

## Prof. Mehmet Salih Ağırtaş

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### International Researcher IDs

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### Education Information

Doctorate, Van Yüzüncü Yıl University, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, Turkey 1995 - 1999

Postgraduate, Van Yüzüncü Yıl University, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, Turkey 1992 - 1995

Undergraduate, Van Yüzüncü Yıl University, Fen Edebiyat Fakültesi, Kimya, Turkey 1986 - 1990

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Yeni tip substitüe ftalosiyanın ve metal komplekslerin sentezi ile porfirin- ftalosiyanın supramolekular bileşimlerinin spektral incelenmesi, Van Yüzüncü Yıl University, Fen Bilimleri, Kimya Anabilim Dalı, 1999

Postgraduate, VANGÖLÜ ÇEVRESİNDEKİ TOPRAKLARDA Cu VE Ni KİRLİLİĞİNİN ATOMİK ABSORPSİYON SPEKTROMETRİ YÖNTEMİYLE TAYİNİ, Van Yüzüncü Yıl University, Fen Bilimleri, Kimya Anabilim Dalı, 1995

### Research Areas

Chemistry, Inorganic Chemistry, Coordination Chemistry, Natural Sciences

### Academic Titles / Tasks

Professor, Van Yüzüncü Yıl University, Fen Fakültesi, Kimya Bölümü, 2015 - Continues

Associate Professor, Van Yüzüncü Yıl University, Fen Fakültesi, Kimya Bölümü, 2010 - 2015

Assistant Professor, Van Yüzüncü Yıl University, Fen Fakültesi, Kimya Bölümü, 2009 - 2010

Assistant Professor, Kafkas University, Fen Edebiyat Fakültesi, Kimya, 2000 - 2009

Research Assistant, Van Yüzüncü Yıl University, Fen Bilimleri Enstitüsü, Kimya (Dr), 1992 - 1999

### Academic and Administrative Experience

Van Yüzüncü Yil University, Eğitim Öğretim Koordinatörlük, 2018 - Continues  
Van Yüzüncü Yil University, Fen Fakültesi, Kimya, 2017 - Continues  
Fakülte Yönetim Kurulu Üyesi, Van Yüzüncü Yil University, Fen Fakültesi, 2019 - 2022  
Fakülte Kurulu Üyesi, Van Yüzüncü Yil University, Fen Fakültesi, 2017 - 2022  
Fakülte Yönetim Kurulu Üyesi, Van Yüzüncü Yil University, Fen Fakültesi, 2016 - 2022  
Fakülte Kurulu Üyesi, Van Yüzüncü Yil University, Fen Fakültesi, 2015 - 2022  
Vice Dean, Van Yüzüncü Yil University, Fen Fakültesi, 2015 - 2021

