

Asst. Prof. GÖKHAN GÜVEN BATIR

Personal Information

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International Researcher IDs

ORCID: 0000-0001-9568-5767

Publons / Web Of Science ResearcherID: AAD-5018-2019

ScopusID: 56448119000

Yoksis Researcher ID: 42233

Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, Turkey 2012 - 2017

Postgraduate, Suleyman Demirel University, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, Turkey 2007 - 2010

Undergraduate, Suleyman Demirel University, Fen Edebiyat Fakültesi, Kimya Bölümü, Turkey 2003 - 2007

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Grafen, BN, MoS₂, TiS₃ sentezi, karakterizasyonu ve suda çözünebilir grafen/boyar madde kompozitlerinin fotofiziksel özelliklerinin incelenmesi, Ataturk University, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, 2017

Postgraduate, 3-[(2,5-dimetil-4-brom)fenil] tiyofenin elektrokimyasal polimerizasyonu, karakterizasyonu ve glikoz biyosensörü olarak geliştirilmesi, Suleyman Demirel University, ÜNİVERSİTE HAS. BAŞ. MÜDÜRLÜĞÜ, 2010

Research Areas

Polymers and Their Applications, Solution Properties, Composites, nanocomposites, Spectroscopy

Academic Titles / Tasks

Assistant Professor, Sivas Cumhuriyet University, Yıldızeli Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler Bölümü, 2019 - Continues

Research Assistant PhD, Agri Ibrahim Cecen University, Faculty Of Arts And Sciences, Department Of Chemistry, 2017 - 2019

Research Assistant, Ataturk University, Fen Fakültesi, Kimya, 2012 - 2017

Research Assistant, Ankara University, Faculty Of Science, Department Of Chemistry, 2011 - 2012

Academic and Administrative Experience

Head of Department, Sivas Cumhuriyet University, Yıldızeli Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler Bölümü,
2021 - Continues

Courses

Associate Degree

Laboratuvar Kimyasal Yöntemler , Associate Degree, 2021 - 2022
Genel Kimya - I, Associate Degree, 2021 - 2022, 2020 - 2021
Medikal Cihazlar ve Çalışma Prensipleri, Associate Degree, 2021 - 2022
Analitik Kimya, Associate Degree, 2021 - 2022, 2020 - 2021
Tıbbi Laboratuvar , Associate Degree, 2019 - 2020
Temel Biyokimya, Associate Degree, 2019 - 2020
Laboratuvar Kimyası, Associate Degree, 2020 - 2021
Klinik Biyokimya ve Uygulamaları, Associate Degree, 2020 - 2021
Laboratuvar Güvenliği , Associate Degree, 2019 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Unveiling cutting-edge developments in defective BiOI nanomaterials: Precise manipulation and improved functionalities towards bolstered photocatalysis**
Soni V., Malhotra M., Singh A., Khan A. A. P., BATIR G. G., Katin K., Van Le Q., Nguyen V., Ahamad T., Singh P., et al.
Advances in Colloid and Interface Science, vol.340, 2025 (SCI-Expanded)
- II. **ONN donor half-salen ligands and their dioxomolybdenum(VI) complexes: Synthesis, crystal structure, experimental-theoretical characterizations and molecular docking studies**
Portakal E. D., BATIR G. G., Berisha A., KAYA Y., Şahin O., ERÇAĞ A.
Journal of Molecular Structure, vol.1330, 2025 (SCI-Expanded)
- III. **DFT computation-assisted design and synthesis of trisodium nickel triphosphate: Crystal structure, vibrational study, electronic properties and application in wastewater purification**
Zerrouk M., Er-raiy M., Azzaoui K., Sabbahi R., Hanbali G., Jodeh S., Alshahateet S. F., Hammouti B., BATIR G. G., Maslov M. M., et al.
Journal of Molecular Structure, vol.1329, 2025 (SCI-Expanded)
- IV. **Design, 3D-QSAR, molecular docking, MD simulations, ADME/Tox properties and DFT study of benzimidazole derivatives as promising α -glucosidase inhibitors**
Khaldan A., Bouamrane S., Ouabane M., El-mernissi R., Alaqarbeh M., Alnajjare R., Gürer E. S., BATIR G. G., Maghat H., Bouachrine M., et al.
Journal of Molecular Structure, vol.1328, 2025 (SCI-Expanded)
- V. **Transforming waste polyethylene terephthalate (PET) into high-performance activated carbon-supported composites for pollutant degradation: A synergy of experiments and DFT insights**
Poonia K., Sonu S., Singh P., Ahamad T., Nguyen V., Katin K. P., BATIR G. G., Thakur S., Raizada P.
Carbon, vol.234, 2025 (SCI-Expanded)
- VI. **Functional Group Effects on the Interfacial Adsorption of Arylquinoline-3-Carbonitriles on Iron: A DFT-D3 Investigation of Surface Interaction Mechanisms**
Lgaz H., BATIR G. G., Lee D., Aldalbahi A., Lee H.
Langmuir, vol.41, no.1, pp.350-360, 2025 (SCI-Expanded)
- VII. **New solvated Mo(VI) complexes of isatin based asymmetric bithiocarbohydrazones as potent bioactive agent: synthesis, DFT-molecular docking studies, biological activity evaluation and crystal structures**
KAYA Y., ERÇAĞ A., BATIR G. G., Berisha A., AKKAYA B., Zorlu Y.
BioMetals, vol.37, no.6, pp.1657-1675, 2024 (SCI-Expanded)

