

CURRICULUM VITAE

Name and Surname: Cemile Baydere Demir
Academic Title: Assistant Professor
Work Address:
Email: cemile.bayderedemir@demiroglu.bilim.edu.tr
Area of Expertise: Physics

Degree	Department/Program	University	Year
Doctorate	FİZİK (DR)	Ondokuz Mayıs University	2020
Master's Degree	FİZİK (YL) (TEZLİ)	Giresun University	2014
Bachelor's Degree	FİZİK BÖLÜMÜ	Giresun University	2011

Master's Thesis Title (abstract attached) and Thesis Supervisor(s):

Karboksilik asit koordinasyonlu bazı geçiş metal komplekslerinin flüoresans parametrelerinin ölçülmesi

Doctoral Thesis/Proficiency Study/Medical Specialization Thesis Title (abstract attached) and Supervisor(s):

Keto grubu içeren piridazin türevi bazı bileşiklerden sentezlenmiş tek kristallerin yapılarının çeşitli spektroskopik ve hesaplamalı yöntemlerle aydınlatılması

Undergraduate and graduate level courses taught in the last two years (If offered, summer courses will also be added to the table):

Academic Year	Semester	Course Name	Weekly Hours		Number of Students
			Theoretical	Practical	
2025	Spring	İşletme Matematiği-II			
2025	Spring	Yöneticiler İçin Matematik-II			
2025	Spring	Araştırma Yöntemleri ve Veri Analizi			
2025	Spring	Fizik			
2025	Fall	Fizik			
2025	Fall	İşletme Matematiği-I			
2025	Fall	Yöneticiler İçin Matematik-I			
2025	Fall	Fizik ve Biyofizik			

PUBLICATIONS**A. Articles published in international peer-reviewed journals:**

A1. El Hassani I. A., Isa M. A., Ameziane El Hassani A., Baydere Demir C., Dege N., Alzahrani A. Y. A., Kappo A. P., Ansar M., Karrouchi K., "(E)-N'-(4-chlorobenzylidene)-5-methyl-1H-pyrazole-3-carbohydrazide as a potential PI3K α targeting scaffold, synthesis, X-ray crystallography, DFT, molecular docking, molecular dynamics simulations, and MMGBSA analysis", *Journal of Molecular Structure*, vol. 1359, 2026.

