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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. **Evaluation of Supercapacitor Properties of Radio Frequency Sputter Binder-Free and Nanosandwich WO₃/SiO₂/WO₃ Thin Film**
MUSLU E., EREN E., Uygun Oksuz A.
Energy Technology, cilt.11, sa.10, 2023 (SCI-Expanded)
- II. **Investigation of the electrochemical behaviors of fibers containing new pyrazolo[5,1-c][1,2,4]triazine derivatives**
Maslakci N. N., EREN E., Dulgerbaki C., Yildirim F., ÖKSÜZ A.
POLYMER-PLASTICS TECHNOLOGY AND MATERIALS, cilt.62, sa.7, ss.877-888, 2023 (SCI-Expanded)
- III. **Automated Machine Learning Approach in Material Discovery of Hole Selective Layers for Perovskite Solar Cells**
Yildirim M. O., Yildirim E. C. G., EREN E., Huang P., Haris M. P. U., Kazim S., Vanschoren J., ÖKSÜZ A., Ahmad S.
ENERGY TECHNOLOGY, cilt.11, sa.1, 2023 (SCI-Expanded)
- IV. **Prussian Blue-Based Flexible Thin Film Nanoarchitectonics for Non-enzymatic Electrochemical Glucose Sensor**
MUSLU E., EREN E., ÖKSÜZ A.
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- V. **Controlled drug release characteristics and antibacterial influence of streptomycin sulfate-loaded PMMA/PEO/bis-chalcone derivatives-based fibers**
Maslakci N. N., EREN E., Kocer K. N., Cevikbas H., ULUSOY S., Bicer A., TURGUT CİN G., ÖKSÜZ A.

MATERIALS TODAY COMMUNICATIONS, cilt.31, 2022 (SCI-Expanded)

- VI. **Predicting Perovskite Bandgap and Solar Cell Performance with Machine Learning**
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- VII. **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.
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- VIII. **Comparison of Machine Learning Models on Performance of Single- and Dual-Type Electrochromic Devices**
Gok E. C., Yildirim M. O., Eren E., Öksüz A.
ACS OMEGA, cilt.5, ss.23257-23267, 2020 (SCI-Expanded)
- IX. **Flexible nickel Prussian blue analogue films for electrochromic and H₂O₂ sensing**
EREN E., ÖKSÜZ A.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, cilt.31, sa.18, ss.15434-15445, 2020 (SCI-Expanded)
- X. **A practical approach for generation of WO₃-based flexible electrochromic devices**
EREN E., Aydin M. F., Oksuz A. U.
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- XI. **Effect of Electrolyte on Performance of Electrochromic Films Including Plasma Modified V₂O₅ Composite**
EREN E., Yildiz A., Celik Cogal G., Sen Gursoy S., UYGUN E., ÖKSÜZ L., Uygun Oksuz A.
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- XII. **Sterilization of Natural Rose Water with Nonthermal Atmospheric Pressure Plasma**
DOGAN C., Oksuz A., Maslakci N. N., EREN E., UYGUN E., ÖKSÜZ L.
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- XIII. **Improved performance and stability of solid state electrochromic devices with eco-friendly chitosan-based electrolytes**
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- XIV. **Enhanced electrochromic characteristics induced by Au/PEDOT/Pt microtubes in WO₃ based electrochromic devices**
KARACA G. Y., EREN E., COGAL G. C., UYGUN E., ÖKSÜZ L., Oksuz A.
OPTICAL MATERIALS, cilt.88, ss.472-478, 2019 (SCI-Expanded)
- XV. **High-performance Flexible Complementary Electrochromic Device Based on Plasma Modified WO₃ Nano Hybrids and V₂O₅ Nanofilm with Low Operation Voltages**
EREN E., ALVER C., Karaca G. Y., UYGUN E., ÖKSÜZ L., Oksuz A.
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- XVI. **Enhanced electrochromic performance of WO₃ hybrids using polymer plasma hybridization process**
EREN E., ALVER C., KARACA G. Y., UYGUN E., OKSUZ A. U.
SYNTHETIC METALS, cilt.235, ss.115-124, 2018 (SCI-Expanded)
- XVII. **Electrochromic characteristics of radio frequency plasma sputtered WO₃ thin films onto flexible polyethylene terephthalate substrates**
EREN E., KARACA G. Y., KOC U., ÖKSÜZ L., OKSUZ A. U.
THIN SOLID FILMS, cilt.634, ss.40-50, 2017 (SCI-Expanded)
- XVIII. **Plasma Modified V₂O₅/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-Expanded)
- XIX. **Phase Segregation of PEDOT: PSS on Textile to Produce Materials of > 10 A mm⁻² Current Carrying Capacity**

