

## Assoc. Prof. MERT OLGUN KARATAŞ

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: ABG-7848-2020

Yoksis Researcher ID: 120424

### Education Information

Doctorate, Inonu University, Fen Bilimleri Enstitüsü, Kimya, Turkey 2011 - 2017

Postgraduate, Balıkesir University, Institute Of Science, Kimya, Turkey 2008 - 2011

Undergraduate, Balıkesir University, Faculty Of Arts And Sciences, Kimya, Turkey 2004 - 2008

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, YENİ KUMARİN BİLEŞİKLERİNİN SENTEZİ, KARAKTERİZASYONU VE ÖZELLİKLERİNİN İNCELENMESİ, Inonu University, Fen Bilimleri Enstitüsü, Kimya, 2017

Postgraduate, HİDROKSİ KUMARİN KUATERNER AMONYUM TUZLARININ SENTEZİ VE KARAKTERİZASYONU, Balıkesir University, Fen Bilimleri Enstitüsü, Kimya, 2011

### Research Areas

Chemistry, Organic Chemistry, Chemistry of Heterocyclic Compounds, Organic Spectroscopy, Organometallics, Natural Sciences

### Academic Titles / Tasks

Research Assistant PhD, Inonu University, Fen Bilimleri Enstitüsü, Fen Bilimleri Enstitüsü, 2009 - Continues

### Courses

Genel Kimya, Associate Degree, 2017 - 2018

Genel Kimya, Associate Degree, 2017-2018

## Advising Theses

Alıcı B., KARATAŞ M. O., SYNTHESIS AND EVALUATION OF THE PROPERTIES OF COUMARIN-BEARING PALLADIUM-N-HETEROCYCLIC CARBENE COMPLEXES, Postgraduate, ÇAKPUNAR(Student), 2021

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

- I. **Cytotoxic potential of silver, palladium, rhodium, ruthenium, and iridium complexes of a cycloheptyl-substituted lipophilic N-heterocyclic carbene ligand**  
Karataş M. O., Şekerci G., Tekin S., Sandal S., Küçükbaş H.  
JOURNAL OF COORDINATION CHEMISTRY, vol.76, pp.1-11, 2023 (SCI-Expanded)
- II. **Synthesis, experimental and theoretical characterization of an unsymmetrical bis-benzimidazolium nitrate salt**  
ÖZDEMİR N., KARATAŞ M. O., KÜÇÜKBAY H.  
MOLECULAR CRYSTALS AND LIQUID CRYSTALS, vol.758, no.1, pp.25-35, 2023 (SCI-Expanded)
- III. **Silyl-functionalised silver rhodium and iridium N-heterocyclic carbene complexes with promising cytotoxicity and antimicrobial potential**  
KARATAŞ M. O., Keskin T., ÖZDEMİR N., KÜÇÜKBAY H., TEKİN S., Mansur A., GÜNAL S., SANDAL S.  
INORGANIC CHEMISTRY COMMUNICATIONS, vol.146, 2022 (SCI-Expanded)
