

## Öğr.Gör. Esin EREN

### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, Süleyman Demirel Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, Türkiye 2011 - 2016

Yüksek Lisans, Ege Üniversitesi, Güneş Enerjisi Enstitüsü, Güneş Enerjisi, Türkiye 2005 - 2008

Lisans, Ege Üniversitesi, Fen Fakültesi, Kimya Bölümü, Türkiye 2000 - 2005

### Araştırma Alanları

Kimya, Fizikokimya, Polimerik Malzemeler, Temel Bilimler

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **A Machine Learning Approach for Metal Oxide Based Polymer Composites as Charge Selective Layers in Perovskite Solar Cells**  
YILDIRIM M. O. , Gok E. C. , Hemasiri N. H. , EREN E., Kazim S., ÖKSÜZ A., Ahmad S.  
CHEMPLUSCHEM, cilt.86, sa.5, ss.785-793, 2021 (SCI İndekslerine Giren Dergi)
- II. **Flexible nickel Prussian blue analogue films for electrochromic and H<sub>2</sub>O<sub>2</sub> sensing**  
EREN E., ÖKSÜZ A.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.31, sa.18, ss.15434-15445, 2020 (SCI İndekslerine Giren Dergi)
- III. **Comparison of Machine Learning Models on Performance of Single- and Dual-Type Electrochromic Devices**  
Gok E. C. , Yıldırım M. O. , Eren E., Öksüz A.  
ACS OMEGA, cilt.5, ss.23257-23267, 2020 (SCI İndekslerine Giren Dergi)
- IV. **A practical approach for generation of WO<sub>3</sub>-based flexible electrochromic devices**  
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JOURNAL OF SOLID STATE ELECTROCHEMISTRY, cilt.24, sa.4, ss.1057-1065, 2020 (SCI İndekslerine Giren Dergi)
- V. **Effect of Electrolyte on Performance of Electrochromic Films Including Plasma Modified V2O5 Composite**  
EREN E., Yıldız A., Celik Cogal G., Sen Gursoy S., UYGUN E., ÖKSÜZ L., Uygun Oksuz A.  
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- VI. **Sterilization of Natural Rose Water with Nonthermal Atmospheric Pressure Plasma**  
DOGAN C., Oksuz A., Maslakci N. N. , EREN E., UYGUN E., ÖKSÜZ L.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, cilt.44, sa.7, ss.6403-6410, 2019 (SCI İndekslerine Giren Dergi)
- VII. **Improved performance and stability of solid state electrochromic devices with eco-friendly chitosan-based electrolytes**

