

# Prof. Mehmet Hikmet YÜKSELİCİ

## Personal Information

**Email:** yukseli@yildiz.edu.tr

**Web:** <https://avesis.yildiz.edu.tr/yukseli>

## International Researcher IDs

ORCID: 0000-0001-5052-5575

Publons / Web Of Science ResearcherID: A-7986-2016

ScopusID: 6603433206

Yoksis Researcher ID: 2672

## Education Information

Doctorate, Rensselaer Polytechnic Institute, Science, Physics, United States Of America 1992 - 1996

Postgraduate, Rensselaer Polytechnic Institute, Science, Physics, United States Of America 1990 - 1992

Postgraduate, Istanbul Technical University, Fen Edebiyat, Fizik Mühendisliği, Turkey 1986 - 1989

Undergraduate, Istanbul Technical University, Fen Edebiyat, Fizik Mühendisliği, Turkey 1982 - 1986

## Foreign Languages

English, C1 Advanced

## Research Areas

Physics, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Optical Properties, Spectroscopy of Matter, Natural Sciences

## Academic Titles / Tasks

Professor, Yıldız Technical University, Faculty Of Arts & Science, Department Of Physics, 2011 - Continues

Associate Professor, Yıldız Technical University, Faculty Of Arts & Science, Department Of Physics, 2004 - 2011

## Supervised Theses

Yükselici M. H., Growth of ZnO Thin Films by Thermal Evaporation Technique and Investigation of Optical and Structural Properties, Doctorate, D.BULUT(Student), 2019

YÜKSELİCİ M. H., Kontrollü ve açık atmosferde ısıl işlem uygulanması ile cam içinde CdTe nanoyapıların büyütülmesi ve elektronik, doğrusal ve doğrusal olmayan optik özelliklerinin araştırılması, Doctorate, Ç.Allahverdi(Student), 2016

YÜKSELİCİ M. H., Fotokırıcı LiNbO<sub>3</sub>:Fe kristali; Holografik bilgi depolama ve Yüksek sıcaklık optik özellikler, Postgraduate, A.Veysel(Student), 2016

YÜKSELİCİ M. H., İnce zar fotokırıcı polimerlerin biresim çalışması ve optik özellikleri, Postgraduate, D.Bulut(Student), 2016

YÜKSELİCİ M. H., Çözelti içinde büyütme tekniği ile CdS ince filim kaplama oluşturulması; Yapısal ve optiksel özellikler,

Postgraduate, T.Doğan(Student), 2016

YÜKSELİCİ M. H., İnce yaygı CdS ve CdSe yarı-iletkenlerin optik ve yapısal özelliklerinin incelenmesi, Doctorate, A.Aşıkoğlu(Student), 2016

YÜKSELİCİ M. H., Yarı-iletken nanokristal yapılar içeren cam malzemelerin kırılma indislerinin interferometrik yöntemlerle belirlenmesi, Postgraduate, E.Sınır(Student), 2016

YÜKSELİCİ M. H., Sıvı benzenin titreşim kiplerinin ileri optik bileşenler kullanılarak geliştirilen Raman spektroskopisi deney düzeneği ile incelenmesi, Postgraduate, A.Aşıkoğlu(Student), 2016

YÜKSELİCİ M. H., Cam içinde CdTe kuantum noktalarının büyüme kinetiği, Postgraduate, Ç.Allahverdi(Student), 2016

