3\kappa\text{6 O}, \text{O}': \text{O}, \text{N}, \text{N}', \text{O}'$ -tricopper(II)**
Ateş B. M., ERCAN F., Svoboda I., Fuess H., Atakol O.
Acta Crystallographica Section E: Structure Reports Online, cilt.64, sa.3, 2008 (SCI-Expanded)
- VIII. **Structure and thermal decomposition of $\mu\text{-}1,1$ -azido bridged dinuclear Fe(III) complexes**
ERCAN F., Ateş B. M., Aksu L., Sözeri H., Ercan I., Atakol O.
Zeitschrift fur Kristallographie, cilt.222, sa.9, ss.498-503, 2007 (SCI-Expanded)
- IX. **Crystal and molecular structure of a new trinuclear copper(II) complex: $\text{Cu}_3\text{L}_2(\text{NCS})_2 \cdot 2.5(\text{C}_4\text{H}_8\text{O}_2)$, L = bis-N,N'(salicylidene)1,3-propanediamine dianion**
ERCAN F., Atakol O.
Zeitschrift fur Kristallographie, cilt.221, sa.11, ss.735-739, 2006 (SCI-Expanded)
- X. **Magnetic properties of trinuclear Ni-M-Ni complexes, M = Mn, Co and Ni**
Atakol O., Boca R., Ercan I., Ercan F., Fuess H., Haase W., Herchel R.
CHEMICAL PHYSICS LETTERS, cilt.423, ss.192-196, 2006 (SCI-Expanded)
- XI. **Synthesis, crystal structure and magnetic behaviour of a mononuclear Fe(III) - Schiff base metal complex**
Nazir H., Akben N. S., Ateş M. B., Sözeri H., Ercan I., Atakol O., ERCAN F.
Zeitschrift fur Kristallographie, cilt.221, sa.4, ss.276-280, 2006 (SCI-Expanded)
- XII. **Synthesis and crystal structure of a homotrinary Ni(II) complex**
Durmuş S., Ateş B. M., Atakol O., ERCAN F.
Zeitschrift fur Kristallographie, cilt.220, sa.11, ss.973-976, 2005 (SCI-Expanded)
- XIII. **A new Ni-Zn heterodinuclear complex: $[\mu\text{-}2\text{-bis(salicylidene)propane-1,3\text{-diaminato}}]\text{-dichlorobis(N,N-dimethylformamide)nickel(II)\text{-zinc(II)}$**
ERCAN F.
Acta Crystallographica Section E: Structure Reports Online, cilt.61, sa.9, 2005 (SCI-Expanded)
- XIV. **Synthesis and crystal structure of two dimeric cadmium(II) complexes bonded with pseudohalides, 1.1 and 1.3 bonding**
ERCAN F., Arici C., Ülkü D., Kurtaran R., Aksu M., Atakol O.
Zeitschrift fur Kristallographie, cilt.219, sa.5, ss.295-299, 2004 (SCI-Expanded)
- XV. **Structural analysis of bis{(N,N'-dimethylformamide) (μ formato)[$\mu\text{-bis(salicylidene)-1,3\text{-propanediaminato}]$ nickel(II)} copper(II) and zinc(II) monohydrate hetero-trinuclear complexes**

