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Education Information

Doctorate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (Dr), Turkey 2010 - 2015

Postgraduate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (YI) (Tezli), Turkey 2004 - 2006

Undergraduate, Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Fizik Bölümü, Turkey 2000 - 2004

Dissertations

Doctorate, Ultrasonik kimyasal püskürtme tekniği ile büyütülen katkısız ve bor katkılı ZnO filmlerinin optiksel, elektriksel, yapısal ve yüzeysel özelliklerinin incelenmesi, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (Dr), 2015

Postgraduate, Yüksek sıcaklık üstüniletkenlerinde vorteks bölgesinin özellikleri, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Fizik (YI) (Tezli), 2006

Research Areas

Natural Sciences

Academic Titles / Tasks

Associate Professor, Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ, 2018 - Continues

Research Assistant, Eskisehir Osmangazi University, FEN FAKÜLTESİ, FİZİK BÖLÜMÜ, 2010 - 2018

Courses

Doctorate

KATILARIN OPTİK ÖZELLİKLERİ, Doctorate, 2019 - 2020

Undergraduate

FİZİK II, Undergraduate, 2019 - 2020

PHYSICS I LAB, Undergraduate, 2020 - 2021

TİTREŞİM VE DALGALAR, Undergraduate, 2020 - 2021

PHYSICS II LAB, Undergraduate, 2019 - 2020

FİZİK I, Undergraduate, 2019 - 2020

FİZİK I LAB.(MADEN MÜHENDİSLİĞİ), Undergraduate, 2017 - 2018
Physics I Lab (Makine Mühendisliği II. öğretim), Undergraduate, 2017 - 2018
Physics I Lab (Makine Mühendisliği I. öğretim), Undergraduate, 2017 - 2018
FİZİK I LAB.(JEOLJİ MÜHENDİSLİĞİ), Undergraduate, 2017 - 2018
Physics II Lab ELEKTRİK ELEKTRONİK MÜHENDİSLİĞİ, Undergraduate, 2017 - 2018
FİZİK II LAB.(MADEN MÜHENDİSLİĞİ), Undergraduate, 2017 - 2018
FİZİK II LAB.(JEOLJİ MÜHENDİSLİĞİ), Undergraduate, 2017 - 2018
Fizik II Lab.(Metalurji Malzeme Mühendisliği), Undergraduate, 2016 - 2017
Fizik I Lab. (Metalurji Malzeme Mühendisliği), Undergraduate, 2016 - 2017
Genel Fizik Lab III, Undergraduate, 2016 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Enhanced photocatalytic activity of Er-Ce co-doped ZnO nano-cauliflower structured films deposited by spray pyrolysis**
KARAKAYA S., Kaba L.
Journal of Alloys and Compounds, vol.1022, 2025 (SCI-Expanded)
- II. **Nanoflower-like cerium-doped ZnO photocatalyst deposited by spray pyrolysis for the degradation of methylene blue dye**
KARAKAYA S., Kaba L.
Materials Today Sustainability, vol.27, 2024 (SCI-Expanded)
- III. **Photocatalytic activity of rare earth elements (Gd and ce) co-doped ZnO nanostructured films**
KARAKAYA S., Kaba L.
Ceramics International, vol.50, no.17, pp.30743-30753, 2024 (SCI-Expanded)
- IV. **Effect of fluorine doping on the improvement of electrical and photocatalytic properties of ZnO films**
KARAKAYA S., Kaba L.
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.130, no.3, 2024 (SCI-Expanded)
- V. **Wrinkle type nanostructured of Al-Ce co-doped ZnO thin films for photocatalytic applications**
KARAKAYA S., Kaba L.
Surfaces and Interfaces, vol.44, 2024 (SCI-Expanded)
- VI. **Physical properties of ZnO:B:Ce nanofiber like thin films prepared by ultrasonic spray pyrolysis technique**
Karakaya S., Kurtaran S.
INORGANIC CHEMISTRY COMMUNICATIONS, vol.153, 2023 (SCI-Expanded)
- VII. **Enhancing the photocatalytic performance of ZnO:Gd films produced by spray pyrolysis using methylene blue pollutant**
KARAKAYA S., Kaba L.
Journal of Materials Science: Materials in Electronics, vol.34, no.16, 2023 (SCI-Expanded)
- VIII. **Spectroscopic Ellipsometry Studies of Al Doped ZnO Thin Films Deposited by Ultrasonic Spray Pyrolysis Technique**
KARAKAYA S.
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.13, no.5, pp.677-686, 2018 (SCI-Expanded)
- IX. **Effect of fluorine and boron co-doping on ZnO thin films: structural, luminescence properties and Hall effect measurements**
KARAKAYA S.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.29, no.5, pp.4080-4088, 2018 (SCI-Expanded)
- X. **Boron doped nanostructure ZnO films deposited by ultrasonic spray pyrolysis**
KARAKAYA S., Ozbas O.
APPLIED SURFACE SCIENCE, vol.328, pp.177-182, 2015 (SCI-Expanded)

