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Personal Information

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International Researcher IDs

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Education Information

Doctorate, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 2005 - 2010

Postgraduate, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 2002 - 2005

Undergraduate, Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Fizik Bölümü, Turkey 1998 - 2002

Dissertations

Doctorate, Bazı kumarin türevleri üzerinde teorik ve deneysel çalışmalar, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2010

Postgraduate, Güneş enerjisi kolektörlerinde enerji absorpsiyon sistemleri, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 2005

Research Areas

Physics, General Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Natural Sciences

Academic Titles / Tasks

Associate Professor, Eskisehir Osmangazi University, Fen Fakültesi, Fizik Bölümü, 2016 - Continues

Research Assistant PhD, Eskisehir Osmangazi University, Fen Fakültesi, Fizik Bölümü, 2010 - Continues

Research Assistant, Eskisehir Osmangazi University, Fen Fakültesi, Fizik Bölümü, 2002 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Effects of withdrawal speed on the microstructural and optical properties of sol-gel grown ZnO:Al thin films**
AYDEMİR S.
VACUUM, vol.120, pp.51-58, 2015 (SCI-Expanded)
- II. **Effects of withdrawal speed on the structural and optical properties of sol-gel derived ZnO thin films**
AYDEMİR S., KARAKAYA S.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.373, pp.33-39, 2015 (SCI-Expanded)

- III. **The effect of Al on structure, morphology and optical properties of network texture ZnO thin films synthesized using the sol-gel method**
AYDEMİR S., KARAKAYA S.
OPTIK, vol.126, no.18, pp.1735-1739, 2015 (SCI-Expanded)
- IV. **Influence of Al-doping on microstructure and optical properties of sol-gel derived CdO thin films**
AYDEMİR S., KÖSE S., Kilickaya M. S., Ozkan V.
SUPERLATTICES AND MICROSTRUCTURES, vol.71, pp.72-81, 2014 (SCI-Expanded)
- V. **Ab initio studies on acidity and tautomeric equilibrium constants of some benzoxa-, benzothia-, benzoselena-zolinone derivatives**
DURAN M., AYDEMİR S.
COMPUTATIONAL AND THEORETICAL CHEMISTRY, vol.989, pp.69-74, 2012 (SCI-Expanded)
- VI. **Experimental and Theoretical Studies on Tautomerism and Acid-Base Behavior of N-(2-Oxo-2H-chromen-3-yl)acetamide**
Ogretir C., DURAN M., AYDEMİR S.
JOURNAL OF CHEMICAL AND ENGINEERING DATA, vol.55, no.12, pp.5634-5641, 2010 (SCI-Expanded)
- VII. **Spectroscopic and Theoretical Study on Isomerism, Prototautomerism, and Acid Dissociation Constants of 2-Hydroxy-3-(3-oxo-1-phenylbutyl)chromen-4-one**
Ogretir C., AYDEMİR S., DURAN M., Kilickaya M. S.
JOURNAL OF CHEMICAL AND ENGINEERING DATA, vol.55, no.4, pp.1477-1485, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **Sol-Gel Synthesis of Aluminum Doped CdO Thin Films for Optoelectronic Applications**
KARAKAYA S., AYDEMİR S.
MATERIALS FOCUS, vol.7, no.1, pp.126-131, 2018 (Peer-Reviewed Journal)
- II. **Sol-gel dip Coating Synthesis and Physical Properties of ZnO:Al Thin Films**
KARAKAYA S., AYDEMİR S.
Canadian Journal of Basic and Applied Sciences, 2015 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Perovskit güneş pili uygulamalarında ZnO elektron taşıyıcı yüzeyler geliştirilmesi**
AYDEMİR S., HINSCH A.
VI. Ulusal Güneş ve Hidrojen Enerjisi Kongresi (UGHEK2018), Turkey, 10 - 11 May 2018
- II. **Perovskit güneş pili uygulamalarında polimer boncuk yapıların eldesi ve makroporozitenin geliştirilmesi**
AYDEMİR S., YAŞAROĞLU K.
UGHEK2018 VI. ULUSAL GÜNEŞ VE HİDROJEN ENERJİSİ KONGRESİ, 10-11 MAYIS 2018, ESKİŞEHİR, Turkey, 10 - 11 May 2018
- III. **Enhancement of macroporosity by sol-gel TiO₂/SnO₂ moulding of self-assembled polymer beads for monolithic perovskite solar cell**
YASAROĞLU K., AYDEMİR S., chacko s., mastroianni s., Schmerber g., rehspringer j. l., slaoui a., hinsch a., dinia a.
3rd International Conference on Perovskite Solar Cells and Optoelectronics, 18 - 20 September 2017
- IV. **Effects of post heating temperature on structural and optical properties of sol gel derived ZnO thin films**
AYDEMİR S.
Science and Applications of Thin Films, Conference Exhibition (SATF 2014), 15 - 18 September 2014
- V. **Synthesis and characterization of sol gel synthesized CdZnO Nanocomposites**
AYDEMİR S.

