

# Prof. OKAN ZAFER YEŞİLEL

## Personal Information

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## Education Information

Doctorate, Ondokuz Mayıs University, Institute Of Science, Kimya (Dr), Turkey 1999 - 2004

Postgraduate, Ondokuz Mayıs University, Institute Of Science, Kimya (YI) (Tezli), Turkey 1996 - 1999

Undergraduate, Ondokuz Mayıs University, Faculty Of Education, Department Of Mathematics And Science Teaching, Turkey 1991 - 1995

## Dissertations

Doctorate, Bazı geçiş metallerinin karışık liganlı (etilendiamin, 1,10 fenantrolin, imidazol) orotik asit ve trietanolamin skuarat komplekslerinin sentezi, spektroskopik ve termik özelliklerinin araştırılması, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Kimya (Dr), 2004

Postgraduate, Bazı geçiş metalleri-urasil komplekslerinin sentezi, spektroskopik ve termik özelliklerinin incelenmesi, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 1999

## Research Areas

Chemistry, Inorganic Chemistry, Coordination Chemistry, Natural Sciences

## Academic Titles / Tasks

Professor, Eskisehir Osmangazi University, FEN FAKÜLTESİ, KİMYA BÖLÜMÜ, 2013 - Continues

Associate Professor, Eskisehir Osmangazi University, FEN FAKÜLTESİ, KİMYA BÖLÜMÜ, 2007 - 2013

Assistant Professor, Eskisehir Osmangazi University, FEN FAKÜLTESİ, KİMYA BÖLÜMÜ, 2006 - 2007

Research Assistant, Ondokuz Mayıs University, Faculty Of Arts And Sciences, Department Of Chemistry, 1998 - 2005

Research Assistant, Ondokuz Mayıs University, Faculty Of Education, Department Of Mathematics And Science Teaching, 1995 - 1998

## Academic and Administrative Experience

Head of Department, Eskisehir Osmangazi University, FEN FAKÜLTESİ, KİMYA BÖLÜMÜ, 2020 - Continues

Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2018 - Continues

## Advising Theses

- YEŞİLEL O. Z., 3,5-Piridinyumdikarboksilat ile Zwitteriyonik Ligandların ve Koordinasyon Polimerlerinin Sentezi, Yapılarının Belirlenmesi ve Lüminesans Özelliklerinin Araştırılması, Postgraduate, E.DİNÇER(Student), 2020
- YEŞİLEL O. Z., Bis(izoftalik asit) ve bis(imidazol) türevi ligandlarla kobalt(II), çinko(II) ve kadmiyum(II) koordinasyon polimerlerinin sentezi ve karakterizasyonu, Postgraduate, Y.CAN(Student), 2019
- YEŞİLEL O. Z., Fenilsüksinat ve Bis(imidazol) Türevi Ligandlarla Bazı Geçiş Metal Komplekslerinin Sentezi ve Yapısal Özelliklerinin Belirlenmesi, Postgraduate, U.GÜLER(Student), 2019
- YEŞİLEL O. Z., ZWİTTERİYONİK LİGANT İLE KOORDİNASYON BİLEŞİKLERİNİN SENTEZİ VE YAPISAL ÖZELLİKLERİNİN ARAŞTIRILMASI, Postgraduate, E.ÇİFTÇİ(Student), 2019
- YEŞİLEL O. Z., 3,3',5,5'-azobenzenetetrakarboksilat ve bazı bis(imidazol) türevi ligantlar ile çinko(II) ve kadmiyum(II)-koordinasyon polimerlerinin sentezi, yapılarının aydınlatılması ve bazı potansiyel uygulamaları, Doctorate, M.ARICI(Student), 2016
- YEŞİLEL O. Z., Fenilendiasetat türevleri ile çinko(II) ve kadmiyum(II) koordinasyon polimerlerinin sentezi, yapılarının ve gaz adsorpsiyon özelliklerinin araştırılması, Doctorate, G.GÜNAY(Student), 2016
- YEŞİLEL O. Z., Piridin-2,3-dikarboksilat ile koordinasyon polimerlerinin sentezi ve yapısal özelliklerinin araştırılması, Doctorate, F.SEMERCİ(Student), 2014
- YEŞİLEL O. Z., Çinko(II) ve kadmiyum(II)-tiyofen-2,5-dikarboksilat'ın bis(imidazol) türevleri ile gözenekli koordinasyon polimerlerinin hidrotermal sentezi ve yapısal özelliklerinin araştırılması, Doctorate, H.ERER(Student), 2014
- YEŞİLEL O. Z., 3,3'-Tiyodipropiyonik asit ile karışık ligantlı bazı geçiş metal komplekslerinin sentezi ve yapısal özelliklerinin incelenmesi, Postgraduate, M.ARICI(Student), 2013
- YEŞİLEL O. Z., Glutarat liganti içeren karışık ligantlı metal komplekslerinin sentezi ve karakterizasyonu, Postgraduate, Y.KILIÇ(Student), 2013
- YEŞİLEL O. Z., Uzun zincirli diamin ligantları içeren gümüş-sakkarinat komplekslerinin sentezi ve yapısal özelliklerinin araştırılması, Postgraduate, B.KARAMAHMUT(Student), 2012
- YEŞİLEL O. Z., Bazı geçiş metalleri ile karışık ligantlı pirazin-2,3-dikarboksilat komplekslerinin sentezi ve yapılarının aydınlatılması, Postgraduate, G.GÜNAY(Student), 2011
- YEŞİLEL O. Z., Farklı diamin ligantları içeren karışık ligantlı bakır(II)-tiyofen-2,5-dikarboksilat komplekslerinin sentezi, spektroskopik, termik ve yapısal özelliklerinin araştırılması, Postgraduate, İ.İLKER(Student), 2010
- YEŞİLEL O. Z., İmidazol türevleri içeren bakır(II), çinko(II) ve kadmiyum(II)-piridin-2,3-dikarboksilat komplekslerinin sentezi ve karakterizasyonu, Postgraduate, F.SEMERCİ(Student), 2010
- YEŞİLEL O. Z., Karışık ligantlı bakır(II) pirazin-2,3-dikarboksilat komplekslerinin sentezi, spektroskopik, termik ve yapısal özelliklerinin araştırılması, Postgraduate, A.MUTLU(Student), 2009
- YEŞİLEL O. Z., Bazı geçiş metallerinin karışık ligantlı (2-metilimidazol ve n-metilimidazol) orotik asit komplekslerinin sentezi, spektroskopik, termik ve yapısal özelliklerinin araştırılması, Postgraduate, H.ERER(Student), 2009

