**ÖZGEÇMİŞ ve ESERLER LİSTESİ**

****

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*Karamanoğlu Mehmetbey Üniversitesi*

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***Kişisel;***

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| ***Doğum tarihi*** | **:** | 03.06.1986 |

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***Ögrenim;***

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| **Derece**  | **Alan**  | **Üniversite**  | **Yıl**  |
| Lisans  | Seramik Mühendisliği | Dumlupınar Üniversitesi | 2007 |
| Y. Lisans  | Kimya Mühendisliği | Selçuk Üniversitesi | 2010 |
| Doktora  | Kimya Mühendisliği | Selçuk Üniversitesi | 2014 |

***Yabancı Dil;*** *İngilizce*

***h İndeks****: 12*

***Araştırma konuları;***

* İnorganik, Yarı iletken ve Metal nano malzeme (Fe3O4, MFe2O4(M=Mn,Zn,Ni), ZnMn2O4, Cu2ZnSnSe4-xSx, CMTS (M= Co,Mn,Zn,Ni), (CuInSeS), CuW(SeS), MY(SeS) (M=Cu,Fe,Co,Ni - Y=Mo,W)) üretimleri ve bunların Enerji uygulamaları
* Kompozit nanofiber üretimleri ve Enerji uygulamaları
* Elektroeğirme (Elektrospinning)

***Araştırma Projeleri;***

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| Tübitak-1001217M212 | Yürütücü | Atomik Olarak Dizayn Edilmiş Farklı Kompozisyonlardaki Nano-Çubuksu Yapıların Sentezlenmesi ve Enerji Uygulamaları | **2018-2020** | 354.401,85TL |
| Tübitak-1001 214M366 | Yürütücü | Farklı Kompozisyonlarda CZTSeS Nanofiberlerinin Geliştirilmesi – Optimizasyonu ve Güneş Hücrelerinin Üretilmesi | **2015-2017** | 204.200TL |
| Tübitak -1003 2015M309 | Araştırmacı | Güneş Işığı Kullanılarak Suyun Ayrışmasından Hidrojen Üretimi | **2016-2018** | 322.000TL |
| COST Uluslararası115M762 | Araştırmacı | Elektrokimyasal Kaplama Yöntemiyle Yeninesil Cu2MSnS4 (M= Zn+2, Mn+2,Co+2,Fe+2,Ni+2) İnce Filmlerin Sentezi ve Karşıt Elektrot Olarak Boya Duyarlı Güneş Gözesi Uygulamaları | **2015-2017** | 292.200TL |
| BAP – KMÜ32-M-16 | Yürütücü | Yeni nesil Cu2WSe4 nanokristallerin koloidal yöntemle sentezi ve boya duyarlı güneş hücrelerinde kullanımı | **2016-2018** | 12780 TL |
| BAP – KMÜ02-YL-15 | Yürütücü | Yeni nesil Cu2MSnSe4-xSx (M = Co2+, Fe2+, Zn2+) nano-alaşımlarının kolloidal yöntemle sentezi ve boya duyarlı güneş hücresi uygulamaları | **2015-2016** | 8000 TL |
| BAP - Selçuk | Araştırmacı | CuSbS Nanoparçacıkların Üretimi Ve Spin Kaplama Yöntemi İle Üretilen İnce Filmlerinin Karakterizasyonu | **2016-2017** | 26.000 TL |
| BAP – SÜ 12101017 | Y.Araştırmacı(Doktora TEZ Projesi) | Kolloidal Manyetik Nanoparçacıkların Sentezi ve Elektronik-Optoelektronik Devre Uygulamaları | **2012-2014** | 18000 TL |
| BAP - SÜ 09201130 | Y.Araştırmacı(Yüksek Lisans TEZ Projesi) | Organik Molekül Temelli Gaz Sensörü Çalışmaları | **2009-2010** | 4000 TL |
| FP7 – LamandUluslararası | Bursiyer | Large Area Molecularly Assembled Nanopatterns for Devices  | **2010-2013** | 4.500.000 Euro |
| Tübitak 109T881 | Bursiyer | Beyaz Işık Veren İnorganik Nanoparçacık Temelli Polimer hybrid LED Üretimi | **2009-2010** | 254.000 TL |