Science and Applications of Thin Films, Conference Exhibition (SATF 2014), 15 - 18 September 2014

- VI. **Effects of withdrawal speed on the microstructural and optical properties of sol gel prepared ZnO Al thin films**
AYDEMİR S.
Science and Applications of Thin Films, Conference Exhibition (SATF 2014), 15 - 18 September 2014
- VII. **Sol gel tekniği ile ZnO CdO nanokompozit ince film üretimi**
AYDEMİR S.
IV. Ulusal Güneş ve Hidrojen Enerjisi Kongresi, Turkey, 22 - 23 May 2014
- VIII. **S Karakaya S Aydemir INTERNATIONAL CONFERENCE on NANOSCALE MAGNETISM ICNM 2013 konferansı dahilinde INTERNATIONAL CONFERENCE on NANOSCALE MAGNETISM ICNM PROGRAM ABSTRACT BOOK bildiri kitapçığındaki Effect of the withdrawal speed on the structural and optical properties of sol gel derived ZnO films başlıklı bildiri Sayfa 187 SEPTEMBER 2 6 2013 Bahçeşehir Üni ISTANBUL TURKEY**
AYDEMİR S.
INTERNATIONAL CONFERENCE on NANOSCALE MAGNETISM ICNM- 2013, 2 - 06 September 2013
- IX. **Effects of post heat treatment on the structural and optical properties of sol gelderived ZnO thin films**
AYDEMİR S., KARAKAYA S.
International Conference on Nanoscale Magnetism (ICNM2013), 2 - 06 September 2013, vol.1, pp.141-142
- X. **S Aydemir S Karakaya INTERNATIONAL CONFERENCE on NANOSCALE MAGNETISM ICNM 2013 konferansı dahilinde INTERNATIONAL CONFERENCE on NANOSCALE MAGNETISM ICNM PROGRAM ABSTRACT BOOK bildiri kitapçığındaki EFFECTS OF POST HEAT TREATMENT ON THE STRUCTURAL AND OPTICAL PROPERTIES OF SOL GEL DERIVED ZNO THIN FILMS başlıklı bildiri Sayfa 123 SEPTEMBER 2 6 2013 Bahçeşehir Üni ISTANBUL TURKEY**
AYDEMİR S.
INTERNATIONAL CONFERENCE on NANOSCALE MAGNETISM ICNM-2013, 2 - 06 September 2013
- XI. **Effects of Al doping on the structural and optical properties of sol gel prepared ZnO thin films**
AYDEMİR S., KARAKAYA S.
International Conference on Nanoscale Magnetism (ICNM2013), 2 - 06 September 2013, vol.1, pp.139-140
- XII. **S Aydemir S Karakaya INTERNATIONAL CONFERENCE on NANOSCALE MAGNETISM ICNM 2013 konferansı dahilinde INTERNATIONAL CONFERENCE on NANOSCALE MAGNETISM ICNM PROGRAM ABSTRACT BOOK bildiri kitapçığındaki EFFECTS OF Al DOPING ON THE STRUCTURAL AND OPTICAL PROPERTIES OF SOL GEL PREPARED ZnO THIN FILMS başlıklı bildiri Sayfa 121 SEPTEMBER 2 6 2013 Bahçeşehir Üni ISTANBUL TURKEY**
AYDEMİR S.
INTERNATIONAL CONFERENCE on NANOSCALE MAGNETISM ICNM-2013, 2 - 06 September 2013
- XIII. **S Aydemir S Karakaya INTERNATIONAL CONFERENCE on NANOSCALE MAGNETISM ICNM 2013 konferansı dahilinde INTERNATIONAL CONFERENCE on NANOSCALE MAGNETISM ICNM PROGRAM ABSTRACT BOOK bildiri kitapçığındaki EFFECTS OF WITHDRAWAL SPEED ON THE MICROSTRUCTURAL AND OPTICAL PROPERTIES OF SOL GEL DERIVED ZNO Al THIN FILMS başlıklı bildiri Sayfa 122 başlıklı bildiri Sayfa 123 SEPTEMBER 2 6 2013 Bahçeşehir Üni ISTANBUL TURKEY**
AYDEMİR S.
INTERNATIONAL CONFERENCE on NANOSCALE MAGNETISM ICNM-2013, 2 - 06 September 2013
- XIV. **S Aydemir C Baykul VII Ulusal Temiz Enerji Sempozyumu konferansı dahilinde VII Ulusal Temiz Enerji Sempozyumu UTEG 2010 Yenilenebilir Enerji ve Yerel Yönetimler bildiri kitapçığındaki DÜZLEMSEL GÜNEŞ KOLLEKTÖRLERİNDE KULLANILAN BOYALARIN OPTİKSEL ÖZELLİKLERİNİN İNCELENMESİ başlıklı bildiri VIII ULUSAL TEMİZ ENERJİ SEMPOZYUMU UTEG 10 YENİLENEBİLİR ENERJİ VE YEREL YÖNETİMLER BİLDİRİLER KİTABI SAYFA 68 75 1 5 ARALIK 2010 ULUDAĞ ÜNİVERSİTESİ BURSA**
AYDEMİR S.
VII. Ulusal Temiz Enerji Sempozyumu, konferansı, Turkey, 1 - 05 December 2010

