

Prof. Gülnur KESER KARAOĞLAN

Personal Information

Email: gkeser@yildiz.edu.tr

Web: <https://avesis.yildiz.edu.tr/gkeser>

Address: Yıldız Teknik Üniversitesi, Davutpaşa Kampüsü, Fen-Edebiyat Fakültesi, Kimya Bölümü, Davutpaşa Cad., Esenler, İstanbul, Türkiye. TR 34210

International Researcher IDs

ORCID: 0000-0003-1167-5698

Yoksis Researcher ID: 174559

Education Information

Doctorate, Yıldız Technical University, Fen Edebiyat Fakültesi, Kimya Bölümü, Turkey 1996 - 2005

Yıldız Technical University, Fen Edebiyat Fakültesi, Kimya Bölümü, Turkey Continues

Undergraduate, Yıldız Technical University, Fen Edebiyat Fakültesi, Kimya Bölümü, Turkey 1987 - 1991

Dissertations

Doctorate, 1,10 -FENANTROLİN İÇEREN ÇOK DİŞLİ LİGANDLARIN SENTEZİ, METAL KOMPLEKSLERİNİN İNCELENMESİ, Yıldız Technical University, Faculty of Arts & Science, Department of Chemistry, 2005

Postgraduate, Çeşitli Materyallerde Diferansiyel Puls Polarografik Yöntemle Nitrit Miktar Tayini, Yıldız Technical University, Faculty of Arts & Science, 1996

Research Areas

Chemistry, Inorganic Chemistry, Coordination Chemistry, Novel Ligands, Natural Sciences

Academic Titles / Tasks

Associate Professor, Yıldız Technical University, Fen Edebiyat Fakültesi, Kimya, 1996 - Continues

Courses

Doctorate

Makrosiklik Bileşikler Kimyası, Doctorate, 2019 - 2020, 2013 - 2014, 2012 - 2013

Postgraduate

Ftalosiyanimler ve Uygulamaları , Postgraduate, 2020 - 2021, 2017 - 2018

Araştırma Yöntemleri ve Bilimsel Etik, Postgraduate, 2018 - 2019

Undergraduate

Genel Kimya 2, Undergraduate, 2021 - 2022, 2020 - 2021, 2016 - 2017, 2015 - 2016

Genel Kimya, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

Deterjanlar, Undergraduate, 2021 - 2022, 2017 - 2018, 2016 - 2017

Genel Kimya 1, Undergraduate, 2020 - 2021, 2019 - 2020, 2016 - 2017, 2015 - 2016
Genel Kimya2, Undergraduate, 2018 - 2019
Anorganik Kimya Lab. 2, Undergraduate, 2018 - 2019
KOZMETİK KİMYASI VE ÜRETİMİ, Undergraduate, 2018 - 2019
Genel Kimya 1, Undergraduate, 2018 - 2019
Anorganik Kimya Lab1, Undergraduate, 2018 - 2019
Genel Kimya 2, Undergraduate, 2017 - 2018
Kozmetik Kimyası, Undergraduate, 2015 - 2016
Anorganik Kimya III, Undergraduate, 2013 - 2014