- Otley M. T., Alamer F. A., Guo Y., Santana J., Eren E., Li M., LOMBARDI J., Sotzing G. A.
MACROMOLECULAR MATERIALS AND ENGINEERING, cilt.302, sa.3, 2017 (SCI-Expanded)
- XX. **Fast electrochromic response for RF-magnetron sputtered electrospun V2O5 mat**
EREN E., KARACA G. Y., ALVER C., OKSUZ A. U.
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- XXI. **Electrospun plasma-modified chitosan/poly(ethylene terephthalate)/ferrocenyl-substituted N-acetyl-2-pyrazoline fibers for phosphate anion sensing**
Maslakci N. N., EREN E., Topel S. D., Cin G. T., OKSUZ A. U.
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- XXII. **Atmospheric pressure plasma treatment of wool fabric structures**
EREN E., ÖKSÜZ L., KOMUR A. I., BOZDUMAN F., Maslakci N. N., OKSUZ A. U.
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- XXIII. **Evaluation of anthocyanin, a rose residue extract, for use in dye-sensitized solar cell**
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- XXIV. **The Effect of Anionic Surfactant on the Properties of Polythiophene/Chitosan Composites**
EREN E., ASLAN E., Oksuz A. U.
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- XXV. **In situ investigation of surfactants' effect onto electrochemical synthesis and properties of polyfurans**
Nohut N., EREN E., RAHHAL-IRABI L., OKSUZ A. U.
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- XXVI. **Electrochemical Polymerization of 2-Thiophen-3-yl-malonic Acid for Biosensor Application**
Celik G., EREN E., Uygun A.
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- XXVII. **A Solution-Processible, n-Dopable Polypyrrole Derivative**
ÇAMURLU P., EREN E., Gultekin C.
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- XXVIII. **Synthesis of poly(3,4-ethylenedioxythiophene)/titanium dioxide nanocomposites in the presence of surfactants and their properties**
EREN E., CELIK G., UYGUN A., TABACIAROVA J., OMASTOVA M.
SYNTHETIC METALS, cilt.162, ss.1451-1458, 2012 (SCI-Expanded)
- XXIX. **Synthesis and Photophysical Characterizations of Thermal -Stable Naphthalene Benzimidazoles**
Erten-Ela S., Ozcelik S., Eren E.
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- XXX. **Dye sensitized solar cell based on 1,8-naphthalene benzimidazole comprising carboxyl group**
ERTEN S., Eren E., ICLI S.
EUROPEAN PHYSICAL JOURNAL-APPLIED PHYSICS, cilt.38, sa.3, ss.227-230, 2007 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **RF plasma polymer modification of graphene oxide for micromotors with improved performance**
Karaca G. Y., Cogal G. C., EREN E., ÖKSÜZ L., ÖKSÜZ A.
EMERGENT MATERIALS, cilt.3, ss.613-624, 2020 (ESCI)
- 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.
BIOINTERFACE RESEARCH IN APPLIED CHEMISTRY, cilt.10, sa.6, ss.6912-6925, 2020 (ESCI)
- III. **Li doped chitosan-based solid polymer electrolyte incorporated with PEDOT:PSS for electrochromic device**

EREN E.

Journal of the Turkish Chemical Society, Section A: Chemistry, ss.1413-1422, 2018 (Scopus)

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 (Hakemli Dergi)

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.

RESEARCH JOURNAL OF TEXTILE AND APPAREL, cilt.21, sa.2, ss.101-110, 2017 (ESCI)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. Bending Impact on Electrochemical Performance of Prussian blue-based hybrid thin films

EREN E.

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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.

2. EBAT Congress, 26 - 29 Ekim 2019

IV. The Electrochemical Performance of Prussian blue-based hybrid flexible thin films for phosphate anion sensing applications

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.