- IV. **Preparation of Mixed Bis-N-Heterocyclic Carbene Rhodium(I) Complexes**  
Azpiroz R., Olgun Karatas M. O., Passarelli V., ÖZDEMİR İ., Perez-Torrente J. J., Castarlenas R.  
MOLECULES, vol.27, no.20, 2022 (SCI-Expanded)
- V. **Synthesis, crystal structures and catalytic activities of palladium complexes with coumarin-functionalised N-heterocyclic carbene ligands**  
Akpunar C., ÖZDEMİR N., KARATAŞ M. O., ALICI B., ÖZDEMİR İ.  
INORGANIC CHEMISTRY COMMUNICATIONS, vol.131, 2021 (SCI-Expanded)
- VI. **Water-soluble silver(I) complexes with N-donor benzimidazole ligands containing an imidazolium core: stability and preliminary biological studies**  
KARATAŞ M. O., ÖZDEMİR N., Sariman M., GÜNAL S., ULUKAYA E., ÖZDEMİR İ.  
DALTON TRANSACTIONS, vol.50, no.33, pp.11596-11603, 2021 (SCI-Expanded)
- VII. **Iridium(i) complexes bearing hemilabile coumarin-functionalised N-heterocyclic carbene ligands with application as alkyne hydrosilylation catalysts**  
Karata M. O., ALICI B., Passarelli V., ÖZDEMİR İ., Perez-Torrente J. J., Castarlenas R.  
DALTON TRANSACTIONS, vol.50, no.32, pp.11206-11215, 2021 (SCI-Expanded)
- VIII. **Efficiency enhancement with chloride to iodide ion exchange of benzimidazolium salt as a redox mediator**  
DAYAN S., KARATAŞ M. O., ALICI B., ÖZPOZAN N.  
TURKISH JOURNAL OF CHEMISTRY, vol.45, no.2, pp.333-343, 2021 (SCI-Expanded)
- IX. **Water Soluble Coumarin Quaternary Ammonium Chlorides: Synthesis and Biological Evaluation**  
Karataş M. O., Noma S., Gürses C., Balcıoğlu S., Ateş B., Alıcı B., Çakır Ü.  
CHEMISTRY & BIODIVERSITY, vol.17, no.9, 2020 (SCI-Expanded)
- X. **Comparison of the catalytic performances of bridged bi-metallic and non-bridged mono-metallic PEPSI type palladium N-heterocyclic carbene complexes**  
KARATAŞ M. O., ALICI B.  
INORGANIC CHEMISTRY COMMUNICATIONS, vol.116, 2020 (SCI-Expanded)
- XI. **Catechol-bearing imidazolium and benzimidazolium chlorides as promising antimicrobial agents**  
Karatas M. O., GÜNAL S., Mansur A., ALICI B., ÖZDEMİR İ.  
ARCHIV DER PHARMAZIE, vol.353, no.6, 2020 (SCI-Expanded)
- XII. **Therapeutic potential of coumarin bearing metal complexes: Where are we headed?**  
Balcıoğlu S., KARATAŞ M. O., ATEŞ B., ALICI B., ÖZDEMİR İ.  
BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, vol.30, no.2, 2020 (SCI-Expanded)

