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### **Uluslararası Araştırmacı ID'leri**

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Yoksis Araştırmacı ID: 3869

### **Eğitim Bilgileri**

Doktora, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), Türkiye 1992 - 1996

Yüksek Lisans, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Yl), Türkiye 1990 - 1992

Lisans, Karadeniz Teknik Üniversitesi, Fatih Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, Türkiye 1985 - 1989

### **Yabancı Diller**

İngilizce

### **Araştırma Alanları**

Temel Bilimler, Kimya, Analitik Kimya, Elektroanalitik Yöntemler, Sensörler, Fizikokimya, Elektrokimya, İnorganik Kimya, Koordinasyon Kimyası, Organometalik Kimya , Yeni Ligandlar

### **Akademik Unvanlar / Görevler**

Prof.Dr., İstanbul Teknik Üniversitesi, Fen-Edebiyat, Kimya, 2009 - Devam Ediyor

Doç.Dr., İstanbul Teknik Üniversitesi, Fen-Edebiyat, Kimya, 2003 - 2009

Yrd.Doç.Dr., İstanbul Teknik Üniversitesi, Fen-Edebiyat, Kimya, 1999 - 2003

### **Akademik İdari Deneyim**

İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2010 - 2012

İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2004 - 2007

## Juri Üyeleri

Doçentlik Sınavı, doçentlik sınavı, İTÜ, Ekim, 2016  
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## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. Development of a new near-infrared, spectrophotometric, and colorimetric probe based on phthalocyanine containing mercaptoquinoline unit for discriminative and highly sensitive detection of Ag<sup>+</sup>, Cu<sup>2+</sup>, and Hg<sup>2+</sup> ions  
Cetin D., Yavuz Ö., Alçay Y., Semih Yıldırım M., Kaplan M., Aribuğa H., Özdemir E., Ertugral U., Yılmaz İ.  
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- II. Colorimetric and near-infrared spectrophotometric monitoring of bisulfite using glyoxal modified chromenylium-cyanine chemosensor: Smartphone and paper strip applications for on-site food and beverages control  
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- III. A methionine biomolecule-modified chromenylium-cyanine fluorescent probe for the analysis of Hg<sup>2+</sup> in the environment and living cells  
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- IV. A new Fe<sup>3+</sup>-selective, sensitive, and dual-channel turn-on probe based on rhodamine carrying thiophenecarboxaldehyde: Smartphone application and imaging in living cells  
Aribuğa H., Ertugral U., Alçay Y., Yavuz Ö., Yıldırım M. S., Özdemir E. T., Kaya K., Sert A. B. O., Kök F. N., Tüzün N., et al.  
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- VI. Simultaneous, Selective and Highly Sensitive Voltammetric Determination of Lead, Cadmium, and Zinc via Modified Pencil Graphite Electrodes  
Ustabasi G. S., Yılmaz İ., Özcan M., Cetinkaya E.  
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- VII. Construction of anthraquinone functional zinc phthalocyanine sensor platform for ultra-trace amount of water determination in tetrahydrofuran and N,N-Dimethylformamide  
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- XI. Synthesis and Spectro-Electrochemical Properties of New Metallophthalocyanines Having High Electron Transfer Capability

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- XII. **Architecture of multi-channel and easy-to-make sensors for selective and sensitive Hg<sup>2+</sup> ion recognition through Hg-C and Hg-N bonds of naphthoquinone-aniline/pyrene union**  
Mermer Z., Yavuz Ö., Atasen S. K., Alçay Y., Yilmaz İ.  
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- XIII. **Dimethyl amino phenyl substituted silver phthalocyanine as a UV- and visible-light absorbing photoinitiator: in situ preparation of silver/polymer nanocomposites**  
Breloy L., Alçay Y., Yilmaz İ., Breza M., Bourgon J., Brezova V., Yağcı Y., Versace D.  
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- XIV. **A new perspective on the beryllium sensor platform: Low symmetry phthalocyanine-based molecular design and ultra trace amount Be<sup>2+</sup> ion recognition in aqueous media**  
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- XV. **New Chromenylium-cyanine based dual channel chemosensors for copper and hypochlorite sensing**  
KARAOĞLU K., Kaya K., Yilmaz İ.  
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- XVI. **Visible Light Anthraquinone Functional Phthalocyanine Photoinitiator for Free-Radical and Cationic Polymerizations**  
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- XVII. **Beryllium ion sensing through the ion pair formation between the electrochemically reduced ferrocenyl naphthoquinone radicals and Be<sup>2+</sup>ions**  
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- XVIII. **Superior Sensor for Be<sup>2+</sup> Ion Recognition via the Unprecedented Octahedral Crystal Structure of a One-Dimensional Coordination Polymer of Crown Fused Zinc Phthalocyanine**  
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- XX. **Detection of Fe<sup>2+</sup> in acetonitrile/water mixture by new 8-hydroxyquinolin based sensor through metal displacement mechanism**  
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- XXI. **Ferrocenyl-substituted dinuclear Cu(II) complex: Synthesis, spectroscopy, electrochemistry, DFT calculations and catecholase activity**  
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Dagdevren M., Yilmaz İ., YUCEL B., EMIRIK M.  
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- XXIII. **Ketone synthesized cobaloxime/organocobaloxime catalysts for cyclic carbonate synthesis from CO<sub>2</sub> and epoxides: Characterization and electrochemistry**  
Kilic A., Kilic M. V., Ulusoy M., Durgun M., Aytar E., DAGDEVREN M., Yilmaz İ.  
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- XXIV. **The synthesis, characterization, and electrochemistry of molecular cobaloxime/organocobaloxime: catalysts for cycloaddition of carbon dioxide and epoxides**