## Published journal articles indexed by SCI, SSCI, and AHCI

- Heteronuclear cadmium(II)/cobalt(III) cyanide coordination polymers with 1-methylimidazole and 1-ethylimidazole ligands: synthesis, characterization and catalytic activities**  
KÜRKÇÜOĞLU G. S., Kekeç S., YEŞİLEL O. Z., Gökkuş K., Ünver H., Şahin O.  
Inorganica Chimica Acta, vol.574, 2025 (SCI-Expanded)
- Syntheses, characterizations and photochromic properties of 1D→2D polycatenated cationic coordination polymers based on the flexible tripodal zwitterionic ligand**  
Ciftci E., Demir O., ARICI M., YEŞİLEL O. Z.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1318, 2024 (SCI-Expanded)
- Heteronuclear coordination polymers with imidazole ligand: Synthesis, characterization and alcohol**

**oxidation activities**

KÜRKÇÜOĞLU G. S., YEŞİLEL O. Z., Mwanza T., Kekeç S., Ünver H., Şahin O.  
Polyhedron, vol.264, 2024 (SCI-Expanded)

- IV. **Synthesis, characterization and crystal structures of heteronuclear coordination polymers with 4-methylpyridine**  
Kekeç S., KÜRKÇÜOĞLU G. S., ŞAHİN O., YEŞİLEL O. Z.  
STRUCTURAL CHEMISTRY, vol.35, no.5, pp.1365-1373, 2024 (SCI-Expanded)
- V. **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, vol.34, no.9, pp.4255-4266, 2024 (SCI-Expanded)
- VI. **Syntheses, crystal structures, spectroscopic and thermal properties of 3D heteronuclear coordination polymers with 4-ethylpyridine and cyanide ligands**  
Kekeç S., Kürküoğlu G. S., Yeşilel O. Z., Şahin O.  
Structural Chemistry, vol.35, no.4, pp.1075-1083, 2024 (SCI-Expanded)
- VII. **A New Tripodal Zwitterionic Ligand-Based Cationic Manganese(II) Metal-Organic Framework: Synthesis, Characterization and Photochromic Property**  
Ciftci E., Arici M., Wriedt M., YEŞİLEL O. Z.  
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.34, no.6, pp.2410-2417, 2024 (SCI-Expanded)
- VIII. **Distinct color change of a Ho(III)-based metal-organic framework upon varying incident light sources**  
Joy M., YEŞİLEL O. Z., Wriedt M.  
Inorganic Chemistry Communications, vol.162, 2024 (SCI-Expanded)
- IX. **Synthesis and characterization of four coordination compounds with 3,5-dicarboxy-1-(3-cyanobenzyl)pyridin-1-ium bromide and investigation of the photoreaction of 2D cadmium(II) compound**  
Okman B., ARICI M., YEŞİLEL O. Z.  
Polyhedron, vol.252, 2024 (SCI-Expanded)
- X. **Heteronuclear Hexacyanometallate(III) Coordination Polymers (Cd/Cr, Cd/Fe, Cd/Co) with 3-(Aminomethyl)pyridine: Synthesis, Characterization, and Catalytic Activities for the Peroxidative Oxidation of Benzylic Alcohols**  
Kekeç S., Kürküoğlu G. S., Ünver H., Şahin O., Yeşilel O. Z.  
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.34, no.3, pp.1081-1091, 2024 (SCI-Expanded)
- XI. **A copper(ii) metal-organic framework with 2,2-dimethylglutarate and imidazole ligands: synthesis, characterization and catalytic performance for cycloaddition of CO<sub>2</sub> to epoxides**  
KÖSE YAMAN P., DEMİR S., Denizalti S., ERER H., YEŞİLEL O. Z.  
NEW JOURNAL OF CHEMISTRY, vol.48, no.4, pp.1850-1855, 2023 (SCI-Expanded)
- XII. **Copper(II) and Zinc(II) coordination polymers based on glutaric acid and 1,2-bis(4-pyridyl)ethylene: Hydrothermal synthesis, characterization and thermal behaviors**  
Arslan Biçer F., Tataş Coşkun F., Salun B., Özdemir İ., ARICI M., YEŞİLEL O. Z.  
Journal of Molecular Structure, vol.1294, 2023 (SCI-Expanded)
