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Kişisel Bilgiler

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Publons / Web Of Science ResearcherID: AAS-5007-2020

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Yoksis Araştırmacı ID: 1662

Eğitim Bilgileri

Doktora, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Kimya Bölümü, Türkiye 1979 - 1983

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Kimya Bölümü, Türkiye 1976 - 1979

Lisans, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Kimya Bölümü, Türkiye 1971 - 1976

Yaptığı Tezler

Doktora, Radiation-induced and electroinitiated polymerization of same epoxy monomers, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Kimya Bölümü, 1983

Yüksek Lisans, Dehydration of Calcium Sulphate Dihydrate in Aqueous Medium, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Kimya Bölümü, 1979

Araştırma Alanları

Kimya, Fizikokimya, Elektrokimya, Polimer Karakterizasyonu, Polimerik Malzemeler, Temel Bilimler

Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Kimya Bölümü, 1995 - Devam Ediyor

Prof. Dr., Orta Doğu Teknik Üniversitesi, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 1992 - 1995

Doç. Dr., Orta Doğu Teknik Üniversitesi, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 1988 - 1992

Dr. Öğr. Üyesi, Orta Doğu Teknik Üniversitesi, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 1986 - 1988

Öğretim Görevlisi Dr., Orta Doğu Teknik Üniversitesi, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 1985 - 1986

Yönetilen Tezler

ÖNAL A. M., Synthesis and polymerization of new D-A-D type monomers bearing fluorinated benzothiadiazole acceptors and their optoelectronic applications, Yüksek Lisans, Y.BOZTAŞ(Öğrenci), 2022

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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Neutral-state black electrochromic polymer with enhanced supercapacitor electrode performance**
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Journal of Energy Storage, cilt.104, 2024 (SCI-Expanded)
- II. **The impact of π -bridge moiety on the optoelectronic properties and photochemical stabilities of benzodithiophene-based conjugated polymers**
DEMİR ARABACI E., Karakurt O., ÇIRPAN A., YILDIRIM E., ÖNAL A. M.
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- III. **Fluorine atom effect in D-A-D type conjugated small molecules and polymers**
Önal A. M., Çakal D., Boztaş Y.
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- IV. **Theoretical and experimental investigation of bridging atom effect on the fluorene and silafluorene based trimeric monomers and their corresponding polymers**
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- V. **D-A-D type conjugated polymers in dual electrochromic devices tuning from green to blue colors**
İÇLİ ÖZKUT M., ÖNAL A. M., Cihaner A.
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- VI. **Synthesis and Characterization of a Luminol Based Chemiluminescent Trimeric System**
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- VII. **Effect of phthalimide and thieno[3,4-c]pyrrole-4,6,dione acceptors on π -conjugated donor-acceptor-donor monomers: Experimental and theoretical investigations of photophysical and electrochemical properties**
ÇAKAL D., DEMİR ARABACI E., YILDIRIM E., Cihaner A., ÖNAL A. M.
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- VIII. **Side chain effect on the electrochemical and optical properties of thieno[3,4-c]pyrrole-4,6-dione based donor-acceptor donor type monomers and polymers**
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- IX. **The Utilization of Iridium Nanoparticles Impregnated on Metal Oxides (Ceria, Titania, and Zirconia) with a Simple and Ecologically Safe Synthesis Approach in Oxygen Evolution Reactions**
AKBAYRAK M., ÖNAL A. M.
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- X. **Synthesis and electropolymerization of donor-acceptor-donor type monomers based on azobenzene-substituted thieno[3,4-c]pyrrole-4,6-dione acceptors**
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- XI. **Metal oxides supported cobalt nanoparticles: Active electrocatalysts for oxygen evolution reaction**
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- XII. **Polyhedral oligomeric silsesquioxanes appended conjugated soluble polymers based on thieno[3,4-c]pyrrole-4,6-dione acceptor unit**
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- XIII. **Effect of the donor units on the properties of fluorinated acceptor based systems**
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- XIV. **High Durability and Electrocatalytic Activity Toward Hydrogen Evolution Reaction with Ultralow Rhodium Loading on Titania**
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- XV. **Effect of fluorine substituted benzothiadiazole on electro-optical properties of donor-acceptor-donor type monomers and their polymers**
ÇAKAL D., Ercan Y. E., ÖNAL A. M., CİHANER A.
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- XVI. **Binder-free iridium based electrocatalysts: Facile preparation, high activity and outstanding stability for hydrogen evolution reaction in acidic medium**
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- XVII. **Ceria Supported Nickel(0) Nanoparticles: A Highly Active and Low Cost Electrocatalyst for Hydrogen Evolution Reaction**
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- XVIII. **Cross-exchange of donor units in donor-acceptor-donor type conjugated molecules: Effect of symmetrical and unsymmetrical linkage on the electrochemical and optical properties**
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- XIX. **Synthesis and electropolymerization of thieno[3,4-c]pyrrole-4,6-dione based donor-acceptor-donor type monomers**
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- XX. **Efficient Ceria-Supported Rhodium Nanoparticles as an Electrocatalyst for Hydrogen Evolution**
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- XXI. **Nanowires assembled from iron manganite nanoparticles: Synthesis, characterization, and investigation of electrocatalytic properties for water oxidation reaction**
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- XXII. **Investigation of Fluorine Atom Effect on Benzothiadiazole Acceptor Unit in Donor Acceptor Donor Systems**
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- XXIII. **Chromium substituted iron oxide nanowires as affordable electrocatalysts for oxygen evolution reaction**
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- XXIV. **Magnesium substituted cobalt spinel nanostructures for electrocatalytic water oxidation**
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- XXV. **Electrochemical and optical properties of substituted phthalimide based monomers and electrochemical polymerization of 3,4-ethylenedioxythiophene-polyhedral oligomeric silsesquioxane**

