

## Assoc. Prof. Süreyya AYDIN YÜKSEL

### Personal Information

**Office Phone:** [+90 212 383 4266](tel:+902123834266)

**Fax Phone:** [+90 222 222 2222](tel:+902222222222)

**Email:** [suaydin@yildiz.edu.tr](mailto:suaydin@yildiz.edu.tr)

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

**Address:** Yıldız Teknik Üniversitesi Fen-edebiyat Fakültesi Fizik Bölümü Davutpaşa Yerleşkesi 34210 Esenler/İST

### International Researcher IDs

ScholarID: NtnJjPkAAAAJ

ORCID: 0000-0002-2385-5509

ScopusID: 24329036000

Yoksis Researcher ID: 47983

### Education Information

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2004 - 2010

Postgraduate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2001 - 2004

Undergraduate, Yıldız Technical University, Faculty Of Arts & Science, Department Of Physics, Turkey 1995 - 2000

### Dissertations

Doctorate, Gözenekli silisyum tabanlı sensörlerin hazırlanması ve incelenmesi, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, 2010

Postgraduate, Gözenekli silisyum filmlerin optik özellikleri, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, 2004

### Research Areas

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

### Academic Titles / Tasks

Associate Professor, Yıldız Technical University, Fen Edebiyat Fakültesi, Fizik, 2017 - Continues

### Courses

Physics of Semiconductors, Undergraduate, 2018 - 2019

X-rays, Undergraduate, 2018 - 2019

Physics-2, Undergraduate, 2018 - 2019

Physics-1, Undergraduate, 2017 - 2018

Solid state Physics-1, Undergraduate, 2018 - 2019

Physics-1, Undergraduate, 2017 - 2018

## Advising Theses

Aydin Yüksel S., Farklı alkoller kullanılarak üretilen gözenekli silisyum yapının gözenekli silisyum tabanlı yakıt pillerinin verimine etkisinin incelenmesi, Postgraduate, S.BERKAY(Student), 2022

AYDIN YÜKSEL S., Etanol ve diğer alkoller ile yıkamanın Gözenekli Silisyum tabanlı Yakıt pillerinin verimine etkisinin incelenmesi, Postgraduate, F.Dilara(Student), 2017

## Jury Memberships

Post Graduate, Post Graduate, İstanbul Üniversitesi, March, 2021

Post Graduate, Post Graduate, Kocaeli Üniversitesi, June, 2017

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

- I. **The effect of zinc and sodium borate doping on the structural, morphological, optical, electrical and electrochemical properties of PEDOT:PSS thin film electrodes for flexible and transparent supercapacitor applications**  