- XV. **S Aydemir Chemical Physics Congress IX konferansı dahilinde Chemical Physics Congress IX bildiri kitapçığındaki GIAO NMR Calculations for Benzoxa Benzothia and Benzoselena zolinone Derivatives Comparison of Theoretical and Experimental ¹H and ¹³C Chemical Shifts** başlıklı bildiri Sayfa 47 14 16 October 2010 İzmir Teknoloji Enstitüsü İzmir
AYDEMİR S.
Chemical Physics Congress IX, Turkey, 14 - 16 October 2010
- XVI. **S Aydemir C Öğretir M S Kılıçkaya Chemical Physics Congress IX konferansı dahilinde Chemical Physics Congress IX bildiri kitapçığındaki The Quantum Chemical and Experimental studies on tautomerism acidity basicity behavior and NMR calculations of N 2 oxo 2H chromen 3 yl acetamide molecule** başlıklı bildiri sayfa 74 14 16 October 2010 İzmir Teknoloji Enstitüsü İzmir
AYDEMİR S.
Chemical Physics Congress IX, Turkey, 14 - 16 October 2010
- XVII. **M Duran S Aydemir Chemical Physics Congress IX konferansı dahilinde Chemical Physics Congress IX bildiri kitapçığındaki Quantum Chemical Studies on the Acidity Constants of Benzoxa Benzothia and Benzoselena zolinone Derivatives** başlıklı bildiri Sayfa 45 14 16 October 2010 İzmir Teknoloji Enstitüsü İzmir
AYDEMİR S.
Chemical Physics Congress IX, Turkey, 14 - 16 October 2010
- XVIII. **S Aydemir C Öğretir Chemical Physics Congress konferansı dahilinde Chemical Physics Congress IX bildiri kitapçığındaki Quantum Chemical and Experimental Studies on The Protonation Mechanism and NMR calculations of 2 hydroxy 3 3 oxo 1 phenylbutyl chromen 4 one molecule** başlıklı bildiri Sayfa 44 14 16 October 2010 İzmir Teknoloji Enstitüsü İzmir
AYDEMİR S.
Chemical Physics Congress IX, Turkey, 14 - 16 October 2010
- XIX. **S Aydemir MYOMAT 2009 I Ulusal Metal Yarıiletken ve Oksit Materyallerin Üretiminde Kullanılan Sistemler ve Analiz Teknikleri Kongresi konferansı ÖZET KİTABI bildiri kitapçığındaki KİMYASAL BUHARLAŞTIRMA YÖNTEMİ İLE ELDE EDİLEN GÖZENEKLİ SİLİSYUMUN YAPISAL VE YÜZEYSEL ÖZELLİKLERİ** başlıklı bildiri I Ulusal Metal Yarıiletken ve oksit materyallerinin üretiminde kullanılan sistemler ve analiz teknikleri kongresi 15 16 Haziran 2009 ESOGÜ Eskişehir
AYDEMİR S.
I.Ulusal Metal, Yarıiletken ve Oksit Materyallerin Üretiminde Kullanılan Sistemler ve Analiz Teknikleri Kongresi, Turkey, 15 - 16 June 2009
- XX. **S Aydemir M Duran E Taşal H Berber C Öğretir M S Kilickaya Eucmos XXIX European Congress on Molecular Spectroscopy konferansı dahilinde XXIX European Congress on Molecular Spectroscopy Book of Abstracts bildiri kitapçığındaki Ab initio Calculations of pKa values for 7 Acetoxycoumarin 3 Carboxylic Acid** başlıklı bildiri Sayfa 300 EUCMOS Opatija Croatia EUCMOS August 31st September 5th 2008
AYDEMİR S.
"XXIX European Congress on Molecular Spectroscopy, 31 August - 05 September 2008
- XXI. **S Aydemir M Duran E Taşal H Berber C Öğretir M S Kilickaya Eucmos XXIX European Congress on Molecular Spectroscopy konferansı dahilinde XXIX European Congress on Molecular Spectroscopy Book of Abstracts bildiri kitapçığındaki Ab initio Calculations of pKa values for some 6 Methyl 2 Pyridine Carboxaldehyde derivatives** başlıklı bildiri Sayfa 299 Opatija Croatia EUCMOS August 31st September 5th 2008
AYDEMİR S.
XXIX European Congress on Molecular Spectroscopy, 31 August - 05 September 2008
- XXII. **S Aydemir M Duran E Tasal C Öğretir M S Kılıçkaya 9 th International Balkan Workshop On Applied Physics konferansı dahilinde 9 th International Balkan Workshop On Applied Physics konferansı dahilinde 9 th International Balkan Workshop On Applied Physics Book of Abstracts bildiri kitabındaki COMPUTATIONAL DETERMINATION OF pKa VALUES AND COMPARISON OF THEORETICAL APPROACHES** başlıklı bildiri S3 P15 Sayfa 136 7 9th July 2008 Ovidius University Constanta

