

Prof. Serap GÜNEŞ

Personal Information

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Education Information

Doctorate, Johannes Kepler University Linz, Teknik Ve Doğal Bilimler, Fizikokimya, Austria 2002 - 2006

Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Fizik, Turkey Continues

Undergraduate, Yildiz Technical University, Faculty Of Arts & Science, Fizik, Turkey Continues

Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, Materials Science, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Natural Sciences

Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2014 - Continues

Associate Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2009 - 2014

Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2007 - 2009

Academic and Administrative Experience

BAP Scientific Commissioner, Yildiz Technical University, Faculty Of Arts & Science, Department Of Physics, 2020 - Continues

Enstitü Yönetim Kurulu Üyesi, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, 2017 - Continues

Yıldız Teknik Üniversitesi, Enerji Ve Uygulama Araştırma Merkezi, 2015 - 2018

Yıldız Teknik Üniversitesi, Fizik, 2015 - 2018

Advising Theses

GÜNEŞ S., Hibrit Perovskite Güneş Pillerinin Geliştirilmesi, Doctorate, A.Karlı(Student), 2018

GÜNEŞ S., Fulleren İçermeyen Akseptör Tipli Polimerlerin Organik Güneş Pillerinde Kullanılması, Doctorate, M.Kazici(Student), 2018

GÜNEŞ S., Polimer Güneş Pillerinde Yarıiletken İnce Filmlerin Elektron Taşıyan Tabaka Olarak Kullanılması, Doctorate, S.BOZAR(Student), 2016

GÜNEŞ S., "Kadmiyum Sülfür (CdS) İnce Filmlerin Fotovoltaik Hücre Uygulamalarında Kullanılması", Postgraduate, N.YAVUZ(Student), 2016

GÜNEŞ S., Polifenilen Vinilen (PPV) Bazlı Konjuge Polimerlerle Hazırlanan Organik Fotovoltaik Hücreler, Postgraduate,

G.Günday(Student), 2016

GÜNEŞ S., Kimyasal Katkı Maddelerinin Politiyofen İçeren Organik Güneş Gözelerinin Verimine Etkileri, Postgraduate, İ.Karataş(Student), 2016

GÜNEŞ S., "Yarıiletken Polimerler Kullanılarak Çift Heteroeklemlili Güneş Pillerinin Hazırlanması", Postgraduate, A.Yazmacıyan(Student), 2016

GÜNEŞ S., Tiyofen ve Antrasen İçeren Konjuge Polimerlerle Hazırlanan Hacim Heteroeklemlili Organik Güneş Gözeleri, Postgraduate, E.Çevik(Student), 2016

GÜNEŞ S., "Sol-Gel Yöntemiyle Hazırlanmış Titanyum Oksit (TiO₂) ve Çinko Oksit (ZnO) Kompakt Tabakaların Tersine Çevrilmiş Fotovoltaik Hücrelerin Verimine Etkilerinin İncelenmesi", Postgraduate, M.Akçay(Student), 2016

GÜNEŞ S., Politiyofen ve Fulleren İçeren Organik Fotovoltaik Hücrelerin Optimum Çalışma Şartlarının Belirlenmesi, Postgraduate, A.Karşlı(Student), 2016

GÜNEŞ S., Tersine Çevrilmiş Hacim Heteroeklemine Dayalı Güneş Gözeleri, Postgraduate, D.İlçalı(Student), 2016

