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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Eskişehir Osmangazi Üniversitesi, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya (Dr), Türkiye 2009 - 2014

Yüksek Lisans, Eskişehir Osmangazi Üniversitesi, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya (YI) (Tezli), Türkiye 2008 - 2009

Lisans, Anadolu Üniversitesi, Fen Fakültesi, Kimya Bölümü, Türkiye 2002 - 2006

Yaptığı Tezler

Doktora, Çinko(II) ve kadmiyum(II)-tiyofen-2,5-dikarboksilat'xxın bis(imidazol) türevleri ile gözenekli koordinasyon polimerlerinin hidrotermal sentezi ve yapısal özelliklerinin araştırılması, Eskişehir Osmangazi Üniversitesi, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya (Dr), 2014

Yüksek Lisans, Bazı geçiş metallerinin karışık liganthı (2-metilimidazol ve n-metilimidazol) orotik asit komplekslerinin sentezi, spektroskopik, termik ve yapısal özelliklerinin araştırılması, Eskişehir Osmangazi Üniversitesi, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya (YI) (Tezli), 2009

Araştırma Alanları

İnorganik Kimya, Geçiş Elementleri, İnorganik Polimerler, Koordinasyon Kimyası, Yeni Ligandlar

Akademik Unvanlar / Görevler

Doç. Dr., Eskişehir Osmangazi Üniversitesi, FEN FAKÜLTESİ, KİMYA BÖLÜMÜ, 2018 - Devam Ediyor

Yrd. Doç. Dr., Eskişehir Osmangazi Üniversitesi, FEN FAKÜLTESİ, KİMYA BÖLÜMÜ, 2017 - 2018

Araştırma Görevlisi Dr., Eskişehir Osmangazi Üniversitesi, FEN FAKÜLTESİ, KİMYA BÖLÜMÜ, 2014 - 2017

Araştırma Görevlisi, Eskişehir Osmangazi Üniversitesi, FEN FAKÜLTESİ, KİMYA BÖLÜMÜ, 2007 - 2014

Akademik İdari Deneyim

Bölüm Başkan Yardımcısı, Eskişehir Osmangazi Üniversitesi, FEN FAKÜLTESİ, KİMYA BÖLÜMÜ, 2019 - Devam Ediyor
Eskişehir Osmangazi Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2017 - 2018

Verdiği Dersler

Anorganik Kimya Laboratuvarı II, Lisans, 2017 - 2018
Koordinasyon Polimerleri I, Lisans, 2017 - 2018
Kimya Laboratuvarı, Lisans, 2017 - 2018
Anorganik Kimya I, Lisans, 2017 - 2018
İleri Koordinasyon Kimyası, Yüksek Lisans, 2017 - 2018
İleri X-Işınları Analiz Teknikleri, Yüksek Lisans, 2017 - 2018
Anorganik Bileşikler I, Lisans, 2017 - 2018
X-Işınları Analiz Teknikleri, Lisans, 2017 - 2018, 2016 - 2017
Kordinasyon Polimerleri II, Lisans, 2017 - 2018
Kompleks Karakterizasyonu ve Uygulamaları, Lisans, 2017 - 2018
Kimya, Lisans, 2017 - 2018, 2016 - 2017
İleri Koordinasyon Polimerleri, Yüksek Lisans, 2017 - 2018
Koordinasyon Polimerleri II, Lisans, 2017 - 2018
Koordinasyon Kimyası, Lisans, 2017 - 2018
Temel Bilgi Teknolojileri, Lisans, 2017 - 2018
Termal Analiz Yöntemleri, Yüksek Lisans, 2017 - 2018
Anorganik Kimya Laboratuvarı I, Lisans, 2017 - 2018
Moleküler Simetri ve Grup Teori, Yüksek Lisans, 2017 - 2018
Anorganik Kimya II, Lisans, 2017 - 2018