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **An EPR study of point defects in zinc oxide thin films**  
Heydari J. F. M. A., YÜKSELİCİ M. H.  
Materials Research Express, vol.11, no.7, 2024 (SCI-Expanded)
- II. **II-VI Semiconductor Quantum Dots: The Evolution of Color Purity with Structure**  
YÜKSELİCİ M. H., Torun M. K., AŞIKOĞLU BOZKURT A., Alper M. P., Nassar Z. M., Bulut D., Balaban M.  
PROGRESS IN NANOSCALE AND LOW-DIMENSIONAL MATERIALS AND DEVICES, vol.144, pp.181-221, 2022 (SCI-Expanded)
- III. **Reversible DC Electric Field Modification of Optical Properties of CdTe Nanocrystals**  
Ince R., Alper M. P., YÜKSELİCİ M. H.  
PROGRESS IN NANOSCALE AND LOW-DIMENSIONAL MATERIALS AND DEVICES, vol.144, pp.589-606, 2022 (SCI-Expanded)
- IV. **Synthesis, Characterization and Modelling of Colloidal Quantum Dots**  
Karim M. R., Balaban M., Aydın H., Ünlü H., YÜKSELİCİ M. H.  
PROGRESS IN NANOSCALE AND LOW-DIMENSIONAL MATERIALS AND DEVICES, vol.144, pp.117-153, 2022 (SCI-Expanded)
- V. **A structural study of the growth of ZnOx thin films by thermal evaporation in vacuum followed by heat treatment in air**  
Bulut D., Yükselici M. H.  
MATERIALS RESEARCH EXPRESS, vol.6, 2019 (SCI-Expanded)
- VI. **The Effect of Strain and Grain Size on Phonon and Electron Confinements in TiO<sub>2</sub> Thin Films**  
Nassar Z. M., YÜKSELİCİ M. H.  
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, vol.255, no.6, 2018 (SCI-Expanded)
- VII. **Structural and optical properties of CdTe thin film: A detailed investigation using optical absorption, XRD, and Raman spectroscopies**  
NASSAR Z. M., YÜKSELİCİ M. H., Bozkurt A.  
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, vol.253, no.6, pp.1104-1114, 2016 (SCI-Expanded)
- VIII. **Optical properties of iron-doped lithium niobate crystal depending on iron content and temperature**  
YÜKSELİCİ M. H., Bulut D., Omur B., BOZKURT A., Allahverdi C.  
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, vol.251, no.6, pp.1265-1269, 2014 (SCI-Expanded)
- IX. **A detailed examination of the growth of CdSe thin films through structural and optical characterization**  
YÜKSELİCİ M. H., BOZKURT A., Omur B.  
MATERIALS RESEARCH BULLETIN, vol.48, no.7, pp.2442-2449, 2013 (SCI-Expanded)
- X. **Interferometric investigation and simulation of refractive index in glass matrixes containing nanoparticles of varying sizes**  
Feeney M. G., Ince R., YÜKSELİCİ M. H., Allahverdi C.  
APPLIED OPTICS, vol.50, no.19, pp.3259-3267, 2011 (SCI-Expanded)
- XI. **Evolution of the energy band structure in chemical-bath-deposited CdS thin films studied by optical absorption spectroscopy**