## Advising Theses

Ağırtas M. S., Yeni Ftalosiyenin Komplekslerinin Sentezi ve Boyaya Duyarlı Güneş Pilleri İçin Uygunluğunun İncelenmesi, Doctorate, D.GÜNGÖRDÜ(Student), 2020  
Ağırtas M. S., Potasyum bor hidrür(KBH<sub>4</sub>)hidrolizinin çeşitli katalizörler varlığında farklı parametrelere bağlı olarak incelenmesi, Doctorate, M.Salih(Student), 2019  
Ağırtas M. S., Fenoksi 3-metoksibenzoik asit substituentli ftalosiyeninlerin sentezi ve bazı özelliklerinin araştırılması, Postgraduate, Z.Ballı(Student), 2017  
Ağırtas M. S., Para ve benzeri değerli kağıtların boyanması için tasarlanan yeni ftalosiyenin bileşiklerinin sentezi, Doctorate, B.Cabir(Student), 2017  
Ağırtas M. S., 5-Metil-[1,2,4]triazolo[1,5-A]pirimidin-7-oksi substituentli ftalosiyeninlerin sentezi ve bazı özelliklerinin araştırılması, Postgraduate, M.Yusuf(Student), 2017  
Ağırtas M. S., 4-(4-(2-Fenilpropan-2-il)fenoksi)substituentli ftalosiyeninlerin sentezi ve bazı özelliklerinin araştırılması, Postgraduate, C.Durmuş(Student), 2017  
Ağırtas M. S., SYNTHESIS AND INVESTIGATION OF SOME PROPERTIES OF OXY 2.2 DIPHENYLACETIC ACID SUBSTITUTED PHTHALOCYANINES, Postgraduate, S.Mubarak(Student), 2016  
Ağırtas M. S., Metil 2-oksi-2,2-difenilasetat substituentli ftalosiyeninlerin sentezi ve bazı özelliklerinin araştırılması, Postgraduate, C.Karataş(Student), 2015  
Ağırtas M. S., Yeni işlevsel fonksiyonlu ftalosiyeninlerin sentezi, karakterizasyonu ve bazı özelliklerinin incelenmesi, Doctorate, M.Çelebi(Student), 2014  
Ağırtas M. S., 2-izopropil-6-metilpirimidin-4-iloksi substituentli ftalosiyeninlerin sentezi ve karakterizasyonu, Postgraduate, E.Dede(Student), 2014  
Ağırtas M. S., 4-(1-(4-hidroksifenil)-1-feniletıl)fenoksi substitue ftalosiyenin komplekslerinin sentezi, Postgraduate, M.Güven(Student), 2013  
Ağırtas M. S., Yeni 4-(2-fenoksi-1,3-diokso-2,3-dihidro-1H-inden-2-iloksi)ftalonitril substitüentli metalli ftalosiyeninlerin sentezi ve karakterizasyonu, Postgraduate, İ.Gümüş(Student), 2011  
Ağırtas M. S., Tetra 5-metil-2-(2-fenilpropan-2-il)sikloheksiloksi substituentli metalli ftalosiyeninlerin sentezi ve karakterizasyonu, Postgraduate, B.Savaş(Student), 2009  
Ağırtas M. S., Benzo[d] tiyazol-2-iltiyo substituentli ftalosiyenin bileşiklerinin sentezi, Postgraduate, Ü.Yoldıko(Student), 2007  
Ağırtas M. S., Benzo[d] [1,3]dioxol-5-ilmetoksi ve 2-metilquinolin-8-iloksi substituentli ftalosiyeninlerin sentezi, Postgraduate, A.Yılan(Student), 2005  
Ağırtas M. S., 8-Kinolinoksi substituentli simetrik ve asimetrik metalli ftalosiyeninlerin sentezi, Postgraduate, E.Çelenk(Student), 2004  
Ağırtas M. S., Dietoksikarbonilmetil ve 2-dimetilaminoetilsulfanil substituentlerini içeren metalli ftalosiyeninlerin sentezi, Postgraduate, S.Özkaya(Student), 2004

## Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Doçentlik Kadro , Siirt Üniversitesi, December, 2019  
Appointment to Academic Staff-Assistant Professorship, Doçent Atama, Siirt Üniversitesi, January, 2019

Associate Professor Exam, ÜAK, Ankara Üniversitesi, October, 2017

Appointment to Academic Staff-Assistant Professorship, Profesör Ataması, Van YYÜ, August, 2017

Associate Professor Exam, ÜAK, Ankara Üniversitesi, March, 2017

Associate Professor Exam, ÜAK, Ege Üniversitesi, March, 2017

Appointment to Academic Staff-Assistant Professorship, Doçent Atama, Van YYÜ, August, 2016