- XIII. **N-heterocyclic carbene palladium complexes with different N-coordinated ligands: Comparison of their catalytic activities in Suzuki-Miyaura and Mizoroki-Heck reactions**  
KARATAŞ M. O., ÖZDEMİR N., ALICI B., ÖZDEMİR İ.  
POLYHEDRON, vol.176, 2020 (SCI-Expanded)
- XIV. **Cycloheptyl substituted N-heterocyclic carbene PEPPSI-type palladium complexes with different N-coordinated ligands: Involvement in Suzuki-Miyaura reaction**  
KARATAŞ M. O.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.899, 2019 (SCI-Expanded)
- XV. **Inhibition of paraoxonase 1 by coumarin-substituted N-heterocyclic carbene silver(I), ruthenium(II) and palladium(II) complexes**  
KARATAŞ M. O., CALGIN G., ALICI B., GÖKÇE B., Gencer N., Tok T. T., Arslan O., Kilic-Cikla I., Ozdemir N.  
APPLIED ORGANOMETALLIC CHEMISTRY, vol.33, no.10, 2019 (SCI-Expanded)
- XVI. **Cytotoxic effects of coumarin substituted benzimidazolium salts against human prostate and ovarian cancer cells**  
KARATAŞ M. O., TEKİN S., ALICI B., SANDAL S.  
JOURNAL OF CHEMICAL SCIENCES, vol.131, no.8, 2019 (SCI-Expanded)
- XVII. **Palladium(II) and ruthenium(II) complexes of benzotriazole functionalized N-heterocyclic carbenes: Cytotoxicity, antimicrobial, and DNA interaction studies**  
ONAR G., GÜRSER C., KARATAŞ M. O., BALCIOĞLU S., AKBAY N., Ozdemir N., ATEŞ B., ALICI B.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.886, pp.48-56, 2019 (SCI-Expanded)
- XVIII. **Microwave-assisted synthesis of 1-substituted-1H-benzimidazolium salts: Non-competitive inhibition of human carbonic anhydrase I and II**  
KARLIK O., Gencer N., KARATAŞ M. O., Ergun A., Cikrikci K., Arslan O., ALICI B., Kilic-Cikla I., Ozdemir N.  
ARCHIV DER PHARMAZIE, vol.352, no.4, 2019 (SCI-Expanded)
- XIX. **Benzotriazole functionalized N-heterocyclic carbene-silver(I) complexes: Synthesis, cytotoxicity, antimicrobial, DNA binding, and molecular docking studies**  
ONAR G., KARATAŞ M. O., BALCIOĞLU S., Tok T. T., GÜRSER C., Kilic-Cikla I., Ozdemir N., ATEŞ B., ALICI B.  
POLYHEDRON, vol.153, pp.31-40, 2018 (SCI-Expanded)
- XX. **Synthesis, structural characterization and cytotoxicity studies of T-shaped silver(I) complexes derived from 1-benzyl-3H-benzimidazolium p-toluenesulfonates**  
Karlik O., Balcioglu S., KARATAŞ M. O., ATEŞ B., ALICI B., ÖZDEMİR N.  
POLYHEDRON, vol.142, pp.63-70, 2018 (SCI-Expanded)
- XXI. **Pentacoordinated Rhodium(I) Complexes Supported by Coumarin-Functionalized N-Heterocyclic Carbene Ligands**  
Karatas M. O., DI GIUSEPPE A., PASSARELLI V., ALICI B., PEREZ-TORRENTE J. J., ORO L. A., ÖZDEMİR İ., CASTARLENAS R.  
ORGANOMETALLICS, vol.37, no.2, pp.191-202, 2018 (SCI-Expanded)
- XXII. **Synthesis and antimicrobial properties of cycloheptyl substituted benzimidazolium salts and their silver(I) carbene complexes**  
KARATAŞ M. O., GÜNAL S., MANSUR A., ALICI B., Cetinkaya E.  
HETEROCYCLIC COMMUNICATIONS, vol.22, no.6, pp.357-361, 2016 (SCI-Expanded)
- XXIII. **Functionalized imidazolium and benzimidazolium salts as paraoxonase 1 inhibitors: Synthesis, characterization and molecular docking studies**  
KARATAŞ M. O., USLU H., ALICI B., GÖKÇE B., Gencer N., Arslan O., Arslan N. B., Ozdemir N.  
BIOORGANIC & MEDICINAL CHEMISTRY, vol.24, no.6, pp.1392-1401, 2016 (SCI-Expanded)
- XXIV. **Synthesis, characterization and antimicrobial activities of novel silver(I) complexes with coumarin substituted N-heterocyclic carbene ligands**  
KARATAŞ M. O., Olgundeniz B., GÜNAL S., ÖZDEMİR İ., ALICI B., Cetinkaya E.  
BIOORGANIC & MEDICINAL CHEMISTRY, vol.24, no.4, pp.643-650, 2016 (SCI-Expanded)
- XXV. **In vitro inhibition effect of some coumarin compounds on purified human serum paraoxonase 1 (PON1)**