- XI. **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)
- XII. **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.
OPTİK, vol.126, no.18, pp.1735-1739, 2015 (SCI-Expanded)
- XIII. **The temperature dependence of magnetic penetration depth in superconductors**
KARAKAYA S., Ozbas O., Akarsu M.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.13, pp.807-811, 2011 (SCI-Expanded)
- XIV. **Monte Carlo study of electron transport in zincblende and wurtzite InN**
Akarsu M., KARAKAYA S., Aydogu S., Ozbas O.
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.5, pp.534-537, 2011 (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. **Mg KATKILI ZnO FİMLERİNİN ÜRETİMİ ve KARAKTERİZASYONU**
KARAKAYA S.
Deu Muhendislik Fakültesi Fen ve Muhendislik, vol.19, no.56, pp.500-509, 2017 (Peer-Reviewed Journal)
- III. **Annealing Effect on Structural and Optical Properties of ZnO Films Prepared by Ultrasonic Spray Pyrolysis**
KARAKAYA S.
ANADOLU UNIVERSITY JOURNAL OF SCIENCE AND TECHNOLOGY A - Applied Sciences and Engineering, vol.17, pp.670, 2016 (Peer-Reviewed Journal)
- IV. **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)
- V. **Ultrasonik Kimyasal Püskürtme Tekniğiyle Hazırlanan Nikel Oksit Filmlerinin Karakterizasyonu**
KARAKAYA S., ÖZBAŞ Ö.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.2, no.3, pp.59-61, 2015 (Peer-Reviewed Journal)
- VI. **Preparation and Characterization of Highly Conducting and Transparent ZnO Thin Films by Ultrasonic Spray Pyrolysis**
KARAKAYA S., ÖZBAŞ Ö.
Canadian Journal of Basic and Applied Sciences, vol.3, no.2, 2015 (Peer-Reviewed Journal)
- VII. **Optical and Electrical and Surface Properties of Spray Deposited CdO Thin Films**
KARAKAYA S., ÖZBAŞ Ö.
Usak University Journal of Material Sciences, pp.159-164, 2014 (Peer-Reviewed Journal)
- VIII. **CdS In Filmlerinin Optik Yüzey ve Elektrik Özellikleri Üzerine Isıl Tavlamanın Etkisi**
KARAKAYA S., ÖZBAŞ Ö.
Nevşehir Bilim ve Teknoloji Dergisi, 2014 (Peer-Reviewed Journal)
- IX. **Deposition and Characterization of Zinc Oxide Films**
KARAKAYA S., ÖZBAŞ Ö.
Suleyman Demirel University Journal of Natural and Applied Science, 2013 (Peer-Reviewed Journal)
- X. **Annealing Effects on the Photoluminescence and Optical Properties of In Doped CdS Films**
KARAKAYA S., ÖZBAŞ Ö.
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.17, no.3, pp.55-58, 2013 (Peer-Reviewed)

Journal)

- XI. **Co Katkılı ZnO İnce Filmlerinin Üretimi ve Karakterizasyonu**
GENÇYILMAZ O., KARAKAYA S., ATAY F., AKYÜZ İ.
BAÜ Fen Bil. Enst. Dergisi, vol.14, no.2, pp.15-24, 2012 (Peer-Reviewed Journal)
- XII. **Structural and Optical Properties of Transparent Polycrystalline ZnO Films**
Gençyılmaz O., Karakaya S., Atay F., Özbaş Ö., Akyüz İ.
AIP Conf. Proc., vol.1476, pp.216-220, 2012 (Scopus)
- XIII. **MONTE CARLO SIMULATION OF CARRIER TRANSPORT IN Cd_{1-x}Zn_xTe**
Akarsu M., Karakaya S., Özbaş Ö., Aydoğu H. S.
Journal of Non-Oxide Glasses, vol.3, no.2, pp.67-72, 2011 (ESCI)
- XIV. **PROPERTIES OF VORTEX STATES IN HIGH TEMPERATURE SUPERCONDUCTORS**
KARAKAYA S., AKARSU M., AYDOĞU H. S., ÖZBAŞ Ö.
Dumlupınar Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.23, no.23, pp.1302-3055, 2010 (Peer-Reviewed Journal)