- Asikoglu A., Yükselici M. H.  
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.26, 2011 (SCI-Expanded)
- XII. **Zinc incorporation into CdTe quantum dots in glass**  
YÜKSELİCİ M. H., Allahverdi C., Athalin H.  
MATERIALS CHEMISTRY AND PHYSICS, vol.119, pp.218-221, 2010 (SCI-Expanded)
- XIII. **CdS (x) Se<sub>1-x</sub> quantum dots studied through optical absorption, steady-state photoluminescence, and resonant Raman spectroscopies**  
Omur B., ASIKOGLU A., ALLAHVERDI C., YÜKSELİCİ M. H.  
JOURNAL OF MATERIALS SCIENCE, vol.45, no.1, pp.112-117, 2010 (SCI-Expanded)
- XIV. **A vibrational study of liquid benzene through dispersive Raman spectroscopy using advanced optical elements**  
YÜKSELİCİ M. H., Asikoglu A.  
OPTICS AND LASERS IN ENGINEERING, vol.47, pp.842-846, 2009 (SCI-Expanded)
- XV. **The influence of spatial frequency in partial spatial erasure of holographic diffraction gratings within LiNbO<sub>3</sub> : Fe**  
Ince R., Yukselici H., Ince A. T., Tunc A. V.  
OPTICS AND LASERS IN ENGINEERING, vol.46, no.11, pp.842-847, 2008 (SCI-Expanded)
- XVI. **Temperature dependence of absorption band edge of CdTe nanocrystals in glass**  
Allahverdi C., YÜKSELİCİ M. H.  
NEW JOURNAL OF PHYSICS, vol.10, 2008 (SCI-Expanded)
- XVII. **A numerical method for determining refractive index of a glass sample from its implicit transcendental function**  
Ince R., Sinir E., Feeney M., YÜKSELİCİ M. H., Ince A. T.  
OPTICS COMMUNICATIONS, vol.281, no.14, pp.3831-3836, 2008 (SCI-Expanded)
- XVIII. **Time-dependent volume fraction of CdTe quantum dots in glass**  
Allahverdi C., YÜKSELİCİ M. H.  
PHYSICA SCRIPTA, vol.78, no.1, 2008 (SCI-Expanded)
- XIX. **Size-dependent photo-induced shift of the first exciton band in CdTe quantum dots in glass prepared by a two-stage heat-treatment process**  
YÜKSELİCİ M. H., Allahverdi C.  
JOURNAL OF LUMINESCENCE, vol.128, no.3, pp.537-545, 2008 (SCI-Expanded)
- XX. **Crystal diffraction grating in LiNbO<sub>3</sub> : Fe derived from interferometric volume holography**  
Ince R., Yukselici H., Ince A.  
OPTICS AND LASERS IN ENGINEERING, vol.44, no.6, pp.509-519, 2006 (SCI-Expanded)
- XXI. **Temperature shift of the Fe<sup>2+</sup> absorption band in LiNbO<sub>3</sub> : Fe crystal**  
Yukselici M. H., Allahverdi C., Tunc A.  
PHYSICA STATUS SOLIDI B-BASIC RESEARCH, vol.241, no.13, pp.3041-3046, 2004 (SCI-Expanded)
- XXII. **Data storage characteristics of iron doped LiNbO<sub>3</sub> under a 90 degrees geometry two-beam coupling configuration**  
Yukselici M. H., Ince R., Ince A.  
OPTICS AND LASERS IN ENGINEERING, vol.42, no.3, pp.277-287, 2004 (SCI-Expanded)
- XXIII. **Photoluminescence spectroscopy in the study of growth of CdS<sub>x</sub>Se<sub>1-x</sub> nanocrystals in glass**  
Allahverdi C., Yukselici M. H., Turan R., Seyhan A.  
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.19, no.8, pp.1005-1009, 2004 (SCI-Expanded)
- XXIV. **Solid-phase precipitation of CdTe nanoparticles in glass**  
Yukselici M. H., Allahverdi C.  
PHYSICA STATUS SOLIDI B-BASIC RESEARCH, vol.236, no.3, pp.694-701, 2003 (SCI-Expanded)
- XXV. **Growth kinetics of CdSe nanoparticles in glass**  
Yukselici M. H.  
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.14, no.6, pp.1153-1162, 2002 (SCI-Expanded)
- XXVI. **Two different mechanisms of formation of quantum dots in borosilicate glass**