- A2.** Sadikhova N. D., Baydere Demir C., Dege N., Hasanov K. I., Jamalov P. J., Belay A. N., "Crystal Structure and Hirshfeld Surface Analysis and DFT Studies of 5-Iodobenzo[c][1,2,5]Selenadiazole", *Journal of Structural Chemistry*, vol. 67, no. 2, pp. 442-452, 2026.
- A3.** Guseynova S. N., Samigullina A. I., Baydere Demir C., Dege N., Sepay N., Zangrando E., Hasanov K. I., Belay A. N., "Synthesis, crystal structure and Hirshfeld surface analysis of 2,2-dichloro-3,3-diethoxy-1-(4-fluorophenyl)propan-1-ol", *Acta Crystallographica Section E: Crystallographic Communications*, vol. 81, pp. 444-447, 2025.
- A4.** Dadou S., Altay A., Baydere Demir C., Anouar E. H., Türkmenoğlu B., Koudad M., Dege N., Oussaid A., Benchat N., Karrouchi K., "Chalcone-based imidazo[2,1-b]thiazole derivatives: synthesis, crystal structure, potent anticancer activity, and computational studies", *Journal of Biomolecular Structure and Dynamics*, vol. 43, no. 1, pp. 261-276, 2025.
- A5.** Saddik R., Brandan S., Mortada S., Baydere Demir C., Roby O., Dege N., Tighadouini S., Tahiri M., Faouzi M. A., Karrouchi K., "Synthesis, crystal structure, Hirshfeld surface analysis, DFT and antihyperglycemic activity of 9-allyl-2,3,9,10a-tetrahydrobenzo[b]cyclopenta[e][1,4]diazepin-10(1H)-one", *Journal of Molecular Structure*, no. 1283, pp. 135283, 2023.
- A6.** El Kalai F., Baydere Demir C., Dege N., Abudunia A., Benchat N., Karrouchi K., "Crystal structure and Hirshfeld surface analysis of 2-oxo-2-phenylethyl 3-nitroso-2-phenylimidazo-[1,2-a]pyridine-8-carboxylate", *Acta Crystallographica Section E: Crystallographic Communications*, vol. 78, pp. 322-325, 2022.
- A7.** Al-karawi A. J. M., Omarali A. B., Mangelsen S., Dege N., Kansız S., Breuninger P., Baydere Demir C., Omarali O. B., "An unprecedented formation of new copper(II) complexes as bioactive materials based on copper-catalyzed click reaction", *Polyhedron*, vol. 198, 2021.
- A8.** Daoui S., Baydere Demir C., Akman F., El Kalai F., Mahi L., Dege N., Topcu Y., Karrouchi K., Benchat N., "Synthesis, X-ray crystallography, vibrational spectroscopy, thermal and DFT studies of (E)-6-(4-methylstyryl)-4,5-dihydropyridazin-3(2H)-one", *Journal of Molecular Structure*, vol. 1225, no. 1225, pp. 129180, 2021.
- A9.** El Kalai F., Karrouchi K., Baydere Demir C., Daoui S., Allali M., Dege N., Benchat N., Brandan S., "Synthesis, crystal structure, spectroscopic studies, NBO, AIM and SQMFF calculations of new pyridazinone derivative", *Journal of Molecular Structure*, vol. 1223, no. 1223, pp. 129213, 2021.
- A10.** Bouzian Y., Baydere Demir C., Dege N., Ahabchane N. H., Mague J. T., Abudunia A., Karrouchi K., Essassi E. M., "Crystal structure, Hirshfeld surface analysis, DFT and molecular docking investigation of 2-(2-oxo-1,3-oxazolidin-3-yl)ethyl 2-[2-(2-oxo-1,3-oxazolidin-3-yl)ethoxy]quinoline-4-carboxylate", *Acta Crystallographica Section E: Crystallographic Communications*, vol. 77, pp. 28-33, 2021.
- A11.** Daoui S., Baydere Demir C., Chelfi T., El Kalai F., Dege N., Karrouchi K., Benchat N., "Polymorphism of 2-(5-benzyl-6-oxo-3-phenyl-1,6-dihydropyridazin-1-yl)acetic acid with two monoclinic modifications: Crystal structures and Hirshfeld surface analyses", *Acta Crystallographica Section E: Crystallographic Communications*, vol. 76, pp. 432-436, 2020.
- A12.** Daoui S., Baydere Demir C., El Kalai F., Mahi L., Dege N., Karrouchi K., Benchat N., "Crystal structure, Hirshfeld surface analysis and DFT studies of 2-[5-(4-methylbenzyl)-6-oxo-3-phenyl-1,6-dihydropyridazin-1-yl]acetic acid", *Acta Crystallographica Section E: Crystallographic Communications*, vol. 75, pp. 1925-1929, 2019.
- A13.** Dadou S., Kansız S., Daoui S., El Kalai F., Baydere Demir C., Saddik R., Karrouchi K., Dege N., Benchat N., "Crystal structures and Hirshfeld surface analyses of 4-benzyl-6-phenyl-4,5-dihydropyridazin-3(2H)-one and methyl 2-[5-(2,6-dichlorobenzyl)-6-oxo-3-phenyl-1,4,5,6-tetrahydropyridazin-1-yl]acetate", *Acta Crystallographica Section E: Crystallographic Communications*, vol. 75, pp. 1679-1684, 2019.
- A14.** Daoui S., Baydere Demir C., El Kalai F., Saddik R., Dege N., Karrouchi K., Benchat N., "Crystal structure and Hirshfeld surface analysis of (E)-6-(4-hydroxy-3-methoxystyryl)-4,5-dihydropyridazin-3(2H)-one", *Acta Crystallographica Section E: Crystallographic Communications*, vol. 75, pp. 1734-1737, 2019.
- A15.** Daoui S., Cinar E. B., El Kalai F., Saddik R., Karrouchi K., Benchat N., Baydere Demir C., Dege N., "Crystal structure and Hirshfeld surface analysis of 4-(4-methylbenzyl)-6-phenylpyridazin-3(2H)-one", *Acta Crystallographica Section E: Crystallographic Communications*, vol. 75, pp. 1352-1356, 2019.
- A16.** Baydere Demir C., Taşçı M., Dege N., Arslan M., Atalay Y., Golenya I. A., "Crystal structure and Hirshfeld surface analysis of (E)-2-(2,4,6-trimethylbenzylidene)-3,4-dihydronaphthalen-1(2 H)-one", *Acta Crystallographica Section E: Crystallographic Communications*, vol. 75, no. 75, pp. 746-750, 2019.
- A17.** El Kalai F., Baydere Demir C., Daoui S., Saddik R., Dege N., Karrouchi K., Benchat N., "Crystal structure and Hirshfeld surface analysis of ethyl 2-[5-(3-chlorobenzyl)-6-oxo-3-phenyl-1,6-dihydropyridazin-1-yl]acetate", *Acta Crystallographica Section E: Crystallographic Communications*, vol. 75, pp. 892-895, 2019.