Books

- I. **HIGHLY TRANSPARENT Mn-DOPED ZnO THIN FILMS PREPARED BY ULTRASONIC SPRAY PYROLYSIS**
Karakaya S.
in: New Developments In Science And Mathematics, Prof. Dr., Rahmi Kasımoğulları ve Kaan Manisa, Editor,
Hiperyayın, İstanbul, pp.139-149, 2022
- II. **AN EVALUATION OF THE RELATIONSHIP BETWEEN PHYSICAL PROPERTIES AND PHOTOCATALYTIC PERFORMANCE OF ZnO COATINGS**
Karakaya S.
in: Current Research in Science and Mathematics , Prof. Dr. Hasan AKGÜL, Editor, Gece Kitaplığı Yayınevi, Ankara,
pp.81-100, 2022
- III. **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
- IV. **Mühendislik Öğrencileri için Fizik II Deneyleri Laboratuvar Kitabı**
ALĞIN E., PEKER D., İŞSEVER U. G., KILIÇ G., AŞICI C., ÇETİNKAYA ÇOLAK S., İLİK E., KARAKAYA S., KAYA M.,
KELLEĞÖZ M.
Eskişehir Osmangazi Üniversitesi, Eskişehir, 2018
- V. **Physics II Experiments Laboratory Book For Engineering Students**
Alğın E., Peker D., İşsever U. G., Kılıç G., Aşıcı C., Çetinkaya Çolak S., İlik E., Karakaya S., Kaya M., Kellegöz M.
Eskişehir Osmangazi Üniversitesi, Eskişehir, 2018
- VI. **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
- VII. **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
- VIII. **Mühendislik Öğrencileri İçin Fizik II Deneyleri Laboratuvar Kitabı**
ALĞIN E., PEKER D., İŞSEVER U. G., KILIÇ G., AŞICI C., ÇETİNKAYA ÇOLAK S., İLİK E., KARAKAYA S., KAYA M.,
KELLEĞÖZ M.
Eskişehir Osmangazi Üniversitesi Yayınları, Eskişehir, 2017
- IX. **Mühendislik Öğrencileri için FİZİK II DENEYLERİ LABORATUVAR KİTABI**
ALĞIN E., PEKER D., İŞSEVER U. G., KILIÇ G., AŞICI C., ÇETİNKAYA ÇOLAK S., İLİK E., KARAKAYA S., KAYA M.,