Supervised Theses

Keser Karaođlan G., SYNTHESIS OF PHTHALOCYANINES WITH UNSATURATED CARBOXYLIC ACID SUBSTITUENTS AND INVESTIGATION OF THEIR PROPERTIES AFTER DOPING ON NANO TITANIUMDIOXIDE (TiO₂), Doctorate, A.Hıřır(Student), 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Influence of 2-naphthoic acid anchoring groups to the photovoltaic performance of zinc phthalocyanine-based photosensitizers in dye-sensitized solar cell**
Köse G. G., Karaođlan G. K., Maden Y. E., KOCA A.
Journal of Electroanalytical Chemistry, vol.945, 2023 (SCI-Expanded)
- II. **Effects of anchoring and spacer groups of asymmetric zinc phthalocyanines on the photovoltaic performance of dye-sensitized solar cells**
Köse G. G., Karaođlan G. K., Maden Y. E., KOCA A.
New Journal of Chemistry, vol.47, no.28, pp.13497-13507, 2023 (SCI-Expanded)
- III. **DNA groove binder and significant cytotoxic activity on human colon cancer cells: Potential of a dimeric zinc (II) phthalocyanine derivative**
Batıbay G. S., KESER KARAOĐLAN G., GÜMRÜKÇÜ KÖSE G., ÖZÇELİK KAZANCIOĐLU E., Metin E., DANIŐMAN KALINDEMİRTAŐ F., Erdem Kuruca S., ARSU N.
Biophysical Chemistry, vol.295, 2023 (SCI-Expanded)
- IV. **Electrochemical and spectroelectrochemical characterizations of phthalocyanines bearing peripherally tetra-4-carboxyethylenepenoxy anchoring groups and usage as photosensitizers of dye-sensitized solar cell**
Maden Y. E., Köse G. G., Karaođlan G. K., KOCA A.
Journal of Electroanalytical Chemistry, vol.929, 2023 (SCI-Expanded)
- V. **Synthesis of a novel axially substituted silicon phthalocyanine sensitizer for efficient singlet oxygen generation by comparing PDT and SPDT studies**
GÜMRÜKÇÜ KÖSE G., KESER KARAOĐLAN G.
CHEMICAL PHYSICS, vol.565, 2023 (SCI-Expanded)
- VI. **Novel silicon phthalocyanine photosensitizers containing carboxylic acid based axial anchoring groups: Electrochemistry, spectroelectrochemistry, and dye sensitized solar cell performance**
GÜMRÜKÇÜ KÖSE G., KESER KARAOĐLAN G., ERDAĐ MADEN Y., KOCA A.
DYES AND PIGMENTS, vol.207, 2022 (SCI-Expanded)
- VII. **Synthesis of tetracarboxy phthalocyanines modified TiO₂ nanocomposite photocatalysts and investigation of photocatalytic decomposition of organic pollutant methylene blue under visible light**
Hisir A., KESER KARAOĐLAN G., AVCIATA O.
JOURNAL OF MOLECULAR STRUCTURE, vol.1266, 2022 (SCI-Expanded)
- VIII. **Synthesis of a novel zinc phthalocyanine with peripherally coordinated Ru(II) complexes; sono-**

photochemical, photochemical and photophysical studies

KESER KARAOĞLAN G.

JOURNAL OF MOLECULAR STRUCTURE, vol.1261, 2022 (SCI-Expanded)