- Yukselici M. H.  
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.13, no.27, pp.6123-6131, 2001 (SCI-Expanded)
- XXVII. **Combining x-ray and optical spectroscopies in the study of dilute semiconductor nanoparticle composites**  
Persans P., Lurio L., Pant J., Yukselici H., Lian G., Hayes T.  
JOURNAL OF APPLIED PHYSICS, vol.87, no.8, pp.3850-3857, 2000 (SCI-Expanded)
- XXVIII. **Stability of CdS nanocrystals in glass**  
Hayes T., Lurio L., Pant J., Persans P., Yukselici H.  
JOURNAL DE PHYSIQUE IV, vol.7, pp.1101-1102, 1997 (SCI-Expanded)
- XXIX. **Homogeneous nucleation of CdS nanocrystals in glass**  
Persans P., Yukselici H., Lurio L., Pant J., Stapleton M., Hayes T.  
Journal of Non-Crystalline Solids, vol.203, pp.192-194, 1996 (SCI-Expanded)
- XXX. **High temperature optical properties of CdS crystals in borosilicate glass**  
Yukselici H., Persans P.  
Journal of Non-Crystalline Solids, vol.203, pp.206-210, 1996 (SCI-Expanded)
- XXXI. **OPTICAL STUDIES OF THE GROWTH OF CD1-XZNXS NANOCRYSTALS IN BOROSILICATE GLASS**  
YUKSELICI H., PERSANS P., HAYES T.  
PHYSICAL REVIEW B, vol.52, no.16, pp.11763-11772, 1995 (SCI-Expanded)
- XXXII. **XAS study of CdS nanocrystals formed in glass**  
Hayes T., Lurio L., Olsson R., Pant J., Yukselici H., Persans P.  
Physica B: Physics of Condensed Matter, pp.585-586, 1995 (SCI-Expanded)
- XXXIII. **OBSERVATION OF 3 ELECTRONIC-TRANSITIONS IN CD(S,SE) NANOCRYSTALS BY MODULATION SPECTROSCOPY**  
STOKES K., YUKSELICI H., PERSANS P.  
SOLID STATE COMMUNICATIONS, vol.92, no.3, pp.195-201, 1994 (SCI-Expanded)
- XXXIV. **Size effect in II-VI semiconductor nanocrystals**  
Silvestri M., Mei G., Lu E., YÜKSELİCİ M. H., Schroeder J.  
BRAZILIAN JOURNAL OF PHYSICS, vol.23, 1993 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Optical and Structural Properties of Quantum Dots**  
YÜKSELİCİ M. H., BOZKURT A., Allahverdi C., Nassar Z., Bulut D., Omur B. C., Torun M. K., Ince A. T.  
LOW-DIMENSIONAL AND NANOSTRUCTURED MATERIALS AND DEVICES: PROPERTIES, SYNTHESIS, CHARACTERIZATION, MODELLING AND APPLICATIONS, pp.327-350, 2016 (Scopus)

## Books

- I. **Holografi**  
Demirbilek R., YÜKSELİCİ M. H.  
Favori Basım Ve Matbaa, İstanbul, 2017
- II. **Optical and Structural Properties of Quantum Dots**  
YÜKSELİCİ M. H., AŞIKOĞLU BOZKURT A., Allahverdi Ç., BULUT D., CAN ÖMÜR B., NASSAR Z. M., Torun M. K., INCE A.  
in: Low-Dimensional and Nanostructured Materials and Devices, Unlu H., Horing N., Dabrowski J., Editor, Springer-Verlag, Berlin, pp.327-350, 2016
- III. **Optical and Structural Properties of Quantum Dots**  
YÜKSELİCİ M. H., AŞIKOĞLU BOZKURT A., ALLAHVERDİ Ç., NASSAR Z., BULUT D., CAN ÖMÜR B., TORUN M. K., İNCE A. T.  
in: Low Dimensional and Nanostructured Materials and Devices, H. Ünlü, Norman J. M. Horing, Jaroslaw Dabowski,

Editor, Springer International Publishing, pp.327-350, 2015

**IV. Optical Studies of Semiconductor Quantum Dots**

YÜKSELİCİ M. H., Allahverdi Ç., AŞIKOĞLU BOZKURT A., Ünlü H., Baysal A., Çulha M., INCE R., INCE A., FEENEY M., ATHALIN H.

in: Low Dimensional Semiconductor Structures, Unlu H., Horing N., Editor, Springer-Verlag , Berlin, pp.101-117, 2012

**V. Aynalar ve optik aletler**

YÜKSELİCİ M. H.

in: Temel Fizik Deneyleri 3 Optik, Ören D., Çingı E., Editor, Ytü, İstanbul, pp.40-50, 2000

