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Education

Post Doctorate, Ontario Tech University, Clean Energy Research Laboratory, Faculty of Engineering and Applied Science, Canada 2024 - Continues
Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Kimya/Analitik Kimya, Turkey 2013 - 2018
Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Kimya/Analitik Kimya, Turkey 2011 - 2013
Associate Degree, Anadolu University, Open Educatıon Faculty, Department Of Foreıgn Trade, Turkey 2009 - 2012
Undergraduate, Anadolu University, Fen Edebiyat Fakültesi, Kimya, Turkey 2005 - 2010

Dissertations

Doctorate, Elektrokimyasal Grafen Elektrot Sentezi ve Vanadyum Redoks Akışkan Batarya Sistemlerinde Kullanımının Araştırılması , Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Kimya/Analitik Kimya, 2018
Postgraduate, L- Tirozin' in Magnezyum ve Alüminyum Komplekslerinin Sentezi, Karakterizasyonu ve Potansiyometrik Oluşum Sabitlerinin Tayini, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Kimya/Analitik Kimya, 2013

Research Areas

Energy storage technologies, Hydrogen Technologies and Fuel Cells, Advanced Energy Technologies, Material Characterization, Analytical Chemistry, Electromagnetic Methods, nanocomposites

Academic Positions

Assistant Professor, Yildiz Technical University, Clean Energy Technologies Institute, 2025 - Continues
Lecturer PhD, Yildiz Technical University, Rectorate, Rectorate, 2018 - 2025
Expert, Yildiz Technical University, Rectorate, Rectorate, 2017 - 2018

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XIII. **Cyclic voltammetric preparation of graphene-coated electrodes for positive electrode materials of**

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Ersozoglu M. G., Gürsu H., Gumrukcu S., Sarac A. S., Şahin Y.
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Arvas M. B., Gürsu H., Gençten M., Şahin Y.
3. ULUSAL KARBON KONFERANSI, İstanbul, Turkey, 11 - 12 March 2021, pp.1

V. **A New, Environmentally Friendly, Fast and Highly Efficient Electrochemical Method to Produce Heteroatom-Doped Graphene Electrode and Powder At Room Temperature**
Şahin Y., Gürsu H., Gençten M.
3. ULUSAL KARBON KONFERANSI, İstanbul, Turkey, 11 - 12 March 2021, pp.1

VI. **A Novel Electrochemical Approach for the Preparetion of Nitrogen Doped Graphene**
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INTERNATIONAL MATERIALS TECHNOLOGIES AND METALLURGY CONFERENCE 2019, İstanbul, Turkey, 31 October - 01 November 2019, pp.280, (Summary Text)

VII. **Electrochemical Preparation of Sulphur-Doped Graphene Oxide Electrodes and Their Vanadium Redox Battery Application**
Ersözoğlu M. G., Gürsu H., Gençten M., Şahin Y.
World Energy Strategies Congress and Exhibition 2019 (WESCE'19), İstanbul, Turkey, 26 - 28 August 2019, pp.1

VIII. **Boehmite as Inorganic Additive for Positive Electrolyte of Vanadium Redox Battery**
GENÇTEN M., GÜRSU H., ŞAHİN Y.
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IX. **Organic Based Additives for Vanadium Redox Battery Systems**
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8TH BLACK SEA BASIN CONFERENCE ON ANALYTICAL CHEMISTRY (8th BBCAC), İstanbul, Turkey, 09 May 2018, pp.1

X. **Investigation of over oxidized graphite based electrodes for vanadium redox battery**
GÜRSU H., GENÇTEN M., ŞAHİN Y.
2nd International Symposium on Materials for Energy Storage and Conversion (mESC-IS 2017), Nevşehir, Turkey, 26 - 28 September 2017

XI. **Electrochemical investigation the effects of an organic solvent on a VRB**
GENÇTEN M., GÜRSU H., ŞAHİN Y.
2nd International Symposium on Materials for Energy Storage and Conversion (mESC-IS 2017), 26 - 28 September 2017

XII. **The effects of boroxide on the electrochemical behaviors of a VRB**
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2nd International Symposium on Materials for Energy Storage and Conversion (mESC-IS 2017), Nevşehir, Turkey, 26 - 28 September 2017

XIII. **Synthesis of polypyrrole modified graphite based electrodes for vanadium redox battery**
GÜRSU H., GENÇTEN M., ŞAHİN Y.
2nd International Symposium on Materials for Energy Storage and Conversion (mESC-IS 2017), Nevşehir, Turkey, 26 - 28 September 2017

XIV. **A novel inorganic additive for vanadium redox flow battery**
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XVI. **THE EFFECT OF ALUMINA ON THE POSITIVE ELECTROLYTE FOR VANADIUM REDOX FLOW BATTERY**

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XX. **Investigation of the concentration effect of V V ion on vanadium redox battery system by cyclic voltammetric and electrochemical impedimetric methods**
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XXII. **Preparation of Zinc-phthalocyanine Modified Polypyrole Nanofiber Elektrode**
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XXIII. **Determination of Dopamine by Overoxidized Nanofiber Structure Polypyrrole Modified Pencil Graphite Electrode**
GÜRSU H., ŞAHİN Y.
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XXIV. **L-Tirozin'in Magnezyum Kompleksinin Fotofiziksel Özellikleri**
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Funded Projects

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GÜRSU H., ŞAHİN Y., CEYLAN ERDOĞAN D., ERSÖZOĞLU M. G., KAHRAMAN Y., Project Supported by Higher Education Institutions, Yenilikçi Karbon Fiber Boyutlandırma Prosesi Tasarımı ve Uygulaması, 2023 - Continues

TUBITAK Project, Development of Innovative Reversible Electrolyzer and Fuel Cell System for Green Hydrogen with Novel Electrocatalysts, 2024 - 2025

Esentürk Güzel İ., Büyükkayhan D., Şahin Y., Döşler S., Gürsu H., Project Supported by Higher Education Institutions, Yenidoğan Göbek Çevresi Enfeksiyonlarına Yönelik Antimikrobiyal İlaç İçeren Topikal Nanolif Formülasyonlarının

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Limited, HMY Kimya Enerji Danışmanlık Sanayi Ve Ticaret Limited Şirketİ, 25 May 2015, Co-Founder