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International Researcher IDs

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Education Information

Doctorate, Hacettepe University, Fen Bilimleri, Turkey 1987 - 1992

Postgraduate, Hacettepe University, Fen Bilimleri, Kimya, Turkey 1985 - 1987

Undergraduate, Hacettepe University, Fen Fakültesi, Kimya, Turkey 1977 - 1982

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Chemistry, Analytical Chemistry, Electromagnetic Methods, Natural Sciences

Academic Titles / Tasks

Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2003 - Continues

Associate Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 1998 - 2003

Assistant Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 1996 - 1998

Research Assistant, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 1983 - 1996

Supervised Theses

ÖZÇİÇEK N., Yumuşak çelik üzerine 3-aminofenilboronik asit ve pirol'ün elektrokimyasal kopolimerizasyonu ve onun korozyon performansı, Postgraduate, H.SARIARSLAN(Student), 2016

ÖZÇİÇEK N., Enerji depolanması için tartarik asit katkılanmış polipirol bazlı süper kapasitör malzemelerinin sentezi, Postgraduate, E.KARACA(Student), 2013

Published journal articles indexed by SCI, SSCI, and AHCI

1. A facile one-step electrosynthesis of polypyrrole/nano-SbO_x composite for supercapacitors

Çekiç M. G., Karaca E., Pekmez N.

SYNTHETIC METALS, vol.293, no.293, pp.117262-117279, 2023 (SCI-Expanded)

- II. **Cytotoxic, apoptotic and necrotic effects of starch coated copper nanoparticles on Capan 1 pancreatic cancer cells**
Ilbasmis-Tamer S., Turk M., Evran Ş., BOYACI İ. H., Ciftci H., TAMER U.
Journal of Drug Delivery Science and Technology, vol.79, 2023 (SCI-Expanded)
- III. **The use of some sulfonic acids for improving aluminum current collector resistance**
KARACA E., Pekmez N., PEKMEZ K.
Materials Today Communications, vol.33, 2022 (SCI-Expanded)
- IV. **A simple in situ deposition of metal alloys on graphite surface based on Sb, Bi, Cu, and Sn as an electrocatalyst for V-3(+)/V-2(+) redox reaction**
ÖZÇELİK N., ERTEKİN Z., Pekmez N., PEKMEZ K.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.15, pp.22001-22013, 2022 (SCI-Expanded)
- V. **Nano MnOx encapsulated pyrrole-carbazole copolymer and polyvinyl chloride/carbon-coated flexible electrodes for solid-state supercapacitor cell**
KARACA E., Ozgenc G., Pekmez N., PEKMEZ K.
JOURNAL OF ENERGY STORAGE, vol.55, 2022 (SCI-Expanded)
- VI. **4.2 V Stack of metal oxide-polypyrrole-based composite electrodes and their power management**
KARACA E., GÖKCEN D., Pekmez N., PEKMEZ K., Uğur M., Aksu N. D.
International Journal of Energy Research, vol.44, no.11, pp.8666-8680, 2020 (SCI-Expanded)
- VII. **Evaluation of corrosion resistance of Co-Cr alloys fabricated with different metal laser sintering systems**
TUNA S. H., KARACA E., Aslan I., Pekkan G., Pekmez N.
Journal of Advanced Prosthodontics, vol.12, no.3, pp.114-123, 2020 (SCI-Expanded)
- VIII. **One-step electrochemical deposition of thin film titanium suboxide in basic titanil sulfate solution at room temperature**
ERTEKİN Z., Pekmez N., PEKMEZ K.
JOURNAL OF SOLID STATE ELECTROCHEMISTRY, vol.24, no.4, pp.975-986, 2020 (SCI-Expanded)
- IX. **Galvanostatic synthesis of nanostructured Ag-Ag₂O dispersed PPy composite on graphite electrode for supercapacitor applications**
KARACA E., GÖKCEN D., Pekmez N., PEKMEZ K.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.44, pp.158-170, 2020 (SCI-Expanded)
- X. **Electrochemical synthesis of PPy composites with nanostructured MnOx, CoOx, NiOx, and FeOx in acetonitrile for supercapacitor applications**
Karaca E., GÖKCEN D., Pekmez N., PEKMEZ K.
ELECTROCHIMICA ACTA, vol.305, pp.502-513, 2019 (SCI-Expanded)
- XI. **Memristive behavior of TiOx obtained via Pb(II)-assisted anodic oxidation process**
GÖKCEN D., Senturk O., Karaca E., Pekmez N., PEKMEZ K.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.6, pp.5733-5743, 2019 (SCI-Expanded)
- XII. **One-step electrosynthesis of polypyrrole/PbOx composite in acetonitrile as supercapacitor electrode material**
Karaca E., GÖKCEN D., Pekmez N., PEKMEZ K.
SYNTHETIC METALS, vol.247, pp.255-267, 2019 (SCI-Expanded)
- XIII. **An Enzyme-free H₂O₂ Sensor Based on Poly(2-Aminophenylbenzimidazole)/Gold Nanoparticles Coated Pencil Graphite Electrode**
Teker M. S., KARACA E., Pekmez N., Tamer U., PEKMEZ K.
ELECTROANALYSIS, vol.31, no.1, pp.75-82, 2019 (SCI-Expanded)
- XIV. **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.