***Danışmanlıklar;***

1. ***Âdem SARILMAZ***

YENİ NESİL Cu2MSnSe4-xSx (M = Co2+, Fe2+,Zn2+) NANO ALAŞIMLARININ KOLLOİDAL YÖNTEMLE SENTEZİ VE BOYA DUYARLI GÜNEŞ HÜCRESİ UYGULAMALARI (NİSAN-2016)

***Görevler;***

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| --- | --- | --- |
| **Görev Unvanı** | **Görev Yeri** | **Yıl** |
| Uzman | Selçuk Üniv., Müh.Fakültesi | 2011-2014 |
| Yrd. Doç. Dr. | Karamanoğlu Mehmetbey Üniv., Müh. Fakültesi | 2014 - |

***Uluslararası yayınlar:***

***2018***

1. Aydın Rüşen, Mehmet Ali Topcu, Âdem Sarılmaz, **Faruk Özel\*,** Fabrication and Characterizations of Electrospun Single-Crystal Lead Manganese Borate Nanofibers, Materials Research Bulletin, **2018**, 99, 249-254, doi:[10.1016/j.materresbull.2017.11.026](https://doi.org/10.1016/j.materresbull.2017.11.026)
2. Murat Yıldırım, Âdem Sarılmaz, **Faruk Özel\*,** Investigation of optical and devices parameters of colloidal copper tungsten selenide ternary nanosheets, Journal of Materials Science: Materials in Electronics, **2018**, 29, 762-770, doi:10.1007/s10854-017-7970-7.
3. Abdalaziz Aljabour, Halime Coşkun, Doğukan Hazar Apaydın, **Faruk Özel,** Plipp Stadler, Niyazi Serdar Sariçiftci, Mahmut Kuş, Nanofibrous cobalt oxide for electrocatalysis of CO2 reduction to Carbon Monoxide an Formate in an Acetonitrile-Water Electrolyte Solution, Applied Catalysis B:  Environmental, **2018**, 229, 163-170, doi:[10.1016/j.apcatb.2018.02.017](https://doi.org/10.1016/j.apcatb.2018.02.017).
4. Mahir Gülen, Âdem Sarılmaz, İmren hatay Patir, **Faruk Özel**, Savaş Sönmezoğlu, Copper tungsten disulfide nanocube inks as catalyst for Highly efficient Dye sensitised solar cells, Electrochimica Acta, **2018**, doi:10.1016/j.electacta.2018.02.137.

***2017***

1. Âdem Sarılmaz, Mümin Can, **Faruk Özel\*** Ternary Copper Tungsten Selenide Nanosheets Synthesized by a Facile Hot-Injection Method, Journal of Alloys and Compounds, **2017**, 699, 479-483,doi:10.1016/j.jallcom.2016.12.401.
2. Murat Yıldırım, Âdem Sarılmaz, Abdalaziz Aljabour, **Faruk Özel\***, Investigation of optical framework of Chalcostibite nanocrystal thin films: an insight into refractive index dispersion, optical band gap and single-oscillator parameters, Journal of Alloys and Compounds, **2017**, 722, 420-426, doi:10.1016/j.jallcom.2017.06.157.
3. Emre Aslan, M. Kerem Gönce,M. Zeliha Yiğit, Adem Sarilmaz, Elias Stathatos, **Faruk Özel,** Mustafa Can, İmren Hatay Patir, Photocatalytic H2 evolution with a Cu2WS4 catalyst on a metal free D-π-A organic dye-sensitised TiO2, Applied Catalysis B:  Environmental, **2017**, 210, 320-327, doi:[10.1016/j.apcatb.2017.03.073](http://dx.doi.org/10.1016/j.apcatb.2017.03.073).
4. Murat Yıldırım, **Faruk Özel**, Âdem Sarılmaz, Abdalaziz Aljabour, İmren Hatay Patır, Investigation of structural, optical and dielectrical properties of Cu2WS4 Thin Film, Journal of Materials Science: Materials in Electronics, **2017**, 28 (9), 6712-6721. doi:10.1007/s10854-017-6365-0.

