

Prof. LEYLA YILDIRIM

Personal Information

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Education Information

Doctorate, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Mühendisliği, Turkey 1994 - 1999

Postgraduate, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Fizik Mühendisliği, Turkey 1992 - 1994

Undergraduate, Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği, Turkey 1986 - 1992

Foreign Languages

English, B1 Intermediate

Research Areas

Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Structure of Liquids and Solids; Crystallography, Surfaces, Interfaces, Thin Films and Nanosystems, Natural Sciences

Academic Titles / Tasks

Professor, Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2009 - Continues

Associate Professor, Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2003 - 2009

Research Assistant, Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 1992 - 2003

Academic and Administrative Experience

Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2015 - Continues

Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2013 - 2015

Courses

FİZ 432 BİTİRME PROJESİ, Undergraduate, 2016 - 2017, 2017 - 2018

FİZ 217 TİTREŞİMLER VE DALGALAR, Undergraduate, 2016 - 2017, 2017 - 2018

FİZ 138 FİZİK II, Undergraduate, 2016 - 2017, 2017 - 2018

FİZ 137 FİZİK I, Undergraduate, 2016 - 2017, 2017 - 2018

FİZ107 FİZİK MÜHENDİSLİĞİNE GİRİŞ, Undergraduate, 2016 - 2017, 2017 - 2018

FİZ 301 KUANTUM LAB., Undergraduate, 2016 - 2017, 2017 - 2018

FİZ 216 ELEKTRİK VE MANYETİZMA, Undergraduate, 2016 - 2017, 2017 - 2018

Advising Theses

YILDIRIM L., Lantanborat bileşiminin katı hal yöntemi ile sentezi ve karakterizasyonu, Postgraduate, E.EKER(Student), 2006

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Improved solubility of celecoxib by inclusion in SBA-15 mesoporous silica: Drug loading in different solvents and release**
Eren Z. S. , Tuncer S., Gezer G., YILDIRIM L., BANERJEE S., YILMAZ A.
MICROPOROUS AND MESOPOROUS MATERIALS, vol.235, pp.211-223, 2016 (Journal Indexed in SCI)
- II. **Orthogonal Bodipy Trimers as Photosensitizers for Photodynamic Action**
Ozdemir T., Bila J. L. , SÖZMEN F., YILDIRIM L., AKKAYA E. U.
ORGANIC LETTERS, vol.18, no.19, pp.4821-4823, 2016 (Journal Indexed in SCI)
- III. **Dual-Responsive Lipid Nanotubes: Two-Way Morphology Control by pH and Redox Effects**