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- VIII. **Enhanced electrochromic characteristics induced by Au/PEDOT/Pt microtubes in WO<sub>3</sub> based electrochromic devices**  
KARACA G. Y. , EREN E., COGAL G. C. , UYGUN E., ÖKSÜZ L., Oksuz A.  
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- IX. **High-performance Flexible Complementary Electrochromic Device Based on Plasma Modified WO<sub>3</sub> Nano Hybrids and V2O<sub>5</sub> Nanofilm with Low Operation Voltages**  
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- X. **Enhanced electrochromic performance of WO<sub>3</sub> hybrids using polymer plasma hybridization process**  
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- XI. **Electrochromic characteristics of radio frequency plasma sputtered WO<sub>3</sub> thin films onto flexible polyethylene terephthalate substrates**  
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- XII. **Plasma Modified V2O<sub>5</sub>/PEDOT Hybrid Based Flexible Electrochromic Devices**  
KARACA G. Y. , EREN E., ALVER C., KOC U., UYGUN E., ÖKSÜZ L., Oksuz A.  
ELECTROANALYSIS, cilt.29, sa.5, ss.1324-1331, 2017 (SCI İndekslerine Giren Dergi)
- XIII. **Phase Segregation of PEDOT: PSS on Textile to Produce Materials of > 10 A mm<sup>(-2)</sup> Current Carrying Capacity**  
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- XIV. **Fast electrochromic response for RF-magnetron sputtered electrospun V2O<sub>5</sub> mat**  
EREN E., KARACA G. Y. , ALVER C., OKSUZ A. U.  
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- XV. **Electrospun plasma-modified chitosan/poly(ethylene terephthalate)/ferrocenyl-substituted N-acetyl-2-pyrazoline fibers for phosphate anion sensing**  
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- XVI. **Atmospheric pressure plasma treatment of wool fabric structures**  
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- XVII. **Evaluation of anthocyanin, a rose residue extract, for use in dye-sensitized solar cell**  
EREN E., Gök E. C. , Seyhan B. N. , Maslakci N. N. , Oksuz A.  
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- XVIII. **The Effect of Anionic Surfactant on the Properties of Polythiophene/Chitosan Composites**  
EREN E., ASLAN E., Oksuz A. U.  
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- XIX. **In situ investigation of surfactants' effect onto electrochemical synthesis and properties of polyfurans**  
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- XX. **Electrochemical Polymerization of 2-Thiophen-3-yl-malonic Acid for Biosensor Application**  
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- XXI. **A Solution-Processible, n-Dopable Polypyrrole Derivative**  
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- XXII. **Synthesis of poly(3,4-ethylenedioxythiophene)/titanium dioxide nanocomposites in the presence of surfactants and their properties**  
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- XXIII. **Synthesis and Photophysical Characterizations of Thermal -Stable Naphthalene Benzimidazoles**  
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- XXIV. **Dye sensitized solar cell based on 1,8-naphthalene benzimidazole comprising carboxyl group**  
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## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **RF plasma polymer modification of graphene oxide for micromotors with improved performance**  
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- II. **Electrochemical Characteristics of Azo Dyes Doped Poly(3,4-Ethylenedioxythiophene)**  
DÜLGERBAKİ Ç., kömür a. i. , EREN E., Tkach V. V. , Skrypska O. V. , Kushnir M. V. , Ivanushko Y. G. , Yagodynets P. I. , ÖKSÜZ A.  
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- III. **Li doped chitosan-based solid polymer electrolyte incorporated with PEDOT:PSS for electrochromic device**  
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- IV. **PLASMA MODIFIED WO3 HYBRIDS WITH ALTERED DONOR GROUPS FOR FLEXIBLE ELECTROCHROMIC APPLICATIONS**  
EREN E., ALVER C., ÖKSÜZ A.  
Anadolu University Journal of Science and Technology-A Applied Sciences and Engineering, cilt.19, sa.2, ss.468-483, 2018 (Diğer Kurumların Hakemli Dergileri)
- V. **Surface properties of radio frequency plasma treated wool and denim fabrics**  
HALA A., KARACA G. Y. , EREN E., ÖKSÜZ L., BOZDUMAN F., KIRISTI M., KOMUR A. I. , Gulec A., OKSUZ A. U.  
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## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **Bending Impact on Electrochemical Performance of Prussian blue-based hybrid thin films**  
EREN E.  
3rdInternational Eurasian Conference on Biological and Chemical Sciences, 19 - 20 Mart 2020
- II. **ELECTROCHEMICAL PERFORMANCE OF PANI-TiO2-BASED FLEXIBLE THIN FILM**  
EREN E.  
3. ULUSLARARASI GAP MATEMATİK - MÜHENDİSLİK - FEN VE SAĞ LIK BİLİMLERİ KONGRESİ, Türkiye, 29 Kasım - 01 Aralık 2019
- III. **Antibacterial Effects Of Streptomycin (St) Loaded Nanofibers Named PMMA/PEO/N10-St and PMMA/PEO/N2-St**  
ÇEVİKBAŞ H., ULUSOY S., NOHUT MAŞLAKCI N., EREN E., BİÇER A., TURGUT CİN G., ÖKSÜZ A.  
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- IV. **The Electrochemical Performance of Prussian blue-based hybrid flexible thin films for phosphate**

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EREN E., ÖKSÜZ A.

the 2nd Eurasia Biochemical Approaches Technologies Congress, Antalya, Türkiye, 26 - 29 Ekim 2019