- GÖKÇE B., GENÇER N., ARSLAN O., KARATAŞ M. O., ALICI B.  
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.31, no.4, pp.534-537, 2016 (SCI-Expanded)
- XXVI. **Coumarin or benzoxazinone based novel carbonic anhydrase inhibitors: synthesis, molecular docking and anticonvulsant studies**  
KARATAŞ M. O., USLU H., SARI S., ALAGOZ M. A., KARAKURT A., ALICI B., Bilen C., Yavuz E., Gencer N., Arslan O.  
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.31, no.5, pp.760-772, 2016 (SCI-Expanded)
- XXVII. **Some coumarins and benzoxazinones as potent paraoxonase 1 inhibitors**  
KARATAŞ M. O., USLU H., ALICI B., GÖKÇE B., Gencer N., Arslan O.  
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.31, no.6, pp.1386-1391, 2016 (SCI-Expanded)
- XXVIII. **Synthesis of the Coumarin-Containing Porous Silica as Column Packing Material**  
KAZMAZ E. S., KARATAŞ M. O., KÖYTEPE S., ATEŞ B., ERDOĞAN A., ALICI B., SEÇKİN T.  
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.26, no.1, pp.154-164, 2016 (SCI-Expanded)
- XXIX. **Microwave-Assisted Synthesis of Novel Perimidinium Salts as N-Heterocyclic Carbene Precursors: Involvement in Palladium-Catalyzed Cross-Coupling Reactions**  
Onar G., KARATAŞ M. O., ALICI B., Cetinkaya E.  
CHEMISTRY OF HETEROCYCLIC COMPOUNDS, vol.51, no.6, pp.563-567, 2015 (SCI-Expanded)
- XXX. **Dual effect of coumarin benzimidazolium ionic salt covalently bonded on a silica network**  
GÜLTEK A., Aksut D., SEÇKİN T., BİRHANLI E., KARATAŞ M. O., ALICI B.  
TURKISH JOURNAL OF CHEMISTRY, vol.39, no.1, pp.25-33, 2015 (SCI-Expanded)
- XXXI. **Synthesis, characterization and tyrosinase inhibitory properties of benzimidazole derivatives**  
KARATAŞ M. O., ALICI B., Cetinkaya E., Bilen C., GENÇER N., ARSLAN O.  
RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY, vol.40, no.4, pp.461-466, 2014 (SCI-Expanded)
- XXXII. **New coumarin derivatives as carbonic anhydrase inhibitors**  
Karataş M. O., Alıcı B., Çakır Ü., Cetinkaya E., Demir D., Ergün A., Gençer N., Arslan O.  
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.42, no.3, pp.192-198, 2014 (SCI-Expanded)
- XXXIII. **Synthesis and carbonic anhydrase inhibitory properties of novel coumarin derivatives**  
Karataş M. O., Alıcı B., Çakır Ü., Cetinkaya E., Demir D., Ergün A., Gençer N., Arslan O.  
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, vol.28, no.2, pp.299-304, 2013 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Yeni N-benzilbenzimidazol-gümüş(I) komplekslerinin sentezi, karakterizasyonu, karbonik anhidraz ve polifenol oksidaz enzimleri üzerindeki inhibitör özellikleri**  
ERGÜN A., KARATAŞ M. O.  
İğdir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.10, no.1, pp.320-327, 2020 (Peer-Reviewed Journal)
- II. **Synthesis, characterization, and carbonic anhydrase inhibitory properties of silver(I) complexes of benzimidazole derivatives**  
KARATAŞ M. O., Ergün A.  
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.6, no.2, pp.253-260, 2019 (Scopus)
- III. **Coumarin or benzoxazinone bearing benzimidazolium and (bis)benzimidazolium salts involvement in transfer hydrogenation of acetophenone derivatives and hCA inhibition**  
KARATAŞ M. O., DAYAN S., Nilgün K., Bilen Ç., Yavuz E., GENÇER N., ALICI B., ÖZPOZAN N., ARSLAN O.  
Mediterranean Journal Of Chemistry, vol.4, no.5, pp.252-260, 2015 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Iridium(I) complexes bearing hemilabile coumarin-functionalised N-heterocyclic carbene ligands**