Papers Published in Refereed Scientific Meetings

- I. **Gd-DOPED ZnO FILMS USED IN PHOTOCATALYTIC APPLICATIONS**
KARAKAYA S.
INTERNATIONAL ANTALYA SCIENTIFIC RESEARCH AND INNOVATIVE STUDIES CONGRESS-V, Antalya, Turkey, 26 - 28 July 2023
- II. **Effect of Er and Ce doped ZnO thin films on optical, surface and photocatalytic properties**
KARAKAYA S., KABA L.
EGE 8TH INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, Turkey, 02 June 2023
- III. **EFFECT OF Ce-Al Co-DOPING ON THE SURFACE, ELECTRICAL AND OPTICAL PROPERTIES OF SOL-GEL DERIVED ZNO THIN FILMS**
KARAKAYA S.
EGE 7TH INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, Turkey, 28 - 29 December 2022
- IV. **EFFECT OF HEAT TREATMENT ON THE STRUCTURAL, SURFACE AND OPTICAL PROPERTIES OF SOL-GEL DERIVED ZnO THIN FILMS**
KARAKAYA S.
EGE 7TH INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, İzmir, Turkey, 24 - 25 December 2022
- V. **PHYSICAL PROPERTIES OF LITHIUM DOPED ZnO THIN FILMS DEPOSITED BY ULTRASONIC SPRAY PYROLYSIS TECHNIQUE**
KARAKAYA S.
HAGIA SOPHIA 5. INTERNATIONAL CONFERENCE ON MULTIDISCIPLINARY SCIENTIFIC STUDIES, Turkey, 17 - 19 October 2022
- VI. **Highly transparent Mn-doped ZnO thin films prepared by ultrasonic spray pyrolysis**
KARAKAYA S.
IDUSMAC 2022 International Dumlupınar Science and Mathematics Congress, Turkey, 5 - 07 September 2022
- VII. **Mn katkılı nanoyapılı ZnO ince filmlerinin sentez ve karakterizasyonu**
KARAKAYA S.
Yoğun Madde Fiziği – Ankara Toplantısı, Ankara, Turkey, 24 December 2021
- VIII. **Synthesis And Characterization Of B-Doped Nanostructured ZnO Thin Films**
KARAKAYA S., GENÇYILMAZ O.
ULUSLARARASI MARDİN ARTUKLU MULTİDİSİPLİNER ÇALIŞMALAR KONGRESİ, Mardin, Turkey, 19 - 21 April 2019, pp.6
- IX. **Effect Of pH On The Produced Of Co Doped ZnO Films By Spray Pyrolysis**
GENÇYILMAZ O., KARAKAYA S.
ULUSLARARASI MARDİN ARTUKLU MULTİDİSİPLİNER ÇALIŞMALAR KONGRESİ, Mardin, Turkey, 19 - 21 April 2019, pp.5-6
- X. **Sol-Jel Döndürerek Kaplama Tekniği ile Saydam İletkenZnO İnce Filmlerinin Üretimi ve Karakterizasyonu**
Durmaz D., Koçak B., KARAKAYA S., ATAY F., AKYÜZ İ.
UGHEK 2018, Turkey, 10 - 12 May 2018
- XI. **Highly Transparent and Conducting F-doped ZnO Thin FilmsPrepared by Ultrasonic Spray Pyrolysis**
KARAKAYA S.
Ancon-International Congress on Chemistry and Materials Science, 5 - 07 October 2017
- XII. **Preparation and Characterization of ZnO Nanostructured ThinFilms**
KARAKAYA S.
Ancon-International Congress on Chemistry and Materials Science, 5 - 07 October 2017
- XIII. **A study on the microstructural properties of ZnO Al nanoparticles by Williamson Hall analysis**

- KARAKAYA S.
WITAM 2016, 28 September - 02 October 2016
- XIV. **The influence of Boron Doping with ZnO Nanostructures for Optoelectronic Applications**
KARAKAYA S.
WITAM 2016 2 nd International Congress on the world of technology ana advanced materials, 28 September - 02 October 2016
- XV. **Electrical properties of Ni doped ZnO thin films deposited by spray pyrolysis method**
KARAKAYA S.
WITAM 2016, 28 September - 02 October 2016
- XVI. **Mg Katkılı ZnO Filmlerinin Üretimi ve Karakterizasyonu**
KARAKAYA S.
UGHEK 2016, Turkey, 12 - 13 May 2016
- XVII. **Ultrasonik kimyasal püskürtme ile hazırlanan ZnO filmlerinin yapısal ve optik özellikleri üzerine tavlamanın etkisi**
KARAKAYA S.
ADIM FİZİK GÜNLERİ V, Turkey, 21 - 23 April 2016
- XVIII. **B KATKILI NiO FİMLERİNİN ÜRETİMİ ve KARAKTERİZASYONU**
KARAKAYA S., ÖZBAŞ Ö.
Adım Fizik Günleri IV, Turkey, 28 - 29 May 2015
- XIX. **Ultrasonik Kimyasal Püskürtme Tekniğiyle Hazırlanan Nikel Oksit Filmlerinin Karakterizasyonu**
KARAKAYA S., ÖZBAŞ Ö.
5. Fiziksel Kimya Kongresi, Turkey, 16 - 19 May 2015
- XX. **Farklı pH Değerlerinde Üretilen Co Katkılı ZnO Filmlerinin Optik, Elektrik ve Yüzey Özellikleri**
GENÇYILMAZ O., KARAKAYA S.
5. Fiziksel Kimya Kongresi, Turkey, 16 - 19 May 2015
- XXI. **Optical and Electrical Properties of Spray Deposited CdO Thin Films**
KARAKAYA S., ÖZBAŞ Ö.
7th International Ege Energy Symposium Exhibition, 18 - 20 June 2014
- XXII. **Bor Katkılı ZnO İnce Filmlerinin Üretimi ve Karakterizasyonu**
KARAKAYA S., ÖZBAŞ Ö.
IV. Ulusal Güneş ve Hidrojen Enerjisi Kongresi (UGHEK'2014, Turkey, 22 May - 23 April 2014
- XXIII. **Comparative Studies of B doped ZnO and Al doped ZnO Transparent Conducting Oxide Thin Films**
KARAKAYA S., ÖZBAŞ Ö.
ADIM FİZİK GÜNLERİ III, Turkey, 17 - 18 April 2014
- XXIV. **Effect of Annealing Temperature on the Properties of ZnO films Prepared by Spray Pyrolysis**
KARAKAYA S., ÖZBAŞ Ö.
International Semiconductor Science and Technology Conference, 13 - 15 January 2014
- XXV. **The influence of Al doping on the Structural Electrical and Optical Properties of ZnO Transparent Conducting Films**
KARAKAYA S.
International Semiconductor Science and Technology Conference, İstanbul, Turkey, 13 - 15 January 2014
- XXVI. **Annealing effects on the Photoluminescence and Optical Properties of In Doped CdS Films**
KARAKAYA S., ÖZBAŞ Ö.
7. Ulusal Lüminesans Dozimetri Kongresi, Turkey, 10 - 12 September 2013, vol.1, pp.20-21
- XXVII. **Deposition And Characterization Of Zinc Oxide Films**
KARAKAYA S., ÖZBAŞ Ö.
7. Ulusal Lüminesans Dozimetri Kongresi, Turkey, 10 - 12 September 2013, vol.1, pp.50-51
- XXVIII. **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
- XXIX. **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