- XIII. **Synthesis, Characterization and the Effect of the Auxiliary Ligands on the Dimensionality of Two Cobalt(II)-Fumarate Coordination Polymers with Bis(Imidazole) Ligands**  
Arslan Biçer F., YEŞİLEL O. Z.  
Journal of Structural Chemistry, vol.64, no.8, pp.1423-1434, 2023 (SCI-Expanded)
- XIV. **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., Arici M., Yeşilel O. Z.  
Journal of Inorganic and Organometallic Polymers and Materials, vol.33, no.8, pp.2386-2398, 2023 (SCI-Expanded)

- XV. **Syntheses, characterization of three new cobalt(II) complexes with 2-phenylsuccinic acid and flexible bis(imidazole) linkers**  
Arslan Biçer F., Arıcı M., Yeşilel O. Z.  
Journal of Molecular Structure, vol.1284, 2023 (SCI-Expanded)
- XVI. **Synthesis, crystal structure and spectroscopic investigations of heteronuclear Co(III)/Cu(II), Co(III)/Cd(II) and Fe(III)/Cd(II) 3D coordination polymers with 4-(2-aminoethyl)pyridine**  
Kürkçüoğlu G. S., Yeşilel O. Z., Kekeç S., Şahin O.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1274, no.1, pp.1-31, 2023 (SCI-Expanded)
- XVII. **Syntheses and characterizations of two-dimensional heteronuclear tetracyanonickelate(II) complexes with 4-ethylpyridine and investigation of the catalytic activity of [Cd(4epy)2Ni(μ-CN)4]n**  
KÜRKÇÜOĞLU G. S., YEŞİLEL O. Z., Kekeç S., Ünver H., Şahin O.  
Journal of Coordination Chemistry, vol.76, no.16-24, pp.1802-1816, 2023 (SCI-Expanded)
- XVIII. **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**  
Ciftçi E., Alp Arıcı T., ARICI M., ERER H., YEŞİLEL O. Z.  
CRYSTENGCOMM, vol.24, no.42, pp.7440-7446, 2022 (SCI-Expanded)
- XIX. **Synthesis, spectroscopic, structural characterizations, and catalytic properties of cyanide-bridged heteronuclear metal organic frameworks with imidazole**  
Mwanza T., KÜRKÇÜOĞLU G. S., Ünver H., Şahin O., YEŞİLEL O. Z.  
JOURNAL OF SOLID STATE CHEMISTRY, vol.314, 2022 (SCI-Expanded)
- XX. **A series of coordination polymers constructed by 2-phenylsuccinic acid and flexible bis(imidazole) ligands: Syntheses, structures, and photoluminescent properties**  
YEŞİLEL O. Z., Güler U., Çiftçi E., ARICI M.  
Journal of Molecular Structure, vol.1262, 2022 (SCI-Expanded)
- XXI. **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.  
Journal of Solid State Chemistry, vol.311, 2022 (SCI-Expanded)
- XXII. **Synthesis, characterization, and optical properties of four coordination polymers with 3,5-dicarboxy-1-(4-cyanobenzyl)pyridin-1-ium bromide**  
KAYA M., DEMİR S., ARICI M., Wriedt M., YEŞİLEL O. Z.  
POLYHEDRON, vol.221, 2022 (SCI-Expanded)
- XXIII. **Zinc(II)-Coordination Polymers Based on Isomeric Azo-Containing Anionic and Neutral Linkers**  
Arıcı M., Yeşilel O. Z.  
Journal of Inorganic and Organometallic Polymers and Materials, vol.32, no.5, pp.1582-1590, 2022 (SCI-Expanded)
- XXIV. **Synthesis and characterization of cerium(III), praseodymium(III), gadolinium(III) and erbium(III) coordination polymers with zwitterionic ligand**  
Aghamohammadi P., Büyükgüngör O., ARICI M., Wriedt M., YEŞİLEL O. Z.  
Journal of Molecular Structure, vol.1250, 2022 (SCI-Expanded)
- XXV. **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, vol.488, pp.229-237, 2019 (SCI-Expanded)
- XXVI. **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, vol.269, pp.246-256, 2019 (SCI-Expanded)
- XXVII. **Hydrothermal synthesis and characterization of cobalt(II), nickel(II) and zinc(II) coordination polymers with 2,2'-dimethylglutarate and 1,2-bis(4-pyridyl)ethane**  
KÖSE YAMAN P., YEŞİLEL O. Z.