***2016***

1. Abdalaziz Aljabour, Doğukan Hazar Apaydın, Halime Coşkun, **Faruk Özel,** Mustafa Ersöz, Phipipp Stadler, Niyazi Serdar Sariçiftci and Mahmut Kuş, Improvement of catalytic activity by nanofibrous CuInS2 for electrochemical CO2 reduction, ACS Applied Materials and Interfaces, **2016**, 8, 31695−31701. doi:10.1021/acsami.6b11151.
2. **Faruk Özel\*,** Emre Aslan, Adem Sarilmaz, İmren Hatay Patir, Hydrogen Evolution Catalysed by Cu2WS4 at Liquid-Liquid Interface, ACS Applied Materials and Interfaces, **2016**, 8 (39), 25881–25887 **doi:**10.1021/acsami.6b05582.
3. Abdul Rauf Khaskheli, Saba Naz, Razium Ali Soomro, **Faruk Özel**, Abdalaziz Aljabour, Nazar Hussain Kalvar, Abdul Waheed Mahesar, Imren Hatay Patir and Mustafa Ersoz, L-lysine derived nickel nanoparticles for reductive degraradation for organic dyes, Adv. Mat. Lett., **2016**, 7(8), 616-621. **doi**: 10.5185/amlett.2016.6215
4. Abdul Rauf Khaskheli, Saba Naz, **Faruk Özel**, Abdalaziz Aljabour, Sarfaraz Ahmed Mahesar, Imren Hatay Patir and Mustafa Ersoz, Urchin-like cobalt nanostructures for catalytic degradation of nitro anilines, Adv. Mat. Lett., **2016**, 7(9), 748-753. **doi**: 10.5185/amlett.2016.6264
5. Sabriye Açıkgöz, Yakup Ulusu, Hasan Yüngeviş, **Faruk Özel,** Abdurrahman Ozen, Isa Gökce, Koray Kara and Mahmut Kuş, Enhanced Radiative Decay Rate of Confined Green Fluorescent Protein in Polyvinylpyrrolidone based Nanofiber, The Journal of Physical Chemistry C,**2016**, *120* (31), 17739–17744, **doi:** 10.1021/acs.jpcc.6b04074.
6. **Faruk Özel\*,** Emre Aslan, Bilal Istanbullu, Özge Akay, İmren Hatay Patir, Photocatalytic Hydrogen Evolution Based on Cu2ZnSnS4, Cu2NiSnS4, Cu2CoSnS4 Nanocrystals, Applied Catalysis B:  Environmental, [**2016**, 198, 67-73](http://dx.doi.org/10.1016/j.apcatb.2016.05.053). **doi:** [10.1016/j.apcatb.2016.05.053](http://dx.doi.org/10.1016/j.apcatb.2016.05.053)
7. **Faruk Özel\*,** Adem Sarılmaz, Bilal İstanbullu, Abdalaziz Aljabour; Mahmut Kuş and Savaş Sönmezoğlu, Penternary chalcogenides Cu2MSn(SeS)4 (M= Zn+2 and Co+2) nanocrystals as catalytic materials for efficient counter electrodes in dye-synthesized solar cells, Nature Scientific Reports, **2016**,6, 29207, **doi:** 10.1038/srep29207.
8. Zeynep Kişnişci, **Faruk Özel**, Ömer Faruk Yüksel, Nihat Tuğluoğlu, Optical characterization of Cu2ZnSnS4 Nanocrystals Thin Film, Journal of Materials Science: Materials in Electronics, **2016**, 27, 10128-10135, **doi:** 10.1007/s10854-016-5089-x.
9. Mehmet K. Gonce, Emre Aslan, **Faruk Özel\*** and İmren Hatay Patır, Dye-Sensitized CXTS (X= Zn, Ni, Fe, Co and Mn) Nanofibers for Efficient Photocatalytic Hydrogen Evolution, ChemSusChem, **2016**, 9 (6), 600-605. **doi:** 10.1002/cssc.201501661
10. Murat Yıldırım, **Faruk Özel**, Nihat Tuğluoğlu, Ömer Faruk Yüksel and Mahmut Kuş, Optical characterization of CZTSe4-xSx Nanocrystal Thin Film, Journal of Alloys and Compounds, **2016**, 666, 144-152. **doi:** [10.1016/j.jallcom.2016.01.107](http://dx.doi.org/10.1016/j.jallcom.2016.01.107)
11. **Faruk Özel\***