**with application as alkyne hydrosilylation catalysts**

KARATAŞ M. O., ALICI B., Passarelli V., ÖZDEMİR İ., Perez-Torrente J. J., Castarlenas R.

5th International Organic Chemistry Congress, Malatya, Turkey, 14 October 2021, pp.46

- II. **Antrasen grubu içeren Pd-NHC komplekslerinin sentezi ve Suzuki-Miyaura tepkimesinde katalitik özelliklerinin incelenmesi**

KARATAŞ M. O.

2nd International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 28 - 29 June 2019

- III. **KUMARİN GRUBU İÇEREN Pd-NHC KOMPLEKSİNİN SENTEZİ VE SUZUKİ-MİYAURA TEPKİMESİ'NDE KATALİZÖR ÖZELLİKLERİNİN İNCELENMESİ**

KARATAŞ M. O.

VII. Ulusal Anorganik Kimya Kongresi, Çorum, Turkey, 19 - 22 June 2019

- IV. **Polyphenol Oxidase Inhibitory Properties of Some Benzimidazolium Salts**

ERGÜN A., ARSLAN O., GENÇER N., Karlık Ö., KARATAŞ M. O., ALICI B.

1st Eurasia Biochemical Approaches and Technologies Congress, Antalya, Turkey, 27 - 30 October 2018

- V. **LCST BEHAVIOR OF POLY(NIPAM)-IL-PEOX COPOLYMERS**

KIVILCIM F. N., EMRE F. B., KARATAŞ M. O., ALICI B., SEÇKİN T.

The International ISCMP, Ohrid, Macedonia, 25 - 28 August 2017

- VI. **Preparation of Ionic Polymers with Controlled Architecture**

KIVILCIM F. N., GÜLTEK A., KARATAŞ M. O., ALICI B., SEÇKİN T.

The International Joint Science Congress of Materials and Polymers, 25 - 28 August 2017

- VII. **Investigation the Inhibitory Properties of Benzoxazinone-Containing Benzimidazolium and Imidazolium Chlorides on the Activity of Purified Human Paraoxonase 1 (hPON1)**

GÖKÇE B., GENÇER N., ARSLAN O., KARATAŞ M. O., USLU H., ALICI B.

İvek uluslararası 3. ilaç ve eczacılık kongresi, 26 - 29 April 2017

- VIII. **Evaluation, Kinetic and Molecular Docking Studies of Coumarin Based Azolium Chlorides as Potent Paraoxonase 1 Inhibitors**

GÖKÇE B., GENÇER N., ARSLAN O., KARATAŞ M. O., USLU H., ALICI B.

İvek uluslararası 3. ilaç ve eczacılık kongresi, 26 - 29 April 2017

- IX. **Synthesis of Rhodium I Complexes Bearing Coumarin Substituted N Heterocyclic carbene Ligands**

KARATAŞ M. O., Ricardo C., ALICI B., Ve P., Perez Torrente J., ÖZDEMİR İ., LA O.

XXXIV GEQO Congress Organometallic Chemistry Group, Girona, Spain, 7 - 09 September 2016

- X. **Silika Ağı Üzerine Kovalent Bağlı Çift İyonik Etkili Kumarin Benzimidazolyum Tuzu**

AKSÜT D., GÜLTEK A., SEÇKİN T., BİRHANLI E., ALICI B., KARATAŞ M. O.

VI. Ulusal Polimer Bilim ve Teknolojisi Kongresi, Ankara, Turkey, 4 - 07 September 2016, pp.32

- XI. **High Performance Benzimidazolium Iodides Bearing Triazole Group As Solid Electrolyte in Dye-Sensitized Solar Cells**

DAYAN S., KARATAŞ M. O., ÖZPOZAN N., ALICI B.

2nd International Conference on Organic Electronic Material Technologies, Çanakkale, Turkey, 17 - 19 May 2016

- XII. **Bazı kumarin türevlerinin polifenol oksidaz enzimi üzerine inhibisyon etkilerinin araştırılması**

ERİK Ş., KARATAŞ M. O., ALICI B., GENÇER N., ARSLAN O.

Uygulamalı Biyokimya'xxda Güncel Konular-2, Aksaray, Turkey, 26 August 2015

- XIII. **Yeni gümüş karben komplekslerinin sentezi ve karakterizasyonu**

KARATAŞ M. O., ALICI B.

V. Ulusal Anorganik Kimya Kongresi, Mersin, Turkey, 22 - 25 April 2015

- XIV. **Kumarin ve benzoksazin işlevsel gruplu benzimidazolyum ve bis(benzimidazolyum) tuzlarının sentezi ve katalitik uygulamaları**

KARATAŞ M. O., DAYAN S., KAYACI N., ALICI B., ÖZPOZAN N.