- POLYHEDRON, vol.148, pp.189-194, 2018 (SCI-Expanded)
- XXVIII. **Three Co(II)-coordination polymers based on 5-tert-butyl isophthalic acid and isomeric Bis(imidazole) ligands: Synthesis, optical and magnetic properties**  
ARICI M., YEŞİLEL O. Z., BÜYÜKGÜNGÖR O., YERLİ Y.  
POLYHEDRON, vol.142, pp.9-15, 2018 (SCI-Expanded)
- XXIX. **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.  
JOURNAL OF SOLID STATE CHEMISTRY, vol.255, pp.89-96, 2017 (SCI-Expanded)
- XXX. **Facile synthesis of 2D Zn(II) coordination polymer and its crystal structure, selective removal of methylene blue and molecular simulations**  
SEZER G. G., YEŞİLEL O. Z., ŞAHİN O., ARSLANOĞLU H., Erucar I.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1143, pp.355-361, 2017 (SCI-Expanded)
- XXXI. **Zinc(II) and cadmium(II) coordination polymers containing phenylenediacetate and bis(imidazol-1-ylmethyl)benzene linkers: The effect of ligand isomers on the solid state structures**  
SEZER G. G., YEŞİLEL O. Z., ŞAHİN O., Burrows A. D.  
JOURNAL OF SOLID STATE CHEMISTRY, vol.252, pp.8-21, 2017 (SCI-Expanded)
- XXXII. **Two 3D Zinc(II) coordination frameworks constructed from pyrazine-2,3-dicarboxylate and 1,2-bis(4-pyridyl)ethylene**  
SEZER G. G., YEŞİLEL O. Z., BÜYÜKGÜNGÖR O.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1137, pp.562-568, 2017 (SCI-Expanded)
- XXXIII. **Four coordination polymers based on 5-tert-butyl isophthalic acid and rigid bis(imidazol-1yl)benzene linkers: Synthesis, luminescence detection of acetone and optical properties**  
ARICI M., YEŞİLEL O. Z., BÜYÜKGÜNGÖR O.  
JOURNAL OF SOLID STATE CHEMISTRY, vol.249, pp.141-148, 2017 (SCI-Expanded)
- XXXIV. **Synthesis, characterization and properties of nicotinamide and isonicotinamide complexes with diverse dicarboxylic acids**  
ARICI M., YEŞİLEL O. Z., Acar E., DEGE N.  
POLYHEDRON, vol.127, pp.293-301, 2017 (SCI-Expanded)
- XXXV. **CO<sub>2</sub> and Iodine Uptake Properties of Co(II)-Coordination Polymer Constructed from Tetracarboxylic Acid and Flexible Bis(imidazole) Linker**  
ARICI M., YEŞİLEL O. Z., TAŞ M., Demiral H.  
CRYSTAL GROWTH & DESIGN, vol.17, no.5, pp.2654-2659, 2017 (SCI-Expanded)
- XXXVI. **A series of silver(I) coordination polymers with saccarinate and flexible aliphatic diamines**  
YEŞİLEL O. Z., Karamahmut B., SEMERCİ F., DARCAN C., YILMAZ F.  
JOURNAL OF SOLID STATE CHEMISTRY, vol.249, pp.174-188, 2017 (SCI-Expanded)
- XXXVII. **A new decavanadate polyoxovanadate nanocluster: synthesis, characterization and rapid adsorption of methylene blue**  
Naslhajian H., Amini M., Farnia S. M. F., Sheykhi A., ŞAHİN O., YEŞİLEL O. Z.  
JOURNAL OF COORDINATION CHEMISTRY, vol.70, no.17, pp.2940-2949, 2017 (SCI-Expanded)
- XXXVIII. **Cd(II)-coordination polymers based on tetracarboxylic acid and diverse bis(imidazole) ligands: Synthesis, structural diversity and photoluminescence properties**  
ARICI M., YEŞİLEL O. Z., TAŞ M.  
JOURNAL OF SOLID STATE CHEMISTRY, vol.245, pp.146-151, 2017 (SCI-Expanded)
- XXXIX. **Synthesis, crystal structure and magnetic property of one-dimensional heterometallic cyanide-bridged complex:  $\{[\text{Cu}(\text{hmpH})(2)\text{Cu}(\text{hmp})(\text{hmpH})\text{Co}(\mu\text{-CN})(4)(\text{CN})(2)].2\text{H}(2)\text{O}\}(\text{n})$**   
Sayın E., KÜRKÇÜOĞLU G. S., YEŞİLEL O. Z., TAŞ M., ÖZTÜRK M., YERLİ Y.  
POLYHEDRON, vol.115, pp.67-75, 2016 (SCI-Expanded)
- XL. **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.