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Zn(II)-Coordination Polymers Constructed from Isomeric Bis(Imidazole) Derivative Ligands and Tetracarboxylic Acid for the Detection of Iron Ions**
Kavak E., Şevik M., Aydoğan A., Demir S., Solmaz G., Semerci F., Erer H., Yeşilel O. Z., Arici M.
Journal of Inorganic and Organometallic Polymers and Materials, cilt.34, sa.9, ss.4255-4266, 2024 (SCI-Expanded)
- II. **2D Cadmium(II) Coordination Polymer Based on 2,5-Furandicarboxylate and 1,4-Bis(1H-imidazol-1-yl)butane Linkers: Synthesis, Characterization and DFT Studies**
DEMİR S., DİKMEN G., ERER H.
Journal of Inorganic and Organometallic Polymers and Materials, cilt.34, sa.9, ss.4203-4213, 2024 (SCI-Expanded)
- III. **MOF-801 based solid phase microextraction fiber for the monitoring of indoor BTEX pollution**
Bolat S., DEMİR S., ERER H., PELİT F., Dzingelevičienė R., Ligor T., Buszewski B., PELİT L.
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- IV. **Construction of Novel Co(II) Coordination Polymers-Hydrogel Composites for Dye Adsorption**
Samav Y., Demir S., Solmaz G., Tuncer C., Erer H.
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- V. **Synthesis and characterization of new 2D coordination polymers based on mixed 1,1-cyclopentanediacetate and 1,2-bis((1H-imidazol-1-yl)methyl)benzene linkers**
DEMİR S., ERER H.
Journal of Molecular Structure, cilt.1295, 2024 (SCI-Expanded)
- VI. **Sensitivity to NH₃ Vapor: Synthesis and Characterization of Five New Coordination Polymers Based on 2,2-Dimethylglutaric Acid and Bis(triazole)-Derived Ligands**
KÖSE YAMAN P., Demir O., DEMİR S., ZEYREK ONGUN M., OĞUZLAR S., ERER H.
ACS OMEGA, sa.3, ss.3193-3203, 2024 (SCI-Expanded)
- VII. **A copper(ii) metal-organic framework with 2,2-dimethylglutarate and imidazole ligands: synthesis, characterization and catalytic performance for cycloaddition of CO₂ to epoxides**
KÖSE YAMAN P., DEMİR S., Denizalti S., ERER H., YEŞİLEL O. Z.
NEW JOURNAL OF CHEMISTRY, cilt.48, sa.4, ss.1850-1855, 2023 (SCI-Expanded)
- VIII. **2D Zinc(II)-Coordination Polymer Based on 1,3,5-Benzenetricarboxylate and Novel 4,4'-Bis((2-**