- V. **A comparative characterization study of characteristics of plasma modified graphene oxides**  
ÖKSÜZ L., EREN E., Komur A. İ. , ÖKSÜZ A., Hamaguchi S.  
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- VI. **Antibacterial Activity of Wool Fabrics Treated With Different Azo Dyes**  
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- VII. **Investigation of Antibacterial Properties of PMMA/PEO Fibers Loaded With Antimicrobial Agent**  
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- VIII. **ELECTROCHROMIC PROPERTIES OF PEDOT-BASED DUAL-TYPE ELECTROCHROMIC DEVICE INCLUDING CHITOSAN ELECTROLYTE**  
EREN E.  
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- IX. **Chitosan Electrolytes Incorporating PEDOT:PSS For Electrochromic Devices**  
EREN E.  
International Eurasian Conference on Biological and Chemical Science, 26 - 27 Nisan 2018
- X. **A simple and beneficial design for WO<sub>3</sub> hybrids-based flexible electrochromic devices**  
EREN E., filiz m., ÖKSÜZ A.  
the spring 2018 meeting of to be cost action MP1308, 12 - 14 Mart 2018
- XI. **Plasma Modification of Different Metal Oxide for flexible electrochromic applications**  
EREN E., alver c., karaca yurdabak g., uygun e., ÖKSÜZ L., ÖKSÜZ A.  
The spring 2018 meeting of To-Be Cost Action MP1308, 12 - 14 Mart 2018
- XII. **Liquid plasma synthesis of carbon coated iron oxide particles**  
ÖKSÜZ A., hershkovitz n., EREN E., uygun e., celik cogal g., Karaca g., manolache s., gunasekaran s., sadak o., ÖKSÜZ L.  
APS meeting, 23 - 27 Ekim 2017
- XIII. **Determination of the profit rate of plasma treated production in the food sector**  
GÖK e. c. , Uygun e., EREN E., ÖKSÜZ L., ÖKSÜZ A.  
59th Annual Meeting of the APS Division of Plasma Physics, 23 - 27 Ekim 2017
- XIV. **Improved Performance of Flexible Electrochromic Devices With The Counter Electrode of V2O5 Thin Films**  
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13 th Nanoscience Nanotechnology Conference, 22 - 25 Ekim 2017
- XV. **The Effect of Conducting PEDOT Microtubes on WO<sub>3</sub>-based Flexible Electrochromic Devices**  
EREN E., cogal g. c. , uygun e., ÖKSÜZ L., ÖKSÜZ A.  
13th Nanoscience and Nanotechnology Conference, 22 - 25 Ekim 2017
- XVI. **Deposition and Characterization of Titanium Dioxide Thin Films by Ultrasonic Spray Pyrolysis Method**  
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- XVII. **DETERMINATION OF OPTICAL AND ELECTROCHROMIC PROPERTIES OF PLASMA PREPARED V2O5/POLYFURAN HYBRIDS IN PRESENCE OF NaClO<sub>4</sub> ELECTROLYTE**  
YILDIZ A., EREN E., ÇELİK ÇOĞAL G., ŞEN GÜR SOY S., ÖKSÜZ A.  
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- XVIII. **The effect of conducting polymers in plasma modified WO<sub>3</sub> hybrids for flexible electrochromic applications**  
EREN E., Alver C., Karaca G. Y. , Uygun E., ÖKSÜZ L., ÖKSÜZ A.  
The International Joint Science Congress of Materials and Polymers, 25 - 28 Ağustos 2017

