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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

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

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

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

Araştırma Yöntemleri ve Bilimsel Etik, Postgraduate, 2018 - 2019

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

Advising 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.Hışır(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**
Batbay 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-carboxyethylenephenoxy 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 KARAOĐLAN G.
JOURNAL OF MOLECULAR STRUCTURE, vol.1261, 2022 (SCI-Expanded)

- IX. **<p>Synthesis of new Schiff base and its Ni(II), Cu(II), Zn(II) and Co(II) complexes; photophysical, fluorescence quenching and thermal studies
</p>**
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.
JOURNAL OF CHEMISTRY, 2013 (SCI-Expanded)
- XXI. **A novel phthalocyanine conjugated with four salicylideneimino complexes: Photophysics and fluorescence quenching studies**
Gumrukcu G., Karaoglan G., ERDOĞMUŞ A., Gül A., Avcıata 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)**
 Keser Karaoglan G., Guemruekcue G., Oezguer M. U., Bozdogan A. E., Asci B.
 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**
 Keser Karaoğlan G., Aycaan Ş., İslimyeli S., İmre S.
 Celal Bayar University Journal of Science and Arts Faculty The Series of Natural Science (Chemistry), no.3, pp.164-166, 1998 (Peer-Reviewed Journal)

Books & Book Chapters

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

Erdoğmuş A., Keser Karaoğlan G., Avciata U., Gül A.

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

Refereed Congress / Symposium Publications in Proceedings

- I. **Stability and Activity of Water Soluble (tetrakis-([4-(trimethylamino)phenyl]prop-2-en-1-ylideneimino)phenoxy)]-phthalocyaninatozinc(II)) tetraiodide in solution**
Karahan Y., Şakar Daşdan D., Keser Karaoğlan G., Gümrükçü 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**
Hışır A., Gümrükçü Köse G., Keser Karaoğlan 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**
Neccaroğlu Işık S., Keser Karaoğlan G., Gümrükçü 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**
Hışır A., Gümrükçü Köse G., Yaşa Atmaca G., Erdoğmuş A., Keser Karaoğlan G.
Third GTU Photodynamic Day, Kocaeli, Turkey, 09 May 2018, pp.18
- V. **Novel Carboxylic Acid Substitued Silicon and Zinc Phthalocyanine Photosensitizers Photophysicochemical Properties**
Hışır A., GÜMRÜKÇÜ KÖSE G., YAŞA ATMACA G., KESER KARAOĞLAN G., ERDOĞMUŞ A.
Third GTU Photodynamic Day, 09 May 2018
- VI. **The Synthesis and Characterization of Novel Carboxylic Group Substitued Metallophthalocyanines**
GÜMRÜKÇÜ KÖSE G., Neccaroğlu Işık S., KESER KARAOĞLAN G.
20th JCF-Frühjahrssymposium Congress, Konstanz, Germany, 21 March 2018, pp.158
- VII. **Synthesis and Characterization of Metallophthalocyanines Containing Carboxylic Group**
KESER KARAOĞLAN G., Hışır 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 KARAOĞLAN G., GÖRDÜK S., GÜL 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**
Gümrükçü Köse G., Keser Karaoğlan G., Kemikli N., Gül 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 Karaoğlan G., Gümrükçü Köse G., Erdoğmuş A., Gül 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., Erdoğmuş 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- π -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. **Potentiometric 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. **Potentiometric 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. **Potentiometric 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)**

- Demirhan N., Keser Karaođlan G., Avcıata U.
Mustafa Kemal University International Organic Chemistry Meeting, Hatay, Turkey, 25 - 28 March 2002, pp.43
- XXVII. **Pentaoksadiaza Makrohalkası İeren 1,10-Fenantrolin Türevinin ve Metal komplekslerinin Sentezi, Karakterizasyonu**
Keser Karaođlan G., Demirhan N., Avcıata U., Gül A.
XV.Ulusal Kimya Kongresi, Bođazii Üniversitesi, İstanbul, Turkey, 4 - 07 September 2001, pp.52
- XXVIII. **1,10-Fenantrolin İeren Çok Diđli Ligandların Sentezi ve Karakterizasyonu**
Keser Karaođlan G., Demirhan N., Avcıata 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**
Keser Karaođlan G., İslimyeli S.
XIII. Ulusal Kimya Kongresi, Samsun, Turkey, 31 August - 04 September 1999, pp.85

Supported Projects

GÜMRÜKÇÜ KÖSE G., ERDOđMUŞ A., AVCIATA U., KESER KARAOđLAN G., Project Supported by Higher Education Institutions, Dimerik Ftalosiyenin Sentez ve Karakterizasyonu, 2015 - 2017

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