- ERCAN F., Ateş M., Ercan Ý., Durmuş S., Atakol O.
Crystal Research and Technology, cilt.39, sa.5, ss.470-476, 2004 (SCI-Expanded)
- XVI. **Synthesis and crystal structure of linear chain homotetranuclear complexes with N-3(-)**
Kurtaran R., Emregul K., Arici C., Ercan F., Catalano V., Atakol O.
SYNTHESIS AND REACTIVITY IN INORGANIC AND METAL-ORGANIC CHEMISTRY, cilt.33, sa.2, ss.281-296, 2003 (SCI-Expanded)
- XVII. **Synthesis, structural and spectral studies of N-p-methylbenzyliden-N-phenyl-p,p '-dimethoxybenzoyl acetic acid hydrazide**
Ulku D., Arici C., Ercan F., Sacmaci M., Saripinar E., Akcamur Y.
ZEITSCHRIFT FUR KRISTALLOGRAPHIE, cilt.218, sa.5, ss.377-380, 2003 (SCI-Expanded)
- XVIII. **Bis{[μ-N, N'-bis(salicylidene)-1,4-butanediamine-N, N', O, O '-copper(II)]-μ-chloro-chloromercury(II)}**
Ercan I., Ercan F., Arici C., Atakol O.
Acta Crystallographica Section C: Crystal Structure Communications, cilt.58, sa.2, 2002 (SCI-Expanded)
- XIX. **Three heterotrinnuclear Schiff base complexes of nickel(II) with cobalt(II), copper(II) and manganese(II)**
Ercan F., Atakol O., Arici C., Svoboda I., Fuess H.
Acta Crystallographica Section C: Crystal Structure Communications, cilt.58, sa.3, 2002 (SCI-Expanded)
- XX. **Crystal structure of [N,N'-bis(3,5-dinitrosalicylidene)-1, 3-propanediaminato]-bis(3,4-dimethylpyridine)]nickel(II)dioxane solvate**
Arici C., ERCAN F., Atakol O., Basgut Ö.
Analytical Sciences, cilt.18, sa.3, ss.375-376, 2002 (SCI-Expanded)
- XXI. **[N,N '-Bis(salicylidene)-2,2-dimethyl-1,3-propanediaminato]nickel(II) and [N,N '-bis(salicylidene)-2,2-dimethyl-1,3-propanediaminato]copper(II)**
Arici C., Ercan F., Kurtaran R., Atakol O.
ACTA CRYSTALLOGRAPHICA SECTION C-CRYSTAL STRUCTURE COMMUNICATIONS, cilt.57, ss.812-814, 2001 (SCI-Expanded)
- XXII. **Some di- and trinuclear zinc complexes: Anion induced complex formation**
Atakol O., Nazir H., Aksu M., Arici C., Ercan F., Cicek B.
SYNTHESIS AND REACTIVITY IN INORGANIC AND METAL-ORGANIC CHEMISTRY, cilt.30, sa.4, ss.709-718, 2000 (SCI-Expanded)
- XXIII. **{[μ-Bis(salicylidene)-1,3-propanediaminato]-bis(4-methylpyridine) nickel(II)}dichlorozinc(II)**
Atakol O., ERCAN F., Arici C., Fuess H., Svoboda I.
Acta Crystallographica Section C: Crystal Structure Communications, cilt.55, sa.12, ss.2023-2026, 1999 (SCI-Expanded)
- XXIV. **Aqua[N,N'-bis(salicylidene)-1,3-propanediaminato]copper(II)**
Arici C., ERCAN F., Atakol O., Cakirer O.
Acta Crystallographica Section C: Crystal Structure Communications, cilt.55, sa.10, ss.1654-1655, 1999 (SCI-Expanded)
- XXV. **Crystal structure of 1-ethyl-3-methylbenzimidazole-2-thione**
Ingeç S., Soylu H., Kucukbay H., Ercan F., Akkurt M.
ANALYTICAL SCIENCES, cilt.15, sa.9, ss.927-928, 1999 (SCI-Expanded)
- XXVI. **A linear trinuclear CdII-CdII-CdII complex with a μ-acetato bridge: Bis{(μ-acetato)[μ-bis(salicylidene)-1,3-propanediaminato]-cadmium(II)} cadmium(II)**
Atakol O., Aksu M., ERCAN F., Arici C., Tahir M. N., Ülkü D.
Acta Crystallographica Section C: Crystal Structure Communications, cilt.55, sa.7, ss.1072-1075, 1999 (SCI-Expanded)
- XXVII. **{[μ-Bis(salicylidene)-1,3-propanediaminato]bis(3,5-dimethylpyridine)- nickel(II)}diiodozinc(II)**
Arici C., ERCAN F., Atakol O., Akay A., Ülkü D.
Acta Crystallographica Section C: Crystal Structure Communications, cilt.55, sa.6, ss.928-930, 1999 (SCI-Expanded)
- XXVIII. **{[μ-Bis(salicylidene)-1,3-propanediaminato]copper(II)}diiodozinc(II) †**

