

Asst. Prof. BURAK GÜLTEKİN

Personal Information

Birthyear: 1982

Place of birth: Ege

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Education Information

Doctorate, Ege University, Fen Bilimleri Enstitüsü, Enerji (Dr), Turkey 2005 - 2013

Under Graduate, Ege Üniversitesi, Fen Fakültesi, Kimya Bölümü, Turkey 2000 - 2005

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Organik opto-elektronik sistemlerde kullanım amaçlı ışık duyar moleküllerin sentezi ve uygulamaları, Ege Üniversitesi, Fen Bilimleri Enstitüsü, Enerji (Dr), 2013

Academic Titles / Tasks

Assistant Professor, Ege Üniversitesi, Güneş Enerjisi Enstitüsü, Güneş Enerjisi Anabilim Dalı, 2018 - Continues

Assistant Professor, Ege Üniversitesi, Güneş Enerjisi Enstitüsü, Güneş Enerjisi Anabilim Dalı, 2016 - 2018

Professional Experience

Deputy Director of Research Institute, Ege University, Güneş Enerjisi Enstitüsü, -, 2019 - Continues

Meslek Yüksekokulu Yönetim Kurulu Üyesi, Ege University, Aliğa Meslek Yüksekokulu, 2019 - Continues

Enstitü Yönetim Kurulu Üyesi, Ege University, Güneş Enerjisi Enstitüsü, 2018 - Continues

Courses

LABORATUVAR TEKNİKLERİ, Post Graduate, 2016 - 2017, 2017 - 2018

Güneş Işımlı Fotofizik-Fotokimya Giriş, Post Graduate, 2016 - 2017

Advising Theses

- Gültekin B., PEROVSKİTE GÜNEŞ HÜCRESİNDE P3HT NANOTEL BOŞLUK TRANSFER MALZEMELERİNİN KULLANILMASI, Post Graduate, O.ÇİÇEK(Student), 2019
- Gültekin B., Çalışanların davranışsal hatalarının tespiti üzerine bir irdeleme: Yapı sektörü örnek alan incelemesi, Post Graduate, G.TÜRKEŞ(Student), 2018
- Gültekin B., Metal sektöründe atölye ve üretim alanlarında çalışanların gürültü maruziyetlerinin belirlenmesi için örnek alan çalışması, Post Graduate, M.ZENGİN(Student), 2018