- VIII. **Incorporation of graphene oxide to metal-free phthalocyanine through hydrogen bonding for optoelectronic applications: An experimental and computational study**
YABAŞ E., ŞENADIM TÜZEMEN E., BATIR G. G., Maslov M. M., Erden F.
Journal of Physical Organic Chemistry, vol.36, no.12, 2023 (SCI-Expanded)
- IX. **Synthesis and Characterization of Reduced Graphene Oxide/Rhodamine 101 (rGO-Rh101) Nanocomposites and Their Heterojunction Performance in rGO-Rh101/p-Si Device Configuration**
Batir G. G., ARIK M., Caldiran Z., TÜRÜT A., AYDOĞAN Ş.
JOURNAL OF ELECTRONIC MATERIALS, vol.47, no.1, pp.329-336, 2018 (SCI-Expanded)
- X. **Pyronin B-Graphene Oxide-Based Turn-On Fluorescent Sensors for Fe³⁺ in an Aqueous Medium: Synthesis and Living Cell Application**
Batir G. G., GEDİKLİ S., ARIK M.
CHEMISTRYSELECT, vol.2, no.33, pp.10889-10894, 2017 (SCI-Expanded)
- XI. **The electrical conductivity properties of polythiophene/TiO₂ nanocomposites prepared in the presence of surfactants**
Uygun A., TÜRKOĞLU O., Sen S., Ersoy E., Yavuz A. G., Batir G. G.
CURRENT APPLIED PHYSICS, vol.9, no.4, pp.866-871, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **Photocatalysis and adsorption coupling in S-scheme K and P doped g-C₃N₄/GO/MgFe₂O₄ photocatalyst for enhanced degradation of Congo red dye**
Kumar R., Khan A. A. P., Sudhaik A., Sonu S., BATIR G. G., Singh P., Raizada P., Zayed M. E. M., Arshad M. N., Alzahrani K. A.
Nano Express, vol.6, no.1, 2025 (ESCI)
- II. **Preparation and Characterization Novel Edible Nanocomposite Films Based on Sodium Alginate and Graphene Nanoplatelet, via Box-Behnken Design**
TAŞKIN ÇAKICI G., BATIR G. G., YOKUŞ A.
Arabian Journal for Science and Engineering, vol.49, no.1, pp.285-298, 2024 (Scopus)
- III. **Suda Çözünebilir Grafen/Boyar Madde Kompozitlerinin Spektroskopik Özelliklerinin İncelenmesi**
BATIR G. G., ARIK M.
İğdir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.12, no.2, 2022 (Peer-Reviewed Journal)

Books

- I. **Kapsamlı Membran Bilimi ve Yaşamımızdaki Yeri**
Göksel Saraç M., Batır G. G., Uzun D., Bekci H., Taşkın Çakıcı G. (Editor)
Nobel Yayın Dağıtım, Ankara, 2021
- II. **İnorganik Membranlar**
Batır G. G.
in: Kapsamlı Membran Bilimi ve Yaşamımızdaki Yeri, Gülşen Taşkın Çakıcı, Editor, Nobel Yayın Dağıtım, Ankara, pp.33-56, 2021

Papers Published in Refereed Scientific Meetings

- I. **Tepki Yüzey Metodolojisi Yöntemini Kullanarak Deneysel- İstatistiksel Yaklaşımla Sodyum Aljinat/grafen Nanoplatelet Çözeltilerinin Absorbans ve Floresans Özelliklerinin Değerlendirilmesi**
Batır G. G., Taşkın Çakıcı G.
6. Uluslararası Akademik Araştırmalar Kongresi, Ankara, Turkey, 23 - 25 August 2021, pp.82-91