- IX. **Synthesis of new Schiff base and its Ni(II), Cu(II), Zn(II) and Co(II) complexes; photophysical, fluorescence quenching and thermal studies**
KESER KARAOĞLAN G.
JOURNAL OF MOLECULAR STRUCTURE, vol.1256, 2022 (SCI-Expanded)
- X. **Synthesis of new zinc phthalocyanines including schiff base and halogen; photophysical, photochemical, and fluorescence quenching studies**
Yuzeroglu M., Karaoglan G. K., Kose G. G., ERDOĞMUŞ A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1238, 2021 (SCI-Expanded)
- XI. **Unsymmetrical Zinc Phthalocyanines Containing Thiophene and Amine Groups As Donor for Bulk Heterojunction Solar Cells**
KESER KARAOĞLAN G., Kutlu Ö., ALTINDAL A.
Turkish Journal of Chemistry, vol.45, no.3, pp.694-703, 2021 (SCI-Expanded)
- XII. **The Synthesis, Characterization, Electrochemical and Spectroelectrochemical Properties of Novel Unsymmetrical Phthalocyanines Containing Naphthoic Acid and Di-tert-butylphenoxy Groups**
Gümrükçü Köse G., Keser Karaoglan G., Isik S. N., Akyuz D., Koca A.
SYNTHETIC METALS, vol.264, 2020 (SCI-Expanded)
- XIII. **Synthesis, characterization and ethanol sensing properties of carboxylic acid-terminated naphthoxy substituted phthalocyanines**
ISIK S. N., KARAOGLAN G., OMUR B., ALTINDAL A., KOSE G.
SYNTHETIC METALS, vol.246, pp.7-15, 2018 (SCI-Expanded)
- XIV. **Novel carboxylic acid terminated silicon(IV) and zinc(II) phthalocyanine photosensitizers: Synthesis, photophysical and photochemical studies**
Hısır A., Kose G., Atmaca G., Erdoğan A., Karaoglan G.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.22, pp.1010-1021, 2018 (SCI-Expanded)
- XV. **Novel homoleptic, dimeric zinc(II) phthalocyanines as gate dielectric for OFET device**
Karaoglan G., Gümrükçü G., GÖRDÜK S., CAN N., Gül A.
Synthetic Metals, vol.230, pp.7-11, 2017 (SCI-Expanded)
- XVI. **Synthesis, characterization, fluorescence spectra and energy transfer properties of a novel unsymmetrical zinc phthalocyanine with peripherally coordinated Ru(II) complex**
Ceylan N., Gumrukcu G., Karaoglan G., Gül A.
SYNTHETIC METALS, vol.206, pp.55-60, 2015 (SCI-Expanded)
- XVII. **Photophysical and photochemical properties of a zinc phthalocyanine with four diphenylborinic ester moieties**
Özçelik Ş., Karaoglan G., Gumrukcu G., Erdoğan A., Gül A.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.769, pp.17-23, 2014 (SCI-Expanded)
- XVIII. **Photophysical, Photochemical, and BQ Quenching Properties of Zinc Phthalocyanines with Fused or Interrupted Extended Conjugation**
Gumrukcu G., Karaoglan G., ERDOĞMUŞ A., Gül A., Avcıata U.
JOURNAL OF CHEMISTRY, 2014 (SCI-Expanded)
- XIX. **Synthesis and Characterization of a New Cyclophosphazene and Its Ruthenium Complex Derived from 1,10-Phenanthroline-5,6-diol**
Karaoglan G., ERDEN İ., DEMİRHAN N.
ASIAN JOURNAL OF CHEMISTRY, vol.25, no.9, pp.4925-4928, 2013 (SCI-Expanded)
- XX. **Structural and Surface Characterization of Newly Synthesized D-pi-D Type Schiff Base Ligand: (1E,2E)-3-[4-(Dimethylamino)phenyl]prop-2-en-1-ylidene)phenylamine**
Gumrukcu G., Garikyan S., Karaoglan G., Sakar D.
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- XXI. **A novel phthalocyanine conjugated with four salicylideneimino complexes: Photophysics and**

fluorescence quenching studies

Gumrukcu G., Karaoglan G., ERDOĞMUŞ A., Gül A., Avciata U.

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- XXII. **A novel soluble phthalocyanine capable of binding four boronic esters**
Özçelik Ş., Karaoglan G., Gumrukcu G., Gül A.
TURKISH JOURNAL OF CHEMISTRY, vol.36, no.6, pp.899-906, 2012 (SCI-Expanded)
- XXIII. **Synthesis and characterization of novel soluble phthalocyanines with fused conjugated unsaturated groups**
Karaoglan G., Gumrukcu G., KOCA A., Gül A., Avciata U.
DYES AND PIGMENTS, vol.90, no.1, pp.11-20, 2011 (SCI-Expanded)
- XXIV. **The synthesis, characterization, electrochemical and spectroelectrochemical properties of a novel, cationic, water-soluble Zn phthalocyanine with extended conjugation**
Karaoglan G., Gumrukcu G., KOCA A., Gül A.
DYES AND PIGMENTS, vol.88, no.3, pp.247-256, 2011 (SCI-Expanded)
- XXV. **Surface Characterization of a Novel D-pi-D Type Ligand by IGC at Infinite Dilution**
Karaoglan G., Sakar D.
CHROMATOGRAPHIA, vol.73, pp.93-98, 2011 (SCI-Expanded)
- XXVI. **Antioxidative properties of recently synthesised D-Pi-D type Schiff-base ligands**
Karaoglan G., Kiyamaz N., Erden İ., Peksel A.
JOURNAL OF CHEMICAL RESEARCH, no.6, pp.340-343, 2010 (SCI-Expanded)
- XXVII. **Synthesis and Characterization of New D-pi-D Type Schiff Base Ligands**
Karaoglan G., ERDEN İ., Avciata U.
POLISH JOURNAL OF CHEMISTRY, vol.83, no.6, pp.1147-1152, 2009 (SCI-Expanded)
- XXVIII. **Synthesis and characterization of a Ni(II) and Cu(I) complexes of Schiff base derived from salicylaldehyde**
DEMİRHAN N., KARAOĞLAN G., AYDIN S.
ASIAN JOURNAL OF CHEMISTRY, vol.20, no.3, pp.2367-2372, 2008 (SCI-Expanded)
- XXIX. **DETERMINATION OF ANTHOCYANINS IN SOME VEGETABLES AND FRUITS BY DERIVATIVE SPECTROPHOTOMETRIC METHOD**
Sakar D., Karaoglan G., Gumrukcu G., Ozgur M.
REVIEWS IN ANALYTICAL CHEMISTRY, vol.27, no.4, pp.235-249, 2008 (SCI-Expanded)
- XXX. **Abilities of Partial Least-Squares (PLS-2) Multivariate Calibration in the Analysis of Quaternary Mixture of Food Colors (E-110, E-122, E-124, E-131)**
Özgür M., Gümrükçü Köse G., Keser Karaoğlan G., Bozdoğan A. E., Aşçı B.
Analytical Letters, vol.10, no.40, pp.1893-1903, 2007 (SCI-Expanded)
- XXXI. **Synthesis and characterisation of a new Schiff base and its metal complexes**
Karaoglan G., Avciata U., Guel A.
INDIAN JOURNAL OF CHEMISTRY SECTION A-INORGANIC BIO-INORGANIC PHYSICAL THEORETICAL & ANALYTICAL CHEMISTRY, vol.46, no.8, pp.1273-1276, 2007 (SCI-Expanded)
- XXXII. **Abilities of partial least-squares (PLS-2) multivariate calibration in the analysis of quaternary mixture of food Colors (E-110, E-122, E-124, E-131)**
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ANALYTICAL LETTERS, vol.40, no.10, pp.1893-1903, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **Nitrite Determination by the Differential Pulse Polarographic Method**
Keser Karaoğlan G.
Sigma Journal of Engineering and Natural Sciences, vol.23, no.4, pp.130-136, 2005 (ESCI)
- II. **Polarographic Behaviours of Some Naturally Occuring Anthraquinones**