Designed Lessons

Güneş S., Chemical Methods in Physics, Postgraduate, 2017 - 2018

Güneş S., Organik Elektronik, Doctorate, 2008 - 2009

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Reduced trap-density and boosted performance of CH₃NH₃PbI₃ solar cells by 1-Pentanethiol enhanced anti-solvent washing route**
Gokdemir Choi F. P., KURUOĞLU F., Moeini Alishah H., Bozar S., Kahveci C., CANTÜRK RODOP M., EROL A., GÜNEŞ S. Nanotechnology, vol.35, no.21, 2024 (SCI-Expanded)
- II. **Physically-Deposited Hole Transporters in Perovskite PV: NiO_x Improved with Li/Mg Doping**
AKALIN S. A., EROL M., Uzunbayir B., OĞUZLAR S., YILDIRIM S., Gokdemir Choi F. P., GÜNEŞ S., Yilmazer Menda U. D., Mendes M. J. Advanced Materials Technologies, vol.9, no.7, 2024 (SCI-Expanded)
- III. **Super aligned carbon nanotubes for interfacial modification of hole transport layer in polymer solar cells**
Ali A., Kazici M., Bozar S., Asghar M. A., Alwadai N., Kahveci C., Iqbal M., Ahmad A., KESKİN B., Shahbaz M., et al. Sustainable Materials and Technologies, vol.35, 2023 (SCI-Expanded)
- IV. **Triphenylamine-based organic small-molecule interlayer materials for inverted perovskite solar cells**
Doyranli C., CHOI F. P., Alishah H. M., KOYUNCU S., GÜNEŞ S., SAN N. ORGANIC ELECTRONICS, vol.108, 2022 (SCI-Expanded)
- V. **Cerium and zinc co-doped nickel oxide hole transport layers for gamma-butyrolactone based ambient air fabrication of CH₃NH₃PbI₃ perovskite solar cells**
Gokdemir Choi F. P., Moeini Alishah H., GÜNEŞ S. Applied Surface Science, vol.563, 2021 (SCI-Expanded)
- VI. **Improvement of fill factor by the utilization of Zn-doped PEDOT:PSS hole-transport layers for p-i-n planar type of perovskite solar cells**
Alishah H. M., CHOI F. P., KURUOĞLU F., EROL A., GÜNEŞ S. Electrochimica Acta, vol.388, 2021 (SCI-Expanded)
- VII. **Investigation of various commercial PEDOT:PSS (poly(3,4-ethylenedioxythiophene)polystyrene sulfonate) as a hole transport layer in lead iodide-based inverted planar perovskite solar cells**
Alishah H. M., CHOI F. P., GÜNEŞ S. JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, pp.21450-21461, 2021 (SCI-Expanded)
- VIII. **First demonstration of lithium, cobalt and magnesium introduced nickel oxide hole transporters for**

inverted methylammonium lead triiodide based perovskite solar cells

Gokdemir Choi F. P., Moeini Alishah H., Bozar S., Kahveci C., Cantürk Rodop M., Güneş S.
Solar Energy, vol.215, pp.434-442, 2021 (SCI-Expanded)

- IX. **Effect of Bathocuproine Concentration on the Photovoltaic Performance of NiO_x-Based Perovskite Solar Cells**
Alishah H. M., CHOI F. P., Menda U. D., Kahveci C., Rodop M. C., Mendes M. J., GÜNEŞ S.
Journal of the Mexican Chemical Society, vol.65, no.2, pp.149-160, 2021 (SCI-Expanded)
- X. **A novel method for graphene synthesis via electrochemical process and its utilization in organic photovoltaic devices**
Dericiler K., Alishah H. M., Bozar S., GÜNEŞ S., KAYA F.
Applied Physics A: Materials Science and Processing, vol.126, no.11, 2020 (SCI-Expanded)
- XI. **A novel interface layer for inverted perovskite solar cells fabricated in ambient air under high humidity conditions**
Gokdemir Choi F. P., Moeini Alishah H., Bozar S., Doyranli C., Koyuncu S., San N., Kahveci C., Cantürk Rodop M., Arvas M. B., Gençten M., et al.
Solar Energy, vol.209, pp.400-407, 2020 (SCI-Expanded)
- XII. **Preparation of anatase form of TiO₂ thin film at room temperature by electrochemical method as an alternative electron transport layer for inverted type organic solar cells**
Keskin A. V., GENÇTEN M., Bozar S., ARVAS M. B., GÜNEŞ S., ŞAHİN Y.
Thin Solid Films, vol.706, 2020 (SCI-Expanded)
- XIII. **Effect of UV exposure of ITO/PEDOT:PSS substrates on the performance of inverted-type perovskite solar cells**
Alishah H. M., Kazici M., Ongül F., Bozar S., CANTÜRK RODOP M., Kahveci C., ARVAS M. B., ŞAHİN Y., GENÇTEN M., KALELİ M., et al.
Journal of Materials Science: Materials in Electronics, vol.31, no.10, pp.7968-7980, 2020 (SCI-Expanded)
- XIV. **Photophysical and Photovoltaic Characterization of Flourene-Anthracene-Benzothiadiazole Based Donor-Acceptor Type Copolymers for Bulk Heterojunction Polymer Solar Cells**
Dogan S., Tore N., Karsli A., Parlak E., Türksoy F., GÜNEŞ S.
JOURNAL OF NANOELECTRONICS AND OPTOELECTRONICS, vol.14, no.1, pp.8-18, 2019 (SCI-Expanded)
- XV. **Zn Phthalocyanine Derivatives for Solution-Processed Small Molecule Organic Solar Cells**
Sari F. A., Kazici M., Harputlu E., Bozar S., Koyun O., ŞAHİN Y., Ugur N., Ince M., GÜNEŞ S.
CHEMISTRYSELECT, vol.3, no.48, pp.13692-13699, 2018 (SCI-Expanded)
- XVI. **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)
- XVII. **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)
- XVIII. **Structural, spectroscopic, electronic, nonlinear optical and thermodynamic properties of a synthesized Schiff base compound: A combined experimental and theoretical approach**
Gokce H., Ozturk N., Kazici M., GORECİ C. Y., GÜNEŞ S.
JOURNAL OF MOLECULAR STRUCTURE, vol.1136, pp.288-302, 2017 (SCI-Expanded)
- XIX. **Influences of annealing temperature and thickness on ZnS buffer layers for inverted hybrid solar cells**
Ongul F., Ulutas U., Yuksel S. A., YEŞİLKAYA S. S., GÜNEŞ S.
SYNTHETIC METALS, vol.220, pp.1-7, 2016 (SCI-Expanded)
- XX. **Metal-free polymer/MWCNT composite fiber as an efficient counter electrode in fiber shape dye-sensitized solar cells**
Alı A., Shah S. M., Bozar S., Kazici M., Keskin B., Kaleli M., Akyürekli S., Güneş S.
NANOTECHNOLOGY, vol.27, 2016 (SCI-Expanded)