CRYSTAL GROWTH & DESIGN, vol.16, no.9, pp.5448-5459, 2016 (SCI-Expanded)

- XLII. **Synthesis and characterization of new coordination polymers based on 2,3-/3,4-pyridinedicarboxylates and bispyridine ligands, with structural diversity**  
SEMERCİ F., YEŞİLEL O. Z., YÜKSEL F., ŞAHİN O.  
POLYHEDRON, vol.111, pp.1-10, 2016 (SCI-Expanded)
- XLIII. **Tetranuclear manganese(II) complexes of hydrazone and carbohydrazone ligands: Synthesis, crystal structures, magnetic properties, Hirshfeld surface analysis and DFT calculations**  
Abedi M., YEŞİLEL O. Z., Mahmoudi G., Bauza A., Lofland S. E., YERLİ Y., Kaminsky W., Garczarek P., Zareba J. K., Ienco A., et al.  
INORGANICA CHIMICA ACTA, vol.443, pp.101-109, 2016 (SCI-Expanded)
- XLIV. **Zinc(II) and Cadmium(II) coordination polymers constructed from phenylenediacetate ligands**  
SEZER G. G., YEŞİLEL O. Z., ERER H., ŞAHİN O.  
JOURNAL OF SOLID STATE CHEMISTRY, vol.233, pp.463-470, 2016 (SCI-Expanded)
- XLV. **Cyanide-bridged manganese(II) and chloride-bridged copper(II) complexes with 2-pyridineethanol: synthesis, structural characterization and C-H center dot center dot center dot M interactions**  
Sayin E., KÜRKÇÜOĞLU G. S., YEŞİLEL O. Z., TAŞ M.  
JOURNAL OF COORDINATION CHEMISTRY, vol.69, no.7, pp.1226-1235, 2016 (SCI-Expanded)
- XLVI. **One-pot synthesis of two new metal-organic networks: hydrogen bonded mononuclear Cu(II) complex and mixed-valence Cu(I,II) coordination polymer with encapsulated 14-membered unique water cluster**  
SEMERCİ F., YEŞİLEL O. Z., Yuksel F., ŞAHİN O.  
INORGANIC CHEMISTRY COMMUNICATIONS, vol.62, pp.29-33, 2015 (SCI-Expanded)
- XLVII. **Effect of Solvent Molecule in Pore for Flexible Porous Coordination Polymer upon Gas Adsorption and Iodine Encapsulation**  
ARICI M., YEŞİLEL O. Z., TAŞ M., Demiral H.  
INORGANIC CHEMISTRY, vol.54, no.23, pp.11283-11291, 2015 (SCI-Expanded)
- XLVIII. **Self-assembly of three new metal organic coordination networks based on 1,2-bis(imidazol-1-yl-methyl)benzene**  
SEMERCİ F., YEŞİLEL O. Z., YÜKSEL F.  
POLYHEDRON, vol.102, pp.1-7, 2015 (SCI-Expanded)
- XLIX. **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, vol.102, pp.514-520, 2015 (SCI-Expanded)
- L. **1D cyanide complexes with 2-pyridinemethanol: Synthesis, crystal structures and spectroscopic properties**  
Sayin E., KÜRKÇÜOĞLU G. S., YEŞİLEL O. Z., HÖKELEK T.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1101, pp.73-81, 2015 (SCI-Expanded)
- L. **Solvent-controlled construction of manganese(II) complexes with 4-acetylpyridine nicotinoylhydrazone ligand**  
Servati-Gargari M., Seth S. K., LaDuca R. L., YEŞİLEL O. Z., Pochodylo A., Bauza A., Jana B. C., Arslan T., Frontera A., Mahmoudi G.  
INORGANICA CHIMICA ACTA, vol.438, pp.220-231, 2015 (SCI-Expanded)
- LI. **Synthesis, structural characterization and microbial activity of 2D Ag(I)-5-aminoisophthalate coordination polymer with a new coordination mode**  
Gunay H., ÇOLAK A. T., YEŞİLEL O. Z., Tunc T., ÇOLAK F.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1099, pp.108-113, 2015 (SCI-Expanded)
- LII. **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.