- XIX. FLEXIBLE ELECTROCHROMIC DEVICES OF PLASMA MODIFIED WO<sub>3</sub> HYBRIDS INCLUDING ALTERED DONOR GROUPS**  
EREN E., Alver C., Karaca G. Y. , Uygun E., ÖKSÜZ L., ÖKSÜZ A.  
International Congress on Semiconductor Materials and Devices” (ICSMD-2017), 17 - 19 Ağustos 2017
- XX. A STUDY ON FLEXIBLE SOLID STATE ELECTROCHROMIC DEVICES CONSISTING OF RF PLASMA MODIFIED WO<sub>3</sub> HYBRID**  
EREN E., alver c., karaca g. y. , uygun e., ÖKSÜZ L., ÖKSÜZ A.  
The 44 th international conference on plasma science (ICOPS 2017), 21 - 25 Mayıs 2017
- XXI. Plasma Deposition of PEDOT onto metal oxides for electrochromic textile applications**  
EREN E., Alver c., karaca g. y. , ÖKSÜZ A.  
TO-BE Spring meeting 'Towards Oxide-Based Electronics', 3 - 05 Nisan 2017
- XXII. Electrochemical Properties of Plasma Modified V<sub>2</sub>O<sub>5</sub> in the presence of different electrolytes**  
cogal g. ç. , EREN E., yıldız a., ŞEN GÜR SOY S., ÖKSÜZ A.  
TO-BE Spring meeting 'Towards Oxide-Based Electronics', 3 - 05 Nisan 2017
- XXIII. Plasma Modified WO<sub>3</sub> Hybrids for High Efficient Flexible Devices**  
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TO-BE Spring meeting 'Towards Oxide-Based Electronics', 3 - 05 Nisan 2017
- XXIV. Substitution effects in aniline on electrochromic properties of hybrid flexible device**  
ÖKSÜZ A., EREN E., Alver c., karaca g. y.  
253. American Chemical Society National Meeting, 2 - 06 Nisan 2017
- XXV. ELECTROCHROMIC CHARACTERISTICS AS A FUNCTION OF ELECTROLYTE ON PERFORMANCE OF ELECTROCHROMIC FILMS INCLUDING PLASMA MODIFIED V<sub>2</sub>O<sub>5</sub>, HYBRIDS**  
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44th IEEE International Conference on Plasma Science (ICOPS), New-Jersey, Amerika Birleşik Devletleri, 21 - 25 Mayıs 2017
- XXVI. A STUDY ON FLEXIBLE SOLID STATE ELECTROCHROMIC DEVICES CONSISTING OF RF PLASMA MODIFIED WO<sub>3</sub> HYBRID**  
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- XXVII. Plasma Modified Hybrid Flexible Electrochromic Device Based on PANI derivative and WO<sub>3</sub>**  
EREN E., Alver C., Karaca G. Y. , ÖKSÜZ A.  
COST TO-BE FALL MEETING 2016, 28 - 30 Eylül 2016
- XXVIII. Effect of Ag Counter Electrode on WO<sub>3</sub> Based Flexible Electrochromic Devices**  
Cogal G. C. , EREN E., Karaca G. Y. , ÖKSÜZ A.  
COST TO-BE FALL MEETING 2016, 28 - 30 Eylül 2016
- XXIX. Esnek WO<sub>3</sub> Polianilin PANI Hibrit Filmlere dayalı Elektrokromik Cihaz Özelliklerinin İncelenmesi**  
Alver C., EREN E., Karaca G. Y. , ÖKSÜZ A.  
VI. Ulusal Polimer Bilim ve Teknolojisi Kongresi, Türkiye, 4 - 07 Eylül 2016
- XXX. Elastik Polidimetilsiloksan PDMS Elektrokromik Cihaz Eldesi**  
Karaca G. Y. , ÖKSÜZ A., ÖKSÜZ L., EREN E., Koç Ü., Alver C.  
VI. Ulusal Polimer Bilim ve Teknolojisi Kongresi, Türkiye, 4 - 07 Eylül 2016
- XXXI. Esnek PET Nanolif Elektroduna Dayalı Elektrokromik Özelliklerinin İncelenmesi**  
EREN E., KARACA YURDABAK g., Alver c., ÖKSÜZ A.  
VI. Ulusal Polimer Bilim ve Teknolojisi Kongresi, Türkiye, 4 - 07 Eylül 2016
- XXXII. Rf Plasma Modified WO<sub>3</sub> and V<sub>2</sub>O<sub>5</sub> Hybrid Electrochromic Devices**  
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To Be Spring Meeting 2016 University of Warwick (MP1308 Cost Action To-Be), 6 - 08 Nisan 2016
- XXXIII. RF plasma modified WO<sub>3</sub> and V<sub>2</sub>O<sub>5</sub> hybride electrochromic device**  
yurdabak karaca g., EREN E., alver c., ÖKSÜZ A.  
COST TO BE SPRING MEETING, 6 - 08 Nisan 2016