YAĞCI Ö., ARVAS M. B., AYDIN YÜKSEL S.  
New Journal of Chemistry, vol.48, no.9, pp.4096-4108, 2024 (SCI-Expanded)
- II. **Ultrasonic-assisted Co-precipitation synthesis of CoAl<sub>2</sub>O<sub>4</sub> with different capping agents: Determination of electrical and optical features**  
AYDIN YÜKSEL S., GÜL E. M., SENBERBER DUMANLI F. T., DERUN E.  
Materials Chemistry and Physics, vol.313, 2024 (SCI-Expanded)
- III. **The effect of boron doping on the optical, morphological and structural properties of Cu<sub>3</sub>SbS<sub>3</sub> thin films prepared via spin coating**  
Yağci Ö., Aydın Yüksel S., Bozkurt K., Altındal A.  
NEW JOURNAL OF CHEMISTRY, 2023 (SCI-Expanded)
- IV. **Characteristic, electrical and optical properties of potassium borate (KB<sub>5</sub>O<sub>8</sub> center dot 4H<sub>2</sub>O) hydrothermally synthesized from different boron sources**  
Dumanli F. T. S., Ozen M. Y., Asensio M. O., Yuksel S. A., KIPÇAK A. S., Derun E.  
RESEARCH ON CHEMICAL INTERMEDIATES, vol.47, no.12, pp.5353-5368, 2021 (SCI-Expanded)
- V. **In-situ photochemical synthesis and dielectric properties of nanocomposite thin films containing Au, Ag and MnO nanoparticles**  
Mutlu S., Metin E., Yuksel S. A., Bayrak U., NUHOĞLU Ç., ARSU N.  
EUROPEAN POLYMER JOURNAL, vol.144, 2021 (SCI-Expanded)
- VI. **Influences of CdSe NCs on the photovoltaic parameters of BHJ organic solar cells**  
ONGÜL F., AYDIN YÜKSEL S., Allahverdi C., Bozar S., KAZİCİ M., GÜNEŞ S.  
Spectrochimica Acta Part A-Molecular And Biomolecular Spectroscopy, vol.194, pp.50-56, 2018 (SCI-Expanded)
- VII. **Lanthanum borate synthesis via the solid-state method from a La<sub>2</sub>O<sub>3</sub> precursor: Electrical and optical properties**  
Sari S., SENBERBER F. T., Yildirim M., KIPÇAK A. S., Yuksel S., Derun E.  
MATERIALS CHEMISTRY AND PHYSICS, vol.200, pp.196-203, 2017 (SCI-Expanded)
- VIII. **Elucidation of the pore size and temperature dependence of the oxygen diffusion into porous silicon**  
Gelir A., Yargı Ö., Yuksel S.  
THIN SOLID FILMS, vol.636, pp.602-607, 2017 (SCI-Expanded)
- IX. **Effects of different formulation PEDOT:PSS hole transport layers on photovoltaic performance of organic solar cells**  
Ongul F., YUKSEL S., Kazici M., BOZAR S., GUNBATTI A., GÜNEŞ S.  
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.28, no.8, pp.947-951, 2017 (SCI-Expanded)