- ERCAN F., Arici C., Ülkü D., Atakol O., Aksu M.
Acta Crystallographica Section C: Crystal Structure Communications, cilt.55, sa.6, ss.930-932, 1999 (SCI-Expanded)
- XXIX. **{[μ -Bis(salicylidene)-1,3-propanediaminato](3-methylpyridine)copper(I I)} -diiodozinc(II)**
ERCAN F., Arici C., Akay A., Atakol O., Ülkü D.
Acta Crystallographica Section C: Crystal Structure Communications, cilt.55, sa.6, ss.925-928, 1999 (SCI-Expanded)
- XXX. **Bis{(mu-acetato)[mu-bis(salicylidene)-1,3-propanediaminato]copper(II)}copper(II) dioxane solvate**
Atakol O., Arici C., Ercan F., Ulku D.
ACTA CRYSTALLOGRAPHICA SECTION C-CRYSTAL STRUCTURE COMMUNICATIONS, cilt.55, ss.511-513, 1999 (SCI-Expanded)
- XXXI. **Crystal structure of 1,3-dimethylbenzimidazole-2-selenone, C₉H₁₀N₂Se**
Aydin A., Soylu H., Kucukbay H., Akkurt M., Ercan F.
ZEITSCHRIFT FUR KRISTALLOGRAPHIE-NEW CRYSTAL STRUCTURES, cilt.214, sa.2, ss.295-296, 1999 (SCI-Expanded)
- XXXII. **Bis{(mu-acetato)[mu-bis(salicylidene)-1,3-propanediaminato]copper(II)}cadmium(II) dioxane solvate**
Ercan F., Ulku D., Atakol O., Dincer F.
ACTA CRYSTALLOGRAPHICA SECTION C-CRYSTAL STRUCTURE COMMUNICATIONS, cilt.54, ss.1787-1790, 1998 (SCI-Expanded)
- XXXIII. **A linear trinuclear NiII-MnII-NiII complex with a μ -acetato bridge: Bis{(μ -acetato)[μ -bis(salicylidene)-1,3-propanediaminato](N,N-dimethylformamide)nickel(II)}manganese(II)**
ERCAN F., Atakol O.
Acta Crystallographica Section C: Crystal Structure Communications, cilt.54, sa.9, ss.1268-1270, 1998 (SCI-Expanded)
- XXXIV. **N-(2-hydroxy-5-chlorophenyl)thiophenyl-acetamide**
Tarimci Ç., ERCAN F., Koçoglu M., Ören I.
Acta Crystallographica Section C: Crystal Structure Communications, cilt.54, sa.4, ss.488-489, 1998 (SCI-Expanded)
- XXXV. **Preparation and X-ray structure of bis(1-methyl-3-ethylbenzimidazolidine-2-ylium) tetrafluoroborate**
Aydin A., Soylu H., Gunes B., Akkurt M., Ercan E., Kucukbay H., Cetinkaya E.
ZEITSCHRIFT FUR KRISTALLOGRAPHIE, cilt.213, sa.9, ss.473-476, 1998 (SCI-Expanded)
- XXXVI. **3,3-dichloro-4-(4-chlorophenyl)-1-phenyl-azetid-2-one**
Ulku D., Ercan F., Guner V.
ACTA CRYSTALLOGRAPHICA SECTION C-CRYSTAL STRUCTURE COMMUNICATIONS, cilt.53, ss.1945-1947, 1997 (SCI-Expanded)
- XXXVII. **Bis{(μ -acetato)[μ -bis(salicylidene)-1,3-propanediaminato](dimethyl sulfoxide)-nickel(II)}nickel(II)**
Ülkü D., ERCAN F., Atakol O., Dincer F. N.
Acta Crystallographica Section C: Crystal Structure Communications, cilt.53, sa.8, ss.1056-1057, 1997 (SCI-Expanded)
- XXXVIII. **Bis{2-[(2-hydroxybenzyl)iminomethyl]phenolato(2-)-O:O,N, O'}dicopper(II)**
Ulku D., Ercan F., Atakol O., Ercan I., Gencer A.
ACTA CRYSTALLOGRAPHICA SECTION C-CRYSTAL STRUCTURE COMMUNICATIONS, cilt.53, ss.179-181, 1997 (SCI-Expanded)
- XXXIX. **Crystal Structure of Bis[4-(5-methyl-2-oxyphenyl- κ O,2 κ O)-4-imino-2-penten-2-olato-O, O',N']copper(II)**
Atakol O., ERCAN F., Ülkü D., Yilmaz N.
Analytical Sciences, cilt.13, sa.6, ss.1051-1052, 1997 (SCI-Expanded)
- XL. **Crystal structure of tris-(N-salicylidene-benzylamino)cobalt(III), C₄₂H₃₆N₃O₃Co**
Sari M., Yagbasan R., Ercan R., Atakol O., Kenar A.
ZEITSCHRIFT FUR KRISTALLOGRAPHIE-NEW CRYSTAL STRUCTURES, cilt.212, sa.2, ss.185-187, 1997 (SCI-Expanded)
- XLI. **Crystal structure of {N,N'-di-(2-hydroxy-1-naphthylidene)-1-methyl-1,2-diaminoethane-N,N',O,O**