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

- I. **Synthesis of zinc phthalocyanine complex containing tetra propanoic acid groups: Electronic properties and inhibitory effects on some metabolic enzymes**  
Güngördü Solğun D., Sadeghian N., Taslimi P., Taskin-Tok T., Ağırtaş M. S.  
Journal of Molecular Structure, vol.1306, 2024 (SCI-Expanded)
- II. **Synthesis and biological properties of benzyl 2-(oxy)benzoate-substituted silicon phthalocyanine**  
Solğun D., Özdemir S., Ağırtaş M. S., Tollu G.  
Journal of Inclusion Phenomena and Macrocyclic Chemistry, vol.104, no.3-4, pp.137-148, 2024 (SCI-Expanded)
- III. **Synthesis of (2-(4-methylthiazol-5-yl) ethoxy)-substituted silicon phthalocyanine and novel green silver nanoparticles: DSSC targets**  
Ağırtaş M. S., Ödemiş Ö., Özkartal A.  
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.46, no.1, pp.3177-3193, 2024 (SCI-Expanded)
- IV. **Several biological properties and synthesis of 2-(4-methylthiazol-5-yl) ethoxy substitute zinc phthalocyanine**  
Solğun D., Özdemir S., Dünder A., Ağırtaş M. S.  
Applied Organometallic Chemistry, vol.38, no.1, 2024 (SCI-Expanded)
- V. **Effect of silver nanoparticles prepared by green chemistry on the photovoltaic properties of zinc phthalocyanine**  
Ödemiş Ö., Ağırtaş M. S., Güngördü Solğun D., Özkartal A.  
Chemical Papers, 2024 (SCI-Expanded)
- VI. **Hydrogen production performance and kinetic behavior from sodium borohydride hydrolysis with TiO<sub>2</sub>-supported Co-Mo-B catalyst**  
Keskin M. S., Ağırtaş M. S.  
Ionics, vol.29, no.9, pp.3713-3721, 2023 (SCI-Expanded)
- VII. **Synthesis of novel an axially substituted silicon phthalocyanine and determination of its selectivity for Fe 3+**  
Güngördü Solğun D., Ağırtaş M. S.  
Journal of Molecular Structure, vol.1286, 2023 (SCI-Expanded)
- VIII. **Synthesis and Sensor Properties of Silicon Phthalocyanine Axially Substituted with Bis-(Prop-2-Ynyloxy) Groups and Polymeric Phthalocyanines Bearing PEG Substituent by "Click" Chemistry**  
Ağırtaş M. S., Güngördü Solğun D., Savas B., ÖZTÜRK T.  
POLYCYCLIC AROMATIC COMPOUNDS, vol.43, no.4, pp.3278-3290, 2023 (SCI-Expanded)
- IX. **Synthesis of silver nanoparticles formed by Chaerophyllum macrospermum and Eremurus spectabilis biomaterial and investigation of photovoltaic parameters by adding silicon phthalocyanine**  
Ağırtaş M. S., Ödemiş Ö., Solğun D., Tanrıverdi A. A., Özkartal A.  
Journal of Coordination Chemistry, vol.76, no.11-12, pp.1471-1484, 2023 (SCI-Expanded)
- X. **Synthesis of phthalocyanine complexes carrying caffeic acid groups: increasing photovoltaic performance by doping silver nanoparticles**  
Güngördü Solğun D., Özkartal A., Ağırtaş M. S.  
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.45, no.1, pp.2240-2252, 2023 (SCI-Expanded)