B. Papers presented at international scientific meetings and published in proceedings:

- B1.** Baydere Demir C., Crystal Structure, DFT Studies And Hirshfeld Surface Analysis Of (E)-3-(6-(4-Fluorophenyl)Imidazo[2,1-b]Thiazol-5-Yl)-1-(4-Methoxyphenyl)Prop-2-En-1-One Compound, In: *ISARC 1.INTERNATIONAL GAZIANTEP SCIENTIFIC RESEARCH CONGRESS*, Gaziantep, Türkiye, 2024, pp. 448-463.
- B2.** Baydere Demir C., Kansız S., Dege N., Crystal structure and Hirshfeld surface analysis of tris(acetylacetonato)-diaqua-europium monohydrate, In: *1st International Technology Sciences and Design Symposium (ITESDES 2018)*, Giresun, Türkiye, 2018.
- B3.** Kaçal M. R., Özdemir E. G., Akman F., Baydere Demir C., The Chemical Effect on the Fluorescence Yield Parameters of Ligands of Malonic Acid CH₂ COOH 2 and Phenylmalonic Acid C₆H₅NCH COOH 2, In: *IPCAP 2016 – INTERNATIONAL PHYSICS CONFERENCE AT THE ANATOLIAN PEAK*, Erzurum, Türkiye, 2016.

B4. Akdemir F., Kaçal M. R., Baydere Demir C., Araz A., Akman F., Durak R., MEASUREMENT OF FLUORESANS PARAMETERS OF SOME NI AND ZN TRANSITION METAL COMPLEXES WITH CARBOXYLIC ACID COORDINATION., In: *9th International Physics Conference of the Balkan Physical Union*, İstanbul, Türkiye, 2015.

B5. Araz A., Kaçal M. R., Akdemir F., Baydere Demir C., Akman F., Durak R., THE INVESTIGATION OF CHEMICAL EFFECT ON SOME CU AND FE METAL COMPLEXES., In: *9th International Physics Conference of the Balkan Physical Union*, İstanbul, Türkiye, 2015.

D. Articles published in national peer-reviewed journals:

D1. Baydere Demir C., "DFT studies of 2-oxo-2-phenylethyl 3-nitroso-2-phenylimidazo[1,2-a]pyridine-8-carboxylate compound", *Düzce Üniversitesi Bilim ve Teknoloji Dergisi*, vol. 13, no. 3, pp. 1072-1088, 2025.