- XXI. **Theoretical and experimental investigations of the 2-(4-chlorophenyl)-3-[[5-(2-cyano-2-phenylethenyl)]furan-2-yl]acrylonitrile molecule as a potential acceptor in organic solar cells**
Kazici M., BOZAR S., YUKSEL S. A., Ongul F., Gokce H., GÜNEŞ S., GORECI C. Y.
NANOTECHNOLOGY, vol.27, no.23, 2016 (SCI-Expanded)
- XXII. **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)
- XXIII. **Improvement of photovoltaic performance and stability of AnE-PV:PCBM based organic solar cells using solution processed inverted geometry**
Yuksel S. A., Ongül F., Bozar S., Varal N. M., Kuş M., Çakmak G., GÜNEY H. Y., Egbe D. A. M., GÜNEŞ S.
VACUUM, vol.122, pp.161-167, 2015 (SCI-Expanded)
- XXIV. **Vacuum-free processed bulk heterojunction solar cells with E-GaIn cathode as an alternative to Al electrode**
Ongül F., Yuksel S. A., Bozar S., Çakmak G., Güney H. Y., Egbe D. A. M., GÜNEŞ S.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.48, no.17, 2015 (SCI-Expanded)
- XXV. **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)
- XXVI. **Bilayer polymer/fullerene solar cells with a liquid crystal**
CANLI N., Boroglu M. S., Bilgin-Eran B., GÜNEŞ S.
THIN SOLID FILMS, vol.560, pp.71-76, 2014 (SCI-Expanded)
- XXVII. **Improvement in photovoltaic performance of anthracene-containing PPE-PPV polymer-based bulk heterojunction solar cells with silver nanoparticles**
TORE N., PARLAK E. A., TUMAY T. A., KAVAK P., SARIOGLAN S., BOZAR S., GÜNEŞ S., ULBRICHT C., EGBE D. A. M.
JOURNAL OF NANOPARTICLE RESEARCH, vol.16, no.3, 2014 (SCI-Expanded)
- XXVIII. **Inverted structure hybrid solar cells using CdS thin films**
Yavuz N., Yuksel S. A., Karsli A., GÜNEŞ S.
SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.116, pp.224-230, 2013 (SCI-Expanded)
- XXIX. **Hybrid solar cells using CdS thin films deposited via spray pyrolysis technique**
Yuksel S. A., GÜNEŞ S., GÜNEY H. Y.
THIN SOLID FILMS, vol.540, pp.242-246, 2013 (SCI-Expanded)
- XXX. **Comparison of ZnO interlayers in inverted bulk heterojunction solar cells**
Bekci D. R., Karsli A., Cakir A., Sarica H., Güloğlu A., GÜNEŞ S., Erten-Ela S.
APPLIED ENERGY, vol.96, pp.417-421, 2012 (SCI-Expanded)
- XXXI. **Bulk heterojunction and inverted type solar cells using a CN-PPV derivative**
Cevik E., Ilıcalı D., Egbe D. A. M., GÜNEŞ S.
SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.98, pp.94-102, 2012 (SCI-Expanded)
- XXXII. **A green neutral state donor-acceptor copolymer for organic solar cells**
GÜNEŞ S., Baran D., Günbas G., Durmus A., Fuchsbaauer A., Sariciftci N. S., Toppare L.
POLYMER CHEMISTRY, vol.1, no.8, pp.1245-1251, 2010 (SCI-Expanded)
- XXXIII. **Chiral (S)-5-octyloxy-2-[[4-(2-methylbutoxy)-phenylimino]-methyl]-phenol liquid crystalline compound as additive into polymer solar cells**
CANLI N., GÜNEŞ S., PIVRIKAS A., FUCHSBAUER A., SINWEL D., SARICIFTCI N. S., YASA O., Bilgin-Eran B.
SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.94, no.6, pp.1089-1099, 2010 (SCI-Expanded)
- XXXIV. **Effect of shifting of aromatic rings on charge carrier mobility and photovoltaic response of anthracene and thiophene-containing MEH-PPE-PPVs**
GÜNEŞ S., Wild A., Cevik E., Pivrikas A., Schubert U. S., Egbe D. A. M.
SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.94, no.3, pp.484-491, 2010 (SCI-Expanded)
- XXXV. **Photovoltaic characterization of hybrid solar cells using surface modified TiO₂ nanoparticles and**

