

## Lect. PhD Hakan Bülbul

### Personal Information

Office Phone: [+90 362 312 1919](tel:+903623121919) Extension: 5030

Email: [hbulbul@omu.edu.tr](mailto:hbulbul@omu.edu.tr)

Web: <https://avesis.omu.edu.tr/hbulbul>

### International Researcher IDs

ORCID: 0000-0002-8586-5075

Yoksis Researcher ID: 109398

### Education Information

Doctorate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 2019 - 2020

Postgraduate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 2012 - 2016

Undergraduate, Fırat University, Fen-Edebiyat Fakültesi, Fizik Pr., Turkey 1996 - 2002

### Dissertations

Postgraduate, Schiff bazı moleküllerinin enerjik ve morfolojik özelliklerinin deneysel ve kuramsal yöntemlerle incelenmesi, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 2016

### Research Areas

Atmospheric Sciences and Meteorological Engineering, Environmental Engineering, Atomic and Molecular Physics, Electromagnetism, Acoustics, Heat Transfer, Classical Mechanics and Fluid Dynamics, Natural Sciences

### Academic Titles / Tasks

Lecturer, Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2003 - Continues

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

- I. **Characterization of the synthesized diaqua-bis(indazole- $\kappa$ N2)bis (nitrate- $\kappa$ O)zinc(II) complex and DFT calculations**  
Kucuk C., Celik S., Yurdakul S., Özdemir N., Bülbul H.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1304, 2024 (SCI-Expanded)
- II. **Synthesis of palladium complexes containing benzimidazole core and their catalytic activities in direct arylation of heteroaromatic species**  
Seker S., Ulu O. D., GÜRBÜZ N., Özdemir N., ÖZDEMİR İ., Bülbul H.  
JOURNAL OF COORDINATION CHEMISTRY, 2024 (SCI-Expanded)
- III. **Synthesis, crystal structure, spectroscopy and quantum chemical investigations of hexahydroquinoline molecule**  
Bülbul H., Cetin G., Köysal Y., ŞİMŞEK R., Yildirim S. O., Tanak H., Butcher R. J.