- XXX. **Optical, Electrical and Surface Properties of Annealed CdO:Mg Thin Films Prepared by Spray Pyrolysis**
KARAKAYA S., Ozbas O.
3rd International Congress on Advances in Applied Physics and Materials Science, Antalya, Turkey, 24 - 28 April 2013, vol.1569, pp.253-256
- XXXI. **ELECTRICAL OPTICAL AND SURFACE PROPERTIES of Mg DOPED CdO FILMS**
KARAKAYA S., AKYÜZ İ., ATAY F., ÖZBAŞ Ö.
29th International Physical Congress, Turkish Physical Society, 5 - 08 September 2012
- XXXII. **In Katkılı CdS Filmlerinin Optik Elektrik ve Yüzey Özelliklerinin İncelenmesi**
KARAKAYA S., GENÇYILMAZ O., ÖZBAŞ Ö.
III. Fiziksel Kimya Günleri, Turkey, 12 - 15 July 2012, vol.1, pp.49
- XXXIII. **Co Katkılı ZnO İnce Filmlerinin Üretimi ve Karakterizasyonu**
GENÇYILMAZ O., KARAKAYA S., ÖZBAŞ Ö.
III. Fiziksel Kimya Günleri, Turkey, 12 - 15 July 2012, vol.1, pp.48
- XXXIV. **Optical Electrical and Surface Properties of CdS In Thin Films**
KARAKAYA S., ÖZBAŞ Ö.
VIII. Nanoscience and Nanotechnology Congress, 25 - 29 June 2012, vol.1, pp.90
- XXXV. **Synthesis and Characterization of Cadmium Sulfide Thin Films**
KARAKAYA S., ÖZBAŞ Ö.
VIII. Nanoscience and Nanotechnology Congress, 25 - 29 June 2012, vol.2, pp.89
- XXXVI. **Farklı Çözelti Kaynağı Kullanılarak Üretilen CdS Filmlerinin Karakterizasyonu**
GENÇYILMAZ O., KARAKAYA S., ÖZBAŞ Ö., ATAY F., AKYÜZ İ.
III. Ulusal Güneş ve Hidrojen Enerjisi Kongresi, Turkey, 14 - 15 June 2012, vol.1, pp.11
- XXXVII. **Fotovoltaik Güneş Pillerinde Kullanılan CdS In Filmlerinin Özellikleri Üzerine Isıl Tavlama Süresinin Etkisi**
KARAKAYA S., ÖZBAŞ Ö.
III. Ulusal Güneş ve Hidrojen Enerjisi Kongresi, Turkey, 14 - 15 June 2012, vol.1, pp.5
- XXXVIII. **Temperature Dependence of Superconducting Gap and Penetration Depth for MgB2**
KARAKAYA S., Ozbas O.
2nd International Congress on Advances in Applied Physics and Materials Science (APMAS), Antalya, Turkey, 26 - 29 April 2012, vol.1476, pp.285-288
- XXXIX. **Structural and Optical Properties of Transparent Polycrystalline ZnO Films**
Gencyilmaz O., KARAKAYA S., Atay F., Ozbas O., AKYÜZ İ.
2nd International Congress on Advances in Applied Physics and Materials Science (APMAS), Antalya, Turkey, 26 - 29 April 2012, vol.1476, pp.216-220
- XL. **Effect of Annealing Time on the Physical Properties of Ultrasonically Sprayed CdS:In Thin Films**
KARAKAYA S., Gencyilmaz O., Ozbas O.
2nd International Congress on Advances in Applied Physics and Materials Science (APMAS), Antalya, Turkey, 26 - 29 April 2012, vol.1476, pp.212-215
- XLI. **Farklı sıcaklıklarda tavlanan In katkılı CdS filmlerinin fiziksel özelliklerinin incelenmesi**
KARAKAYA S., ÖZBAŞ Ö.
18. Yoğun Madde Fiziği Ankara Toplantısı, Turkey, 25 November 2011
- XLII. **The Effect of In Doping on Some Physical Properties of CdS Films by Spray Pyrolysis**
KARAKAYA S., GENÇYILMAZ O., ÖZBAŞ Ö.
28th International Physical Congress, Turkish Physical Society, 06 September 2011, vol.1, pp.744
- XLIII. **Superconducting Energy Gap of MgB2**
KARAKAYA S., ÖZBAŞ Ö.
28th International Physical Congress, Turkish Physical Society, 6 - 09 September 2011, vol.1, pp.242