Earth Abundant Semiconductor Cu2MSnS4 (M = Fe, Co, Ni and Mn) Nanofibers: Fabrication, Characterization and Band Gap Arrangement, Journal of Alloys and Compounds, **2016**, 657, 157-162. **doi:** [10.1016/j.jallcom.2015.10.087](http://dx.doi.org/10.1016/j.jallcom.2015.10.087)

***2015***

1. Mehmet K. Gonce, Melike Dogru, **Faruk Özel**, İmren Hatay Patır, Mahmut Kuş, Mustafa Ersöz, Photocatalytic hydrogen evolution based on Cu2ZnSnS4, Cu2ZnSnSe4, Cu2ZnSnSe4-xSx nanofibers, RSC Advances, **2015**, **5**, 94025-94028. **doi:** 10.1039/C5RA18877F
2. Faruk Özel, Adem Yar, Abdalaziz Eljabour, Emre Arslan, Emre Arkan, Mustafa Can, İmren Hatay Patır, Mahmut Kuş, Mustafa Ersöz, Earth-Abundant Copper Cobalt Tin Sulfide Nanofibers for Highly Efficient H2 Evolution at Soft Interfaces, ChemNanoMat., 2015, 1, 477-481. (Inside BACK COVER) doi: 10.1002/cnma.201500113
3. Burak Büyükbekar, **Faruk Özel**, Hüseyin Şakalak, Halit Çavuşoğlu, Mustafa Ersöz, Mahmut Kuş, Mustafa Selman Yavuz, A comparative study on fabrication of Cu2ZnSnS4 (CZTS) Nanofibers using acetate and chloride metal precursors, Turk J Chem, **2015**, 39, 897-903. **doi:** [10.3906/kim-1501-124](http://dx.doi.org/10.3906/kim-1501-124)
4. **Faruk Özel\***, Mahmut Kuş, Adem Yar, Abdalaziz Aljabour, Emre Arkan, M.Zeliha Yiğit, Cem Tozlu, Mustafa Ersöz “Electrospinning of Cu2ZnSnSe4-xSx Nanofibers by Using PAN as Template”, Materials Letters, **2015**, 140, 23-26. **doi**: [10.1016/j.matlet.2014.10.132](http://dx.doi.org/10.1016/j.matlet.2014.10.132)
5. **Faruk Özel\***, Mahmut Kuş, Adem Yar, Emre Arkan, Mustafa Can, Abdalaziz Eljabour, Nurhan Mehmet Varal, Mustafa Ersöz, Fabrication of Quaternary Cu2FeSnS4 (CFTS) Nanocrystalline Fibers through Electrospinning Technique, Journal of Material Science, **2015**, 50,777-783. **doi:**10.1007/s10853-014-8637-x
6. Mahmut Kus, **Faruk Özel\***, Sümeyra büyükçelebi, Abdalaziz Eljobour, Ayşenur Erdoğan, Mustafa Ersöz, N.Serdar Sarıçitci, “Colloidal CuZnSnSe1-xSx nanocrystal based hybrid solar cells”, Optical Materials, **2015**, [39](http://dx.doi.org/10.1016/j.optmat.2014.11.007), 103-109. **doi:**[10.1016/j.optmat.2014.11.007](http://dx.doi.org/10.1016/j.optmat.2014.11.007)