XXXIV International Conference on Phenomena in Ionized Gases (XXXIV ICPIG), Japonya, 14 - 19 Temmuz 2019

VI. Antibacterial Activity of Wool Fabrics Treated With Different Azo Dyes

EREN E., NOHUT MAŞLAKCI N., ULUSOY S., CEVİKBAŞ H., TKACH V., YAGODYNETS P. I., KOMUR A. İ., ÖKSÜZ A.

1. Eurasia Biochemical Approaches Technologies (1. EBAT) Congress, 27 - 30 Ekim 2018

VII. Investigation of Antibacterial Properties of PMMA/PEO Fibers Loaded With Antimicrobial Agent

NOHUT MAŞLAKCI N., EREN E., CEVİKBAŞ H., BİÇER A., ULUSOY S., TURGUT CİN G., ÖKSÜZ A.

1. Eurasia Biochemical Approaches Technologies (1. EBAT) Congress, 27 - 30 Ekim 2018

VIII. ELECTROCHROMIC PROPERTIES OF PEDOT-BASED DUAL-TYPE ELECTROCHROMIC DEVICE INCLUDING CHITOSAN ELECTROLYTE

EREN E.

International Conference on Physical Chemistry and Functional Materials, 19 - 21 Haziran 2018

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 WO₃ 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., hershkowitz 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**
EREN E., alver C., karaca g. y., uygun e., ÖKSÜZ L., ÖKSÜZ A.
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- XV. **The Effect of Conducting PEDOT Microtubes on WO₃-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**
KALELİ M., BAYRAM A. B., PEKEROĞLU m., KOÇ M., Akyurekli S., YAVRU C. A., EREN E.
8TH INTERNATIONAL ADVANCED TECHNOLOGIES SYMPOSIUM, Elazığ, Türkiye, 19 - 22 Ekim 2017, ss.112
- XVII. **DETERMINATION OF OPTICAL AND ELECTROCHROMIC PROPERTIES OF PLASMA PREPARED V2O5/POLYFURAN HYBRIDS IN PRESENCE OF NaClO₄ ELECTROLYTE**
YILDIZ A., EREN E., ÇELİK ÇOĞAL G., ŞEN GÜR SOY S., ÖKSÜZ A.
The International Joint Science Congress of Materials and Polymers, Ohrid, Makedonya, 25 - 28 Ağustos 2017, ss.73
- XVIII. **The effect of conducting polymers in plasma modified WO₃ 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 WO₃ 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 WO₃ 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 V2O5 in the presence of different electrolytes**
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TO-BE Spring meeting 'Towards Oxide-Based Electronics', 3 - 05 Nisan 2017
- XXIII. **Plasma Modified WO₃ 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 V2O5, HYBRIDS**
EREN E., Cogal G. C., Yildiz A., ŞEN GÜR SOY S., ÖKSÜZ A.
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 WO₃ HYBRID**
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- XXVII. **Plasma Modified Hybrid Flexible Electrochromic Device Based on PANI derivative and WO₃**
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 WO₃ 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 WO₃ 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 WO₃ and V₂O₅ Hybrid Electrochromic Devices**
Karaca G. Y., EREN E., alver c., ÖKSÜZ A.
To Be Spring Meeting 2016 University of Warwick (MP1308 Cost Action To-Be), 6 - 08 Nisan 2016
- XXXIII. **RF plasma modified WO₃ and V₂O₅ hybride electrochromic device**
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- XXXIV. **Metal oxide film for nanofiber based electrochromic textile**
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- XXXV. **Metal oxide film for nanofiber based electrochromic film**
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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 WOOL**
Maslakci N. N., ÖKSÜZ A., ÖKSÜZ L., Bozduman F., EREN E.
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- XLII. **Environmental Friendliness Dye Sensitive Solar Cell**

- elif ceren g., EREN E., Busranur S., NOHUT MAŞLAKCI N., uygun e., ÖKSÜZ A.
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., SİDDİK İ.
XXI. Ulusal Kimya Kongresi, Türkiye, 23 - 27 Ağustos 2007
- L. **The fabrication of dye sensitized solar cells and investigation of their performance**
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Metrikler

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