- XLIV. **Calculation of Electron Mobility and Effect of Dislocation Scattering in AlN**
AKARSU M., Erol N., KARAKAYA S., AYDOĞU H. S., ÖZBAŞ Ö.
28th International Physical Congress, Turkish Physical Society, 06 September 2011 - 09 November 2009, vol.1, pp.646
- XLV. **Wurtzite ve zincblende kristal yapılarıdaki GaN için elektron iletiminin Monte Carlo yöntemiyle incelenmesi**
AKARSU M., AYDOĞU H. S., KARAKAYA S., ÖZBAŞ Ö.
17. Yoğun Madde Fiziği Ankara Toplantısı, Turkey, 05 November 2010
- XLVI. **Monte Carlo study of Electron Transport in ZincBlende and Wurtzite Indium Nitride**
AKARSU M., KARAKAYA S., AYDOĞU H. S., ÖZBAŞ Ö.
27th International Physical Congress, Turkish Physical Society, 14 - 17 September 2010, vol.1, pp.165
- XLVII. **Monte Carlo Simulation of Carrier Transport in Cd_{1-x}Zn_xTe**
AKARSU M., KARAKAYA S., AYDOĞU H. S., ÖZBAŞ Ö., erol N.
First Turkish solar Energy Conference and Exhibition, Turkey, 29 - 30 April 2010, vol.1, pp.44

Supported Projects

KELLEĞÖZ M., AŞICI C., KARAKAYA S., YORULMAZ U., Project Supported by Higher Education Institutions, Arduino

Kontrollü Mekanik Titreşimli İnce Film Kaplama Cihazı Tasarımı ve Üretimi, 2023 - Continues

KARAKAYA S., KABA L., Project Supported by Higher Education Institutions, Gd Katkılı Nanoyapılı ZnO Filmlerinin Sentezi ve Fotokatalitik Aktivitesi, 2022 - 2024

Karakaya S., Akyüz İ., Atay F., Project Supported by Higher Education Institutions, Enerji ve Çevre Uygulamalarında

Kullanılabilecek ZnO Filmlerinin Özelliklerinin Üretim Sonrası Isıl İşlem Süreçleriyle İyileştirilmesi, 2018 - 2021

ÖZBAŞ Ö., KARAKAYA S., Project Supported by Higher Education Institutions, Ultrasonik Kimyasal Püskürtme Tekniği ile Büyütülen Katkısız ve Bor Katkılı ZnO Filmlerinin Optiksel, Elektriksel, Yapısal ve Yüzeysel Özelliklerinin İncelenmesi, 2013 - 2015

KARAKAYA S., Project Supported by Higher Education Institutions, DOKTORA TIPTA UZMANLIK PROJESİ, 2013 - 2015

Metrics

Publication: 84

Citation (WoS): 67

Citation (Scopus): 77

H-Index (WoS): 5

H-Index (Scopus): 4