***2014***

1. Meryem Gülce Subaşı, Necla Demir, Özlem Kara, A.Nilgün Oztürk, **Faruk Özel** Mechanical properties of zirconia after different surface treatments and repeated firings. J Adv Prosthodont, **2014**, 6(6), 462-7.
2. Özlem Usluer, Serafettin Demic, Mahmut Kus, **Faruk Özel**, Niyazi Serdar Sariçiftci “White Organic Light Emitting Diodes Based on Fluorene-Carbazole Dendrimers”, Journal of Luminescence, **2014**, 146, 6–10.
3. Aytac Gultekin, Gamze Karanfil, Seckin Akın, **Faruk Özel**, Mahmut Kus, Rıdvan Say, Savaş Sonmezoglu “Synthesis and optical, structural and morphological characterizations of Au nanoparticles doped TiO2 and CdO thin films”, [Journal of Physics and Chemistry of Solids](http://www.sciencedirect.com/science/journal/00223697), **2014**, 75,6, 775–781.
4. Nenad Marjanovic,. Alessandro Chiolerio, Mahmut Kus, **Faruk Özel**; Serhad Tilki; Nenad Ivanovic, Zlatko Rakocevic, Velibor Andric; Tanja Barudzija; Reinhard R Bauman. “Magnetite Nanoparticles: Synthesis, thin film proprties and Inkjet printing of magnetic cores for inductor applications”, Thin Solid Films, **2014**, 570, 38–44.
5. Emre Aslan, Okan Birinci, Abdalaziz Aljabour, Faruk Özel, Ilker Akın, Imren Hatay Patir, Mahmut Kusand Mustafa Ersoz “Photocatalytic Hydrogen Evolution by oleic acid-capped CdS, CdSe, CdS0.75Se0.25 Alloy Nanocrystals, ChemPhysChem, 2014, 15, 2668-2671.
6. Seckin Akın, **Faruk Özel**, Mahmut Kus, Savaş Sonmezoglu “Improvement in electrical performace of of half-metallic Fe3O4/GaAs structures using pyrolyzed polymer film as buffer layer”, Philosophical Magazine, **2014**, 94, 2678-2691.

***2013***

1. Aytaç Gültekin, Gamze Karanfil, **Faruk Özel**, Mahmut Kuş, Rıdvan Say, Savaş Sönmezoğlu The influence of CdS quantum dots incorporation on the properties of CdO thin films, The European Physical Journal Applied Physics, **2013**, 64, 30303.
2. Mahmut Kus, **Faruk Özel**, Nurhan Mehmet Varaland Mustafa Ersoz, “Luminescence Enhancement of OLED performance by doping colloidal magnetic Fe3O4 nanoparticles”, Progress in Electromagnetic Research, **2013**, 134, 509-524.

***2012***

***2011***

***2010***

1. Salih Okur, Mahmut Kus, **Faruk Özel**, Mustafa Yılmaz “Humidity adsorption kinetics of water soluble calix[4]arene derivatives measured using QCM technique”, Sensors and Actuators B: Chemical, **2010**, 145, 93–97.
2. Salih Okur, Mahmut Kus, **Faruk Özel**, Vildan Aybek, Mustafa Yılmaz “Humidity adsorption kinetics of calix[4]arene derivatives measured using QCM technique”, Talanta, **2010**, 81, 248–251.