Books

I. Synthesis and Characterization of New Type Soluble Porphyrine Containing 1-Bromo-3-Methylbutan Group and Investigation of Its Complexes

ErdođmuŐ A., Keser Karaođlan G., Avciata U., Göl A.

in: INNOVATIONS IN CHEMICAL BIOLOGY, Bilge Sener, Editor, Springer, London/Berlin , Dordrecht, pp.375-381, 2009

Papers Published in Refereed Scientific Meetings

I. Stability and Activity of Water Soluble (tetrakis-([4-(trimethylamino)phenyl]prop-2-en-1-ylideneimino)phenoxy])-phthalocyaninatozinc(II) tetraiodide in solution

Karahan Y., Őakar DaŐdan D., Keser Karaođlan G., Gümrukçü Köse G.

21 st JCF Frühjahrssymposium and 2nd European Young Chemists' Meeting, Bremen, Germany, 20 - 23 March 2019, pp.190

II. (M18-PS7-20113) Synthesis and characterization of novel carboxylic acid terminated silicon (IV) and zinc (II) phthalocyanines

HıŐır A., Gümrukçü Köse G., Keser Karaođlan G.

1st International Balkan Chemistry Congress, Edirne, Turkey, 17 - 19 September 2018, pp.189

III. Synthesis and characterization of metallo and metal-free monocarboxy-phthalocyanines

Neccarođlu IŐık S., Keser Karaođlan G., Gümrukçü Köse G.

1ST INTERNATIONAL BALKAN CHEMISTRY CONGRESS IBCC-2018, Edirne, Turkey, 17 September 2018, pp.191

IV. Novel Carboxylic Acid Substitued Silicon and Zinc Phthalocyanine Photosensitizers; Photophysicochemical Properties

HıŐır A., Gümrukçü Köse G., YaŐa Atmaca G., ErdođmuŐ A., Keser Karaođlan G.

Third GTU Photodynamic Day, Kocaeli, Turkey, 09 May 2018, pp.18

V. Novel Carboxylic Acid Substitued Silicon and Zinc Phthalocyanine Photosensitizers Photophysicochemical Properties

HıŐır A., GÜMRÜKÇÜ KÖSE G., YAŐA ATMACA G., KESER KARAOĐLAN G., ERDOĐMUŐ A.