- X. **Inverted Polymer Solar Cells Using CdS Thin Film Grown by Successive Ionic Layer Adsorption and Reaction Method as Electron Transport Layer**  
Selcuk M. Z., Ongül F., Boroglu M. S., Boz I., Yuksel S.  
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.12, no.7, pp.642-650, 2017 (SCI-Expanded)
- XI. **Effect of boric acid doped PEDOT:PSS layer on the performance of P3HT: PCBM based organic solar cells**  
YAĞCI Ö., YEŞİLKAYA S. S., Yuksel S., Ongul F., VARAL N. M., KUS M., GÜNEŞ S., İÇELLİ O.  
SYNTHETIC METALS, vol.212, pp.12-18, 2016 (SCI-Expanded)
- XII. **The Characterization and Physical Properties of Hydrated Zinc Borates Synthesized from Sodium Borates**  
Kipcak A. S., ŞENBERBER F. T., YILDIRIM M., AYDIN YÜKSEL S., DERUN E., TUĞRUL N.  
Main Group Chemistry, vol.39, pp.59-66, 2016 (SCI-Expanded)
- XIII. **Theoretical and Experimental Investigations of 2,4-dichlorophenyl-3,5-bis(cyano-2-phenylethenyl)furan Acrylonitrile Molecule as a Potential Acceptor in Organic Solar Cells**  
KAZIÇI M., Bozar S., AYDIN YÜKSEL S., Ongül F., Gökçe H., GÜNEŞ S., YÖRÜR GÖRECİ Ç.  
Nanotechnology, vol.27, 2016 (SCI-Expanded)
- XIV. **Synthesis of dehydrated zinc borates using the solid-state method: Characterization and investigation of the physical properties**  
KIPÇAK A. S., ACARALI N., SENBERBER F. T., Yildirim M., KOC S. N. T., Yuksel S., PIŞKİN M. B., Derun E., TUĞRUL N.  
MAIN GROUP CHEMISTRY, vol.15, no.4, pp.301-313, 2016 (SCI-Expanded)
- XV. **Influences of annealing temperature and thickness on ZnS buffer layers for inverted hybrid solar cells**  
Ongul F., Ulutaş Ü., Aydın Yüksel S., Yeşilkaya S. S., Güneş S.  
Synthetic Metals, vol.220, pp.1-7, 2016 (SCI-Expanded)
- XVI. **Synthesis, characterisation, electrical and optical properties of copper borate compounds**  
KIPÇAK A. S., SENBERBER F. T., Yuksel S. A., Derun E., Piskin S.  
MATERIALS RESEARCH BULLETIN, vol.70, pp.442-448, 2015 (SCI-Expanded)
- XVII. **Improvement of Photovoltaic Performance and Stability of AnE PV PCBM Based Organic Solar Cells Using Solution Processed Inverted Geometry**  
AYDIN YÜKSEL S., Ongül F., Sinem B., VARAL N. M., KUŞ M., Gülbeden Ç., GÜNEY H. Y., Daniel Ayuk Mbi E., GÜNEŞ S.  
Vacuum, vol.122, pp.161-167, 2015 (SCI-Expanded)
- XVIII. **The effect of functionalized single walled carbon nanotube with octadecylamine on efficiency of poly-(3-hexylthiophene): [(6,6)] phenyl C61 butyric acid methyl ester organic solar cells**  
Çakmak G., Güney H. Y., Yuksel S., GÜNEŞ S.  
Physica B: Condensed Matter, vol.461, pp.85-91, 2015 (SCI-Expanded)
- XIX. **Magnesium Type Boracite Synthesis Characterization Electrical And Optical Properties**  
tuba İ., Kipcak A. S., AYDIN YÜKSEL S., DERUN E., Piskin S.  
Turkish Journal Of Chemistry, pp.1-13, 2015 (SCI-Expanded)
- XX. **The characterisation of mcallisterite synthesised from bischofite via the hydrothermal method**  
GURSES P., Yildirim M., KIPÇAK A. S., Yuksel S., Derun E., Piskin S.  
MAIN GROUP CHEMISTRY, vol.14, no.3, pp.199-213, 2015 (SCI-Expanded)
- XXI. **Synthesis, characterization, and electrical and optical properties of magnesium-type boracite**  
IBROSKA T., KIPÇAK A. S., AYDIN YÜKSEL S., DERUN E., Piskin S.  
TURKISH JOURNAL OF CHEMISTRY, vol.39, no.5, pp.1025-1037, 2015 (SCI-Expanded)
- XXII. **Synthesis Characterization Electrical And Optical Properties Of Copper Borate Compounds**  
Kipcak A. S., Senberber F. T., AYDIN YÜKSEL S., DERUN E., Piskin S.  
Materials research bulletin, vol.70, pp.442-448, 2015 (SCI-Expanded)
- XXIII. **The Effect of Functionalized Single Wall Carbon Nanotube with Octadecylamine on Efficiency of Poly 3 hexyl thiophene 6 6 phenyl C61 Butyric Methyl Ester Organic Solar Cells**  
ÇAKMAK G., AYDIN YÜKSEL S., GÜNEY H. Y., GÜNEŞ S.  
Physica B: Condensed Matter, 2015 (SCI-Expanded)