- XI. **Synthesis of axially silicon phthalocyanine substituted with bis- (3,4-dimethoxyphenethoxy) groups, DFT and molecular docking studies**  
Güngördü Solğun D., Tanriverdi A. A., Yıldiko Ü., Ağırtaş M. S.  
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.102, no.11-12, pp.851-860, 2022 (SCI-Expanded)
- XII. **Synthesis, DFT Calculations, Photophysical, Photochemical Properties of Peripherally Metallophthalocyanines Bearing (2-(Benzo[d] [1,3] Dioxol-5-Ylmethoxy) Phenoxy) Substituents**  
Solğun D., Yıldiko Ü., Ağırtaş M. S.  
Polycyclic Aromatic Compounds, vol.42, no.9, pp.6444-6462, 2022 (SCI-Expanded)
- XIII. **Synthesis of Axial Bis(benzo[d][1,3]dioxol-5-ylmethoxy)phthalocyaninato Silicon (IV): Photophysical and Photochemical Properties and Docking Studies on DNA-SiPc Interactions**  
Solgun D., Yildiko U., Agirtas M. S.  
CHEMISTRYSELECT, vol.7, no.33, 2022 (SCI-Expanded)
- XIV. **Metal contained Phthalocyanines with 3,4-Dimethoxyphenethoxy substituents: their anticancer, antibacterial activities and their inhibitory effects on some metabolic enzymes with molecular docking studies**  
Taslimi P., TÜRKAN F., Gungordu Solgun D., Aras A., ERDEN Y., ÇELEBİOĞLU H. U., TÜZÜN B., Ağırtaş M. S., Gunay S., GÜLÇİN İ.  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.40, no.7, pp.2991-3002, 2022 (SCI-Expanded)
- XV. **Characterization of silver nanoparticles fabricated by green synthesis using Urtica dioica and Lavandula angustifolia and investigation of antimicrobial and antioxidant**  
Odemis O., ÖZDEMİR S., GONCA S., Ağırtaş M. S.  
INORGANIC AND NANO-METAL CHEMISTRY, 2022 (SCI-Expanded)
- XVI. **High hydrogen production rate from potassium borohydride hydrolysis with an efficient catalyst: CNT@Ru(0)**  
Keskin M. S., Ağırtaş M. S., Baytar O., Izgi M. S., Şahin Ö., Horoz S.  
DESALINATION AND WATER TREATMENT, vol.250, pp.189-196, 2022 (SCI-Expanded)
- XVII. **Synthesis, photophysical, photochemical, and DFT properties of a zinc phthalocyanine with 2-(2-isopropyl-5-methylphenoxy)phenoxy peripheral groups**  
Güngördü Solğun D., YILDIKO Ü., Ağırtaş M. S.  
JOURNAL OF COORDINATION CHEMISTRY, vol.75, no.7-8, pp.1082-1096, 2022 (SCI-Expanded)
- XVIII. **Antioxidant, Antimicrobial, DNA Cleavage, Fluorescence Properties and Synthesis of 4-(3,4,5-Trimethoxybenzyloxy) Phenoxy) Substituted Zinc Phthalocyanine**  
Ağırtaş M. S., Cabir B., Gonca S., ÖZDEMİR S.  
POLYCYCLIC AROMATIC COMPOUNDS, vol.42, no.8, pp.5029-5043, 2022 (SCI-Expanded)
- XIX. **Co and Zn Metal Phthalocyanines with Bulky Substituents: Anticancer, Antibacterial Activities and Their Inhibitory Effects on Some Metabolic Enzymes with Molecular Docking Studies**  
TÜRKAN F., Taslimi P., Cabir B., Ağırtaş M. S., ERDEN Y., ÇELEBİOĞLU H. U., TÜZÜN B., BURSAL E., GÜLÇİN İ.  
POLYCYCLIC AROMATIC COMPOUNDS, vol.42, no.7, pp.4475-4486, 2022 (SCI-Expanded)
- XX. **The study on biological activities of silver nanoparticles produced via green synthesis method using Salvia officinalis and Thymus vulgaris**  
Odemis O., ÖZDEMİR S., GONCA S., Arslantas A., Ağırtaş M. S.  
TURKISH JOURNAL OF CHEMISTRY, vol.46, no.5, pp.1417-1431, 2022 (SCI-Expanded)
- XXI. **Synthesis, theoretical DFT analysis, photophysical and photochemical properties of a new zinc phthalocyanine compound**  
Ağırtaş M. S., Güngördü Solğun D., YILDIKO Ü.  
INORGANIC AND NANO-METAL CHEMISTRY, 2022 (SCI-Expanded)
- XXII. **Photovoltaic performance properties, DFT studies, and synthesis of (E)-3-(diphenxy) acrylic acid substituted phthalocyanine complexes**  
Güngördü Solğun D., Yıldiko Ü., Özkartal A., Ağırtaş M. S.  
Chemical Papers, vol.75, pp.6285-6295, 2021 (SCI-Expanded)