## **Papers Published in Refereed Scientific Meetings**

- I. **An Urbach study of the degree of structural disorder in CdTe nanocrystals in glass matrix**  
Ince A., Torun M., YÜKSELİCİ M. H.  
International Conference on Oxide Materials for Electronic Engineering, OMEE 2012, Lviv, Ukraine, 3 - 07 September 2012, pp.73-74
- II. **Optical and structural properties of II-VI semiconductor nano-crystallites**  
Aşıkoğlu Bozkurt A., Yükselici M. H.  
Thirteenth Ukrainian Polish Symposium on Theoretical and Experimental Studies of Interface Phenomena and their Technological Applications, Kyiv, Ukraine, 11 October 2012, pp.152
- III. **Urbach study of thin film CdTe deposited on glass by thermal evaporation**  
Aşıkoğlu Bozkurt A., Yükselici M. H.  
Thirteenth Ukrainian Polish Symposium on Theoretical and Experimental Studies of Interface Phenomena and their Technological Applications, Kyiv, Ukraine, 11 October 2012, pp.3
- IV. **Thirteenth Ukrainian Polish Symposium on Theoretical and Experimental Studies of Interface Phenomena and their Technological Applications**  
YÜKSELİCİ M. H., AŞIKOĞLU BOZKURT A.  
Optical and structural properties of II-VI semiconductor nano-crystallites, 11 - 14 September 2012
- V. **The effect of high temperature heat treatment on the directional homogeneity of LiNbO<sub>3</sub> crystal studied through transmission ellipsometry**  
AŞIKOĞLU BOZKURT A., YÜKSELİCİ M. H., BULUT D., SUGAK D., I S., I S., YA Z., S U., O B.  
International Conference on Oxide Materials for Electronic Engineering OMEE, 3 - 07 September 2012
- VI. **The Dependence of Optical Properties of LiNbO<sub>3</sub> Crystal on the Impurity Content Studied Toward the Advancement of Volume Holographic Data Storage Technology**  
YÜKSELİCİ M. H., Asikoglu Bozkurt A., Bulut D., Solskii I., Syvorotka I., Zhydachevskii Y., Ubizskii S., Buryy O.  
Oxide Materials for Electronic Engineering, Lviv, Ukraine, 03 September 2012, pp.73-74
- VII. **CdTe nanocrystals studied through in situ electro modulation spectroscopy**  
İnce S. R., Patan Alper F. M., Yükselici M. H., Aşıkoğlu Bozkurt A., Allahverdi Ç.  
International Conference on Oxide Materials for Electronic Engineering OMEE, Lviv, Ukraine, 2 - 07 September 2012
- VIII. **The Effect of High Temperature Heat Treatment on the Directional Homogeneity of LiNbO<sub>3</sub> Crystal Studied through Transmission Ellipsometry**  
YÜKSELİCİ M. H., Bulut D., Sugak D., Solskii I., Syvorotka I., Zhydachevskii Y., Ubizskii S., Buryy O.  
Oxide Materials for Electronic Engineering, 01 September 2012
- IX. **CdTe nanocrystals studied through in-situ electro-modulation spectroscopy**  
Alper F., YÜKSELİCİ M. H., Asikoglu Bozkurt A., Allahverdi C.  
International Conference on Oxide Materials for Electronic Engineering, 01 September 2012
- X. **NONLINEAR OPTICAL PROPERTIES OF CHEMICAL BATH DEPOSITED CdS**  
AŞIKOĞLU BOZKURT A., YÜKSELİCİ M. H.  
5th International Workshop on Surface Physics, Wroclaw, Poland, 02 October 2011, pp.3