(POSS) analogue

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- XXVI. **Ceria supported ruthenium(0) nanoparticles: Highly efficient catalysts in oxygen evolution reaction**
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- XXVIII. **Synthesis and electrochemical polymerization of D-A-D type monomers with thieno [3,4-c] pyrrole-4,6-dione acceptor unit**
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- XXIX. **Electrochemical and optical properties of dicyclohexylmethyl substituted poly(3,4-propylenedioxythiophene) analogue**
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- XXX. **Carbazole based electrochromic polymers bearing ethylenedioxy and propylenedioxy scaffolds**
ERGÜN E. G. C., ÖNAL A. M.
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- XXXI. **Nanoceria-Supported Ruthenium(0) Nanoparticles: Highly Active and Stable Catalysts for Hydrogen Evolution from Water**
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- XXXII. **NEW EDOT CONTAINING POLYMERS: EFFECT OF RING SIZE ON THE BENZIMIDAZOLE ACCEPTOR**
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- XXXIV. **Propylenedioxy and Benzimidazole Based Electrochromic Polymers**
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Eken S., Ergun E. G. C., ÖNAL A. M.
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- XXXVI. **Synthesis and electro-optical properties of a new copolymer based on EDOT and carbazole**
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- XXXVIII. **Electrochemical polymerization of a new low-voltage oxidized thienylenepyrrole-derivative and its electrochromic device application**
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- XXXIX. **Spectroelectrochemical investigations of pyrimidine-2-thionato-bridged binuclear platinum(III) complexes**

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- XL. **A new blue light emitting and electrochromic polyfluorene derivative for display applications**
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- XLI. **Electrochemical Behavior of Hydrazine Borane in Methanol Solution**
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- XLII. **Synthesis of New Thienylene Pyrrole Monomers and Their Electropolymerizations**
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- XLIII. **Optical and Electronic Properties of Fluorene-Based Copolymers and Their Sensory Applications**
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- XLIV. **Synthesis and electro-optical properties of new conjugated hybrid polymers based on furan and fluorene units**
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- XLV. **Furan and benzochalcogenodiazole based multichromic polymers via a donor-acceptor approach**
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- XLVI. **Synthesis and electropolymerization of an ion sensing and fluorescent fluorene derivative bearing a quinoxaline moiety and its analogues with different donor units**
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- XLVII. **Synthesis and electropolymerization of a new ion sensitive ethylenedioxy-substituted terthiophene monomer bearing a quinoxaline moiety**
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- XLVIII. **New fluorene-xanthene-based hybrid electrochromic and fluorescent polymers via donor-acceptor approach**
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- XLIX. **Substituent and heteroatom effects on the electrochromic properties of similar systems**
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- L. **Members of CMY Color Space: Cyan and Magenta Colored Polymers Based on Oxadiazole Acceptor Unit**
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- LI. **Donor-acceptor polymer electrochromes with cyan color: Effect of alkyl chain length on doping processes**
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- LII. **A new processable electrochromic polymer based on an electron deficient fluorene derivative with a high coloration efficiency**
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- LIII. **Soluble Alkyl Substituted Poly(3,4-Propylenedioxy-selenophene)s: A New Platform For Optoelectronic Materials**
Atak S., Icli-Ozkut M., ÖNAL A. M., CİHANER A.

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- LIV. **Electropolymerization of a New 4-(2,5-Di-2-thiophen-2-yl-pyrrol-1-yl)-Tetra Substituted Nickel Phthalocyanine Derivative**
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- LV. **Synthesis of a novel fluorescent and ion sensitive monomer bearing quinoxaline moieties and its electropolymerization**
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- LVI. **A blue to highly transmissive soluble electrochromic polymer based on poly(3,4-propylenedioxyxelenophene) with a high stability and coloration efficiency**
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- LVII. **Donor-Acceptor Polymer Electrochromes with Tunable Colors and Performance**
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- LIX. **Electrochromic performance and ion sensitivity of a terthienyl based fluorescent polymer**
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- LX. **Electrochemical copolymerization and characterization of dianilines linked by polyether bridge with aniline**
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- LXI. **Synthesis and electropolymerization of the phthacyanines with 4-(2,5-di-2-thiophen-2-yl-pyrrol-1-yl) substituents**
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- LXII. **Electrochemical polymerization of an electron deficient fluorene derivative bearing ethylenedioxythiophene side groups**
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TÜBİTAK Projesi, 1005 - Ulusal Yeni Fikirler ve Ürünler Araştırma Destek Programı, Orta Doğu Teknik Üniversitesi, Türkiye, Aralık 2018

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Metrikler

Yayın: 126

Atıf (WoS): 1659

Atıf (Scopus): 1570

H-İndeks (WoS): 23

H-İndeks (Scopus): 23

Kongre ve Sempozyum Katılımı Faaliyetleri

The 69th Annual Meeting of the International Society of Electrochemistry, Çalışma Grubu, Bologna, İtalya, 2018

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Akademi Dışı Deneyim

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