- XXIII. **Synthesis, antioxidant, DNA cleavage and antimicrobial properties of phthalocyanine complexes bearing the poly-hydroxyl groups**  
Ağırtas M. S., Cabir B., Yildiko Ü., Özdemir S., Gonca S.  
CHEMICAL PAPERS, vol.75, no.4, pp.1749-1760, 2021 (SCI-Expanded)
- XXIV. **Determination of anticancer properties and inhibitory effects of some metabolic enzymes including acetylcholinesterase, butyrylcholinesterase, alpha-glycosidase of some compounds with molecular docking study**  
TÜRKAN F., Taslimi P., Abdalrazaq S. M., Aras A., ERDEN Y., ÇELEBİOĞLU H. U., TÜZÜN B., Ağırtas M. S., GÜLÇİN İ.  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.39, no.10, pp.3693-3702, 2021 (SCI-Expanded)
- XXV. **Computational DFT calculations, photovoltaic properties and synthesis of (2R, 3S)-2, 3, 4-trihydroxybutoxy substituted phthalocyanines**  
Cabir B., YILDIKO Ü., Ağırtas M. S., HOROZ S.  
INORGANIC AND NANO-METAL CHEMISTRY, vol.50, no.9, pp.816-827, 2020 (SCI-Expanded)
- XXVI. **DFT analysis and electronic properties, and synthesis of tetra (9-phenyl-9H-xanthen-9-yl) oxy peripheral-substituted zinc phthalocyanine**  
Solgun D., Keskin M. S., YILDIKO Ü., Ağırtas M. S.  
CHEMICAL PAPERS, vol.74, no.8, pp.2389-2401, 2020 (SCI-Expanded)
- XXVII. **AN EFFICIENT TiO<sub>2</sub>-SUPPORTED RUTHENIUM (Ru/TiO<sub>2</sub>) CATALYST FOR ELECTROCHEMICAL HYDROGEN GENERATION FROM AQUEOUS POTASSIUM BOROHYDRIDE**  
Keskin M. S., Agirtas M. S., Sahin O., Horoz S.  
DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES, vol.15, no.2, pp.281-287, 2020 (SCI-Expanded)
- XXVIII. **Design of novel substituted phthalocyanines; synthesis and fluorescence, DFT, photovoltaic properties**  
Ağırtas M. S., Güngördü Solgun D., Yildiko Ü., Özkartal A.  
TURKISH JOURNAL OF CHEMISTRY, vol.44, no.6, pp.1574-1596, 2020 (SCI-Expanded)
- XXIX. **Fluorescence properties in different solvents and synthesis of axially substituted silicon phthalocyanine bearing bis-4-tritylphenoxy units**  
Ağırtas M. S.  
HETEROCYCLIC COMMUNICATIONS, vol.26, pp.130-136, 2020 (SCI-Expanded)
- XXX. **Synthesis, DFT analysis, and electronic properties of new phthalocyanines bearing ETAEO substituents on peripheral position**  
Cabir B., YILDIKO Ü., Ağırtas M. S.  
JOURNAL OF COORDINATION CHEMISTRY, vol.72, no.17, pp.2997-3011, 2019 (SCI-Expanded)
- XXXI. **Investigation of DNA Binding Activities of Peripherally 2,10,16,24-Tetrakis Dimethyl 5-(Phenoxy)-Isophthalate-Substituted Ni(II) Phthalocyanine Complex**  
ARSLANTAŞ A., Ağırtas M. S.  
CHEMISTRYSELECT, vol.3, no.11, pp.3155-3160, 2018 (SCI-Expanded)
- XXXII. **Synthesis of Tetra 3,4-dimethoxyphenethoxy Peripheral Substituted Metallophthalocyanines and Investigation of Some Properties**  
Agirtas M. S., SOLGUN D., Ozdemir S., Izgi M. S.  
CHEMISTRYSELECT, vol.3, no.12, pp.3523-3528, 2018 (SCI-Expanded)
- XXXIII. **Studies on DNA Interaction with 2(3),9(10), 16(17), 23(24)-Tetrakis 2((4-Phenoxyphenyl)Diazeylbenzoic acid)phthalocyaninato Zinc (II) Compound**  
ARSLANTAŞ A., Ağırtas M. S.  
CHEMISTRYSELECT, vol.3, no.6, pp.1755-1760, 2018 (SCI-Expanded)
- XXXIV. **The interaction between a zinc(II) phthalocyanine compound bearing octakis phenoxyacetamide substituents and calf thymus DNA**  
ARSLANTAŞ A., Ağırtas M. S.  
TURKISH JOURNAL OF CHEMISTRY, vol.42, no.5, pp.1310-1320, 2018 (SCI-Expanded)
- XXXV. **Synthesis of novel tetra (4-tritylphenoxy) substituted metallophthalocyanines and investigation of their aggregation, photovoltaic, solar cell properties**