poly(3-hexyl)thiophene

GÜNEŞ S., Marjanovic N., Nedeljkovic J. M., Sariciftci N. S.

NANOTECHNOLOGY, vol.19, no.42, 2008 (SCI-Expanded)

- XXXVI. **Photovoltaic and photophysical properties of a novel bis-3-hexylthiophene substituted quinoxaline derivative**
Guenes S., Baran D., Guenbas G., Oezyurt F., Fuchsbaauer A., Sariciftci N. S., Toppare L.
SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.92, no.9, pp.1162-1169, 2008 (SCI-Expanded)
- XXXVII. **IV-VI nanocrystal-polymer solar cells**
Fritz K. P., Guenes S., Luther J., Kumar S., Sariciftci N. S., Scholes G. D.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.195, no.1, pp.39-46, 2008 (SCI-Expanded)
- XXXVIII. **Hybrid solar cells**
Guenes S., Sariciftci N. S.
INORGANICA CHIMICA ACTA, vol.361, no.3, pp.581-588, 2008 (SCI-Expanded)
- XXXIX. **Quasi-solid-state dye-sensitized solar cells with cyanoacrylate as electrolyte matrix**
Lu S., Koeppe R., Guenes S., Sariciftci N. S.
SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.91, no.12, pp.1081-1086, 2007 (SCI-Expanded)
- XL. **Hybrid solar cells based on CuInS₂ and organic buffer-sensitizer layers**
Bereznev S., Koeppe R., Konovalov I., Kois J., Guenes S., Opik A., Mellikov E., Sariciftci N. S.
THIN SOLID FILMS, vol.515, no.15, pp.5759-5762, 2007 (SCI-Expanded)
- XL1. **Effects of annealing on the nanomorphology and performance of poly(alkylthiophene): fullerene bulk-heterojunction solar cells**
Nguyen L. H., Hoppe H., Erb T., Guenes S., Gobsch G., Sariciftci N. S.
ADVANCED FUNCTIONAL MATERIALS, vol.17, no.7, pp.1071-1078, 2007 (SCI-Expanded)
- XLII. **Combined effects of conjugation pattern and alkoxy side chains on the photovoltaic properties of thiophene-containing PPE-PPVs**
Egbe D. A. M., Nguyen L. H., Schmidtke K., Wild A., Sieber C., Guenes S., Sariciftci N. S.
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.45, no.9, pp.1619-1631, 2007 (SCI-Expanded)
- XLIII. **Conjugated polymer-based organic solar cells**
Guenes S., Neugebauer H., Sariciftci N. S.
Chemical Reviews, vol.107, no.4, pp.1324-1338, 2007 (SCI-Expanded)
- XLIV. **Hybrid solar cells using PbS nanoparticles**
GÜNEŞ S., Fritz K., Neugebauer H., Sariciftci N. S., Kumar S., Scholes G.
SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.91, no.5, pp.420-423, 2007 (SCI-Expanded)
- XLV. **Photoelectrochemical cells based on emeraldine base form of polyaniline**
Sergawie A., Yohannes T., Guenes S., Neugebauer H., Sariciftci N. S.
JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY, vol.18, no.6, pp.1189-1193, 2007 (SCI-Expanded)
- XLVI. **Photovoltaic activity of a PolyProDOT derivative in a bulk heterojunction solar cell**
Campos L. M., Mozer A. J., Guenes S., Winder C., Neugebauer H., Sariciftci N. S., Thompson B. C., Reeves B. D., Grenier C. R. G., Reynolds J. R.
SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.90, no.20, pp.3531-3546, 2006 (SCI-Expanded)
- XLVII. **Side chain effects on photoinduced absorption and photovoltaic performance of low bandgap thienylene vinylene and phenylene vinylene copolymers**
Nguyen L. H., Guenes S., Neugebauer H., Sariciftci N. S., Colladet K., Fourier S., Cleij T. J., Lutsen L., Gelan J., Vanderzande D.
EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS, vol.36, no.3, pp.219-223, 2006 (SCI-Expanded)
- XLVIII. **Donor-acceptor heterojunction solar cells based on perylene diimide and perylene bisbenzimidazole**
Erten S., Meghdadi F., GÜNEŞ S., Koeppe R., Sariciftci N. S., İcli S.
EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS, vol.36, no.3, pp.225-229, 2006 (SCI-Expanded)
- XLIX. **Soluble derivatives of perylene and naphthalene diimide for n-channel organic field-effect transistors**

