

Asst. Prof. VOLKAN FINDIK

Personal Information

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International Researcher IDs

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Education Information

Post Doctorate, Modélisation et Simulation Multi Echelle MSME , Chimie Théorique, France 2023 - Continues

Doctorate, Laboratoire de Physique et Chimie Théoriques, Chimie Théorique, France 2019 - 2022

Doctorate, Marmara University, Institute For Graduate Studies In Pure And Applied Sciences, Department Of Chemistry, Turkey 2018 - 2022

Postgraduate, Bogazici University, Institute Of Science, Kimya Anabilim Dalı, Turkey 2015 - 2018

Undergraduate, Bogazici University, Faculty Of Education, Department Of Mathematics And Science Teaching, Turkey 2009 - 2015

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Atomistic simulations of the amine acetylation reaction and the covalent inhibition of the enzyme phosphoinositide 3-kinase (pi3k), Marmara University, Faculty of Sciences, Department of Chemistry, 2022

Postgraduate, Theoretical investigation of Thiol-ene Click reactions: A DFT perspective, Bogazici University, Institute Of Science, 2018

Research Areas

Chemistry, Computational Chemistry

Academic Titles / Tasks

Research Assistant, Marmara University, Faculty of Arts and Sciences, Chemistry, 2017 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Novel methoxyphenylthio-substituted phthalocyanines: synthesis, characterization, proton-transfer, and acid-sensing properties**
Ağcaabat R., Seslikaya C., FINDIK V., ERDEM S., ODABAŞ Z.
New Journal of Chemistry, vol.48, no.4, pp.1623-1633, 2024 (SCI-Expanded)
- II. **New Horizon in Phospha-Michael Reaction: Ultrafast Double Addition of P-H Bond-Bearing Nucleophiles to Electron-Deficient Triple Bonds and Its Use for Functional Monomer Synthesis and Polymer Modification**
Sagdic G., Daglar O., ÇAKMAKÇI E., FINDIK V., ERDEM S., Tunca Ü., Günay U. S., Durmaz H.
Macromolecules, vol.56, no.17, pp.7006-7022, 2023 (SCI-Expanded)
- III. **Mechanistic Investigation of Lysine-Targeted Covalent Inhibition of PI3K delta via ONIOM QM:QM Computations**
FINDIK V., Gercik B. T. V., Sinek O., ERDEM S., Ruiz-Lopez M. F.
JOURNAL OF CHEMICAL INFORMATION AND MODELING, vol.62, no.24, pp.6775-6787, 2022 (SCI-Expanded)
- IV. **Theoretical Investigation of the Biogenetic Pathway for Formation of Antibacterial Indole Alkaloids from Voacanga africana**
Soysal E. N., Findik V., Dedeoglu B., AVIYENTE V., Tantillo D. J.
ACS OMEGA, vol.7, no.35, pp.31591-31596, 2022 (SCI-Expanded)
- V. **Influence of ionic liquids on the electronic environment of atomically dispersed Ir on (MgO)(100)**
Akgul D., Kurtoglu-oztulum S. F., Zhao Y., FINDIK V., Monari A., Uzun A., AVIYENTE V.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol.24, no.18, pp.11305-11314, 2022 (SCI-Expanded)
- VI. **Origins of the photoinitiation capacity of aromatic thiols as photoinitiators: a computational study**
FINDIK V., Findik B. K., AVIYENTE V., Monari A.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol.23, no.42, pp.24377-24385, 2021 (SCI-Expanded)
- VII. **Mechanistic insights into lysine-targeting covalent inhibition through a theoretical study of ester aminolysis**
FINDIK V., Ruiz-Lopez M. F., ERDEM S.
ORGANIC & BIOMOLECULAR CHEMISTRY, vol.19, no.45, pp.9996-10004, 2021 (SCI-Expanded)
- VIII. **Insight into the Thiol-yne Kinetics via a Computational Approach**
FINDIK V., Varınca B. T., DEĞİRMENCİ İ., ERDEM S.
JOURNAL OF PHYSICAL CHEMISTRY A, vol.125, no.17, pp.3556-3568, 2021 (SCI-Expanded)
- IX. **Solvent Effects on Thiol-Ene Kinetics and Reactivity of Carbon and Sulfur Radicals**
Munar I., FINDIK V., Degirmenci I., Aviyente V.
JOURNAL OF PHYSICAL CHEMISTRY A, vol.124, no.13, pp.2580-2590, 2020 (SCI-Expanded)
- X. **Theoretical investigation of thiol-ene click reactions: A DFT perspective**
Findik V., Degirmenci I., Catak S., Aviyente V.
EUROPEAN POLYMER JOURNAL, vol.110, pp.211-220, 2019 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Theoretical Study on Lysine-Targeting Covalent Inhibition Mechanism in Water and PI3Kd Enzyme**
Findik V., Erdem S., F. Ruiz-Lopez M.
Congress on Electronic Structure Principles and Applications, Vigo, Spain, 21 - 24 June 2022
- II. **Advanced Atomistic Simulations on Amine Acetylation Reaction in Aqueous Medium**
Findik V., Erdem S., F. Ruiz-Lopez M.
LatinXchem, 07 September 2020, pp.1
- III. **Tiyil Radikali ve Alkenler Arasında Gerçekleşen Bölgesel Halkalaşma Reaksiyonuna Hesapsal Yaklaşım**
SERT E. M., FINDIK V., ERDEM S.
30. ULUSAL KİMYA KONGRESİ, Turkey, 5 - 08 November 2018
- IV. **Etakrinik Asit Oksidazol Türevlerinin Glutatiyon S-transferaz İnhibisyonu Üzerine Moleküler Doking**