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- LIII. **Hydrothermal synthesis and characterization of Zn(II), Cd(II) and Ag(I)-saccharinate complexes containing bis(imidazol) derivatives**  
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- LIV. **Syntheses, crystal structures and spectroscopic properties of copper(II)-tetracyanommetallate(II) complexes with nicotinamide and isonicotinamide ligands**  
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- LV. **Novel Cyanide-Bridged Heterometallic Two-Dimensional Complex of 3-Methylpyridazine: Synthesis, Crystallographical, Vibrational, Thermal and DFT Studies**  
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- LIX. **Coordination Polymers Assembled From 3,3',5,5'-Azobenzene-tetracarboxylic Acid and Different Bis(imidazole) Ligands with Varying Flexibility**  
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- LX. **Synthesis, crystal structure and spectroscopic properties of one-dimensional zinc(II)-cyanide complex with 1-methylimidazole, [Zn( $\mu$ -CN)(CN) (1-meim)](n)**  
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- CLVIII. **Synthesis, crystal structure, spectroscopic and thermal characterization of (Hampy)(2)[Ni(pydc)(2)(H2O)(2)] center dot 2 H2O**  
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- CLXII. **Synthesis, spectral, thermal, and structural studies of copper(II)-squarate coordination polymer with 2-hydroxyethylpyridine, {[Cu(-sq)(etpy)2] center dot H2O}n**  
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YEŞİLEL O. Z., Dege N., Darcan C., Bueyuekguengoer O.



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- CLXXVI. **[N,N '-bis(3-aminopropyl)ethylenediamine]disaccharinatocadmium(II) 0.25-hydrate**  
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YEŞİLEL O. Z., Oelmez H., Arici C.  
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- II. **Synthesis And Characterization Of Copper (II) and Cadmium (II) Supramolecular Compounds With 2,2-Dimethylglutarate And Imidazole Derivate Ligands**  
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- III. **Fonksiyonelleştirilmiş Yüzeyle Sahip Üç Kat İç İç Geçmiş Zn(II)-Gözenekli Koordinasyon Polimerleri: Sentez ve Karakterizasyonu**  
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- LXXXIV. **Hydrothermal Synthesis and Structural Characterization of Three Dimensional Coordination Polymer With Cd II Thiophene 2 5 dicarboxylate**  
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ÇETİNKAYA KIRAZ F., KÜRKÇÜOĞLU G. S., YEŞİLEL O. Z., HÖKELEK T., DAL H.  
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- XC. **Cyano Bridged Heteropolynuclear Zn II and Cd II Complexes M 3 mpdz 2NiCN 4 n**  
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- XCI. **Cyano Bridged Heteronuclear Polymeric Complex**

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- XCII. **One Dimensional Heteropolynuclear Tetracyanopalladate II Complexes**  
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- XCIII. **Synthesis and Characterisation of Zn II and Cd II Orotate Complexes with 2 Isopropylimidazole**  
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- XCvIII. **A Three Dimensional Silver I Framework Assembled From 3 3 Thiodipropionate Synthesis Structure And Molecular Simulations For Hydrogen Gas Adsorption**  
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- C. **Vibrational FT IR and Raman spectral studies geometrical parameters and theoretical calculations of triethylenetetramine and its cyano bridged heteronuclear polymeric complex**  
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- CI. **Co(II), Ni(II) ve Zn(II)-Orotat'ın N-Metilimidazol Komplekslerinin Sentezi, Kristal Yapısı, Spektroskopik ve Termik Özellikleri**  
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25. Uluslararası Katılımlı Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June - 02 July 2011, pp.84
- CII. **Bir, İki ve Üç Çekirdekli Cd(II)-orotat Komplekslerinin Sentezi ve Yapılarının Aydınlatılması**  
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- CIII. **4-Metilimidazol'ün Bağlanma İzomerliği**  
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- CIV. **2-Etilimidazol İle Karışık Liganlı Co(II), Ni(II), Cu(II) Ve Zn(II)-Orotat Komplekslerinin Sentezi Ve Yapılarının Aydınlatılması**  
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- CV. **Characterization and antimicrobial activities of cobalt pyrazine 2 3 dicarboxylate complexes**  
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- CX. **Poly- $\mu$ -Skuaratobis(2-hidroksietilpiridin)bakır(II) Hidrat Kompleksinin Sentezi ve Karakterizasyonu**  
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## Supported Projects