isopropyl-1H-imidazole-1-yl)methyl)-1,1'-biphenyl Ligands for the Adsorption of Methyl Orange
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- IX. **Synthesis and Characterization of Cobalt(II) and Zinc(II) Coordination Polymers Constructed from Bis(isophthalic acid) and Bis(1,2,4-triazole) Linkers**
Erer H., Demir S., Karaman B., Arıcı M., Yeşilel O. Z.
Journal of Inorganic and Organometallic Polymers and Materials, cilt.33, sa.8, ss.2386-2398, 2023 (SCI-Expanded)
- X. **Two-dimensional oxalamide based isostructural MOFs for CO₂ capture**
Güçlü Y., ERER H., DEMİRAL H., Zorlu Y., Altintas C., Keskin S., Semerci F.
Journal of Solid State Chemistry, cilt.319, 2023 (SCI-Expanded)
- XI. **Synthesis, characterization and dye adsorption property of a 2D nickel(ii)-coordination polymer constructed from tetracarboxylic acid and 1,3-bis(imidazol-1-yl-methyl)benzene**
Ciftci E., Alp Arıcı T., ARICI M., ERER H., YEŞİLEL O. Z.
CRYSTENGCOMM, cilt.24, sa.42, ss.7440-7446, 2022 (SCI-Expanded)
- XII. **Synthesis, characterization and dye adsorption properties of a 3-fold interpenetrated cobalt(II)-metal organic framework based on (E)-5,5'-(but-2-ene-1,4-diylbis(oxy))diisophthalate and 1,4-bis(imidazole-1-yl)butane ligands**
Çiftçi E., Alp Arıcı T., ARICI M., ERER H., YEŞİLEL O. Z.
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- XIII. **Novel fluorescent coumarin-thiazole based sensors for selective determination of cyanide in aqueous media**
Kandemir E., ÖZKÜTÜK M., AYDINER B., SEFEROĞLU N., ERER H., SEFEROĞLU Z.
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- XIV. **Oxalamide-Functionalized Metal Organic Frameworks for CO₂ Adsorption**
Güçlü Y., ERER H., DEMİRAL H., Altintas C., Keskin S., Tumanov N., Su B., Semerci F.
ACS Applied Materials and Interfaces, cilt.13, ss.33188-33198, 2021 (SCI-Expanded)
- XV. **Cobalt(II), Zinc(II) and Cadmium(II) Coordination Polymers Assembled by Flexible 5,5'-(But-2-ene-1,4-diylbis(oxy))diisophthalic Acid and 1,2-Bis((1H-imidazol-1-yl)methyl)benzene Ligands**
Ciftci E., ERER H., ARICI M., YEŞİLEL O. Z.
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- XVI. **The Effect of Metal Salts on The Structures of 2,2-Dimethylglutarate Complexes with a Flexible 1,4-bis(imidazol-1-ylmethyl)-2,3,5,6-tetramethylbenzene**
Köse Yaman P., ARICI M., ERER H., YEŞİLEL O. Z.
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- XVII. **Cobalt(II) and zinc(II)-coordination polymers constructed from ether-linked tetracarboxylic acid and isomeric bis(imidazole) linkers: luminescence-based Fe(m) detection in aqueous media**
ARICI M., Dikilitas Y. C., ERER H., YEŞİLEL O. Z.
CRYSTENGCOMM, cilt.22, sa.35, ss.5776-5785, 2020 (SCI-Expanded)
- XVIII. **Effect of ligand flexibility on dimensionality in cadmium(II)-2,2-dimethylglutarate complexes**
Yaman P. K., ERER H., ARICI M., YEŞİLEL O. Z.
JOURNAL OF COORDINATION CHEMISTRY, cilt.73, sa.3, ss.404-416, 2020 (SCI-Expanded)
- XIX. **Three dimensional manganese(II) coordination polymers constructed from 2,2-dimethylglutarate and bis(pyridyl) type ligands**
Yaman P. K., ERER H., YEŞİLEL O. Z.
POLYHEDRON, cilt.171, ss.317-322, 2019 (SCI-Expanded)
- XX. **Coordination polymers based on 3,3-dimethylglutarate and 1,4-bis((1H-i-midazol-1-yl)methyl)benzene: Hydrothermal synthesis and characterizations**
ARICI M., ERER H., Karacam S., YEŞİLEL O. Z.
JOURNAL OF SOLID STATE CHEMISTRY, cilt.277, ss.811-818, 2019 (SCI-Expanded)
- XXI. **Hydrothermal synthesis and characterization of two dimensional coordination polymers with 2,2 '-**

dimethylglutarate and 1,2-bis(imidazol-1-ylmethyl)benzene

Yaman P. K., ERER H., ARICI M., Erucar I., YEŞİLEL O. Z.

INORGANICA CHIMICA ACTA, cilt.488, ss.229-237, 2019 (SCI-Expanded)