YILDIRIM L., Unsal H., Schmidt J., Talmon Y., AYDOĞAN N.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.72, 2016 (Journal Indexed in SCI)
- IV. **Rapid thermal annealing induced formation of Ge nanoparticles in ZnO thin films: A detailed SAXS study**
YILDIRIM L., CEYLAN A., ÖZCAN Ş., Shah S. I.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.71, 2015 (Journal Indexed in SCI)
- V. **Modeling the intermolecular interactions: Molecular structure of N-3-hydroxyphenyl-4-methoxybenzamide**
Karabulut S., Namli H., Kurtaran R., Yildirim L. T. , Leszczynski J.
JOURNAL OF MOLECULAR GRAPHICS & MODELLING, vol.48, pp.1-8, 2014 (Journal Indexed in SCI)
- VI. **SWAXS analysis on some quasicrystalline alloys: Nanoclusters and nanoaggregates**
Tukel C., İDE S., YILDIRIM L., Erbudak M.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.581, pp.860-866, 2013 (Journal Indexed in SCI)
- VII. **Synthesis and antidiabetic activity of morpholinothiazolyl-2,4-thiazolidindione derivatives**
Ezer M., YILDIRIM L., Bayro O., Verspohl E. J. , DÜNDAR O.
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.27, no.3, pp.419-427, 2012 (Journal Indexed in SCI)
- VIII. **Novel homogeneous catalyst comprising ruthenium and trimethylphosphite for the hydrolysis of sodium borohydride**
Masjedi M., YILDIRIM L., ÖZKAR S.
JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL, vol.355, pp.186-191, 2012 (Journal Indexed in SCI)
- IX. **Synthesis and structural characterization of a novel seven-coordinate cobalt(II) complex: 2,9-Bis(ethanolamine)-1,10-phenanthrolinechlorocobalt(II) chloride**
BAYSAL A., AYDEMİR M., DURAP F., ÖZKAR S., YILDIRIM L.
INORGANICA CHIMICA ACTA, vol.371, no.1, pp.107-110, 2011 (Journal Indexed in SCI)
- X. **Ruthenium complexes of aminophosphine ligands and their use as pre-catalysts in the transfer hydrogenation of aromatic ketones: X-ray crystal structure of thiophene-2-(N-diphenylthiophosphino)methylamine**
AYDEMİR M., BAYSAL A., ÖZKAR S., YILDIRIM L.
POLYHEDRON, vol.30, no.5, pp.796-804, 2011 (Journal Indexed in SCI)
- XI. **trans- and cis-Ru(II) aminophosphine complexes: Syntheses, X-ray structures and catalytic activity in transfer hydrogenation of acetophenone derivatives**
AYDEMİR M., BAYSAL A., ÖZKAR S., YILDIRIM L.
INORGANICA CHIMICA ACTA, vol.367, no.1, pp.166-172, 2011 (Journal Indexed in SCI)
- XII. **Synthesis, Crystal Structure and Spectroscopic Characterization of {6-[2-(2-chlorophenyl)-1,3-**

