

Lect. PhD ERHAN KARACA

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Biography

Research Areas: Supercapacitors and their applications, Conducting Polymers, Characterization studies, Corrosion Studies, Thin Section & Sample Preparation for Microscopy Analysis, Vanadium redox flow batteries and their integration with photovoltaic systems

Research Areas

Chemistry, Analytical Chemistry, Electromagnetic Methods, Electrochemistry, Natural Sciences

Academic Titles / Tasks

Lecturer, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2018 - Continues

Lecturer, Kütahya Dumlupınar University, SEM ve XRD Operator, 2013 - 2018

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Room temperature electrosynthesis of TiO_{2n-1} film and its bilayer with PNMPy on mild steel for corrosion protection in sulphuric acid**
Pekmez N. O. , Ugur M., KARACA E., ERTEKİN Z., PEKMEZ K.
ELECTROCHIMICA ACTA, vol.376, 2021 (Journal Indexed in SCI)
- II. **Memristive behavior of TiO_x obtained via Pb(II)-assisted anodic oxidation process**
GÖKCEN D., Senturk O., Karaca E., Pekmez N. O. , PEKMEZ K.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.6, pp.5733-5743, 2019 (Journal Indexed in SCI)
- III. **An Enzyme-free H_2O_2 Sensor Based on Poly(2-Aminophenylbenzimidazole)/Gold Nanoparticles Coated Pencil Graphite Electrode**
Teker M. S. , KARACA E., Pekmez N. O. , Tamer U., PEKMEZ K.
ELECTROANALYSIS, vol.31, no.1, pp.75-82, 2019 (Journal Indexed in SCI)
- IV. **One-step electrosynthesis of polypyrrole/ PbO_x composite in acetonitrile as supercapacitor electrode material**
Karaca E., GÖKCEN D., Pekmez N. O. , PEKMEZ K.
SYNTHETIC METALS, vol.247, pp.255-267, 2019 (Journal Indexed in SCI)
- V. **Electrosynthesis of polypyrrole-vanadium oxide composites on graphite electrode in acetonitrile in the presence of carboxymethyl cellulose for electrochemical supercapacitors**
KARACA E., PEKMEZ K., Pekmez N. O.
ELECTROCHIMICA ACTA, vol.273, pp.379-391, 2018 (Journal Indexed in SCI)

- VI. **Charge-Transfer Complex of p-Aminodiphenylamine with Maleic Anhydride: Spectroscopic, Electrochemical, and Physical Properties**
KARACA E., Can H., BOZKAYA U., Pekmez N. O.
CHEMPHYSICHEM, vol.17, no.13, pp.2056-2065, 2016 (Journal Indexed in SCI)
- VII. **Galvanostatic deposition of polypyrrole in the presence of tartaric acid for electrochemical supercapacitor**
KARACA E., PEKMEZ N. O. , PEKMEZ K.
ELECTROCHIMICA ACTA, vol.147, pp.545-556, 2014 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **One-step electrosynthesis of polypyrrole/PbOx composite in acetonitrile as supercapacitor electrode material**
KARACA E., GÖKCEN D., ÖZÇİÇEK N., PEKMEZ K.
Electrochemistry Conference 2019, İstanbul, Turkey, 11 - 13 September 2019
- II. **Memristive Property of TiOx Deposited by Catalyzed Anodization Process**
Gul E., GÖKCEN D., Senturk O., KARACA E., Özçiçek Pekmez N., PEKMEZ K.
6th Nano Today Conference, 16 - 20 June 2019
- III. **Electrodeposition of Polypyrrole containing Manganous ions in Acetonitrile Solution on pencil graphite electrode for Electrochemical Supercapacitor**
KARACA E., PEKMEZ K., ÖZÇİÇEK N.
5th International Symposium on Enhanced Electrochemical Capacitors, 10 - 14 July 2017
- IV. **Galvanostatic Deposition of Polypyrrole Cobalt Perchlorate on pencil graphite electrode in the presence of graphene for Electrochemical Supercapacitor**
KARACA E., ÖZÇİÇEK N., PEKMEZ K.
3rd Emerging 2D Materials & Graphene Conference from Laboratory to Industry 2016, İstanbul, Turkey, 20 - 21 November 2016

Citations

Total Citations (WOS):71

h-index (WOS):5

Scholarships

2211 - Yurt İçi Lisansüstü Burs Programı, TUBITAK, 2013 - 2019