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Eğitim Bilgileri

Doktora, Gebze Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Türkiye 2005 - 2010

Yüksek Lisans, Gebze Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Türkiye 2002 - 2005

Lisans, Kocaeli Üniversitesi, Türkiye 1997 - 2002

Yaptığı Tezler

Doktora, Novel n-bridged diiron phthalocyanine complexes: Synthesis, characterization and application in oxidation, Gebze Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2010

Araştırma Alanları

Malzeme Bilimi ve Mühendisliği, Kimya, Koordinasyon Kimyası, Organometalik Bileşikler, Kataliz, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof. Dr., Marmara Üniversitesi, Teknoloji Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, 2023 - Devam Ediyor

Yönetilen Tezler

İşçi Ü., FONKSİYONEL GRUP İÇEREN Mü- NİTRİDO PORFİRİNLER, Doktora, O.EREN(Öğrenci), 2023

İşçi Ü., Monomerik ve dimerik suda çözünen demir ftalosiyanınlar, Yüksek Lisans, D.AYDIN(Öğrenci), 2022

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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

1. Alkylthio-tetrasubstituted Lu(III) phthalocyanines: Effect of the substituent bulkiness and length on their photophysical, photochemical, electrochemical and sensing properties

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- III. **Amphiphilic Single-Chain Polymer Nanoparticles as Imaging and Far-Red Photokilling Agents for Photodynamic Therapy in Zebrafish Embryo Xenografts**
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- IV. **Synthesis, Photo-Characterizations, and Pre-Clinical Studies on Advanced Cellular and Animal Models of Zinc(II) and Platinum(II) Sulfonyl-Substituted Phthalocyanines for Enhanced Vascular-Targeted Photodynamic Therapy**
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- V. **Nanoencapsulation of a Far-Red Absorbing Phthalocyanine into Poly(benzylmalate) Biopolymers and Modulation of Their Photodynamic Efficiency**
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- VI. **Phthalocyanine vs porphyrin: Experimental and theoretical comparison of the catalytic activity of N-bridged diiron tetrapyrrolic complexes for alcohols oxidation**
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- VIII. **Multifunctional Photovoltaic Window Layers for Solar-Driven Catalytic Conversion of CO₂: The Case of CIGS Solar Cells**
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- IX. **Comparing PVP and Polymeric Micellar Formulations of a PEGylated Photosensitizing Phthalocyanine by NMR and Optical Techniques**
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- X. **Transparent Porous ZnO|Metal Complex Nanostructured Materials: Application to Electrocatalytic CO₂Reduction**
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- XI. **Phthalocyanines prepared from 4,5-dihexylthiophthalonitrile, a popular building block**
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- XII. **Tetra vs. octa-How it affects the photophysical, photochemical, physicochemical and biological properties of mercaptophenol-substituted Zn phthalocyanines**
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- XIII. **Far-red triplet sensitized Z-to-E photoswitching of azobenzene in bioplastics**

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- XIV. **Nanoscaled PAMAM Dendrimer Spacer Improved the Photothermal-Photodynamic Treatment Efficiency of Photosensitizer-Decorated Confeito-Like Gold Nanoparticles for Cancer Therapy**
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- XV. **Substituent effect on iron phthalocyanines as cyclohexene oxidation catalysts**
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- XVII. **Alkylthio-tetrasubstituted mu-Nitrido Diiron Phthalocyanines: Spectroelectrochemistry, Electrical Properties, and Heterojunctions for Ammonia Sensing**
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- XVIII. **Phthalocyanine-based mesoporous organosilica nanoparticles: NIR photodynamic efficiency and siRNA photochemical internalization**
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- XX. **Cobalt phthalocyanine-TiO₂ nanocomposites for photocatalytic remediation of textile dyes under visible light irradiation**
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- XXI. **A Noble-Metal-Free Heterogeneous Photosensitizer-Relay Catalyst Triad That Catalyzes Water Oxidation under Visible Light**
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- XXII. **Triphenylphosphonium-substituted phthalocyanine: Design, synthetic strategy, photoproperties and photodynamic activity**
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- XXIV. **Sulfanyl vs sulfonyl, 4,5-vs 3,6-position. How structural variations in phthalonitrile substitution affect their infra-red, crystallographic and Hirshfeld surface analyses**
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- XXV. **Cyclotriphosphazene, a scaffold for F-19 MRI contrast agents**
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- TETRAHEDRON LETTERS, cilt.59, sa.6, ss.521-523, 2018 (SCI-Expanded)
- XXVI. **Synthesis and characterization of a new meso-tetra-dihydro benzocyclobutacenaphthylene free-base porphyrin**
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- XXVIII. **Covalent or supramolecular combinations of resorcinarenes and porphyrinoids**
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- XXX. **A library of dimeric and trimeric phthalonitriles linked by a single aromatic ring: comparative structural and DFT investigations**
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- XXXI. **Synthesis, characterization, and Pb²⁺ ion sensing application of hexa-armed dansyl end-capped poly(epsilon-caprolactone) star polymer with phosphazene core**
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- XXXIV. **Site-selective formation of an iron(IV)-oxo species at the more electron-rich iron atom of heteroleptic mu-nitrido diiron phthalocyanines**
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- XXXV. **Resorcinarene-mono-benzimidazolium salts as NHC ligands for Suzuki-Miyaura cross-couplings catalysts**
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- XXXVIII. **Expeditious selective access to functionalized platforms of A(7)B-type heteroleptic lanthanide double-decker complexes of phthalocyanine**
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- XXXIX. **N-bridged dimers of tetrapyrroles complexed by transition metals: syntheses, characterization methods, and uses as oxidation catalysts**

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Diğer Dergilerde Yayınlanan Makaleler

I. Topology effects in photodynamic therapy with phthalocyanine nanocarriers

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Kitaplar

I. Phthalocyanines and Porphyrines

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Desteklenen Projeler

İşçi Ü., Gürek A. G., Dumoulin İsci F. A. C., TÜBİTAK Uluslararası İkili İşbirliği Projesi, PDT, PTT ya da Işıklı Tetiklenen İlaç Salınımı İçin Tasarlanmış ve Kendiliğinden Düzenlenerek Ortogonal Fonksiyonlanabilen Karışık ya da Saf Ftaloizomları Oluşturabilen Amfifilik Ftaloizomları, 2020 - 2023

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