thiazol-4-yl]-2-oxo-1,3-benzothiazol-3(2H)-yl}acetic acid

AYDIN A., AKKURT M., Uzun L., YILDIRIM L., ÖNKOL T.

JOURNAL OF CHEMICAL CRYSTALLOGRAPHY, vol.40, no.10, pp.816-820, 2010 (Journal Indexed in SCI)

- XIII. **Energetic trinuclear Ni-II-Ni-II-Ni-II complexes at high temperature**
Cakirer O., Eker E., Ergun U., Gokcinar E., YILDIRIM L., Dal H., Atakol O.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.101, no.3, pp.1167-1173, 2010 (Journal Indexed in SCI)
- XIV. **Novel neutral phosphinite bridged dinuclear ruthenium(II) arene complexes and their catalytic use in transfer hydrogenation of aromatic ketones: X-ray structure of a new Schiff base, N3,N3'-di-2-hydroxybenzylidene-[2,2']bipyridinyl-3,3'-diamine**
AYDEMİR M., DURAP F., BAYSAL A., MERİÇ N., Buldag A., Guemguem B., ÖZKAR S., YILDIRIM L.
JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL, vol.326, pp.75-81, 2010 (Journal Indexed in SCI)
- XV. **Crystal structure of trans- and cis-bis(acetylacetonato)bis(trimethylphosphite)-ruthenium(II) complexes and testing their catalytic activity in hydrogen generation from the hydrolysis of sodium borohydride**
Masjedi M., YILDIRIM L., ÖZKAR S.
INORGANICA CHIMICA ACTA, vol.363, no.8, pp.1713-1718, 2010 (Journal Indexed in SCI)
- XVI. **Synthesis and characterization of new (N-diphenylphosphino)-isopropylanilines and their complexes: crystal structure of (Ph₂P = S)NH-C₆H₄-4-CH(CH₃)(2) and catalytic activity of palladium(II) complexes in the Heck and Suzuki cross-coupling reactions**
AYDEMİR M., BAYSAL A., GÜRBÜZ N., ÖZDEMİR İ., Gumgum B., ÖZKAR S., Caylak N., YILDIRIM L.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.24, no.1, pp.17-24, 2010 (Journal Indexed in SCI)
- XVII. **Synthesis and characterization of transition metal complexes of thiophene-2-methylamine: X-ray crystal structure of palladium (II) and platinum (II) complexes and use of palladium(II) complexes as pre-catalyst in Heck and Suzuki cross-coupling reactions**
AYDEMİR M., BAYSAL A., DURAP F., Gumgum B., ÖZKAR S., YILDIRIM L.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.23, no.11, pp.467-475, 2009 (Journal Indexed in SCI)
- XVIII. **Synthesis and characterization of new bis(diphenylphosphino)aniline ligands and their complexes: X-ray crystal structure of palladium(II) and platinum(II) complexes, and application of palladium(II) complexes as pre-catalysts in Heck and Suzuki cross-coupling reactions**
AYDEMİR M., DURAP F., BAYSAL A., AKBA O., Gumgum B., ÖZKAR S., YILDIRIM L.
POLYHEDRON, vol.28, no.12, pp.2313-2320, 2009 (Journal Indexed in SCI)
- XIX. **Solid-State Emissive BODIPY Dyes with Bulky Substituents As Spacers**
Ozdemir T., Atilgan S., Kutuk I., YILDIRIM L., Tulek A., BAYINDIR M., AKKAYA E. U.
ORGANIC LETTERS, vol.11, no.10, pp.2105-2107, 2009 (Journal Indexed in SCI)
- XX. **Synthesis, Characterization and Crystal Packing-Geometry of 1,5-dihydro-2H-cyclopenta [1,2-b:5,4-b']dipyridin-2-One**
YILDIRIM L., BAYSAL A., DURAP F., ÖZKAR S.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.65, 2009 (Journal Indexed in SCI)
- XXI. **Bidirectional switching of near IR emitting boradiazaindacene fluorophores**
Deniz E., Isbasar G. C., Bozdemir O. A., YILDIRIM L., Siemiarz A., AKKAYA E. U.
ORGANIC LETTERS, vol.10, no.16, pp.3401-3403, 2008 (Journal Indexed in SCI)
- XXII. **Di- μ (2)-acetato-1 : 2 kappa O-2 : O'; 2 : 3 kappa O-2 : O'-bis(N,N'-dimethylformamide)-1 kappa O,3 kappa O-bis{ μ (2)-2,2'-[propane-1,3-diylbis(imino-methylene)]diphenolato-1 kappa O-4,N,N',O': 2 kappa O-2,O'; 2 kappa O-2,O': 3 kappa O-4,N,N',O'-1,3-dinickel(II)-2-cadmium(II)}**
YILDIRIM L., ATAKOL O.
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.64, 2008 (Journal Indexed in SCI)
- XXIII. **Dibromido-2 kappa Br-2-bis(4-methylpyridine-1 kappa N){ μ -2,2'-[propane-1,3-diylbis(nitrilomethylidyne)]diphenolato-1 kappa O-4,N,N',-O': 2 kappa O-2,O'}nickel(II)zinc(II)**
YILDIRIM L., Atakol O.

- ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.63, 2007 (Journal Indexed in SCI)
- XXIV. **Diiodido-2 kappa I-2-bis(4-methylpyridine-1 kappa N)-mu-{2,2 '-[1,3-propanediylbis(nitrilomethylidyne)]diphenolato-1 kappa O-4,N,N ',O ': 2 kappa O-2,O '}'nickel(II)zinc(II)**
YILDIRIM L., Atakol O., Kavak G.
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.63, 2007 (Journal Indexed in SCI)
- XXV. **Bis[mu(2)-N,N '-bis(2-oxidobenzyl)propane-1,3-diamine]-1 kappa O-4,N,N ',O ': 2 kappa O-2,O ': 2 kappa O-2,O ': 3 kappa O-4,N,N ',O '-bis(N,N '-dimethylformamide)1 kappa O,3 kappa O-di-mu(2)acetato-1 : 2 kappa O-2 : O ': 2 : 3 kappa O-2 ;;O ' dinickel(II)zinc(II)**
YILDIRIM L., Ergun U.
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.63, 2007 (Journal Indexed in SCI)
- XXVI. **Bis[mu(2)-2,2 '-dimethyl-N,N '-bis(2-oxido-benzyl)propane-1,3-diamine]-1 kappa O-4,N,N ',O ': 2 kappa O-2,O ' ; 2 kappa O-2,O ': 3 kappa O-4,N,N ',O '-bis(N,N '-dimethylformamide)-1 kappa O,3 kappa O-di-mu(2)-formato-1 : 2 kappa O-2 : O ': 2 : 3 kappa O-2 : O '-trinickel(II)**
YILDIRIM L., Atakol O., Kavak G.
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.63, 2007 (Journal Indexed in SCI)
- XXVII. **Synthesis, characterization and crystal structure of bis(acetylacetonato)dimethanolnickel(II): [Ni(acac)(2)(MeOH)(2)]**
Metin O., YILDIRIM L., Oezkar S.
INORGANIC CHEMISTRY COMMUNICATIONS, vol.10, no.9, pp.1121-1123, 2007 (Journal Indexed in SCI)
- XXVIII. **Synthesis, crystal structure and biological activity of two new heterotrinnuclear thiocyanato bridged Cu(II)-Hg(II)-Cu(II) complexes**
YILDIRIM L., Kurtaran R., Namli H., Azaz A. D. , Atakol O.
POLYHEDRON, vol.26, no.15, pp.4187-4194, 2007 (Journal Indexed in SCI)
- XXIX. **Synthesis and characterizations of 3,3 '-bis(diphenylphosphinoamine)-2,2 '-bipyridine and 3,3 '-bis(diphenylphosphinite)-2,2 '-bipyridine and their chalcogenides**
Baysal A., Aydemir M., Durap F., Guemguem B., Oezkar S., YILDIRIM L.
POLYHEDRON, vol.26, no.13, pp.3373-3378, 2007 (Journal Indexed in SCI)
- XXX. **Synthesis, characterization, crystal and molecular structure of 1,5-Dihydro-2H-cyclopenta[1,2-b : 5,4-b ']dipyridin-2-imine**
Baysal A., Durap F., Gumgum B., YILDIRIM L., Ulku D., Boga A. D. , Ozkar S.
HELVETICA CHIMICA ACTA, vol.90, no.6, pp.1211-1217, 2007 (Journal Indexed in SCI)
- XXXI. **Synthesis, Characterization and Molecular Structure of a Novel Schiff Base, N3,N3 '-di-2-hydroxybenzylidene-[2,2 ']bipyridinyl-3,3 '-diamine**
BAYSAL A., Buldag A., Gumgum B., ÖZKAR S., YILDIRIM L.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.63, 2007 (Journal Indexed in SCI)
- XXXII. **Synthesis, crystal structure and spectral analysis of diaquatetrakis(N-methylimidazole)Ni(II)(2,4,6-tribromophenol)**
Yilmaz A., Camurlu P., YILDIRIM L., Kisakuerek D., Uelkue D.
CRYSTAL RESEARCH AND TECHNOLOGY, vol.41, no.8, pp.829-835, 2006 (Journal Indexed in SCI)
- XXXIII. **Spectroscopic and crystal structure analysis of diamminebis(2,4,6-triiodophenolato-O) copper(II)**
Gokagac G., YILDIRIM L., Sonsuz M., Sen F.
CRYSTAL RESEARCH AND TECHNOLOGY, vol.41, no.5, pp.523-527, 2006 (Journal Indexed in SCI)
- XXXIV. **Synthesis, characterization, crystal structure and biological activity of a novel heterotetranuclear complex: [NiPb(SCN)(2)(DMF)(H2O)](2), bis-{'[mu-N,N '-bis(salicylidene)-1,3-propanediaminato-aqua-nickel(II)](thiocyanato)(mu-thiocyanato)(mu-N,N '-dimethylformamide)lead(II)}**
Kurtaran R., YILDIRIM L., Azaz A., Namli H., Atakol O.