- XXIV. **The Synthesis and Physical Properties of Magnesium Borate Mineral of Admontite Synthesized from Sodium Borates**  
KIPÇAK A. S., Yildirim M., Yuksel S. A., Derun E., Piskin S.  
ADVANCES IN MATERIALS SCIENCE AND ENGINEERING, 2014 (SCI-Expanded)
- XXV. **Resistivity, ESR, and Radiation Shielding Properties of the Volcanic Rock Materials**  
Nuhoglu Ç., Tapan M., Okutan M., Aydin S., Yalçın Z., İçelli O., Kavanoz H. B., Orak S.  
ADVANCES IN CONDENSED MATTER PHYSICS, 2014 (SCI-Expanded)
- XXVI. **Inverted Structure Hybrid Solar Cells Using CdS Thin Films**  
YAVUZ N., KARSLI A., AYDIN YÜKSEL S., GÜNEŞ S.  
Solar Energy Materials And Solar Cells, vol.116, pp.224, 2013 (SCI-Expanded)
- XXVII. **Hybrid Solar Cells Using CdS Films Deposited via Spray Pyrolysis Technique**  
AYDIN YÜKSEL S., GÜNEŞ S., GÜNEY H. Y.  
Thin Solid Films, vol.540, pp.242, 2013 (SCI-Expanded)
- XXVIII. **Structural and Optical Characterization of TiO<sub>2</sub> Thin Films Prepared by Sol Gel Process**  
KARABAY I., AYDIN YÜKSEL S., ONGÜL F., ÖZTÜRK S., ASLI M.  
Acta Physica Polonica A, vol.121, pp.265, 2012 (SCI-Expanded)
- XXIX. **Effect of nanoporous silicon coating on silicon solar cell performance**  
DZHAFAROV T., ASLANOV S., RAGIMOV S., SADIGOV M., AYDIN YÜKSEL S.  
Vacuum, 2012 (SCI-Expanded)
- XXX. **Porous Silicon based Direct Hydrogen Sulphide Fuel Cells**  
DZHAFAROV T., AYDIN YÜKSEL S.  
Journal Of Nanoscience And Nanotechnology, vol.11, pp.9012, 2011 (SCI-Expanded)
- XXXI. **Effect of indium diffusion on characteristics of CdS films and nCdS pSi heterojunctions**  
DZHAFAROV T., ONGUL F., AYDIN YÜKSEL S.  
Vacuum, vol.84, 2010 (SCI-Expanded)
- XXXII. **Au Porous Silicon based Sodium Borohydride Fuel Cells**  
Dzhafarov T., ORUÇ Ç., AYDIN YÜKSEL S., YEŞİLKAYA S. S., ÇALIŞKAN M.  
International Journal Of Energy Research, vol.34, pp.1386-1392, 2010 (SCI-Expanded)
- XXXIII. **Diffusion of hydrogen in porous silicon based sensors**  
DZHAFAROV T., AYDIN YÜKSEL S.  
Journal Of Porous Media, vol.13, 2010 (SCI-Expanded)
- XXXIV. **Porous Silicon Based Gas Sensors and Miniature Hydrogen Cells**  
T D D., Aydın Yüksel S., Oruç Ç.  
Japanese Journal Of Applied Physics, vol.47, pp.8204-8207, 2008 (SCI-Expanded)
- XXXV. **Humidity-voltaic characteristics of Au-porous silicon interfaces**  
Dzhafarov T., Oruç Ç., Aydın S.  
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.37, no.3, pp.404-408, 2004 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Effect of Ethanol Treatment on Characteristics of Micro-Porous Silicon Based Hydrogen Fuel Cells**  
Yuksel S., Dzhafarov T. D., NUHOĞLU Ç., Korpeoglu F. D., Topkaya R.  
ADVANCED POROUS MATERIALS, vol.6, no.1, pp.45-48, 2018 (Peer-Reviewed Journal)
- II. **Nanoporous Silicon-Based Ammonia-Fed Fuel Cells**  
Dzhafarov T., AYDIN YÜKSEL S., Aydın M.  
Materials Sciences and Applications, vol.5, no.14, pp.1, 2014 (Peer-Reviewed Journal)
- III. **Nanoporous silicon-based Direct Hydrochloric Acid Fuel Cell**  
Dzhafarov T., AYDIN YÜKSEL S.  
Journal of Technology Innovations in Renewable Energy, vol.2, no.2, pp.1-5, 2012 (Peer-Reviewed Journal)
- IV. **NANO-POROUS SILICON FOR GAS SENSOR AND FUEL CELL APPLICATIONS**