- XXII. **The structures and properties of zinc(II) and cadmium(II) coordination polymers based on semi-rigid phenylenediacetate and 1,4-bis(2-methylimidazol-1-ylmethyl)benzene linkers**
SEZER G. G., ARICI M., Rixson D., Burrows A. D., YEŞİLEL O. Z., ERER H.
JOURNAL OF SOLID STATE CHEMISTRY, cilt.269, ss.246-256, 2019 (SCI-Expanded)
- XXIII. **Zinc(II) and cadmium(II) coordination polymers containing phenylenediacetate and 4,4'-azobis(pyridine) ligands: Syntheses, structures, dye adsorption properties and molecular dynamics simulations**
SEZER G. G., ARICI M., Erucar I., YEŞİLEL O. Z., Ozel H. U., GEMİCİ B. T., ERER H.
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- XXIV. **Synthesis and characterization of new Ag(I) coordination networks based on saccharinate and bis(isopropylimidazole) ligands exhibiting very close C-H...Ag interactions**
SEMERCİ F., ŞAHİN O., ERER H.
POLYHEDRON, cilt.123, ss.316-322, 2017 (SCI-Expanded)
- XXV. **Construction, Structural Diversity, and Properties of Seven Zn(II)-Coordination Polymers Based on 3,3',5,5'-Azobenzenetetracarboxylic Acid and Flexible Substitute Bis(imidazole) Linkers**
ARICI M., YEŞİLEL O. Z., TAŞ M., Demiral H., ERER H.
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- XXVI. **Zinc(II) and Cadmium(II) coordination polymers constructed from phenylenediacetate ligands**
SEZER G. G., YEŞİLEL O. Z., ERER H., ŞAHİN O.
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- XXVII. **Effect of O and S heteroatom containing heterocyclic dicarboxylates in the structural diversity of cadmium(II) coordination polymers with flexible 1-substituted (1,2,4-triazole) ligand**
ERER H.
POLYHEDRON, cilt.102, ss.201-206, 2015 (SCI-Expanded)
- XXVIII. **Temperature-controlled formation of two Zn(II)-coordination polymers based on flexible o-phenylenediacetic acid and rigid 1,4-bis(imidazol-1-yl)benzene**
Sezer G. G., YEŞİLEL O. Z., ARICI M., ERER H.
POLYHEDRON, cilt.102, ss.514-520, 2015 (SCI-Expanded)
- XXIX. **A zinc(II) metal organic framework based on flexible o-phenylenediacetate and rigid 4,4'-azobis(pyridine) ligands: Synthesis, crystal structure and hydrogen gas adsorption property**
Gunay G., YEŞİLEL O. Z., ERER H., Keskin S., TABAK A.
POLYHEDRON, cilt.100, ss.108-113, 2015 (SCI-Expanded)
- XXX. **Hydrothermal synthesis and characterization of Zn(II), Cd(II) and Ag(I)-saccharinate complexes containing bis(imidazol) derivatives**
ERER H., Karacam S., ARICI M., YEŞİLEL O. Z., ÇELİK Ö.
POLYHEDRON, cilt.98, ss.180-189, 2015 (SCI-Expanded)
- XXXI. **Design and construction of six coordination polymers with imidazole-4,5-dicarboxylate ligand**
ERER H., YEŞİLEL O. Z., ŞAHİN O., BÜYÜKGÜNGÖR O.
INORGANICA CHIMICA ACTA, cilt.434, ss.14-23, 2015 (SCI-Expanded)
- XXXII. **A Series of Zinc(II) 3D -> 3D Interpenetrated Coordination Polymers Based On Thiophene-2,5-dicarboxylate and Bis(Imidazole) Derivative Linkers**
ERER H., YEŞİLEL O. Z., ARICI M.
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- XXXIII. **Three-dimensional zinc(II) and cadmium(II) metal organic frameworks (MOFs) based on 3,3',5,5'-azobenzenetetracarboxylate and bis-(imidazole) ligands**
YEŞİLEL O. Z., ARICI M., TAŞ M., ERER H.
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- XXXIV. **2D -> 3D polycatenated and 3D -> 3D interpenetrated metal-organic frameworks constructed from**

thiophene-2,5-dicarboxylate and rigid bis(imidazole) ligands

ERER H., YEŞİLEL O. Z., ARICI M., Keskin S., BÜYÜKGÜNGÖR O.