***Bilimsel toplantılarda sunulan bildiriler***

1. Adem Sarılmaz,Dursun Taha Alemdar,Hamdi Şükür Kılıç, **Faruk Özel,**  “Penternary Cu2ZnSnSe4-xSx Nanofiber Counter Electrodes for Dye Sensitized Solar Cells: Effect of Selenization Process, ICSMD, 17-19 August 2017 Konya, Türkiye.
2. Adem Sarilmaz, **Faruk Özel,** Abdalaziz Aljabour, Abdurrauf Khasekeli, Mahmut Kuş, Effect of Doping on Thin Film Solar Cell Efficiency Based on ZnMn2O4 Nanocrystals, ICSMD, 17-19 August 2017 Konya, Türkiye.
3. Abdalaziz Aljabour, Hakan Bilgili, **Faruk Özel,** Study of Chemical and Compositional Dependency of CZTSe4-xSx Nanofiber Based Thin Film Solar Cells, ICSMD, 17-19 August 2017 Konya, Türkiye.
4. Ömer Faruk Yüksel, Nihat Tuğluoğlu, Osman Pakma, **Faruk Özel,** Electrical and Photoresponse Characteristics of Al/CZTSeS/n-Si Schottky Photodiode, ICSMD, 17-19 August 2017 Konya, Türkiye.
5. Zeynep Kişnişci, Nihat Tuğluoğlu, Faruk Özel, Ömer Faruk Yüksel, Analysis of the optical properties of CZTSe nanocrystalline compound semiconductor thin film, ICSMD, 17-19 August 2017 Konya, Türkiye.
6. Seçkin Akın, Erdinç Erol, Mahir Gülen, Erdi akman, Buket Bezgin Çarbaş, Faruk Özel, Savaş Sönmezoğlu, Synthesis of CXTS (X= Mn,Ni) thin films by two step electrodeposition and their appliction in DSSC as counter electrode, E-MRS Fall meeting, 18-21 Sep. 2017, Warsaw, Poland.
7. Gizem Yanalak, Abdalaziz aljabour, Emre Aslan, Faruk Özel, İmren HATAY PATIR Co3O4 ve Karbonnanotüp ile kompozitli (Co3O4-CNT) katalizörlüğünde fotokatalitik hidrojen üretimi, 29. Ulusal Kimya Kongresi, Ankara,Türkiye.
8. Mehmet Kerem GÖNCE, Melike DOĞRU, Emre ASLAN, Faruk ÖZEL, İmren HATAY PATIR, Mahmut KUŞ, Mustafa ERSÖZ, Cu2ZnSnS4, Cu2ZnSnSe4 ve Cu2ZnSnSe4-xSx Nanofiberler Katalizörlüğünde Fotokatalitik Hidrojen Üretimi, 6. Fiziksel Kimya Kongresi, 15-18 Mayıs 2017, Zonguldak, Türkiye.
9. Emre Aslan, Faruk Özel, İmren Hatay Patır, Dye-Sensitized CuWS nanocubes for efficient hydrogen evolution from water, Nano-2016, 24-27 August 2016, Lviv, Ukrayna.
10. Adem Sarılmaz and **Faruk Özel,** Tetrahedite Nanocrystals as a low cost counter electrode for Dye sensitized solar cells, 1st International Mediterranen Science and Engineering Congress, 26-28 October 2016 Adana, Turkiye.
11. Adem Sarılmaz, Mümin Can and **Faruk Özel,** Two Phase Synthesis of ZnMn2O4 Nanocrystals, 1st International Mediterranen Science and Engineering Congress, 26-28 October 2016 Adana, Turkiye.
12. Abdalaziz Aljabour,Dogukan Hazar Apaydin, Halime Coskun, **Faruk Ozel**, Mustafa Ersoz, Philipp Stadler, Niyazi Serdar Sariciftci and Mahmut Kus, Improvmet of Catalytic Activity nanofibrous CuInS2 for CO2 Reduction, E-MRS Fall meeting, 19-22 Sep. 2016, Warsaw, Poland.
13. Yakup Ulusu, **Faruk Özel**, Numan Eczacıoğlu, Abdurrahman Özen, Sabriye açıkgöz, “Fabrication of Electrospun Green fluorescent Protein Nanofibers for Biomedical Applications”, ICBBE 2016,18th International Conference on Bioengineering and Biomedical Engineering” Aug 08-09, 2016, 18 (8) Part VIII, Venice Italy.
14. Sevda Aktaş, Abdurrahman Özen, **Faruk Özel**, Ülfet Atav, Savaş Sönemzoğlu, “Synthesis of Cu2WS4 Nanofibers by electrospinning Technique” 28 June- 1 July 2016 HOPV16, Swansea, United Kingdom.
15. Erdinç Erol, Merve Tolu, Buket Çarbaş, **Faruk Özel**, Savaş Sönmezoğlu, “Studies on Potential Optimization of CZTS Thin Film Prepared by One-Step Electrochemical Deposition Method”, OEMT2016, 17-19 May 2016, Çanakkale, TÜRKİYE.
16. Seçkin Akın, Recep Taş, Mahir Gülen, Erdi Akman, M. Can, **Faruk Özel**, Savaş Sönmezoğlu, "The Effects of Solvents on the Photovoltaic Performance of Dye Sensitized Solar Cells Based on Copper Doped Polyaniline as Counter Electrode", **SolarTR-3**, 27-29 April 2015, Ankara, TÜRKİYE.
17. Abdurrahman Ozen, Adem Sarilmaz, **Faruk ÖZEL**, Bandgap Tunable CuZnSnSeS