Dzhafarov T., AYDIN YÜKSEL S.

Journal of Qafqaz University, vol.25, pp.1-10, 2009 (Peer-Reviewed Journal)

- V. **Effect of Diffusion of I Group Metal (Ag) on Characteristics of Metal/Porous Silicon Sensors**  
CAFER T., AYDIN YÜKSEL S., ÖREN E. D.  
Solid State Phenomena, pp.189-194, 2008 (Scopus)
- VI. **"The Structural and Electrical Characteristics of Ni/Si Junctions**  
CAFER T., AYDIN YÜKSEL S., ÇELİK BOZDOĞAN A.  
Balkan Physics Letter, pp.456-459, 2007 (Peer-Reviewed Journal)
- VII. **Effect of Humidity on Optical and Electrical Properties of Free Standing Porous Silicon Films**  
CAFER T., AYDIN YÜKSEL S., ORUÇ Ç.  
FIZIKA, vol.13, no.5, pp.17-20, 2007 (Peer-Reviewed Journal)
- VIII. **Diffusion of I Group Metals in Porous Silicon**  
CAFER T., AYDIN YÜKSEL S., AYDIN YÜKSEL S.  
Defect and Diffusion Forum, vol.258, no.258, pp.107-111, 2006 (Scopus)
- IX. **Photo-electronic properties of Cu-doped CdS thin films**  
CAFER T., Novruzov V., AYDIN YÜKSEL S., Altunbaş M., AYDIN YÜKSEL S., Tomakin M.  
FIZIKA, no.4, pp.1-4, 2004 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Nano-Porous Silicon-Based Mini Hydrogen Fuel Cell**  
Dzhafarov T., AYDIN YÜKSEL S.  
in: Alternative Fuel, Manzanera M., Editor, Intech, Xx, pp.309-334, 2011

## Refereed Congress / Symposium Publications in Proceedings

- I. **Production and characterization of copper antimony sulfide films for solar cell applications**  
Çelik E., Yağcı Ö., Aydın Yüksel S.  
Türk Fizik Derneği 40. Uluslararası Fizik Kongresi, Muğla, Turkey, 2 - 06 September 2024
- II. **USING SILVER (Ag) POROUS SILICON/nSi BASED STRUCTURES AS DIFFERENT ALCOHOL VAPOR SENSORS**  
Düzgün P., Şahin A. N., Yılmaz V., Nuhoglu Ç., Altındal A., Aydın Yüksel S.  
EGE 9TH INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, İzmir, Turkey, 22 - 24 September 2023, pp.46-47
- III. **Synthesis of Epoxy Based Nanocomposite Materials Containing Ag, Co and Ag/Co Nanoparticles by Photochemical Method: Investigation of Thermal, Dielectric and Morphological Properties**  
Batıbay G. S., Aydın Yüksel S., Arsu N.  
7th European Symposium of Photopolymer Science, İstanbul, Turkey, 19 - 22 September 2022, pp.75
- IV. **A Pre-evaluation of air quality in Sanliurfa in terms of physical characteristics of particulate matters**  
RASTGELDİ DOĞAN T., NUHOĞLU Ç., NUHOĞLU Y., YAĞCI Ö., AYDIN YÜKSEL S.  
6. Uluslararası GAP Mühendislik Kongresi, 8 - 10 October 2018
- V. **Perovskite Solar Cells Using Different Inorganic Semiconductor Electrodes Instead of TiO<sub>2</sub>**  
bozar s., yenel e., KAZICI M., KUŞ M., AYDIN YÜKSEL S., ONGÜL F., GÜNEŞ S.  
International Symposium for the 80th Birthday of Prof. Alan J. Heeger , 2016, 21 March 2016
- VI. **Metal Doped Nanoporous Silicon to Enhance Gas Sensing**  
V G L., T I G., V S S., T D D., AYDIN YÜKSEL S., ORUÇ Ç.  
I. Advances in Appl Physics and Materials Science Congress & Exhibition, 16 - 19 April 2015
- VII. **Application of Cd<sub>1-x</sub>Zn<sub>x</sub>S Thin Film Layer in Inverted Solar Cell as Electron Selective Layer**  
bozar s., AYDIN YÜKSEL S., ONGÜL F., KAZICI M., GÜNEY H. Y., GÜNEŞ S.  
1st international Conference on Organic Electronic Material Technologies, 25 - 28 March 2015