- Kilic A., Ulusoy M., Durgun M., Aytar E., Keles A., DAGDEVREN M., Yilmaz İ.  
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- XXV. **Synthesis, characterization, electrochemical properties and conversions of carbon dioxide to cyclic carbonates mononuclear and multinuclear oxime complexes using as catalyst**  
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- XXVI. **Synthesis, characterization, electrochemical behaviors and applications in the Suzuki-Miyaura cross-coupling reactions of N<sub>2</sub>S<sub>2</sub>O<sub>2</sub> thio Schiff base ligand and its Cu(II), Co(III), Ni(II), Pd(II) complexes and their usage in the fabrication of organic-inorganic hybrid devices**  
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- XXVII. **Synthesis and characterization of pyrrole and thiophene functional polystyrenes via "click chemistry"**  
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- XXIX. **Hetero- and homo-leptic Ru(II) catalyzed synthesis of cyclic carbonates from CO<sub>2</sub>; Synthesis, spectroscopic characterization and electrochemical properties**  
Kilic A., Ulusoy M., DURGUN M., Tasci Z., Yilmaz İ., Cetinkaya B.  
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- XXX. **The orthopalladation dinuclear [Pd(L-1)(mu-OAc)](2), [Pd(L-2)(mu-OAc)](2) and mononuclear [Pd(L-3)(2)] complexes with [N, C, O] or [N, O] containing ligands: Synthesis, spectral characterization, electrochemistry and catalytic properties**  
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- XXXI. **Synthesis, structural characterization, electrochemistry and spectroelectrochemistry of dinuclear copper(II) metal complexes stabilized by a tetradentate NOOO salicylaldimine ligands**  
Tas E., Onal I. H., Yilmaz İ., Kilic A., Durgun M.  
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- XXXII. **Mono- and dinuclear Pd(II) complexes of different salicylaldimine ligands as catalysts of transfer hydrogenation of nitrobenzene with cyclohexene and Suzuki-Miyaura coupling reactions**  
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- XXXV. **Synthesis Spectral Characterization and Electrochemical Investigations of Mononuclear Cu II Ni II and Co II Metal Complexes Containing Different New vic dioxime Groups**  
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- XXXVII. Synthesis, characterization, fluorescence and redox features of new vic-dioxime ligand bearing pyrene and its metal complexes**  
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- XXXIX. The sterically hindered salicylaldimine ligands with their copper(II) metal complexes: Synthesis, spectroscopy, electrochemical and thin-layer spectroelectrochemical features**  
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- XL. Novel vic-dioxime ligands and their poly-metal complexes bearing 1,8-diamino-3,6-dioxaoctane: synthesis, characterization, spectroscopy and electrochemistry**  
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- XLI. Synthesis, electrochemistry and in situ spectroelectrochemistry of a new Co(III) thio Schiff-base complex with N,N'-bis(2-aminothiophenol)-1,4-bis(carboxylidene phenoxy)butane**  
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- XLIII. Spectroscopic and electrochemical studies of transition metal complexes with N,N'-bis(2-aminothiophenol)-1,7-bis(2-formylphenyl)-1,4,7-trioxaheptane and structure effects on extractability of ligand towards some divalent cations**  
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- L. Synthesis, electrochemistry, and in situ spectroelectrochemistry of a new water-soluble zinc phthalocyanine substituted with naphthoxy-4-sulfonic acid sodium salt**  
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- LI. In situ monitoring of the synthesis of a pyranine-substituted phthalonitrile derivative via the steady-state fluorescence technique**  
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- LVIII. Synthesis, electrochemical, and spectroelectrochemical properties of tetrakis(13,17-dioxa nonacosane-15-sulphanyl) phthalocyaninato zinc(II)**  
Yilmaz İ., Gurek A., Ahsen V.  
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- LIX. Electrochemical, spectroelectrochemical, and pyridine binding properties of tetrathia macrocycle-bridged dimeric cobalt phthalocyanine**  
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- LX. Synthesis, characterization and redox properties of a new vic-dioxime and its transition metal**

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- LXI. **4,5-Dicyano-1,2-bis(2-dimethylaminoethylsulfanyl)benzene**

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- LXII. **Thermodynamic study of ion-pairing effects between reduced double-decker lutetium(III) phthalocyanines and a cationic matrix**

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JOURNAL OF PHYSICAL CHEMISTRY B, cilt.107, sa.46, ss.12789-12796, 2003 (SCI-Expanded)

- LXIII. **Electrochemical and spectroscopic investigation of neutral oxidized and reduced double decker lutetium III phthalocyanines**

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Kandaz M., CORUHLU S., Yilmaz I., OZKAYA A.

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Yayın: 84

Atıf (WoS): 1540

Atıf (Scopus): 1696

H-İndeks (WoS): 24

H-İndeks (Scopus): 26

## **Akademi Dışı Deneyim**

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