Singh T. B., Erten S., Guenes S., Zafer C., Turkmen G., Kuban B., Teoman Y., Sariciftci N. S., Icli S.
ORGANIC ELECTRONICS, vol.7, no.6, pp.480-489, 2006 (SCI-Expanded)

- L. **Precursor route poly(thienylene vinylene) for organic solar cells: Photophysics and photovoltaic performance**
Nguyen L. H., Guenes S., Neugebauer H., Sariciftci N. S., Banishoeib F., Henckens A., Cleij T., Lutsen L., Vanderzande D.
SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.90, no.17, pp.2815-2828, 2006 (SCI-Expanded)
- LI. **Photoresponse of organic field-effect transistors based on conjugated polymer/fullerene blends**
Marjanovic N., Singh B., Dennler G., GÜNEŞ S., Neugebauer H., Sariciftci N. S., Schwodiauer R., Bauer S.
ORGANIC ELECTRONICS, vol.7, no.4, pp.188-194, 2006 (SCI-Expanded)
- LII. **Hybrid solar cells using HgTe nanocrystals and nanoporous TiO₂ electrodes**
Guenes S., Neugebauer H., Sariciftci N. S., Roither H., Kovalenko M., Pillwein G., Heiss W.
ADVANCED FUNCTIONAL MATERIALS, vol.16, no.8, pp.1095-1099, 2006 (SCI-Expanded)
- LIII. **Influence of film growth conditions on carrier mobility of hot wall epitaxially grown fullerene based transistors**
Ramil A., Singh B., Haber N., Gunes S., Andreev A., Matt G., Resel R., Sitter H., Sariciftci S., Sariciftci N. S.
JOURNAL OF CRYSTAL GROWTH, vol.288, no.1, pp.123-127, 2006 (SCI-Expanded)
- LIV. **High-performance ambipolar pentacene organic field-effect transistors on poly(vinyl alcohol) organic gate dielectric**
Singh T., Meghdadi T., Gunes S., Marjanovic N., Horowitz G., Lang P., Bauer S., Sariciftci N.
ADVANCED MATERIALS, vol.17, no.19, pp.2315-2321, 2005 (SCI-Expanded)
- LV. **Extended photocurrent spectrum of a low band gap polymer in a bulk heterojunction solar cell**
Campos L., Tontcheva A., GÜNEŞ S., Sönmez G., Neugebauer H., Sariciftci N. S., Wudl F.
CHEMISTRY OF MATERIALS, vol.17, no.16, pp.4031-4033, 2005 (SCI-Expanded)
- LVI. **Correlation between morphology and ambipolar transport in organic field-effect transistors**
Singh T., GÜNEŞ S., Marjanovic N., Sariciftci N. S., Menon R.
JOURNAL OF APPLIED PHYSICS, vol.97, no.11, 2005 (SCI-Expanded)
- LVII. **High-mobility n-channel organic field-effect transistors based on epitaxially grown C-60 films**
Singh T., Marjanovic N., Matt G., GÜNEŞ S., Sariciftci N. S., Ramil A., Andreev A., Sitter H., Schwodiauer R., Bauer S.
ORGANIC ELECTRONICS, vol.6, no.3, pp.105-110, 2005 (SCI-Expanded)
- LVIII. **Fabrication and characterization of solution-processed methanofullerene-based organic field-effect transistors**
Singh T., Marjanovic N., Stadler P., Auinger M., Matt G., GÜNEŞ S., Sariciftci N. S., Schwodiauer R., Bauer S.
JOURNAL OF APPLIED PHYSICS, vol.97, no.8, 2005 (SCI-Expanded)