Third GTU Photodynamic Day, 09 May 2018

VI. The Synthesis and Characterization of Novel Carboxylic Group Substitued Metallophthalocyanines

GÜMRÜKÇÜ KÖSE G., Neccarođlu IŐık S., KESER KARAOĐLAN G.

20th JCF-Frühjahrssymposium Congress, Konstanz, Germany, 21 March 2018, pp.158

VII. Synthesis and Characterization of Metallophthalocyanines Containing Carboxylic Group

KESER KARAOĐLAN G., HıŐır A., GÜMRÜKÇÜ KÖSE G.

20. Frühjahrssymposium JungChemikerForum, Konstanz, Germany, 21 March 2018, pp.181

VIII. Synthesis and characterization of a new dimeric zinc phthalocyanine

GÜMRÜKÇÜ KÖSE G., KESER KARAOĐLAN G., GÖRDÜK S., GÖL A.

19. JCF-Frühjahrssymposium, Mainz, Germany, 29 March - 01 April 2017, pp.110

IX. Synthesis of A Novel Phthalocyanine With Peripherally Coordinated Ru(II) Complex

Gümrukçü Köse G., Keser Karaođlan G., Kemikli N., Göl A.

All in One Conferences, Dubai, United Arab Emirates, 24 - 28 March 2015, pp.78

X. Synthesis and Characterization of a New Phthalocyanine Including Pentanuclear Zinc (II) Complexes

Keser Karaođlan G., Gümrukçü Köse G., ErdođmuŐ A., Göl A., Avciata U.

15th JCF-Frühjahrssymposium Congress, Berlin, Germany, 6 - 09 March 2013, pp.235

- XI. **Photophysical, Photochemical and BQ Quenching Properties of Zinc Phthalocyanines with Fused Extended Conjugation**
Gümrükçü Köse G., Keser Karaoğlan G., Erdoğan A., Gül A., Avciata U.
15th JCF-Frühjahrssymposium Congress, Berlin, Germany, 6 - 09 March 2013, pp.214
- XII. **Synthesis and Characterization of a new D- π -D Type Schiff Base Ligand**
Gümrükçü Köse G., Garikyan S., Keser Karaoğlan G., Şakar Daşdan D.
Chemical Physics X, Ankara, Turkey, 10 - 12 October 2012, pp.114
- XIII. **Synthesis and Characterization of a Novel Phthalocyanine Conjugated with Four Salicylideneimino Complexes**
Keser Karaoğlan G., Gümrükçü Köse G., Erdoğan A., Gül A., Avciata U.
12th Eurasia Conference on Chemical Sciences EuASC2S-12, Athens, Greece, 16 - 21 April 2012, pp.4
- XIV. **Konjuge Schiff Baz Süstitüe Ftalosiyeninlerin Sentez ve Karakterizasyonu**
Keser Karaoğlan G., Gümrükçü Köse G., Koca A., Gül A., Avciata U.
III. Ulusal Anorganik Kimya Kongresi, Çanakkale, Turkey, 19 - 22 May 2011, pp.154
- XV. **Surface Characterization of a Novel D--D Type Ligand by Inverse Gas Chromatography**
Şakar Daşdan D., Keser Karaoğlan G.
IX. Chemical Physics, İstanbul, Turkey, 22 - 26 December 2010, pp.126
- XVI. **Synthesis and Characterization of a Novel Cationic Water-Soluble Zn Phthalocyanine with Extended Conjugated Groups**
Keser Karaoğlan G., Gümrükçü Köse G., Koca A., Gül A.
3rd EuCheMS Chemistry Congress, Nuremberg, Germany, 29 August - 02 September 2010, pp.30
- XVII. **D- π -D Grupları İçeren Yeni Tip Ligand Sentezi ve Karakterizasyonu**
Keser Karaoğlan G., Erden İ., Avciata U.
XXII. National Chemistry Congress, Gazimagusa, Cyprus (Kktc), 6 - 10 October 2008, pp.97
- XVIII. **Effects of Emulsifier Type on the Structure of Water-Based Emulsion Polymers**
Gümrükçü Köse G., Keser Karaoğlan G., Saraç A.
8th Austrian Polymer Meeting (The Chain of Knowledge From Catalyst to Application), Linz, Austria, 20 - 22 September 2006, pp.69
- XIX. **Synthesis and Characterization of A New Phosphazene Ligand**
Keser Karaoğlan G., Erdoğan A., Demirhan N.
9th Eurasia Conference on Chemical Sciences (EuAS C2S-9), Antalya, Turkey, 9 - 13 September 2006, pp.187
- XX. **Synthesis and Characterization of a New Phenanthroline Ligand Containing Phosphazene Group and Investigation of Its Complexes**
Keser Karaoğlan G., Erdoğan A., Demirhan N.
9th Eurasia Conference on Chemical Sciences (EuAS C2S-9), Antalya, Turkey, 9 - 13 September 2006, pp.186
- XXI. **Abilities of Partial Least Squares (PLS-2) Multivariate Calibration in the Analysis of Quaternary Mixture of Food Dyes (E-110, E-122, E-124, E-131)**
Keser Karaoğlan G., Gümrükçü Köse G., Özgür M., Bozdoğan A. E.
3rd Black Sea Basin Conference on Analytical Chemistry, Constanta, Romania, 12 - 14 September 2005, pp.143
- XXII. **Potantimetric Studies of Copper(II), Nickel(II) and Cobalt(II) Complexes of the 5,6-Bis-(salicylideneiminostearat)-1,10-Phenanthroline**
Keser Karaoğlan G., Avciata U., Demirhan N.
4th Aegean Analytical Chemistry Days, Aydın, Turkey, 29 September - 03 October 2004, pp.457-459
- XXIII. **Potantimetric Studies of Copper(II), Nickel(II) and Cobalt (II) Complexes of the 5,6-Bis-(salicylideneiminostearat)-1,10-Phenanthroline**
Keser Karaoğlan G., Avciata U., Demirhan N.
4th Aegean Analytical Chemistry Days, İzmir, Turkey, 29 September - 03 October 2004, pp.114
- XXIV. **D- π -D Grupları İçeren Yeni Tip Ligand Sentezi ve Karakterizasyonu**
Keser Karaoğlan G., Avciata U., Demirhan N., Gül A.
XXII. National Chemistry Congress, Kars, Turkey, 5 - 09 July 2004, pp.340