- VIII. **Effects of different PEDOT PSS layers on photovoltaic performance of organic solar cells**  
KAZIĆI M., günbattı a., ONGÜL F., AYDIN YÜKSEL S., Bozar S., GÜNEŞ S.  
1st International Conference on Organic Electronic Material Technologies (OEMT) , 2015, 25 - 28 March 2015
- IX. **AnE PVab PCBM Based Organic Solar Cell With TiO<sub>2</sub> Films Used As Electron Selective Layer In Inverted Configuration**  
AYDIN YÜKSEL S., ONGÜL F., bozar s., çakmak g., yazmacıyan a., yenele e., KAZIĆI M., GÜNEY H. Y., EGBE D. A. M., GÜNEŞ S.  
International Workshop on Flexible Bio- and Organic Printed Electronics (IWOBOE), 1 - 05 May 2014
- X. **Hybrid Solar Cells Using Inorganic Semiconductors and Conjugated Polymers**  
GÜNEŞ S., AYDIN YÜKSEL S., bozar s., ONGÜL F.  
International Semiconductor Science and Technology Conference (ISSTC), 13 - 15 January 2014
- XI. **Effect of Different PEDOT PSS Solution on Electrical Properties of PEDOT PSS Porous Silicon c Silicon Hybrid Structure**  
Meral M. T., ONGÜL F., GÜNEŞ S., AYDIN YÜKSEL S.  
Turkish Physical Society 30th International Physics Conference (TPS), 2 - 05 September 2013
- XII. **Investigation of Thin Films of Inorganic Semiconductors for Inverted Structure Hybrid Solar Cells**  
GÜNEŞ S., AYDIN YÜKSEL S., bozar s., yazmacıyan a., ONGÜL F.  
Solar Energy for World Peace, 17 - 19 August 2013
- XIII. **EFFECT OF DEPOSITION TEMPERATURE OF CDS FILMS ON THE PERFORMANCE OF INVERTED TYPE SOLAR CELLS**  
Çakmak g., AYDIN YÜKSEL S., GÜNEY H. Y., GÜNEŞ S.  
Solar Energy for World Peace, 17 - 19 August 2013
- XIV. **The effect of functionalized single wall carbon nanotube on the stability of P3HT PCBM based bulk heterojunction solar cells**  
çakmak g., GÜNEY H. Y., AYDIN YÜKSEL S., GÜNEŞ S.  
Solar Energy for World Peace, 17 - 19 August 2013
- XV. **Hybrid Solar Cells Employing CuxS CuOx Thin Films**  
çakmak g., AYDIN YÜKSEL S., GÜNEY H. Y., GÜNEŞ S.  
Solar Energy for World Peace, 17 - 19 August 2013
- XVI. **The Synthesis of Oligothiophene Derivatives: Conductivity and Thermal Properties**  
Karaboğa E., İstif E., Karaca Balta D., Aydın Yüksel S., Arsu N.  
Solar Energy for World Peace, İstanbul, Turkey, 17 - 19 August 2013, pp.256-257
- XVII. **Synthesis and Investigation of Photophysical Properties of Novel Thioxanthone Based Oligothiophenes**  
Karaboğa E., İstif E., Karaca Balta D., Aydın Yüksel S., Arsu N.  
European Polymer Congress , Pistoia, Italy, 16 - 21 June 2013, pp.45
- XVIII. **Structural and Optical Characterization of Fe Doped TiO<sub>2</sub> Thin Films Prepared by Sol Gel Process**  
aşlı m., AYDIN YÜKSEL S., Karabay ı., ONGÜL F., ÖZTÜRK S.  
Turkish Physical Society 28th International Physics Conference (TPS), 6 - 09 September 2011
- XIX. **Effect of Cobalt Doping on Electrical Properties of Au TiO<sub>2</sub> pSi Structure**  
ÖZTÜRK S., AYDIN YÜKSEL S., Karabay ı., ONGÜL F., aşlı m.  
Turkish Physical Society 28th International Physics Conference (TPS), 6 - 09 September 2011
- XX. **Photovoltaic Characteristics of CdS Sb<sub>2</sub>S<sub>3</sub> Heterojunctions**  
YEŞİLKAYA S. S., AYDIN YÜKSEL S., ONGÜL F.  
Turkish Physical Society 26th International Physics Conference (TPS), 24 - 27 September 2009
- XXI. **Effect of Thermal Annealing on Photovoltaic Characteristics of nCdS pSi Heterojunctions**  
AYDIN YÜKSEL S., ONGÜL F., Dzhafarov T.  
Turkish Physical Society 24th International Physics Conference, 28 - 31 August 2007
- XXII. **Hydrogen Production From NaBH<sub>4</sub> Alloys By Out Diffusion**  
T D D., PİŞKİN S., AYDIN YÜKSEL S., ÇALIŞKAN M., ORUÇ Ç., YEŞİLKAYA S. S.  
TPE 'nd International Conference on Technical and Physical Problems in Power Engineering, 6 - 08 September