Yeşilel O. Z., Arıcı M., Demiral H., TUBITAK Project, Yüklü Yüzeyle Sahip Metal Organik Kafeslerin Zwitteriyonik Ligandlarla Sentezi, Karakterizasyonu, Fotokromik Özelliklerinin Ve Karbondioksit Adsorplama Kapasitelerinin Araştırılması, 2021 - 2023

Yeşilel O. Z., TUBITAK Project, FEN BİLİMLERİ ALANINDA TEORİK VE UYGULAMALI ARDEB PROJE YAZMA EĞİTİMİ II, 2021 - 2021

Arıcı M., Yeşilel O. Z., Erer H., TUBITAK Project, POLAR GRUP VE ÇİFT BAĞ İLE FONKSİYONEL HALE GETİRİLMİŞ KARBONDİOKSİTE DUYARLI METAL ORGANİK KAFESLERİN SENTEZİ, KARAKTERİZASYONU, GAZ ADSORPLAMA VE AYIRMA KAPASİTELERİNİN ARAŞTIRILMASI, 2018 - 2021

Yeşilel O. Z., TUBITAK Project, FEN BİLİMLERİ ALANINDA TEORİK VE UYGULAMALI ARDEB PROJE YAZMA EĞİTİMİ I, 2020 - 2020

YEŞİLEL O. Z., Project Supported by Higher Education Institutions, Fenilsüksinat ve Bis(imidazol) Türevi Ligandlarla Bazı Geçiş Metal Komplekslerinin Sentezi ve Yapısal Özelliklerinin Belirlenmesi, 2019 - 2020

YEŞİLEL O. Z., ARICI M., Project Supported by Higher Education Institutions, 3,3-Dimetilpentandionat ve N-Verici Ligantlar İle Koordinasyon Polimerlerinin Sentezi Ve Yapılarının Aydınlatılması, 2016 - 2019

YEŞİLEL O. Z., Other International Funding Programs, Glutarat Türevi Ligandlar ile Lantanit Koordinasyon Polimerlerinin Sentezi, Karakterizasyonu ve Lüminesans Özelliklerinin Araştırılması, 2017 - 2018

YEŞİLEL O. Z., Project Supported by Higher Education Institutions, Glutarat Türevi Ligandlar ile Lantanit-Koordinasyon Polimerlerinin Sentezi, Karakterizasyonu ve Lüminesans Özelliklerinin Araştırılması, 2017 - 2018

ERER H., YEŞİLEL O. Z., ARICI M., Project Supported by Higher Education Institutions, 5 NİTROİSOFTALİK ASİT VE BİS İMİDAZOL TÜREVİ LİGANDLARLA KOORDİNASYONPOLİMERLERİNİN SENTEZİ VE YAPISAL ÖZELLİKLERİ, 2016 - 2018

YEŞİLEL O. Z., Project Supported by Higher Education Institutions, 3,3-Dimetilpentandionat ve N-Verici Ligantlar İle Koordinasyon Polimerlerinin Sentezi ve Yapılarının Aydınlatılması, 2016 - 2018

YEŞİLEL O. Z., TUBITAK Project, Eğitim Bilimleri Alanlarında Lisansüstü Öğrenim Gören Öğrenciler İçin Proje Danışmanlığı Eğitimi, 2017 - 2017

YEŞİLEL O. Z., Project Supported by Higher Education Institutions, Bazı Geçiş Metalleri ile Skuarat Komplekslerinin Sentezi ve Karakterizasyonu, 2016 - 2017

YEŞİLEL O. Z., ARICI M., Project Supported by Higher Education Institutions, Fenilendiasetik Asit ile Koordinasyon Polimerlerin Sentezi ve Yapılarının Aydınlatılması, 2015 - 2017

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YEŞİLEL O. Z., TUBITAK Project, Azobenzen tetrakarboksilik Asit Ve Bis İmidazol Türevi Ligantlarla Metal Organik Kafeslerin MOF Sentezi Yapılarının Aydınlatılması ve Gaz Adsorpsiyon Performanslarının Belirlenmesi, 2013 - 2016