- XXV. **Potantiometric Studies of Copper(II), Nickel(II) and Cobalt(II) Complexes of the Bis[4,4'-methyl-4,4'(Benzo-15-Crown-5)] 5,6-N-Diamino-1,10-Phenanthronilydene**
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- XXVI. **Synthesis and Characterization of New Schiff Base From 4'-Acetil (Benzo-15-Crown-5)**
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Mustafa Kemal University International Organic Chemistry Meeting, Hatay, Turkey, 25 - 28 March 2002, pp.43
- XXVII. **Pentaoksadiaza Makrohalkası İçeren 1,10-Fenantrolin Türevinin ve Metal komplekslerinin Sentezi, Karakterizasyonu**
Keser Karaođlan G., Demirhan N., Avciata U., Gül A.
XV.Ulusal Kimya Kongresi, Bođaziçi Üniversitesi, İstanbul, Turkey, 4 - 07 September 2001, pp.52
- XXVIII. **1,10-Fenantrolin İçeren Çok Diđli Ligandların Sentezi ve Karakterizasyonu**
Keser Karaođlan G., Demirhan N., Avciata U., Gül A.
XIV.Ulusal Kimya Kongresi, Diyarbakır, Turkey, 10 - 15 September 2000, pp.399
- XXIX. **Diferansiyel Puls Polarografik Yöntemle İnsan Tükürüğünde Nitrit Miktar Tayini**
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XIII. Ulusal Kimya Kongresi, Samsun, Turkey, 31 August - 04 September 1999, pp.85

Supported Projects

GÜMRÜKÇÜ KÖSE G., KESER KARAOĐLAN G., KOCA A., Project Supported by Higher Education Institutions, Karboksilik Asit Grupları İçeren Yeni Ftalosianinlerin Sentezi Karakterizasyonu ve Özelliklerinin İncelenmesi, 2021 - 2022
GÜMRÜKÇÜ KÖSE G., ERDOĐMUŞ A., AVCIATA U., KESER KARAOĐLAN G., Project Supported by Higher Education Institutions, Dimerik Ftalosianin Sentez ve Karakterizasyonu, 2015 - 2017

Metrics

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H-Index (Scopus): 10