- XXXIV. **Metal oxide film for nanofiber based electrochromic textile**  
EREN E., Karaca G. Y. , Alver C., ÖKSÜZ A.  
To be spring Meeting 2016 University of Warwick (MP1308 COST Action To-be), 6 - 08 Nisan 2016
- XXXV. **Metal oxide film for nanofiber based electrochromic film**  
EREN E., Yurdabak karaca g., alver c., ÖKSÜZ A.  
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- XXXVI. **Plasma Modified Chitosan N Acetyl 2 Pyrazoline derivative nanofibers**  
G TURGUT C., S DEMİREL T., NOHUT MAŞLAKCI N., EREN E., ÖKSÜZ A.  
IEEE ICOPS 2015, Türkiye, 24 - 28 Mayıs 2015
- XXXVII. **A study on characterization of polymer coated wool fabrics using plasma polymerization**  
EREN E., ÖKSÜZ L., komur A. I. , FERHAT b., NOHUT MAŞLAKCI N., ÖKSÜZ A.  
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- XXXVIII. **Tungsten Trioksit WO3 Dayalı Elektrokromik Tekstil Üretimi ve Özelliklerinin İncelenmesi**  
EREN E., gözde yurdabak k., ferhat b., ÖKSÜZ A., ümran k.  
5. Fiziksel Kimya Kongresi, Konya, Türkiye, 16 - 19 Mayıs 2015
- XXXIX. **Mıknatıs Saçtırma Tekniği ile Elastik Elektrokromik Sistemlerin Hazırlanması**  
ÖKSÜZ A., EREN E., gözde yurdabak k., ÖKSÜZ L., ferhat b., ümran k.  
5. Fiziksel Kimya Kongresi, Türkiye, 16 - 19 Mayıs 2015
- XL. **Esnek Tungsten Trioksit WO3 Film Üretimi ve Elektrokromik Özelliklerinin İncelenmesi**  
GÖZDE YURDABAK k., EREN E., ferhat b., ÖKSÜZ A., ÜMRAN k.  
5. Fiziksel Kimya Kongresi, Türkiye, 16 - 19 Mayıs 2015
- XLI. **ELECTROSPUN FIBERS COATED ONTO PLASMA MODIFIED AND NONMODIFIED WOOLS**  
Maslakci N. N. , ÖKSÜZ A., ÖKSÜZ L., Bozduman F., EREN E.  
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- XLII. **Environmental Friendliness Dye Sensitive Solar Cell**  
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IMEPS (International Middle East Plasma Science), 23 - 25 Nisan 2014
- XLIII. **Template Synthesis Characterization and Investigation of Electrochromic Properties of Poly 3 4 ethylenedioxythiophene PEDOT**  
EREN E., ERDOĞAN t., ÖKSÜZ A.  
44th World Chemistry Congress, Türkiye, 11 - 16 Ağustos 2013
- XLIV. **Şablon yöntemiyle poli 3 4 etilendioksitiyofen PEDOT sentezi karakterizasyonu ve elektrokromik özelliklerinin incelenmesi**  
EREN E., erdoğan t., ÖKSÜZ A.  
XIII. Ulusal Spektroskopi Kongre, Türkiye, 15 - 18 Mayıs 2013
- XLV. **Yüzey Aktif Madde varlığında ve elektrokimyasal yöntemle sentezlenen polifuranın eşzamanlı olarak EQCM tekniği ile incelenmesi**  
NOHUT MAŞLAKCI N., EREN E., ÖKSÜZ A.  
XIII. Ulusal Spektroskopi Kongre, Türkiye, 15 - 18 Mayıs 2013
- XLVI. **In situ Investigation of Surfactant Effect onto Electrochemical Synthesis and Properties of Polyfuran using EQCM**  
NOHUT MAŞLAKCI N., EREN E., ÖKSÜZ A.  
Chemical Physics Congress X TOBB University of Economics and Technology, Türkiye, 10 - 12 Ekim 2012
- XLVII. **Synthesis and Characterization of Poly 3 4 ethylenedioxythiophene Titanium Dioxide PEDOT TiO2 Nanocomposite**  
EREN E., gamze c., ÖKSÜZ A.  
ISSP 2011-International Summer School on Polymers, Slovakya, 22 - 26 Ağustos 2011
- XLVIII. **Electrochemical Polymerization of 2 Thiophen 3 yl Malonic Acid for Biosensör Application**  
gamze c., EREN E., ÖKSÜZ A.  
ISSP 2011-International Summer School on Polymers, Slovakya, 22 - 26 Ağustos 2011
- XLIX. **1 8 Naftalen benzimidazol türevlerinin sentezleri fotokimyasal ve elektrokimyasal özelliklerinin**

## **incelenmesi**

EREN E., ERTEN ELA Ş., siddik i.

XXI. Ulusal Kimya Kongresi, Türkiye, 23 - 27 Ağustos 2007

**L. The fabrication of dye sensitized solar cells and investigation of their performance**

MUSTAFA EMRE a., ERTEN ELA Ş., EREN E., CAN M., SİDDİK i.

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**LI. Electrochemistry and photophysical properties of 4 bromo 4 amino 1 8 Naphthalene benzamide derivatives comprising carboxyl group**

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