- XI. **Akışkan İçinde CdSe Kuantum Noktalarının Optik Özellikleri**  
AŞIKOĞLU BOZKURT A., YÜKSELİCİ M. H.  
Türk Fizik Derneği 28. Uluslararası Fizik Kongresi, 5 - 09 September 2011
- XII. **Structural and Optical Properties of Thin Film CdTe Studied Thorough XRD SEM and Optical Transmission Measurement**  
YÜKSELİCİ M. H., AŞIKOĞLU BOZKURT A., CAN ÖMÜR B.  
Türk Fizik Derneği 28. Uluslararası Fizik Kongresi, 5 - 09 September 2011
- XIII. **A study of Urbach tail in chemical bath deposited CdS thin films**  
YÜKSELİCİ M. H., Asikoglu Bozkurt A.  
5th International Workshop on Surface Physics, Wroclawsky, Poland, 02 September 2011, pp.1
- XIV. **A Study of Urbach Tail in Chemical Bath Deposited CdS Thin Films**  
YÜKSELİCİ M. H., AŞIKOĞLU BOZKURT A.  
5th International Workshop on Surface Physics, IWSP, 2 - 05 September 2011
- XV. **Nonlinear Optical Properties of Chemical Bath Deposited CdS**  
AŞIKOĞLU BOZKURT A., YÜKSELİCİ M. H.  
5th International Workshop on Surface Physics, IWSP, 2 - 05 September 2011
- XVI. **Optimization of the Properties of LiNbO<sub>3</sub> crystal by high temperature heat treatment**  
BULUT D., YÜKSELİCİ M. H., AŞIKOĞLU BOZKURT A., Sugak D. Y., Syvorotka I., Kret T., Solskii I.  
XI. International Symposium on "Disorder Systems: Theory and Its Applications, İzmir, Turkey, 23 August 2011, pp.12
- XVII. **Size Dependent Charge Transport Mechanism in CdSe Thin Films**  
Serin M., Aşikoğlu Bozkurt A., Yükselici M. H.  
7th General Conference of The Balkan Physical Union, Alexandroupoli, Greece, 9 - 13 September 2009, pp.180
- XVIII. **A simulation of Raman Spectrum for Solid Aspirin**  
Can Ömür B., Aşikoğlu Bozkurt A., Yükselici M. H.  
7th General Conference of The Balkan Physical Union, Alexandroupoli, Greece, 09 September 2009, pp.1
- XIX. **A Simulation of Raman Spectrum For Solid Aspirin**  
Can Ömür B., Aşikoğlu Bozkurt A., Yükselici M. H.  
7th General Conference of The Balkan Physical Union, Alexandroupoli, Greece, 24 - 28 August 2009
- XX. **Photoluminescence Properties of Cd<sub>x</sub>Zn<sub>1-x</sub>Te Quantum dots in Glass**  
Allahverdi Ç., ATHALIN H., Lefrant S., YÜKSELİCİ M. H.  
International Conference on Nanomaterials and Nanomaterials and Nanosystems, İstanbul, Turkey, 10 August 2009, pp.1
- XXI. **Optical Studies of Semiconductor Quantum Dots**  
Yükselici M. H., Allahverdi Ç., Aşikoğlu Bozkurt A., Ünlü H., Baysal A., Çulha M., İnce S. R., İnce A. T., M F., H A.  
4. Nanobilim ve Nanoteknoloji Konferans, İstanbul, Turkey, 9 - 13 June 2008
- XXII. **Su İçinde Eritilmiş ve Katı Aspirin in Moleküler Titreşim Kiplerinin Raman Spektroskopisi ile Ölçülmesi ve Sonuçların Mekanik Bir Model Yardımı ile Değerlendirilmesi**  
CAN ÖMÜR B., AŞIKOĞLU BOZKURT A., YÜKSELİCİ M. H.  
Türk Fizik Derneği 24. Uluslararası Fizik Kongresi, 28 - 31 August 2007
- XXIII. **Sıvı Benzenin Titreşim Kiplerinin İleri Optik Bileşenler Kullanılarak Geliştirilen Raman Spektroskopisi Deney Düzenegi ile İncelenmesi**  
Aşikoğlu Bozkurt A., Yükselici M. H.  
Sıvı Benzenin Titreşim Kiplerinin İleri Optik Bileşenler Kullanılarak Geliştirilen Raman Spektroskopisi Deney Düzenegi ile İncelenmesi, Malatya, Turkey, 28 August 2007, pp.314
- XXIV. **Sıvı Benzenin Titreşim Kiplerinin İleri Optik Bileşenler Kullanılarak Geliştirilen Raman Spektroskopisi Deney Düzenegi le İncelenmesi**  
AŞIKOĞLU BOZKURT A., YÜKSELİCİ M. H.  
Türk Fizik Derneği 24. Uluslararası Fizik Kongresi, 28 - 31 August 2007
- XXV. **Optical studies of cadmium telluride quantum dots grown in glass**  
Allahverdi C., Yuekselici M. H.