YEŞİLEL O. Z., Project Supported by Higher Education Institutions, 5-Sülfosalisilat Ligantı ile Gümüş Komplekslerinin

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YEŞİLEL O. Z., ERER H., ARICI M., Project Supported by Higher Education Institutions, Bis İmidazol Türevleri İle Bazı Geçiş Metallerinin Sakkarinat Komplekslerinin Sentezi Ve Yapısal Özelliklerinin Araştırılması, 2013 - 2015

YEŞİLEL O. Z., ARICI M., Project Supported by Higher Education Institutions, Hidrotermal ve Mikrodalga Sentez Yöntemleri İle Koordinasyon Polimerlerinin Sentezi Karakterizasyonu ve Gaz Adsorpsiyon Özelliklerinin Araştırılması, 2012 - 2015

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YEŞİLEL O. Z., Project Supported by Higher Education Institutions, Bazı Geçiş metalleri ile Karışık Ligantlı Difenik Asit Komplekslerinin Sentezi, Spektroskopik ve Termik Özelliklerinin Araştırılması, 2013 - 2014

YEŞİLEL O. Z., ERER H., ARICI M., Project Supported by Higher Education Institutions, Hidrotermal ve Mikrodalga Sentez Yöntemleri ile Koordinasyon Polimerlerinin Sentezi, Karakterizasyonu ve Gaz Adsorpsiyon Özelliklerinin Araştırılması, 2012 - 2014

YEŞİLEL O. Z., ARICI M., Project Supported by Higher Education Institutions, Karışık ligantlı Fumarat ve Glutarat komplekslerin sentezi ve yapılarının aydınlatılması, 2012 - 2014

YEŞİLEL O. Z., ARICI M., Project Supported by Higher Education Institutions, 3,3-Tiyodipropiyonik Asit İçeren Karışık Ligantlı Komplekslerin Sentezi Ve Yapısal Özelliklerinin Araştırılması, 2012 - 2013

YEŞİLEL O. Z., ARICI M., Project Supported by Higher Education Institutions, 3,3'-Tiyodipropiyonik Asit İçeren Karışık Ligantlı Komplekslerin Sentezi ve Yapısal Özelliklerinin Araştırılması, 2012 - 2013

KÜRKÇÜOĞLU G. S., YEŞİLEL O. Z., Project Supported by Higher Education Institutions, Bazı N-Donör Atomlu Ligantlarla Hofmann Tipine Benzer Siyano Köprülü Konak ve Konak Konuk Bileşiklerinin Sentezi Yapı ve Özelliklerinin İncelenmesi, 2010 - 2012

KÜRKÇÜOĞLU G. S., Kavlak İ., Çaylı İ., YEŞİLEL O. Z., KURTARAN S., KARAAĞAÇ D., Project Supported by Higher Education Institutions, Bazı N-Donör Atomlu Ligandlarla Hofmann-Tipine Benzer Siyanoköprülü Konak ve Konak-Konuk Bileşiklerinin Sentezi, Yapı ve Özelliklerinin İncelenmesi, 2010 - 2012

Yeşilel O. Z., TUBITAK Project, GÖZENEKLİ KOORDİNASYON POLİMERLERİNİN SENTEZİ KARAKTERİZASYONU ANTİMİKROBİYAL ÖZELLİKLERİNİN ARAŞTIRILMASI VE KUANTUM MEKANİKSEL YÖNTEMLERLE KONFORMASYONU, 2010 - 2012

YEŞİLEL O. Z., Project Supported by Higher Education Institutions, HALKALI DİKARBOKSİLİK ASİT KOMPLEKSLERİNİN SENTEZİ KARAKTERİZASYONU VE ANTİMİKROBİYAL ÖZELLİKLERİNİN ARAŞTIRILMASI, 2008 - 2010

YEŞİLEL O. Z., Project Supported by Higher Education Institutions, Supramoleküler Bileşiklerin Sentezi Spektroskopik ve Termik Özelliklerinin Araştırılması, 2006 - 2008

## Scientific Research / Working Group Memberships

Kimya Biyoloji Araştırma Destek Grubu - Kbag, Eskisehir Osmangazi University, Türkiye, www.tubitak.gov.tr, 2014 - 2017

## Metrics

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## Congress and Symposium Activities

31. Ulusal Kimya Kongresi, Invited Speaker, İstanbul, Turkey, 2019



## **Awards**

Yeşilel O. Z., TÜBİTAK Teşvik Ödülü , Tübitak, July 2014