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Enhanced capacitive behaviour of graphene based electrochemical double layer capacitors by etheric substitution on ionic liquids**
Siyahjani S., Oner S., Diker H., GÜLTEKİN B., Varlikli C.
JOURNAL OF POWER SOURCES, vol.467, 2020 (Journal Indexed in SCI)
- II. **Electrochemical double-layer supercapacitor using poly(methyl methacrylate) solid polymer electrolyte**
Zakariya'u I., GÜLTEKİN B., Singh V., Singh P. K.
HIGH PERFORMANCE POLYMERS, vol.32, pp.201-207, 2020 (Journal Indexed in SCI)
- III. **Dye sensitized solar cells based on titanium dioxide nanoparticles synthesized by flame spray pyrolysis and hydrothermal sol-gel methods: a comparative study on photovoltaic performances**
Aboulouard A., GÜLTEKİN B., Can M., Erol M., Jouaiti A., Elhadadi B., ZAFER C., Demic S.
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, vol.9, pp.1569-1577, 2020 (Journal Indexed in SCI)
- IV. **Insights into optoelectronic properties of anti-solvent treated perovskite films**
NAWAZ A., ERDİNC A. K. , GÜLTEKİN B., TAYYİB M., ZAFER C., WANG K., AKRAM M. N. , WONG K. K. , HUSSAIN S., SCHMİDT-MENDE L., et al.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.28, pp.15630-15636, 2017 (Journal Indexed in SCI)
- V. **Synthesis and photovoltaic characterization of triarylamine-substituted quinoxaline push pull dyes to improve the performance of dye-sensitized solar cells**
DEMİRAC K., Can M., ÖZSOY C., Yigit M. Z. , GÜLTEKİN B., Demic S., ZAFER C.
TURKISH JOURNAL OF CHEMISTRY, vol.41, pp.309-339, 2017 (Journal Indexed in SCI)
- VI. **Push-pull type material having spirobifluorene as pi-spacer for dye sensitized solar cells**
Can M., BİLGİLİ H., Demirak K., GÜLTEKİN B., KOYUNCU S., Kus M., ZAFER C., Demic S., İÇLİ S.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, pp.21293-21299, 2016 (Journal Indexed in SCI)
- VII. **A narrow range multielectrochromism from 2,5-di-(2-thienyl)-1H-pyrrole polymer bearing pendant perylenediimide moiety**
Sefer E., Bilgili H., GÜLTEKİN B., Tonga M., KOYUNCU S.
DYES AND PIGMENTS, vol.113, pp.121-128, 2015 (Journal Indexed in SCI)
- VIII. **Quantification of the Effects of Recombination and Injection in the Performance of Dye-Sensitized Solar Cells Based on N-Substituted Carbazole Dyes**
Barea E. M. , ZAFER C., GÜLTEKİN B., AYDIN B., KOYUNCU S., İÇLİ S., Fabregat Santiago F., BİSQUERT J.
JOURNAL OF PHYSICAL CHEMISTRY C, vol.114, pp.19840-19848, 2010 (Journal Indexed in SCI)
- IX. **Electrochemical and optical properties of biphenyl bridged-dicarbazole oligomer films: Electropolymerization and electrochromism**
KOYUNCU S., GÜLTEKİN B., ZAFER C., Bilgili H., Can M., Demic S., KAYA İ., İcli S.
ELECTROCHIMICA ACTA, vol.54, pp.5694-5702, 2009 (Journal Indexed in SCI)
- X. **Microwave Assisted Synthesis of Some Metal Free Phthalocyanine Derivatives and a Comparison with Conventional Methods of their Synthesis**
DİNDAR B., SEVEN Ö., GÜLTEKİN B.
Turkish Journal Of Chemistry, vol.33, pp.123-134, 2009 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Morphology Study of Inverted Planar Heterojunction Perovskite Solar Cells in Sequential Deposition**
Nawaz A., Erdinç A. K. , GÜLTEKİN B., Tayyib M., ZAFER C., Wang K., Akram M. N.
International Journal of Electrical, Computer, Energetic, Electronic and Communication Engineering, vol.10, pp.950-954, 2016 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **EVALUATION OF CHARGE EXTRACTION PARAMETERS OF EFFICIENCY IMPROVED PEROVSKITE SOLAR CELLS BY DEFECT PASSIVATION**
Erdinç A. K. , MUTLU A., GÜLTEKİN B., ZAFER C.
5th International Conference on Perovskite Solar Cells and Optoelectronics (PSCO19), Lausanne, Switzerland, 30 September - 02 October 2019
- II. **Performance and Stability Improvement by Interface Engineering on Triple-Cation Perovskite Solar Cells**
ZAFER C., GÜLTEKİN B., ERDİNÇ A. K. , MUTLU A.
International Conference on Photovoltaic Science and Technologies (PVCON2018), Ankara, Turkey, 4 - 06 July 2018
- III. **TEMPERATURE EFFECT ON TRIPLE-CATION PEROVSKITE SOLAR CELL PERFORMANCE**
MUTLU A., ZAFER C., GÜLTEKİN B.
International Conference on Photovoltaic Science and Technologies (PVCON2018), Ankara, Turkey, 4 - 06 July 2018
- IV. **Morphology Study of Inverted Planar Heterojunction Perovskite Solar Cells in Sequential Deposition**
Nawaz A., Erdinç A. K. , GÜLTEKİN B., Tayyib M., ZAFER C., Wang K., Akram N.
ICREET 2016 : 18th International Conference on Renewable Energy and Environmental Technology, 28 - 29 July 2016
- V. **A new post functionalizable carbazole based low band gap polymer for photovoltaic application**
Kıymaz D., Doyranlı C., Bilgili H., GÜLTEKİN B., Versthappen P., Kersters J., Maes W., ZAFER C., Vanderzande D., KOYUNCU S.
46th IUPACWORLD POLYMER CONGRESS, Turkey, 17 - 21 July 2016
- VI. **Hydrothermal conversion of pine bark to value added biobased products**
Çeliktaş M. S. , Gultekin B., Ceylan Z., Yeşil Çeliktaş Ö.
VII. Bioengineering Congress, İzmir, Turkey, 19 - 21 November 2015, pp.137
- VII. **Controlling the morphology of Perovskite Solar Cells by Solvent and Stoichiometry variations**
ZAFER C., Erdinç A. K. , GÜLTEKİN B.
1st International Conference on Perovskite Solar Cells and Optoelectronics, 27 - 29 September 2015
- VIII. **Controlling the morphology of perovskite solar cells by solvent and stoichiometry variations**
erdinç a. k. , ZAFER C., GÜLTEKİN B.
e-car Workshop on Photonics : Fundamentals & Applications, 27 - 28 August 2015
- IX. **Sonochemically grown 1D ZnO nanostructures and their applications**
Bayam Y., Rodrigues D., Atalay R., Zafer C., Okur S., Bala R., Gültekin B., Caha I., Tural E., Duyar S., et al.
Low-Dimensional Materials and Devices, Georgia, United States Of America, 26 August 2015
- X. **Carbazolo Carbazole A Novel Solar Photo Initiator**
içli s., KINAL A., GÜLTEKİN B., erdinç a. k.
International Semiconductor Science Technology Conference, 11 - 13 May 2015

Supported Projects

GÜLTEKİN B., ZAFER C., Project Supported by Higher Education Institutions, YENİ NESİL PEROVSKİTE GÜNEŞ HÜCRELERİNİN GENİŞ ALANLARDA ÜRETİMİ İÇİN UYGUN ELEKTROTLARIN HAZIRLANMASI, 2017 - 2019
GÜLTEKİN B., Project Supported by Higher Education Institutions, NANOKRİSTAL PEROVSKİTE TÜREVLERİNİN SENTEZİ VE GÜNEŞ HÜCRESİ UYGULAMALARI, 2015 - 2018
ZAFER C., GÜLTEKİN B., Other Supported Projects, Kendiliğinden Organize Olabilen Donör Akseptör Tipi Konjuge Polimerler ve Fotovoltaik Uygulamaları, 2014 - 2017
Gültekin B., Zafer C., Project Supported by Higher Education Institutions, Organik Boya İle Duyarlaştırılmış Fotovoltaik Modül Üretimi Ve Fotovoltaik Performans Analizi, 2011 - 2016

Citations

Total Citations (WOS):222

h-index (WOS):5

Scholarships

British Council Researcher Links, British Council, 2016 - 2016

ORGANISOLAR , European Commission, 2007 - 2008