6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.429-430

**XXVI. Quantum Size effect in CdTe Nanocrystals in Glass**

YÜKSELİCİ M. H., Allahverdi Ç.

NANOMAT 2006, Antalya, Turkey, 21 June 2006, pp.1

**XXVII. Optical and Thermodynamic Properties of CdTe Nanoparticles in Glass**

ALLAHVERDİ C., YÜKSELİCİ M. H.

5th International Chemical Physics Conference, İstanbul, Turkey, 31 October 2002, pp.1

**XXVIII. X-RAY ABSORPTION SPECTROSCOPY AND OPTICAL ABSORPTION STUDIES OF THE GROWTH OF CDS NANOCRYSTALS IN GLASS**

Lurio L., Pant J., Olsson R., YÜKSELİCİ M. H., Hayes T.

Symposium F: Microcrystalline and Nanocrystalline Semiconductors, at the 1994 Fall Meeting of the Materials-Research-Society, Boston, United States Of America, 29 November 1994, vol.358, pp.225-228

**XXIX. Electromodulation Spectra of CdS<sub>2</sub> Nanocrystals**

PERSANS P., Mei G., Wagoner G., YÜKSELİCİ M. H.

Materials Research Society Fall Meeting 1992, Boston, United States Of America, 30 November 1992, pp.1

## Other Publications

**I. Sears ve Zemansky'nin Üniversite Fiziği Cilt I**

Giz A., Postacıoğlu N., YÜKSELİCİ M. H.

Other, pp.1-682, 2016

## Supported Projects

YÜKSELİCİ M. H., AKTAŞ Ş., HEYDARI J., ÜNLÜ H., sukuti s. s., Project Supported by Higher Education Institutions, Nanoçinko oksidin kusur yapısının fotokatalitik uygulamalar için en uygun duruma getirilmesi, 2023 - 2024

YÜKSELİCİ M. H., BULUT D., Project Supported by Higher Education Institutions, İnce yaygı ZnO in ısı buharlaştırma yöntemi ile büyütülmesi ve yapısal ve optik özelliklerinin araştırılması, 2014 - 2020

ÇELİKBİLEK ERSUNDU M., YÜKSELİCİ M. H., ERSUNDU A. E., Project Supported by Higher Education Institutions, II-VI Kuantum Noktaların Soda-Kireç ve Boro-Silikat Camlarda Kontrollü Kristalizasyonu ve Kuantum Kısıtlama Özelliklerinin İncelenmesi, 2017 - 2019

CAN ÖMÜR B., YÜKSELİCİ M. H., ÖZKAN ZAYİM E., Project Supported by Higher Education Institutions, İNCE FİLM ÜÇLÜ CdSexS1-x YARI-İLETKENLERİN BÜYÜTÜLMESİ VE OPTİK VE YAPISAL ÖZELLİKLERİNİN BİLEŞİME BAĞLI OLARAK ARAŞTIRILMASI, 2016 - 2019