JOURNAL OF SOLID STATE CHEMISTRY, cilt.210, sa.1, ss.261-266, 2014 (SCI-Expanded)

- XXXV. **Co(II), Ni(II) and Zn(II)-orotate complexes with N-methylimidazole: Synthesis, crystal structures and antimicrobial activities**
ERER H., YEŞİLEL O. Z., Darcan C., BÜYÜKGÜNGÖR O.
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- XXXVI. **Supramolecular architectures of cadmium(II)-orotate complexes containing water clusters**
YEŞİLEL O. Z., ERER H., BÜYÜKGÜNGÖR O.
CRYSTENGCOMM, cilt.13, sa.5, ss.1339-1349, 2011 (SCI-Expanded)
- XXXVII. **Cobalt(II), Zinc(II) and Cadmium(II)-Squarate Complexes with N-Methylimidazole**
ERER H., YEŞİLEL O. Z., BÜYÜKGÜNGÖR O.
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- XXXVIII. **Hydrogen bonded networks and a self-assembled 1D water cluster in nickel(II) and copper(II)-orotate complexes**
YEŞİLEL O. Z., ERER H., KAŞTAŞ G., KANI İ.
POLYHEDRON, cilt.29, sa.13, ss.2600-2608, 2010 (SCI-Expanded)
- XXXIX. **Tris(ethylenediamine)nickel(II) 1H-pyrazole-3,5-dicarboxylate 1.67-hydrate**
Demirtas G., DEGE N., YEŞİLEL O. Z., ERER H., BÜYÜKGÜNGÖR O.
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, cilt.66, 2010 (SCI-Expanded)
- XL. **One Dimensional Coordination Polymer of Nickel(II)-Squarate with N,N,N',N'-tetramethylethylenediamine, {[Ni(μ -sq)(H₂O)(2)(tmen)]center dot H₂O}(n)}**
ERER H., YEŞİLEL O. Z., Dege N., Alpaslan Y. B.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, cilt.20, sa.2, ss.411-415, 2010 (SCI-Expanded)
- XLI. **An unprecedented coordination mode of the orotate ligand in novel polynuclear cadmium(II)-orotate complexes**
YEŞİLEL O. Z., ERER H., BÜYÜKGÜNGÖR O.
POLYHEDRON, cilt.29, sa.7, ss.1815-1821, 2010 (SCI-Expanded)
- XLII. **A Novel Copper(II)-Hydrogen Oxalate Coordination Polymer Showing a New Coordination Mode**
YEŞİLEL O. Z., ERER H., ODABAŞOĞLU M., BÜYÜKGÜNGÖR O.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, cilt.20, sa.1, ss.78-82, 2010 (SCI-Expanded)
- XLIII. **One-dimensional coordination polymers of Co(II) and Cd(II)-squarate with 2-methylimidazole and 4(5)-methylimidazole ligands**
ERER H., YEŞİLEL O. Z., BÜYÜKGÜNGÖR O.
POLYHEDRON, cilt.29, sa.3, ss.1163-1167, 2010 (SCI-Expanded)
- XLIV. **One Dimensional Coordination Polymer of Nickel(II)-Squarate with N,N,N',N'-tetramethylethylenediamine, {[Ni(μ -sq)(H₂O)(2)(tmen)]center dot H₂O}(n)}**
DEGE N., Erer H., Yesilel O. Z., Alpaslan Y. B.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, cilt.66, 2010 (SCI-Expanded)
- XLV. **Synthesis, spectroscopic, thermal Studies, antimicrobial activities and crystal structures of Co(II), Ni(II), Cu(II) and Zn(II)-orotate complexes with 2-methylimidazole**
ERER H., YEŞİLEL O. Z., Darcan C., BÜYÜKGÜNGÖR O.
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- XLVI. **Uncommon coordination modes of 4-methylimidazole in [Zn(4-Meim)(2)(5-Meim)(2)]sq center dot 3H(2)O**
YEŞİLEL O. Z., ERER H., BÜYÜKGÜNGÖR O.
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- XLVII. **Diaquabis(1,3-propanediamine)nickel(II) squarate tetrahydrate**