- JOURNAL OF INORGANIC BIOCHEMISTRY, vol.99, no.10, pp.1937-1944, 2005 (Journal Indexed in SCI)
- XXXV. **New zeotype borophosphates with chiral tetrahedral topology: (H)(0.5)M-1.25(H₂O)(1.5) [BP208]center dot H₂O (M = Co(II) and Mn(II))**
Yilmaz A., YILDIRIM L., Bu X., Kizilyalli M., Stucky G.
CRYSTAL RESEARCH AND TECHNOLOGY, vol.40, no.6, pp.579-585, 2005 (Journal Indexed in SCI)
- XXXVI. **Spectroscopic, magnetic and crystal structure analysis of diammine-bis(2,6-dibromo-4-chlorophenolato-O)copper(II)**
Gokagac G., YILDIRIM L., Sonsuz N., Sen F.
ZEITSCHRIFT FUR NATURFORSCHUNG SECTION B-A JOURNAL OF CHEMICAL SCIENCES, vol.60, no.5, pp.543-547, 2005 (Journal Indexed in SCI)
- XXXVII. **Synthesis, Characterization and Crystal Structure of new Transition Metal Compounds of Thiocyanate**
YILDIRIM L., Kurtaran R., ATAKOL O.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.61, 2005 (Journal Indexed in SCI)
- XXXVIII. **Crystal and molecular structure of bis(acetylaceton)ethylenediimine: intramolecular ionic hydrogen bonding in solid state**
Ozkar S., Ulku D., YILDIRIM L., Biricik N., Gumgum B.
JOURNAL OF MOLECULAR STRUCTURE, vol.688, pp.207-211, 2004 (Journal Indexed in SCI)
- XXXIX. **Reaction of pentacarbonyl(eta(2)-bis(trimethylsilyl)ethyne)tungsten(0) with tricyclohexylphosphine: X-ray structure of pentacarbonyltricyclohexylphosphinetungsten(0)**
Demircan O., Ozkar S., Ulku D., YILDIRIM L.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.688, pp.68-74, 2003 (Journal Indexed in SCI)
- XL. **Crystal structure analysis of Bis{(N,N '-dimethylformamide)-[mu-bis-N,N'-(2-oxybenzyl)-1,3-propanediaminato](mu-asetato)nickel(II)}nickel(II)**
YILDIRIM L., Atakol O.
CRYSTAL RESEARCH AND TECHNOLOGY, vol.37, no.12, pp.1352-1359, 2002 (Journal Indexed in SCI)
- XLI. **Structure and electrochemical behaviour of Bis[N-(4-methylphenyl)salicylaldimine]copper(II) N,N '-dimethylformamide solvate**
Yildirim L., EMREGUL K. C. , KURTARAN R., ATAKOL O.
CRYSTAL RESEARCH AND TECHNOLOGY, vol.37, no.12, pp.1344-1351, 2002 (Journal Indexed in SCI)

Supported Projects

- YILDIRIM L., CEYLAN A., ÖZCAN Ş., Project Supported by Higher Education Institutions, Fizik Mühendisliği Bölümü Servis Laboratuvarı Deney Düzeneklerinin Yenilenmesi, 2015 - 2017
- YILDIRIM L., Project Supported by Higher Education Institutions, "30. Avrupa Kristalografisi Kongresi" ne Katılım, 2016 - 2016
- YILDIRIM L., Project Supported by Higher Education Institutions, 29. Avrupa Kristalografisi Kongresi'ne Katılım, 2015 - 2015
- YILDIRIM L., Project Supported by Higher Education Institutions, Gözenekli yapıların kristal ve nano oluşumlarının SAXS ve XRD yöntemleri ile araştırılması, 2015 - 2015
- İDE S., SÜNETHİOĞLU M. M. , YILDIRIM L., ÖZBEY S., POLAT M., ÇOLAK Ş., Project Supported by Higher Education Institutions, FİZ301 FİZİK LAB. V. (Kuantum Fiziği Laboratuvarı) dersi kapsamındaki bazı deney donanımlarının sarf malzeme eksikliklerinin giderilmesi, 2014 - 2015

Citations

Total Citations (WOS):807

h-index (WOS):14