ROMANIA

AYDEMİR S.

9-th International Balkan Workshop On Applied Physics, 7 - 09 July 2008

- XXIII. S Aydemir M Duran E Tasal C Öğretir M S Kılıçkaya 9 th International Balkan Workshop On Applied Physics konferansı dahilinde 9 th International Balkan Workshop On Applied Physics konferansı dahilinde 9 th International Balkan Workshop On Applied Physics Book of Abstracts bildiri kitabındaki COMPUTATIONAL DETERMINATION OF ACID DISSOCIATION CONSTANTS USING FIRST PRINCIPLES QUANTUM CHEMICAL SIMULATIONS başlıklı bildiri S3 P14 Sayfa 136 7 9th July 2008 Ovidius University Constanta ROMANIA

AYDEMİR S.

9-th International Balkan Workshop On Applied Physics, 7 - 09 July 2008

- XXIV. E Tasal S Aydemir H Berber C Öğretir M S Kılıçkaya Chemical Physics Conference VIII konferansı dahilinde Chemical Physics Conference VIII book of abstracts bildiri kitapçığındaki Computational determination of acidity constants of some 3 acetamidocoumarin derivatives başlıklı bildiri Sayfa 95 24 25 April 2008 Istanbul Technical University Ayazağa Campus Istanbul TURKEY

AYDEMİR S.

Chemical Physics Conference VIII, Turkey, 24 - 25 April 2008

- XXV. E Tasal S Aydemir H Berber C Öğretir M S Kılıçkaya Chemical Physics Conference VIII konferansı dahilinde Chemical Physics Conference VIII bildiri kitapçığındaki Computational determination of acidity constants of some 7 acetoxycoumarin 3 carboxylic acid derivatives başlıklı bildiri Sayfa 94 24 25 April 2008 Istanbul Technical University Ayazağa Campus Istanbul TURKEY

AYDEMİR S.