- IV. **Cu(I)-heterocyclic carbene complexes bearing a naphthyl substituent: synthesis, characterization, and antimicrobial activities**  
Tokatli A., Demir B., Kiliç N., Kurt Kızıdoğan A., Otur Ç., Kilinçarslan R., Karakaş H., Özdemir N., Bülbül H.  
JOURNAL OF COORDINATION CHEMISTRY, vol.76, no.13-15, pp.1745-1762, 2023 (SCI-Expanded)
- V. **Crystal Structure, Computational Study and Hirshfeld Surface Analysis of 4-(4-Methoxyphenethyl)-5-(p-tolyl)-2,4-Dihydro-3H-1,2,4-Triazol-3-One, C<sub>18</sub>H<sub>19</sub>N<sub>3</sub>O<sub>2</sub>**  
Bülbül H., Köysal Y., YILDIRIM S., ÜNLÜER BİRİNCİ D., SOYLU M. S., Butcher R. J.  
JOURNAL OF CHEMICAL CRYSTALLOGRAPHY, vol.52, no.4, pp.440-449, 2022 (SCI-Expanded)
- VI. **Experimental and Thermal Analysis of Solar Thermoelectric System Performance Incorporated with Solar Tracker**  
Atalay T., Yakut Y., Köysal Y., Özbektaş S., Bülbül H., Topaloglu B.  
INTERNATIONAL JOURNAL OF PRECISION ENGINEERING AND MANUFACTURING-GREEN TECHNOLOGY, vol.9, no.2, pp.587-602, 2022 (SCI-Expanded)
- VII. **Crystal structure and computational studies of (E)-1-(benzo[b]thiophen-3-yl)-N-(4-ethoxyphenyl)methanimine**  
Bülbül H., Köysal Y., Doğan O. E., DEGE N., Açar E.  
CRYSTALLOGRAPHY REPORTS, vol.64, no.3, pp.403-406, 2019 (SCI-Expanded)
- VIII. **Crystal structure of 3-(4-methoxyphenyl)-1-(4-methylphenyl)prop-2-en-1-one, C<sub>17</sub>H<sub>16</sub>O<sub>2</sub>**  
Köysal Y., Bülbül H., Ozdemir F., İLHAN İ. Ö., DEGE N.  
ZEITSCHRIFT FÜR KRISTALLOGRAPHIE-NEW CRYSTAL STRUCTURES, vol.232, no.4, pp.593-594, 2017 (SCI-Expanded)
- IX. **Crystal structure of (E)-3-((naphthalen-1-ylimino) methyl)-4-nitrophenol, C<sub>17</sub>H<sub>12</sub>N<sub>2</sub>O<sub>3</sub>**  
Bülbül H., Köysal Y., Macit M., Yaman R., DEGE N.  
ZEITSCHRIFT FÜR KRISTALLOGRAPHIE-NEW CRYSTAL STRUCTURES, vol.232, no.1, pp.135-136, 2017 (SCI-Expanded)
- X. **Crystal structure of (E)-4-nitro-2-((2-phenoxy-phenylimino)methyl)phenol, C<sub>19</sub>H<sub>14</sub>N<sub>2</sub>O<sub>4</sub>**  
Köysal Y., Bülbül H., Kantar E. N., Coskun E., Şahin S., DEGE N.  
ZEITSCHRIFT FÜR KRISTALLOGRAPHIE-NEW CRYSTAL STRUCTURES, vol.232, no.1, pp.9-10, 2017 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Crystal structure and computational studies of N-((2-ethoxynaphthalen-1-yl)methylene)-4-fluoroaniline**  
ATALAY Ş., MACİT M., BÜLBÜL H.  
European Journal of Chemistry, vol.12, no.4, pp.454-458, 2021 (Peer-Reviewed Journal)
- II. **(Z)-3-({[3-Methoxy-5-(trifluoromethyl)phenyl]imino}methyl)benzene-1,2-diol**  
Kamazalp S. D., Doğan O. E., DEGE N., Açar E., Bülbül H., Golenya I. A.  
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.75, pp.470-479, 2019 (ESCI)
- III. **2-{{(E)-[3-Chloro-4-methylphenyl]imino}methyl}-4-(trifluoromethoxy)phenol**  
ATALAY Ş., GERÇERER S., MERAL S., BÜLBÜL H.  
IUCR DATA, vol.2, no.12, pp.171725, 2017 (Peer-Reviewed Journal)
- IV. **(E)-2-{{(5-Chloro-2-methoxyphenyl)imino}methyl}-4-nitrophenol**  
Öv Bodur G. S., YAVUZ M., DEGE N., BÜLBÜL H., AÇAR E.  
IUCR DATA, vol.2, no.2, pp.170177, 2017 (Peer-Reviewed Journal)
- V. **Crystal structure and computational studies of (3Z)-4-benzoyl-3-[(2,4-dinitrophenyl)hydrazinylidene]-5-phenylfuran-2(3H)-one**  
Köysal Y., Bülbül H., İLHAN İ. Ö., Akin N., DEGE N.  
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.72, pp.1852-1861, 2016 (ESCI)