'}nickel(II), (C₂₅H₂₀N₂O₂)Ni(II)

Ercan F., Sari M., Yagbasan R., Atakol O., Akay M.

ZEITSCHRIFT FUR KRISTALLOGRAPHIE-NEW CRYSTAL STRUCTURES, cilt.212, sa.2, ss.183-184, 1997 (SCI-Expanded)

XLII. (Diethylamine-N){4-methyl-2-[(2-oxido-benzylidene)amino]phenolato(2-)-O,N, O,'}-nickel(II)

ERCAN F., Sari M., Yağbasan R., Taştekin M., Aksu L.

Acta Crystallographica Section C: Crystal Structure Communications, cilt.52, sa.11, ss.2682-2684, 1996 (SCI-Expanded)

XLIII. Bis[N-(2,6-dimethylphenyl)amino-glyoximato-N,N']nickel(II)

Ulku D., Ercan F., Macit M., Gulce A.

ACTA CRYSTALLOGRAPHICA SECTION C-CRYSTAL STRUCTURE COMMUNICATIONS, cilt.52, ss.2680-2682, 1996 (SCI-Expanded)

XLIV. {4-methyl-2-[(2-oxidobenzylidene)amino]-phenolato(2-)-N,O,O'} (piperidine-N)-nickel(II)

Atakol O., Kenar A., ERCAN F., Sari M., Yağbasan R.

Acta Crystallographica Section C: Crystal Structure Communications, cilt.52, sa.8, ss.1881-1884, 1996 (SCI-Expanded)

XLV. Bis[N-(4-chlorobenzylidene)-2-mercaptoanilinato]nickel(II)

ERCAN F., Ülkü D., Ancin N., Oztas S. G., Tüzün M.

Acta Crystallographica Section C: Crystal Structure Communications, cilt.52, sa.5, ss.1141-1143, 1996 (SCI-Expanded)

XLVI. Structural and spectral studies of N-trans-cinnamylidene-m-toluidine and N-trans-cinnamylidene-m-chloroaniline

ERCAN F., OZTAS S. S., ANCM N., Hokelek T., TUZUN M., ULKU D.

JOURNAL OF CHEMICAL CRYSTALLOGRAPHY, cilt.26, sa.3, ss.243-247, 1996 (SCI-Expanded)

XLVII. Crystal and molecular structure of 3,3-dichlor-1-(p-chlorophenyl)-4-phenyl-2-azetidinone, C₁₅H₁₀Cl₃N₂O

Ercan F., Ulku D., Guner V.

ZEITSCHRIFT FUR KRISTALLOGRAPHIE, cilt.211, sa.10, ss.735-736, 1996 (SCI-Expanded)

XLVIII. Crystal structure of (beta-benzimidazolyl)proponoic acid, C₁₀H₁₀N₂O₂

Ercan F., Ulku D., Pekmez K.