- Temel E., ERER H., YEŞİLEL O. Z., BÜYÜKGÜNGÖR O.
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- XLVIII. **Synthesis, characterization and catalytic activity of novel Co(II) and Pd(II)-perfluoroalkylphthalocyanine in fluorous biphasic system; benzyl alcohol oxidation**
Oezer M., Yilmaz F., Erer H., Kani I., Bekaroglu O.
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- XLIX. **Coordination polymers of Mn(II) and Cu(II) orotate with 2-methylimidazole and N,N,N',N'-tetramethylethylenediamine ligands: Syntheses, spectroscopic and thermal analyses and crystal structures of mer-[Mn(mu-HOr)(H2O)(2-meim)(2)](n) and thermochromic {[Cu(mu-HOr)(tmen)] center dot 1.5H(2)O}(n) complexes**
YEŞİLEL O. Z., ERER H., Mutlu A., BÜYÜKGÜNGÖR O.
POLYHEDRON, cilt.28, sa.1, ss.150-156, 2009 (SCI-Expanded)
- L. **Syntheses, Spectra, Thermal Studies and Crystal Structures of Vitamin B13 Complexes of Nickel(II) with N,N,N',N'-Tetramethylethylenediamine and 2,2-Dimethylpropane-1,3-diamine**
YEŞİLEL O. Z., ERER H., DEGE N., BÜYÜKGÜNGÖR O.
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- LI. **Synthesis, spectral, thermal, and structural studies of copper(II)-squarate coordination polymer with 2-hydroxyethylpyridine, {[Cu(-sq)(etpy)2] center dot H2O}n**
YEŞİLEL O. Z., ERER H., SOYLU M. S., BÜYÜKGÜNGÖR O.
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Diğer Dergilerde Yayınlanan Makaleler

- I. **Syntheses and Characterizations of Zinc(II) and Cadmium (II) Novel Coordination Polymers with 1,4-bis ((1H-1,2,4-triazol-1-yl) methyl)benzene**
Köse Yaman P., Erer H., Yeşilel O. Z.
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, cilt.22, sa.65, ss.425-435, 2020
(Hakemli Dergi)
- II. **Novel Coordination Compounds Based on 2-Methylimidazole and 2,2'-dimethylglutarate Containing Ligands: Synthesis and Characterization**
KÖSE P., ERER H.
Journal of the Turkish Chemical Society, Section A: Chemistry, cilt.5, sa.2, ss.953-962, 2018 (Scopus)

Kitap & Kitap Bölümleri

- I. **GENEL KİMYA LABORATUVARI**
YEŞİLEL O. Z., ERER H., TUNCER C., ÖZŞEN BATUR Ö., ÇELİK S., SAYIN F., YANDIMOĞLU M., OCAK E., ÖZBAL A., DEMİR S.
Eskişehir Osmangazi Üniversitesi, Eskişehir, 2022
- II. **Katı Sabun ve Dezenfektan Eldesi**
DEMİR S., ERER H.
GENEL KİMYA LABORATUVARI, YEŞİLEL Okan Zafer, Editör, Eskişehir Osmangazi Üniversitesi Basımevi, Eskişehir, ss.102-108, 2022

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Synthesis And Characterization Of Copper (II) and Cadmium (II) Supramolecular Compounds With 2,2-Dimethylglutarate And Imidazole Derivate Ligands**

KÖSE P., ERER H., YEŞİLEL O. Z.

HEZARFEN International Congress of Science, Mathematics and Engineering Sciences, 8 - 10 Kasım 2019

- II. **Fonksiyonelleştirilmiş Yüzeyle Sahip Üç Kat İç İç Geçmiş Zn(II)-Gözenekli Koordinasyon Polimerleri: Sentez ve Karakterizasyonu**
KARAMAN B., ARICI M., ERER H., YEŞİLEL O. Z.
VII. Ulusal Anorganik Kimya Kongresi, Çorum, Türkiye, 19 - 22 Haziran 2019, ss.38
- III. **Simetrik Tetrakarboxilik Asit ile İki ve Üç Boyutlu Çinko(II) Koordinasyon Polimerinin Sentezi ve Karakterizasyonu**
DİKİLİTAŞ C., ARICI M., ERER H., YEŞİLEL O. Z.
VII. Ulusal Anorganik Kimya Kongresi, Çorum, Türkiye, 19 - 22 Haziran 2019, ss.122
- IV. **Tetrakarboxilat ve Bis(Triazol) Türevi Ligantlar ile Sentezlenen Fonksiyonel Koordinasyon Polimerleri**
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