- VI. **Crystal structure and computational study of 2,4-dichloro-N-[(E)-(5-nitrothiophen-2-yl)methylidene]aniline**  
Köysal Y., Bülbül H., Gumus S., Ağar E., SOYLU M. S.  
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.72, pp.1187-1193, 2016 (ESCI)
- VII. **Crystal Structure Spectroscopy SEM Analysis and Computational Studies of N 1 3 Dioxoisindolin 2yl benzamide**  
BÜLBÜL H., KÖYSAL Y., DEGE N., GÜMÜŞ UZUN S., AĞAR E., SALHA H.  
Journal of Crystallography, vol.2015, pp.1-6, 2015 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Atmospheric Carbondioxide Sequestration By Algae**  
BAYTUT Ö., ÖZDEMİR A. E., BÜLBÜL H.  
"Cooperation of Climate Change and Green Deal Symposium" between 24-26 October 2022, Samsun, Turkey, 24 October 2022
- II. **X-ray crystallographic and computational studies of (E)-N'-(4-fluorobenzylidene)-1-(2-methoxyphenyl)-4,5-dihydro-1H-pyrazole-4-carbohydrazide**  
Noori NOORI S. A., ATALAY Ş., GEDİZ ERTÜRK A., BÜLBÜL H.  
International Marmara Sciences Congress, Kocaeli, Turkey, 10 December 2021
- III. **Crystal structure and computational study of C11H6Cl2N2O2S**  
BÜLBÜL H., KÖYSAL Y., GÜMÜŞ S., AĞAR E., SOYLU M. S., ATALAY Ş.  
1. INTERNATIONAL TECHNOLOGICAL SCIENCES AND DESIGN SYMPOSIUM, Giresun, Turkey, 27 - 29 June 2018
- IV. **Computational and Structural Analysis of C14H12BrNO**  
ATALAY Ş., TOSYALI KARADAĞ A., BÜLBÜL H., GENÇ H.  
1. INTERNATIONAL TECHNOLOGICAL SCIENCES AND DESIGN SYMPOSIUM, Giresun, Turkey, 27 - 29 June 2018
- V. **SYNTHESIS, CRYSTAL STRUCTURE AND THEORETICAL CALCULATIONS OF C14H13NO3**  
SAĞLIK E. A., ATALAY Ş., BÜLBÜL H., CEREN Ç., AĞAR E.  
Turkish Physical Society 34th International Physical Congress, BODRUM, Turkey, 5 - 09 September 2018
- VI. **Crystal Structure and Theoretical Calculations of C16H14F3NO2**  
ATALAY Ş., TOSYALI KARADAĞ A., BÜLBÜL H., AĞAR E.  
International Conference on Physical Chemistry and Functional Materials(PCFM'18), Elazığ, Turkey, 19 - 21 June 2018
- VII. **X-Ray Crystallographic and Computational Studies of C15H12F3NO3**  
ATALAY Ş., TOSYALI KARADAĞ A., BÜLBÜL H., GENÇ H.  
International Conference on Physical Chemistry and Functional Materials(PCFM'18), Elazığ, Turkey, 19 - 21 June 2018
- VIII. **XRD and Computational Studies of C16H12N2O2**  
ATALAY Ş., ERDEM T. K., BÜLBÜL H., AKDEMİR N., AĞAR E., KANTAR C.  
International Conference on Physical Chemistry and Functional Materials(PCFM'18), Elazığ, Turkey, 19 - 21 June 2018
- IX. **Crystal Structure and Computational Study of C15H10N2OS**  
ATALAY Ş., ERDEM T. K., BÜLBÜL H., AKDEMİR N., AĞAR E., ÖZİL M.  
International Conference on Physical Chemistry and Functional Materials(PCFM'18), Elazığ, Turkey, 19 - 21 June 2018
- X. **Crystal Structure, Spectroscopy, SEM Analysis, and Computational Studies of C17H12N2O3**  
BÜLBÜL H., KÖYSAL Y., MACİT M., YAMAN R., DEGE N.  
1. INTERNATIONAL TECHNOLOGICAL SCIENCES AND DESIGN SYMPOSIUM, 27 - 29 June 2018
- XI. **X-ray crystallographic studies of 2-[(E)-[(3-chloro-4-methylphenyl)imino]methyl]-4-(trifluoromethoxy)phenol**

ATALAY Ş., GERÇEKER S., BÜLBÜL H., ALAMAN E., ALAMAN AĞAR A.

Turkish Physical Society 33rd International Physics Congress, BODRUM / MUĞLA, Turkey, 6 - 10 September 2017

**XII. X-ray crystallographic and computational studies of (E)-2-(((4-bromophenyl)imino)methyl) -4,5-difluorophenol**

ATALAY Ş., DURSUN M. E., BÜLBÜL H., AĞAR E., ŞAHİN S.

Turkish Physical Society 33rd International Physics Congress, BODRUM / MUĞLA, Turkey, 6 - 10 September 2017

**XIII. Crystal Structure of 1Acetyl3 4methylphenyl 5phenyl4 5dihydro1Hpyrazole1**

BÜLBÜL H., tınmaz f., DEGE N., İLHAN İ. Ö., SARIPINAR E.

9th International Physics Conference of the Balkan Physical Union, 24 - 27 August 2015

## Supported Projects

Bülbül H., Project Supported by Higher Education Institutions, &quot;9th International Physics Conference of the Balkan Physical Union, 2015 - 2015