Nanofibers, AFMAT, 26-28 October 2015,Antalya, TÜRKİYE.

1. Adem Sarilmaz, Abdurrahman Ozen, **Faruk ÖZEL**, Hot Injection Synthesis of Ternary CuWS Nanocrystals, AFMAT, 26-28 October 2015,Antalya, TÜRKİYE.
2. Adem Sarılmaz and **Faruk Ozel**, Fabrication of CMTS (M= Zn,Mn,Co,Fe,Ni) Nanofibers, E-MRS Spring meeting, 11-15 May 2015, Lille, FRANCE.
3. Mahir Gülen; Erdi Akman, Recep Tas, Muzaffer Can; **Faruk Ozel** and Savaş Sonmezoğlu, Utilizing of *in situ* prepared metal doped polyaniline counter electrodes in dye-sensitized solar cells, E-MRS Spring meeting, 11-15 May 2015, Lille, FRANCE.
4. **Faruk Ozel**, Bilal Istanbullu, Aziz Jabour, Savaş Sönmezoğlu and Mahmut Kus, Solution processable chalcositibite (CuSbS2) nanocrystals for Inkjet Printed devices, E-MRS Spring meeting, 11-15 May 2015, Lille, FRANCE.
5. Erdi AKMAN; Adem SARILMAZ; Mahir GÜLEN; Bilal İSTANBULLU; Mahmut Kuş; **Faruk Ozel** and Savaş SÖNMEZOĞLU, Synthesis of Cu2ZnSnS4 and Cu2NiSnS4 nanorods by colloidal method and applications as counter electrodes in dye-sensitized solar cells (DSSC), E-MRS Spring meeting, 11-15 May 2015, Lille, FRANCE.
6. **Faruk Ozel**, Kerem Gönce, Adem Yar, Mustafa Can, Mahmut Kus, Fabrication of Tetrahedtite (Cu12Sb4S13) Nanofibers, E-MRS Spring meeting, 11-15 May 2015, Lille, FRANCE.
7. Nurhan Mehmet Varal, **Faruk Ozel**, Koray Kara, Mahmut Kuş, Duygu Kara, Mustafa Ersöz, Efficiency and Mobility increasement by doping colloidal Fe3O4 magnetic nanoparticles of MEHPPV based organic light emitting diodes, E-MRS Spring meeting, 11-15 May 2015, Lille, FRANCE.
8. Ömer Faruk Yüksel, S. Karadeniz, **Faruk Ozel**, Mahmut Kuş, N.Tuğluoğlu, Electrical Properties of Al/CZTSe Nanocrystal Schottky Diode International Semiconductor Science and Technology Conference, Istanbul, TÜRKİYE, January 13–15 2014, ISSTC–2014
9. Mahmut Kus, **Faruk Ozel,** Abdalaziz Aljabour, Ayşenur Erdogan, Sumeyra Buyukcelebi, Mustafa Ersoz, Self organization of nanopatterned devices based on BCP-Nanocrystal hybrids, INT working group 2&3 Meeting, Modelling and Characterization of Hybrid Interface, 3-4 march 2014, Urbino, Italy.
10. Abdullah Kepceoğlu, Yasemin Gündoğdu, **Faruk Ozel** & Hamdi Şükür KILIÇ*,* Productıon of the some transıtıon metal oxıde nanopartıcles usıng femtosecond pulsed laser ablatıon ın lıquıd method and characterızatıon of TMO NPs, 31. Uluslar Arası Fizik Kongresi, 23.07.2014, Bodrum, TÜRKİYE. (<http://tfd31.turkfizikdernegi.org/wp-content/uploads/2014/program.pdf>)
11. Burak Büyükbekar, **Faruk Ozel,** Hüseyin Şakalak, Mahmut Kuş, Mustafa Selman Yavuz, Fabrication of Cu2ZnSnS4 (CZTS) Nanofibers via Electrospinning, NANO-TR 9 Nanoscience and Nanotechnology Conference, 2013, Erzurum, TÜRKİYE.
12. Mahmut Kus, **Faruk Ozel,** Sumeyra Buyukcelebi, Mustafa Ersoz, Niyazi Serdar Sariçiftci, Indium free colloidal CuZnSnSe1-xSx Nanocrystals, Solar Energy for World Peace,2013,İstanbul, TÜRKİYE.
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***Patentler***