Chemical Physics Conference VIII, Turkey, 24 - 25 April 2008

- XXVI. E Tasal S Aydemir H Berber C Öğretir M S Kılıçkaya Chemical Physics Conference VIII konferansı dahilinde Chemical Physics Conference VIII bildiri kitapçığındaki Computational determination of acidity constants of some 6 methyl 2 pyridine carboxaldehyde derivatives başlıklı bildiri Sayfa 93 24 25 April 2008 Istanbul Technical University Ayazağa Campus Istanbul TURKEY

AYDEMİR S.

Chemical Physics Conference VIII, Turkey, 24 - 25 April 2008

- XXVII. S Aydemir E Aral 24th International Physics Congress 24 ULUSLARARASI FİZİK KONGRESİ konferansı dahilinde TÜRK FİZİK DERNEĞİ 24 ULUSLARARASI FİZİK KONGRESİ BİLDİRİ ÖZETLERİ KİTABI bildiri kitapçığındaki GÜNEŞ KOLLEKTÖRLERİNDE ENERJİ ABSORPSİYON SİSTEMLERİ BAŞLIKLİ BİLDİRİ Sayfa 352 28 31 Ağustos 2007 İnönü Üniversitesi Malatya

AYDEMİR S.

24. ULUSLARARASI FİZİK KONGRESİ, 28 - 31 August 2007

- XXVIII. E Taşal N Kuş S Aydemir S Kurtaran C Öğretir M S Kılıçkaya 8 ENQF Congress of Physical Chemistry of the Portuguese Chemical Society konferansı dahilinde 8th Congress of Physical Chemistry of the Portuguese Chemical Society Abstract Books bildiri kitapçığındaki THEORETICAL CALCULATIONS OF MOLECULAR STRUCTURE OF 6 METHYL 2 PYRIDINE CARBOXALDEHYDE BAŞLIKLİ BİLDİRİ Sayfa 163 21 22 June 2007 Luso Portugal

AYDEMİR S.

8th Congress of Physical-Chemistry, 21 - 22 June 2007

- XXIX. Theoretical Calculations of Molecular Structure of 6 Methyl 2 Pyridine Carboxaldehyde TAŞAL E., KUŞ N., AYDEMİR S., KURTARAN S., Öğretir C., KILIÇKAYA M. S.

8. Congress of Physical Chemistry of the Portuguese Chemical Society, Luso Portugal, 21 - 22 June 2007

- XXX. M C Baykul N Orhan C Türkmen S Aydemir H Süvüt A Güleç WORLD YEAR of PHYSICS 2005 TURKISH PHYSICAL SOCIETY 23rd INTERNATIONAL PHYSICS CONGRESS konferansı dahilinde 2005 Dünya Fizik yılı 23 Uluslararası Fizik kongresi Özet Kitabı bildiri kitapçığındaki CBD VE SPRAY PYROLYSIS TEKNİKLERİ İLE ÜRETİLEN CdS İNCE FİLMLEİNİN OPTİK ÖZELLİKLERİNİN KARŞILAŞTIRILMASI BAŞLIKLİ BİLDİRİ Sayfa 513 13 16 September 2005 Muğla Üniversitesi Muğla TURKEY

AYDEMİR S.

Supported Projects

Aydemir S., Project Supported by Higher Education Institutions, CH₃NH₃PbI₃-xCl_x Hibrid Organik/İnorganik Perovskit - İnce Filmlerinin Üretimi ve Karakterizasyonu, 2017 - 2018

BOYRAZ S., Project Supported by Higher Education Institutions, Sol-Jel Yöntemi ile Üretilen Al Katkılı ZnO ve CdO İnce Filmlerinin Elektriksel, Optiksel, Yapısal ve Yüzeysel Özelliklerinin İncelenmesi, 2011 - 2014

Aydemir S., Project Supported by Higher Education Institutions, Sol-Jel Yöntemi ile üretilen Al katkılı ZnO ve CdO İnce Filmlerinin elektriksel, optiksel, yapısal ve yüzeysel özelliklerinin İncelenmesi, 2011 - 2013

Metrics

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