Çalışması

FINDIK V., ERDEM S.

30. ULUSAL KİMYA KONGRESİ, Turkey, 5 - 08 November 2018

- V. **Tiyol-en Tepkimelerinin Bölgeseçici Halkalaşma Reaksiyonuna Hesapsal Bir Yaklaşım**
SİNEK Ö., FINDIK V., ERDEM S.
30. ULUSAL KİMYA KONGRESİ, Turkey, 5 - 08 November 2018
- VI. **Tiyol-in Reaksiyon Mekanizmalarının Teorik Olarak İncelenmesi**
VARINCA B. T., FINDIK V., ERDEM S.
30. ULUSAL KİMYA KONGRESİ, Turkey, 5 - 08 November 2018
- VII. **Molecular Dynamics and Docking Simulations on the Formate Dehydrogenase Enzymes**
FINDIK V., ÇAKAR M. M., ERDEM S., BİNAY B.
1. Euroasia Biochemical Approaches Technologies Congress, 27 - 30 October 2018
- VIII. **Theoretical investigation of thiol-ene click reactions: a DFT perspective**
Fındık V., Değirmenci İ., Çatak Ş., Aviyente V.
CHEMISTRY VIA COMPUTATION "Applications on Molecular Nanoscience", İstanbul, Turkey, 30 October 2018, pp.64
- IX. **Novel Tetrakis 4-(1-(pyridin-4-yl)ethoxyl) Substituted Phthalocyanine Derivatives: Synthesis and DFT/TD-DFT Calculations**
Fındık V., Erdem S., Çavuş A., Özdemir B., Akbal T., Özer M.
11th Congress on Electronic Structure Principles and Applications, Toledo, Spain, 17 - 19 July 2018, pp.1-2
- X. **Tiyol-Alken Tepkimelerine Hesapsal Bir Yaklaşım**
Fındık V., Değirmenci İ., Çatak Ş., Aviyente V.
29. Ulusal Kimya Kongresi, Ankara, Turkey, 10 - 14 September 2018, pp.1

Metrics

Publication: 20

Citation (WoS): 35

Citation (Scopus): 66

H-Index (WoS): 3

H-Index (Scopus): 4

Scholarships

Ortak Denetimli Tez Bursları, Official Institutions of Foreign Countries, 2019 - 2022

Doktora Araştırma Bursu, Official Institutions of Foreign Countries, 2019 - 2019

Non Academic Experience

GlaxoSmithKline