- SOLGUN D., Horoz S., Ağırtaş M. S.  
INORGANIC AND NANO-METAL CHEMISTRY, vol.48, no.10, pp.508-514, 2018 (SCI-Expanded)
- XXXVI. **Synthesis and antioxidant, aggregation, and electronic properties of 6-tert-butyl-1,4-benzodioxine substituted phthalocyanines**  
Ağırtaş M. S., Cabir B., Gümüş S., Ozdemir S., Dundar A.  
TURKISH JOURNAL OF CHEMISTRY, vol.42, no.1, pp.100-111, 2018 (SCI-Expanded)
- XXXVII. **Investigation of DNA-Binding Activities of Zinc(II) and Cobalt(II) Phthalocyanine Compounds with 3,4,5-Trimethoxybenzyloxy Substituents**  
ARSLANTAŞ A., Ağırtaş M. S.  
CHEMISTRYSELECT, vol.2, no.35, pp.11659-11665, 2017 (SCI-Expanded)
- XXXVIII. **Synthesis, Aggregation, Antioxidant and DNA-Binding Properties of Metallophthalocyanines Bearing 5-Tert-butyl-2-hydroxyphenoxy Groups**  
Ağırtaş M. S., Cabir B., Ozdemir S., Okumus V., ARSLANTAŞ A.  
CHEMISTRYSELECT, vol.2, no.34, pp.11352-11357, 2017 (SCI-Expanded)
- XXXIX. **Methylene blue photocatalytic degradation under visible light irradiation on copper phthalocyanine-sensitized TiO<sub>2</sub> nanopowders**  
Cabir B., YURDERI M., CANER N., Ağırtaş M. S., Zahmakran M., Kaya M.  
MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, vol.224, pp.9-17, 2017 (SCI-Expanded)
- XL. **A Comparative Study on DNA Binding Properties of 2,10,16,24-Tetrakis 4-(4-hydroxyphenyl)-1-phenylethyl phenoxy)-Substituted Co(II) and Mg(II) Phthalocyanine Compounds**  
ARSLANTAŞ A., Ağırtaş M. S.  
CHEMISTRYSELECT, vol.2, no.27, pp.8661-8665, 2017 (SCI-Expanded)
- XLI. **Synthesis of some metallophthalocyanines bearing 9-phenyl-9H-fluoren-9-yl) oxy functional groups and investigation of their photophysical properties**  
Cabir B., Ağırtaş M. S., Duygulu E., YÜKSEL F.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1142, pp.194-199, 2017 (SCI-Expanded)
- XLII. **A new method for the reaction of cross-coupling: preparation of 5,5'-bi(1,10-phenanthroline)**  
Ağırtaş M. S.  
HETEROCYCLIC COMMUNICATIONS, vol.23, no.1, pp.7-8, 2017 (SCI-Expanded)
- XLIII. **DNA cleavage properties and synthesis of metallophthalocyanines with 5-methyl-[1,2,4] triazolo [1, 5-a] pyrimidin-7-oxy substituents**  
Ağırtaş M. S., Ondes M. Y., Ozdemir S., OKUMUŞ V.  
INORGANIC AND NANO-METAL CHEMISTRY, vol.47, no.7, pp.1097-1102, 2017 (SCI-Expanded)
- XLIV. **Synthesis of metallophthalocyanines with four oxy-2,2-diphenylacetic acid substituents and their structural and electronic properties**  
Abdalrazaq S. M., Cabir B., Gümüş S., Ağırtaş M. S.  
HETEROCYCLIC COMMUNICATIONS, vol.22, no.5, pp.275-280, 2016 (SCI-Expanded)
- XLV. **SYNTHESIS, CHARACTERIZATION, AGGREGATION BEHAVIOR, ANTIOXIDANT ACTIVITY, AND ANTIBACTERIAL ACTIVITY OF METALLOPHthalOCYANINES CARRYING FOUR PHthalONITRILES GROUP**  
GUVEN M. E., Ağırtaş M. S., Ozdemir S., Dundar A.  
REVUE ROUMAINE DE CHIMIE, vol.61, no.3, pp.205-212, 2016 (SCI-Expanded)
- XLVI. **Different peripheral substituted phthalocyanines: Synthesis, characterization, aggregation behavior, antioxidant and antibacterial activity**  
Çelebi M., Ağırtaş M. S., Dundar A.  
JOURNAL OF STRUCTURAL CHEMISTRY, vol.56, no.8, pp.1638-1645, 2015 (SCI-Expanded)
- XLVII. **Synthesis, Aggregation Behavior, and Electronic Properties of some Metallophthalocyanines with 2-Isopropyl-5-methylphenoxy Substituents**  
Ağırtaş M. S., KARATAS C., Gümüş S.  
ZEITSCHRIFT FÜR ANORGANISCHE UND ALLGEMEINE CHEMIE, vol.641, no.7, pp.1334-1339, 2015 (SCI-