- II. **Sodyum Aljinat/grafen Nanoplatelet Nanokompozit Membranların Hazırlanması ve Karakterizasyonu**
Taşkın Çakıcı G., Batır G. G.
11. Uluslararası Bilimsel Araştırmalar Kongresi - Fen ve Mühendislik Bilimleri, Ankara, Turkey, 20 - 21 August 2021, pp.49-57
- III. **Investigation of The Effects of Some Nanoparticules on Human Carbonic Anhydras I and II**
bulmuş a., ŞENTÜRK M., BATIR G. G., ŞENGİL İ. A.
4th CHEMISTRY INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL APPLIED SCIENCE, 19 - 22 June 2019
- IV. **Investigation of Photophysical Properties of Water-Soluble Graphene / Fluorescein and Graphene/ Eosin Y Dye Composites**
BATIR G. G., ARIK M.
3rd INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL APPLIED SCIENCES, 9 - 12 May 2018
- V. **DYE GRAPHENE OXIDE NANOCOMPOSITES AND THEIR SENSOR APPLICATION**
BATIR G. G., MERAL K., ARIK M.
International Journal of Arts and Sciences, International Conference for Physical, Life and Health Sciences, 23 - 26 May 2016
- VI. **Suda Çözünebilir Grafen Rhodamine 101 Kompozitlerinin Hazırlanması**
BATIR G. G., ARIK M., MERAL K.
IV. Fiziksel Kimya Kongresi, Turkey, 5 - 08 June 2014
- VII. **Electrochemical synthesis and characterization of poly 3 2 5 dimethyl 4 bromo phenyl thiophene and improvement as glucose biosensor**
BATIR G. G., ÖKSÜZ A., ŞEN GÜR SOY S.
The 238th ACS National Meeting, 16 - 20 August 2009
- VIII. **Characterization of polythiophene NaY PTh NaY nanostructure synthesized in presence of anionic surfactant**
kaya n., BARDAKÇI B., ŞEN GÜR SOY S., BATIR G. G., ÖKSÜZ A., aslan e.
4. Ulusal Nanobilim ve Nanoteknoloji Konferansı, Turkey, 9 - 13 June 2008
- IX. **Synthesis of Poly 2 ethylaniline P2EANI composites using nano Fe2O3 and nano Fe3O4**
BATIR G. G., ŞEN GÜR SOY S., ÖKSÜZ A., hrbac j., aslan e., yavuz a. g.
4. Ulusal Nanobilim ve Nanoteknoloji Konferansı, Turkey, 9 - 13 June 2008
- X. **Preparation of polyfuran 13X PFu 13X nanostructures by oxidative chemical polymerization**
aslan e., ŞEN GÜR SOY S., BARDAKÇI B., BATIR G. G., ÖKSÜZ A., kaya n.
4. Ulusal Nanobilim ve Nanoteknoloji Konferansı, Turkey, 9 - 13 June 2008
- XI. **İletken Polimer Demir Oksit Nanokompozitlerinin Sentezi ve Özellikleri**
ÖKSÜZ A., ŞEN GÜR SOY S., hrbac j., BATIR G. G., aslan e., yavuz a. g.
II. Ulusal Polimer Bilim ve Teknoloji Kongresi ve Sergisi, Turkey, 30 April - 02 May 2008
- XII. **Glucose Biosensor Based on Chemical, Electrochemical and Atmospheric Plasma Polymerized Poly-[N-sübstituted Pyrrole]**
ÖKSÜZ A., ŞEN GÜR SOY S., ÖKSÜZ L., BATIR G. G., yavuz a. g., GÜLEÇ A.
Advances in Polymer Science and Technology, 28 - 31 January 2008

Supported Projects

Batır G. G., Project Supported by Other Official Institutions, Gaz sensörü için suda çözünebilir grafen oksit sentezi, 2014 - 2015

Metrics

Publication: 28

Citation (WoS): 59

Citation (Scopus): 108

H-Index (WoS): 3

H-Index (Scopus): 3

Scholarships

Gaz sensörü için suda çözünebilir grafen oksit sentezi, TUBITAK, 2014 - 2015

Non Academic Experience

Sebat Gülyağı Ve Uçucu Yağlar Kozmetik İnşaat Makine Turizm San. ve Tic. Ltd. Şti., kimyager