ERSUNDU A. E., KIBRISLI O., YÜKSELİCİ M. H., ÇELİKBİLEK ERSUNDU M., Project Supported by Higher Education Institutions, Işığa Duyarlı Camlarda Bragg Izgaraların Oluşturulması ve Karakterizasyonu, 2017 - 2018

YÜKSELİCİ M. H., AŞIKOĞLU BOZKURT A., Project Supported by Higher Education Institutions, Hacimsel holografik veri depolama teknolojisinin ilerletilmesi doğrultusunda LiNbO<sub>3</sub>:Fe kristalinin optik özelliklerinin demir katkısı miktarına bağlı olarak değişiminin araştırılması, 2012 - 2017

YÜKSELİCİ M. H., AŞIKOĞLU BOZKURT A., Project Supported by Higher Education Institutions, İnce film titanyum diyoksit içinde büyütülen CdTe yarı-iletken nano-kristallerin düşük sıcaklık foto-lüminesans özelliklerinin araştırılması, 2012 - 2016

YÜKSELİCİ M. H., AŞIKOĞLU BOZKURT A., Project Supported by Higher Education Institutions, İnce Yaygı Cds ve Cdse yarı iletkenlerin optik ve yapısal özelliklerinin incelenmesi, 2011 - 2013

AŞIKOĞLU BOZKURT A., YÜKSELİCİ M. H., TUBITAK Project, OPTO-ELEKTRONİK UYGULAMALARDA KULLANILMAK ÜZERE SAF VE KATKILI LİTYUM NİYOBAT KRİSTALİNİN ÖZELLİKLERİNİN ISIL VE KİMYASAL İSLEMLERLE GELİSTİRİLMESİ, 2010 - 2013

YÜKSELİCİ M. H., Project Supported by Higher Education Institutions, İnce film fotokırıcı organik malzemelerin optik

özelliklerinin incelenmesi, 2009 - 2010

YÜKSELİCİ M. H., TUBITAK Project, Biyouyumlu nanoyapı yarıiletkenlerin analizi ve tasarımı, 2006 - 2010

AYDIN M., KARACA BALTA D., DOĞRUYOL S., YÜKSELİCİ M. H., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı)

Projesi, Fotokırıcı polimerlerde holografik bilgi depolama teknolojisini geliştirilmesi, 2006 - 2010

ÇAKIR KOÇ R., ELALMIŞ Y., KILINÇ Y., KIZILBEY K., MANSUROĞLU B., DOĞRUYOL S., ALTIKATOĞLU YAPAÖZ M.,

MOLLAOĞLU ALTUNER H., DERMAN S., YÜKSELİCİ M. H., et al., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı)

Projesi, Biyomedikal Malzemeler ve Yapay Dokular, 2005 - 2010

YÜKSELİCİ M. H., Other International Funding Programs, Raman saçılması ile nanokristallerin yapısının araştırılması,

2004 - 2007

YÜKSELİCİ M. H., TUBITAK Project, Raman saçılması ile nanoyapı karakterizasyonu, 2004 - 2005

YÜKSELİCİ M. H., Project Supported by Higher Education Institutions, Fotonik Bilgi Depolama, 2000 - 2004

YÜKSELİCİ M. H., Project Supported by Higher Education Institutions, Kuantum Noktalarının Optik Yöntemlerle

İncelenmesi, 2000 - 2002

## Activities in Scientific Journals

Sigma Mühendislik ve Fen Bilimleri Dergisi, Editor, 2001 - 2017

## Peer Reviews in Scientific Publications

Journal of Luminescence, SCI Journal, May 2011

Journal of Physics and Chemistry of Solids, SCI Journal, May 2011

Journal of Optics, SCI Journal, February 2011

Physica Scripta, SCI Journal, October 2010

## Metrics

Publication: 72

Citation (WoS): 393

Citation (Scopus): 395

H-Index (WoS): 11

H-Index (Scopus): 12

## Non Academic Experience

Rensselaer Polytechnic Institute, MEB Resmi Burslu Öğrenci

KFA, Araştırmacı