Expanded)

- XLVIII. **Synthesis of Some Novel Phthalocyanines with Methyl 2-(oxy)-2,2-diphenylacetate Substituents, Evaluation of Their Antioxidant- Antibacterial Activities and Electronic Properties**  
Ağırtas M. S., KARATAS C., Gümüş S., Okumus V.  
ZEITSCHRIFT FÜR ANORGANISCHE UND ALLGEMEINE CHEMIE, vol.641, no.2, pp.442-447, 2015 (SCI-Expanded)
- XLIX. **Synthesis of some metallophthalocyanines with dimethyl 5-(phenoxy)-isophthalate substituents and evaluation of their antioxidant-antibacterial activities**  
Ağırtas M. S., KARATAS C., Ozdemir S.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.135, pp.20-24, 2015 (SCI-Expanded)
- L. **Novel Cobalt(II), Zinc(II) Phthalocyanines Bearing Discrete Substituents: Synthesis, Characterization, Aggregation Behavior, Electrochemical Properties, and Antioxidant Activity**  
Ağırtas M. S., Cabir B., Dundar A., Okumus V., Ceyhan G.  
SYNTHESIS AND REACTIVITY IN INORGANIC METAL-ORGANIC AND NANO-METAL CHEMISTRY, vol.44, no.8, pp.1092-1098, 2014 (SCI-Expanded)
- LI. **Metallo phthalocyanines bearing (2-((2-hydroxyethyl) (p-tolyl)amino)ethoxy) and (2-((2-phenoxyethyl) (p-tolyl)amino)ethoxy)phthalonitrile substituents: Synthesis, characterization, aggregation behavior, antioxidant and antibacterial activity**  
Çelebi M., Ağırtas M. S., Okumus V., Ozdemir S.  
SYNTHETIC METALS, vol.195, pp.154-161, 2014 (SCI-Expanded)
- LII. **Metallo and metal free phthalocyanines bearing (4-(1(4-phenoxyphenyl)-1-phenylethyl)phenol substituents: Synthesis, characterization, aggregation behavior, electronic, antioxidant and antibacterial properties**  
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- XLV. **4-(2-Fenoksi-1,3-diokso-2,3-dihidro-1H-inden-2-iloksi)ftalonitril substitüentli ftalosiyeninlerin**