V. Ulusal Anorganik Kimya Kongresi, Mersin, Turkey, 22 - 25 April 2015

- XV. **Kumarin içeren gümüş karben komplekslerinin sentezi antibakteriyal ve antifungal özelliklerinin incelenmesi**

KARATAŞ M. O., ALICI B., ÖZDEMİR İ., GÜNAL S., CETINKAYA E.

- II. Ulusal Organik Kimya Kongresi, Ankara, Turkey, 24 - 26 September 2014
- XVI. **Yeni perimidinyum tuzlarının mikrodalga destekli sentezi, karakterizasyonu ve palladyum katalizli çapraz eşleşme reaksiyonlarında katalitik etkilerinin incelenmesi**  
KARATAŞ M. O., ONAR G., ALICI B., CETINKAYA E.  
II. Ulusal Organik Kimya Kongresi, Ankara, Turkey, 24 - 26 September 2014
- XVII. **Human serum paraoxonase 1 inhibitory properties of some dihydroxy coumarin derivatives**  
GÖKÇE B., KARATAŞ M. O., ALICI B., GENÇER N., ARSLAN O.  
International Symposium on Sustainable Development, Sarajevo, Bosnia And Herzegovina, 15 - 18 May 2014
- XVIII. **İmidazol halkası içeren iyonik kumarin türevlerinin sentezi, karbonik anhidraz inhibisyonu çalışmaları ve yapı aktivite ilişkileri**  
KARATAŞ M. O., ALICI B., ÇAKIR Ü., CETINKAYA E., DEMİR D., ERGÜN A., GENÇER N., ARSLAN O.  
I. Ulusal Organik Kimya Kongresi, Sakarya, Turkey, 25 - 29 October 2013
- XIX. **Antrasen grubu içeren benzimidazolyum tuzlarının sentezi, karakterizasyonu ve PPO inhibisyon çalışmaları**  
KARATAŞ M. O., BİLEN Ç., GENÇER N., ALICI B.  
I. Ulusal Organik Kimya Kongresi, Sakarya, Turkey, 25 - 29 October 2013
- XX. **Synthesis and anticonvulsant activities of ionic coumarin derivatives**  
KARATAŞ M. O., ALAGÖZ M., KARAKURT A., ALICI B.  
44th World Chemistry Congress, İstanbul, Turkey, 11 - 16 August 2013
- XXI. **Synthesis of the column packing materials based on coumarin containing-silica**  
KAZMAZ S., KARATAŞ M. O., ERDOĞAN A., KÖYTEPE S., ATEŞ B., ALICI B., SEÇKİN T.  
44th World Chemistry Congress, İstanbul, Turkey, 11 - 16 August 2013
- XXII. **4-Klorometil hidroksi kumarinler ve kuaterner amonyum tuzlarının sentezi, karakterizasyonu ve biyolojik aktiviteleri**  
KARATAŞ M. O., ALICI B., ÇAKIR Ü.  
25. Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June - 02 July 2011
- XXIII. **4-Klorometil hidroksi kumarinler ve kuaterner amonyum tuzlarının sentezi**  
KARATAŞ M. O., GÜMÜŞ PALABIYIK A., KARADENİZ Ş., ALICI B., ONAR G., ÇAKIR Ü.  
Organometalik Kimya ve Kataliz Çalıştayı, Malatya, Turkey, 16 - 17 May 2010

## Supported Projects

KARATAŞ M. O., KÜÇÜKBAY H., GENÇER N., ÇIKRIKÇI K., Project Supported by Higher Education Institutions, Kumarin Grubu İçeren Yeni N-Heterosiklik Karben Metal Komplekslerinin Sentezi ve Karbonik Anhidraz I, II ve IX Enzimleri Üzerindeki İnhibitör Özelliklerinin İncelenmesi, 2023 - Continues

KARATAŞ M. O., KAÇMAZER R., Project Supported by Higher Education Institutions, Kumarin Grubu İçeren BisKuaterner Amonyum Tuzlarının Sentezi ve Karakterizasyonu, 2022 - 2023

## Metrics

Publication: 60

Citation (WoS): 326

Citation (Scopus): 170

H-Index (WoS): 10

H-Index (Scopus): 8

## Non Academic Experience