## Supported Projects

- AYDIN YÜKSEL S., Arslan A., Project Supported by Higher Education Institutions, İNORGANİK YARIİLETKEN TABANLI GLİKOZ SENSÖRÜ GELİŞTİRİLMESİ, 2024 - Continues
- Aydın Yüksel S., Project Supported by Higher Education Institutions, Gözenekli Silisyum Yapılara Oksijen Difüzyonunun Araştırılması, 2013 - 2016
- Aydın Yüksel S., Project Supported by Higher Education Institutions, CdS ve Metal Zn Cu Ag katkılı CdS filmlerin tersine çevrilmiş ITO CdS CdS Metal P3HT PCBM Ag güneş pillerinde kullanılması, 2013 - 2015
- AYDIN YÜKSEL S., TUBITAK Project, Bakır İndiyum Disülfid (CuInS<sub>2</sub>), Kadmiyum Çinko Sülfür (CdZnS), CdTe Yarıiletkenlerinin Polimer Güneş Pillerinde Elektron Taşıyan Tabaka Olarak Kullanılması, 2013 - 2015
- AYDIN YÜKSEL S., TUBITAK Project, GÜNEŞ İPLİĞİ (SOLAR FİBER), 2013 - 2014
- AYDIN YÜKSEL S., Project Supported by Other Official Institutions, Yeni Hybrid Güneş Pillerinde Kullanılan İnorganik Yarı İletken Filmlerin Üretim Yöntem ve Şartlarının Pillerin Verimine Etkisinin İncelenmesi, 2011 - 2014
- Aydın Yüksel S., Karabay I., Project Supported by Higher Education Institutions, Sol Gel yöntemiyle elde edilen TiO<sub>2</sub> bazlı foto elektrokimyasal yakıt pili üretimi, 2008 - 2011
- Aydın Yüksel S., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Çeşitli Bileşiklerden Hidrojen Üretimi ve Yakıt Pili Geliştirilmesi Bor da Hidrojen Difüzyonunun Araştırılması, 2003 - 2010
- AYDIN YÜKSEL S., ORUÇ Ç., Other International Funding Programs, Research and Development of Novel Microelectronics gas sensor based on nanostructured Porous-Layers for Environmental Monitoring, 2007 - 2009

## Patent

- İçelli O., Güneş S., Aydın Yüksel S., Yeşilkaya S. S., Yağcı Ö., PEDOT:PSS film üretiminde borik asit kullanımı, Patent, CHAPTER G Physics, The Invention Registration Number: TR201508718B , Standard Registration, 2021
- Güneş S., AYDIN YÜKSEL S., Photovoltaic Yarn and a Production Method, Patent, CHAPTER H Electricity, The Invention Registration Number: LU93246B1 , 2017
- Güneş S., AYDIN YÜKSEL S., Bir Fotovoltaik İplik ve Üretim Yöntemi, Patent, CHAPTER H Electricity, The Invention Registration Number: TR201501257B , Standard Registration, 2017
- İçelli O., Güneş S., Aydın Yüksel S., Yeşilkaya S. S., Yağcı Ö., Okutan M., Ongül F., Bozar S., USAGE OF BORIC ACID IN THE PRODUCTION OF PEDOT:PSS FILM, Patent, CHAPTER G Physics, The Invention Registration Number: A.B.D./US 2018/0287083 , Standard Registration, 2016

## Scientific Refereeing

- Journal of Solid State Electrochemistry, SCI Journal, November 2017
- Materials Chemistry and Physics, SCI Journal, September 2017
- Journal of Solid State Electrochemistry, SCI Journal, February 2017

## Metrics

- Publication: 71
- Citation (WoS): 232
- Citation (Scopus): 289
- H-Index (WoS): 9
- H-Index (Scopus): 11

## **Non Academic Experience**

TÜBİTAK