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- L. **2-Metilquinolin-8-iloksi substituentli ftalosiyenin sentezi ve karakterizasyonu**

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- LII. **1H-Benzimidazol-2-ilsulfanil ve 2-(1H-benzo[d]imidazol-2-iltiyoetoksi substituentli ftalosiyenin sentezi**

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- LIII. **Yeni bis(2-dimetilaminoetilsulfanil)ve bis (dietoksikarbonilmetil) substitüe ftalosiyenin sentezi ve bazı özelliklerinin incelenmesi**

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- LVI. **Supramolecular assemblies porphyrins-phthalocyanines for the photodynamic therapy of cancer**

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- Ağırtaş M. S., Project Supported by Higher Education Institutions, Eksenel 4-Tritylphenoxy Disubstituentli Ftalosiyanın Sentezi, 2019 - 2020
- Ağırtaş M. S., GÜNGÖRDÜ SOLĞUN D., Project Supported by Higher Education Institutions, Yeni Ftalosiyanın Komplekslerinin Sentezi Ve Boyaya Duyarlı Güneş Pilleri İçin Uygunluğunun İncelenmesi, 2019 - 2020
- Ağırtaş M. S., Project Supported by Higher Education Institutions, Simetrik Metaloftalosiyanın Çözücüsüz Sentezi, 2018 - 2019
- Ağırtaş M. S., ŞAHİN Ö., KESKİN M. S., Project Supported by Higher Education Institutions, Potasyum bor hidrürün KBH<sub>4</sub> hidrolizinin çeşitli katalizörler varlığında farklı parametrelere bağlı olarak incelenmesi, 2017 - 2019
- Ağırtaş M. S., Project Supported by Higher Education Institutions, Sofistike Bileşiklerin Kolay Sentezi, 2017 - 2017
- Ağırtaş M. S., Project Supported by Higher Education Institutions, Lisans üstü çalışmalara malzeme katkısı, 2016 - 2017
- Ağırtaş M. S., DURMUŞ C., Project Supported by Higher Education Institutions, 4-(4-(2-FENİLPROPAN2İL FENOKSİ) SUBSTİTUENTLİ FTALOSİYANİNLERİN SENTEZİ VE BAZI ÖZELLİKLERİNİN ARAŞTIRILMASI, 2016 - 2017
- Ağırtaş M. S., Cabir B., Project Supported by Higher Education Institutions, Para ve Benzeri Değerli Kağıtların Boyanması İçin Tasarlanan Yeni Ftalosiyanın Bileşiklerin Sentezi, 2015 - 2017
- Ağırtaş M. S., Project Supported by Higher Education Institutions, Yeni İşlevsel Fonksiyonlu Ftalosiyanın Sentezi, Karakterizasyonu ve Bazı Özelliklerinin İncelenmesi, 2013 - 2015
- Ağırtaş M. S., Project Supported by Higher Education Institutions, Yeni Suda Çözünür Metalli Ftalosiyanın Sentezi ve Karakterizasyonu, 2011 - 2013
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## Activities in Scientific Journals

- International Journal of Chemistry and Technology, Committee Member, 2017 - Continues
- Karadeniz Chemical Science and Technology, Advisory Committee Member, 2017 - Continues

## Scientific Refereeing

- Journal of Photonics for Energy, SCI Journal, December 2019
- Journal of Food Biochemistry, SCI Journal, August 2019
- Journal of Coordination Chemistry, SCI Journal, July 2019
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