ZEITSCHRIFT FUR KRISTALLOGRAPHIE, cilt.211, sa.10, ss.733-734, 1996 (SCI-Expanded)

XLIX. AMINOLYSIS OF P-TRICHLORO-N-DICHLOROPHOSPHORYL MONOPHOSPHAZENE AND THE CRYSTAL-STRUCTURE OF 1-(DICHLOROPHOSPHINYL)-2-CHLORO-2,2-BIS(DIISOPROPYLAMINO)PHOSPHAZINE

KILIC Z., GUNDUZ N., YILDIZ M., KILIC A., MOR S., ERCAN F., HOKELEK T., ULKU D.

HETEROATOM CHEMISTRY, cilt.5, sa.4, ss.349-357, 1994 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

I. N N Bis 3 5 dinitrosalicylidene 1 3 propane diaminato bis 3 4 dimethylpyridine nickel II dioxane solvate

ARICI C., ERCAN F., ATAKOL O., BAŞGUT Ö.

Analytical Sciences. March, cilt.18, ss.375-376, 2002 (Hakemli Dergi)

II. 3,3-Dichloro-4-(p-methoxyphenyl)-1-phenyl-2-azetidinone

ERCAN F., Ülkü D., Güner V.

Acta Crystallographica Section C: Crystal Structure Communications, cilt.52, sa.7, ss.1779-1780, 1996 (Scopus)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. X ray Crystallography at Hacettepe University Conference on Frontiers of Chemical Sciences II

Research and Education in the Middle East Orta Doğu da Araştırma ve Eğitim

ÜLKÜ D., ERCAN F., ARICI C., ATAKOL O.

Orta Doğu'da Araştırma ve Eğitim, Malta, 5 - 10 Kasım 2005

- II. **The effects of excitation frequency on the structural electrical and optical properties of ZnO thin films World Year of Physics 2005**
KAVASOĞLU N., ERCAN F., GÜNGÖR T.
Turkish Physical Society 23rd International Physics Congress., Muğla, Türkiye, 13 - 16 Eylül 2005
- III. **Bir İki ve Üç Çekirdekli Schiff Bazlı Fe²⁺ ve Fe³⁺ Komplekslerinin Yapısal Özellikleri**
ATEŞ B. M., SÖZERİ H., NAZIR H., ERCAN İ., ATAKOL O., ERCAN F.
Türk Fizik Derneği 22. Kongresi, BODRUM, Türkiye, 14 - 17 Eylül 2004
- IV. **Yeni Bir Dört Çekirdekli Bakır II Oksijen Taşıyıcı Kompleks**
KURTARAN R., DURMUŞ S., ERCAN İ., ERCAN F., ATAKOL O.
XVIII. Ulusal Kimya Kongresi, Kars, Türkiye, 5 - 09 Ağustos 2004
- V. **METEK Projesi Meslek Yüksekokullarında Kalite Mevcut Durum Sorunlar ve Çözüm Önerileri METEK toplantısı YÖK Temsilcisi Çağrılı Konuşmacı ve Panelist Hacettepe Modeli Hitit Üniversitesi**
ERCAN F.
METEK toplantısı, YÖK Temsilcisi, Türkiye, 6 - 07 Mart 2004
- VI. **Structural and spectral studies of N trans cinnamylidene m toluidine and N trans cinnamylidene m chloro aniline**
ERCAN F., ÖZTAŞ S. G., ANCIN N., HÖKELEK T., TÜZÜN M., ÜLKÜ D.
35th IUPAC Congress, İstanbul, Türkiye, 14 Ağustos 1995 - 19 Ağustos 1999

Metrikler

Yayın: 57

Atıf (WoS): 570

Atıf (Scopus): 578

H-İndeks (WoS): 14

H-İndeks (Scopus): 14

Akademi Dışı Deneyim

Meslek Organizasyonu, Hacettepe Üniversitesi, Fizik Mühendisliği Bölümü