Articles Published in Other Journals

- I. **Laminated Carbon Nanotubes for the Facile Fabrication of Cost-Effective Polymer Solar Cells**
Ali A., Kazici M., Bozar S., Keskin B., Kaleli M., Shah S. M., GÜNEŞ S.
ACS APPLIED ENERGY MATERIALS, vol.1, no.3, pp.1226-1232, 2018 (ESCI)
- II. **A Novel Acrylonitrile Derivative Having Photovoltaic Performance**
Yörür Ç., Kazici M., Bozar S., Demir Z., Toraman A., Ongül F., Ali A., Güneş S.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.3, no.3, pp.439-452, 2016 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Solar Cells**
Kazici M., Bozar S., Ongül F., Gürşen A., Karşlı A., Sarıçiftçi N. S., Güneş S.

in: Comprehensive Energy Systems, Dincer I, Editor, Elsevier, Amsterdam, pp.637-658, 2018

II. Organic and Inorganic Hybrid Solar Cells

Güneş S., Sarıçiftçi N. S.

in: Printable Solar Cells, Sankir N., Sankir M., Editor, Scrinever Publishing Llc, Arizona, pp.1-35, 2017

III. Polymer Solar Cells

Güneş S., Sarıçiftçi N. S., Ayuk Mbi Egbe D.

in: Encyclopedia of Polymer Science and Technology, Erin Arndt, Editor, John Wiley & Sons, West Sussex, UK , London, pp.1-30, 2011

IV. Organic Solar Cells and Their Nanostructural Improvement

Güneş S.

in: Energy Efficiency and Renewable Energy through Nanotechnology, Ling Zhang, Editor, Springer, London/Berlin , London, pp.171-225, 2011

V. Organic/Inorganic Hybrid Nanostructures in Photovoltaics

Güneş S., Sarıçiftçi N. S.

in: Nanoclusters and Nanostructured Surfaces , Ray Asok, Editor, American Scientific Publishers , Texas, pp.110-125, 2010

Refereed Congress / Symposium Publications in Proceedings

I. Novel Small Molecules For Organic Solar Cell Applications

Yörür Göreci Ç., Kazıcı M., Bozar S., Nilisaz S., Moeini Alishah H., Güneş S.

8th International Conference on Advanced Technologies, Sarajevo, Bosnia And Herzegovina, 26 - 30 August 2019, pp.114

II. Inverted organic/inorganic halide perovskite solar cells : A precursor concentration study

Choi F. P., Menda U. D., Kazıcı M., Güneş S., Moemi Alshah H.

NANOTR-14, İzmir, Turkey, 22 - 25 September 2018

III. Synthesis and application of non-stoichiometric nickel oxide nanoparticles in inverted methylammonium lead iodide perovskite solar cells

Choi F. P., Menda U. D., Güneş S., Moon T., Woo S. I., Kazıcı M.

NanoTR-14, İzmir, Turkey, 22 - 25 September 2018

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Awards

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GÜNEŞ S., Loreal Genç Bilim Kadınlarına Destek Bursu, Unesco Loreal, June 2009

GÜNEŞ S., 2007 yılı Prof. Dr. Şevket Erk Genç Bilim İnsanı Ödülü, Türk Fizik Derneği, September 2007

Non Academic Experience

Johannes Kepler University Linz