1. Buluş Sahipleri: **Faruk Özel,** Mahmut Kuş

Hak Sahipleri: **Faruk Özel,** Âdem Yar, Mahmut Kuş

“[Elektrolif Çekimi](http://tureng.com/search/elektro%20lif%20%C3%A7ekimi%20y%C3%B6ntemi) (ELEKTROSPINNING) Yöntemi İle Üretilen CZTSeS/CdS Yapısında Fiber Malzemeden Güneş Hücresi ve Üretme Yöntemi”

Türk Patent Enstitüsü, İncelemesiz Patent

Başvuru no: 2014/08723 - Evrak no: 2014-GE-13639

1. Buluş ve Hak Sahipleri: **Faruk Özel,** Âdem Yar, Mahmut Kuş

“Elektro Lif Çekimi (Electrospinning) Yöntemi İle CZTSeS Nanofiber Malzeme Oluşturma”

Türk Patent Enstitüsü, İncelemede

Başvuru no: 2014/06843 - Evrak no: 2014-G-214774

***Kitap Bölümleri***

**Kitap:** Surface Treatments for Biological, Chemical and Physical Applications,

[Mehmet Gürsoy](http://eu.wiley.com/WileyCDA/Section/id-302479.html?query=Mehmet+Gursoy), [Mustafa Karaman](http://eu.wiley.com/WileyCDA/Section/id-302479.html?query=Mustafa+Karaman), ISBN: 978-3-527-34083-5

**Bölüm:** (2) CHEMICAL AND PHYSICAL MODIFICATIONS THE SURFACES,

[Mustafa Karaman](http://eu.wiley.com/WileyCDA/Section/id-302479.html?query=Mustafa+Karaman), [Mehmet Gürsoy](http://eu.wiley.com/WileyCDA/Section/id-302479.html?query=Mehmet+Gursoy), Mahmut KUŞ, **Faruk ÖZEL,** Esma Yenel, Özlem G. Şahin, Hilal D. Kıvrak.

***Verilen Dersler***

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| Güneş Enerjisi Malzemeleri ve Güneş Hücreleri | 3 | - |
| Malzeme Bilimi ve İleri Malzeme Teknikleri | 3 | - |
| Genel Kimya | 3 | - |