- ELECTROCHIMICA ACTA, vol.273, pp.379-391, 2018 (SCI-Expanded)
- XV. **Investigation of the behavior of hydrogen-bonded phenolic compounds and their determination by using poly(vinylferrocenium)-polyaniline composite film**
KAVANOZ M., Pekmez N. O., Can M.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.133, no.27, 2016 (SCI-Expanded)
- XVI. **Charge-Transfer Complex of p-Aminodiphenylamine with Maleic Anhydride: Spectroscopic, Electrochemical, and Physical Properties**
KARACA E., Can H., BOZKAYA U., Pekmez N.
CHEMPHYSICHEM, vol.17, no.13, pp.2056-2065, 2016 (SCI-Expanded)
- XVII. **Corrosion resistance assessment of Co-Cr alloy frameworks fabricated by CAD/CAM milling, laser sintering, and casting methods**
TUNA S. H., Pekmez N., KÜRKCÜOĞLU I.
JOURNAL OF PROSTHETIC DENTISTRY, vol.114, no.5, pp.725-734, 2015 (SCI-Expanded)
- XVIII. **Galvanostatic deposition of polypyrrole in the presence of tartaric acid for electrochemical supercapacitor**
KARACA E., PEKMEZ N., PEKMEZ K.
ELECTROCHIMICA ACTA, vol.147, pp.545-556, 2014 (SCI-Expanded)
- XIX. **The electrochemical copolymerization of pyrrole and bithiophene on stainless steel in the presence of SDS in aqueous medium and its anticorrosive performance**
Pekmez N., Cinkilli K., ZEYBEK B.
PROGRESS IN ORGANIC COATINGS, vol.77, no.8, pp.1277-1287, 2014 (SCI-Expanded)
- XX. **Electropreparation of (+/-)-10-Camphorsulfonate-Doped Poly(o-phenylenediamine) in Acetonitrile and Its Use in Determination of Glucose**
Zeybek B., Pekmez N., KILIÇ E.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.131, no.3, 2014 (SCI-Expanded)
- XXI. **An enzyme free potentiometric detection of glucose based on a conducting polymer poly (3-aminophenyl boronic acid-co-3-octylthiophene)**
Ciftci H., Tamer U., SEN TEKER M., Pekmez N. O.
ELECTROCHIMICA ACTA, vol.90, pp.358-365, 2013 (SCI-Expanded)
- XXII. **Development of an Amperometric Enzyme Electrode based on Poly(o-Phenylenediamine) for the Determination of Total Cholesterol in Serum**
KOYUNCU ZEYBEK D., ZEYBEK B., Pekmez N., PEKYARDIMCI Ş., KILIÇ E.
JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY, vol.23, no.12, pp.2222-2231, 2012 (SCI-Expanded)
- XXIII. **Fabrication and characterization of poly(vinylferrocenium) perchlorate/poly(3,4-ethylenedioxythiophene) composite-coated electrode in methylene chloride**
Sen Teker M., TAMER U., Pekmez N.
SYNTHETIC METALS, vol.162, pp.924-930, 2012 (SCI-Expanded)
- XXIV. **Poly(vinylferrocenium) perchlorate-polyaniline composite film-coated electrode for amperometric determination of hydroquinone**
ÖZÇİÇEK N.
JOURNAL OF SOLID STATE ELECTROCHEMISTRY, vol.16, pp.1175-1186, 2012 (SCI-Expanded)
- XXV. **Carbon nanotubes/alizarin red S-poly(vinylferrocene) modified glassy carbon electrode for selective determination of dopamine in the presence of ascorbic acid**
Sen M., Tamer U., Pekmez N.
JOURNAL OF SOLID STATE ELECTROCHEMISTRY, vol.16, no.2, pp.457-463, 2012 (SCI-Expanded)
- XXVI. **Electrochemical synthesis of bilayer coatings of poly(N-methylaniline) and polypyrrole on mild steel and their corrosion protection performances**
Zeybek B., Pekmez N., KILIÇ E.
ELECTROCHIMICA ACTA, vol.56, no.25, pp.9277-9286, 2011 (SCI-Expanded)
- XXVII. **ELECTROCHEMICAL PREPARATION OF POLY(VINYLFERROCENIUM)-PERCHLORATE-POLYANILINE COMPOSITE-MODIFIED PLATINIUM ELECTRODE IN METHYLENE CHLORIDE**

Kavanoz M., ŞEN M., Pekmez N. O.

COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS, vol.76, no.12, pp.1855-1877, 2011 (SCI-Expanded)

- XXVIII. **The influence of the pure metal components of four different casting alloys on the electrochemical properties of the alloys**
TUNA S. H., Pekmez N., KEYF F., Canli F.
DENTAL MATERIALS, vol.25, no.9, pp.1096-1103, 2009 (SCI-Expanded)
- XXIX. **THE ELECTROCHEMICAL PROPERTIES OF FOUR DENTAL CASTING SUPRASTRUCTURE ALLOYS COUPLED WITH TITANIUM IMPLANTS**
TUNA S. H., Pekmez N., KEYF F., Canli F.
JOURNAL OF APPLIED ORAL SCIENCE, vol.17, no.5, pp.467-475, 2009 (SCI-Expanded)
- XXX. **Polybithiophene and its bilayers with polyaniline coatings on stainless steel by electropolymerization in aqueous medium**
Pekmez N., Abaci E., Cinkilli K., Yagan A.
PROGRESS IN ORGANIC COATINGS, vol.65, no.4, pp.462-468, 2009 (SCI-Expanded)
- XXXI. **Chemical polymerization of aniline using periodic acid in acetonitrile**
Can M., Uzun S., Pekmez N.
SYNTHETIC METALS, vol.159, no.14, pp.1486-1490, 2009 (SCI-Expanded)
- XXXII. **Electrochemical synthesis of poly(N-methylaniline) on an iron electrode and its corrosion performance**
Yagan A., Pekmez N., Yildiz A.
ELECTROCHIMICA ACTA, vol.53, no.16, pp.5242-5251, 2008 (SCI-Expanded)
- XXXIII. **Poly (N-ethylaniline) coatings on 304 stainless steel for corrosion protection in aqueous HCl and NaCl solutions**
Yagan A., Pekmez N., Yildiz A.
ELECTROCHIMICA ACTA, vol.53, no.5, pp.2474-2482, 2008 (SCI-Expanded)
- XXXIV. **Poly(N-methylaniline) coatings on stainless steel by electropolymerization**
Yagan A., Pekmez N., Yildiz A.
CORROSION SCIENCE, vol.49, no.7, pp.2905-2919, 2007 (SCI-Expanded)
- XXXV. **Inhibition of corrosion of mild steel by homopolymer and bilayer coatings of polyaniline and polypyrrole**
Yagan A., Pekmez N., Yildiz A.
PROGRESS IN ORGANIC COATINGS, vol.59, no.4, pp.297-303, 2007 (SCI-Expanded)
- XXXVI. **Investigation of protective effect of poly(N-ethylaniline) coatings on iron in various corrosive solutions**
Yagan A., Pekmez N., Yildiz A.
SURFACE & COATINGS TECHNOLOGY, vol.201, pp.7339-7345, 2007 (SCI-Expanded)
- XXXVII. **Corrosion inhibition by poly (N-ethylaniline) coatings of mild steel in aqueous acidic solutions**
Yagan A., Pekmez N., Yildiz A.
PROGRESS IN ORGANIC COATINGS, vol.57, no.4, pp.314-318, 2006 (SCI-Expanded)
- XXXVIII. **Effect of electrolyte and monomer concentration on anticorrosive properties of poly(N-methylaniline) and poly(N-ethylaniline) coated mild steel**
Yagan A., Pekmez N., Yildiz A.
SYNTHETIC METALS, vol.156, pp.664-670, 2006 (SCI-Expanded)
- XXXIX. **Electropolymerization of poly(N-ethyl aniline) on mild steel: Synthesis, characterization and corrosion protection**
Yagan A., Pekmez N., Yildiz A.
ELECTROCHIMICA ACTA, vol.51, no.14, pp.2949-2955, 2006 (SCI-Expanded)
- XL. **Electropolymerization of poly(N-methylaniline) on mild steel: Synthesis, characterization and corrosion protection**
Yagan A., Pekmez N., Yildiz A.

- JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.578, no.2, pp.231-238, 2005 (SCI-Expanded)
- XL1. **Investigation of catalytic effects of the proton and Lewis acids on oligomerization and chemical polymerization of pyrrole**
Can M., Ozaslan H., Isildak O., Pekmez N., Yildiz A.
POLYMER, vol.45, no.20, pp.7011-7016, 2004 (SCI-Expanded)
- XLII. **Spectroelectrochemical investigations of aniline-thiophene copolymers in acetonitrile**
ÖZÇİÇEK N., Pekmez K., Holze R., Yildiz A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.90, no.12, pp.3417-3423, 2003 (SCI-Expanded)
- XLIII. **Increased stability of polythiophene in the presence of aniline in acetonitrile**
ÖZÇİÇEK N., Pekmez K., Holze R., Yildiz A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.89, no.3, pp.862-866, 2003 (SCI-Expanded)
- XLIV. **Theoretical investigation of the proton effect on electropolymerization of aniline**
Can M., Pekmez N., Yildiz A.
POLYMER, vol.44, no.8, pp.2585-2588, 2003 (SCI-Expanded)
- XLV. **Electrocatalysis of polyaniline formation by PbO₂ in acetonitrile**
Abaci S., Pekmez K., Pekmez N., Yildiz A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.87, no.4, pp.599-605, 2003 (SCI-Expanded)
- XLVI. **Voltammetric determination of cilazapril in pharmaceutical formulations**
Tamer U., ÖZÇİÇEK N., Atay O., Yildiz A.
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, vol.29, pp.43-50, 2002 (SCI-Expanded)
- XLVII. **Electropolymerization of acetonitrile solutions containing aniline and thiophene**
Can M., PEKMEZ K., Pekmez N., Yildiz A.
Synthetic Metals, vol.104, no.1, pp.9-17, 1999 (SCI-Expanded)
- XLVIII. **Electropolymerization of thiophene with and without aniline in acetonitrile**
Özçiçek N.
TURKISH JOURNAL OF CHEMISTRY, vol.22, no.1, pp.47-54, 1998 (SCI-Expanded)

Articles Published in Other Journals

- I. **The effect of hydrogen bonding on the electroreduction behavior of aminobenzimidazoles**
Özçiçek N.
Acta chimica slovenica, vol.51, no.3, pp.1-10, 2004 (Scopus)
- II. **Electroreparation of polyaniline in the presence of anhydrous cuprous ions in acetonitrile**
Pekmez N., Yildiz A.
Journal of Electroanalytical Chemistry, vol.386, no.1-2, pp.121-126, 1995 (Scopus)
- III. **Electrochemical behavior of polyaniline films in acetonitrile**
Pekmez N., PEKMEZ K., Yildiz A.
Journal of Electroanalytical Chemistry, vol.370, no.1-2, pp.223-229, 1994 (Scopus)
- IV. **The effect of monomer and acid concentrations on electrochemical polyaniline formation in acetonitrile**
Pekmez N., PEKMEZ K., Arca M., Yildiz A.
Journal of Electroanalytical Chemistry, vol.353, no.1-2, pp.237-246, 1993 (Scopus)
- V. **The electro-oxidation of p-aminodiphenylamine in acetonitrile**
Pekmez N., PEKMEZ K., Yildiz A.
Journal of Electroanalytical Chemistry, vol.348, no.1-2, pp.389-398, 1993 (Scopus)

Papers Published in Refereed Scientific Meetings

- I. **One-step electrosynthesis of polypyrrole/PbO_x 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. Galvanostatic deposition of polypyrrole on pencil graphite electrode in the presence of vanadyl tetrafluoroborate and Triton-X 100 for electrochemical supercapacitor

KARACA E., ÖZÇİÇEK N., PEKMEZ K.

ISEE Cap 2017 5th International Symposium on Enhanced Electrochemical Capacitors, 10 - 14 July 2017

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

V. A new charge transfer Complex of p aminodiphenyldiamne with maleic anhydride

KARACA E., KAPLAN CAN H., ÖZÇİÇEK N.

AACD 2016, International Conference 10th Aegean Chemistry days, Çanakkale, Turkey, 29 September - 02 October 2016

VI. A New Charge Transfer Complex of P Aminodiphenyldiamine with Maleic Anhydride

KARACA E., KAPLAN CAN H., ÖZÇİÇEK N.

10th Aegean Analytical Chemistry Days, Ankara, Turkey, 29 September - 02 October 2016

Supported Projects

ÖZÇİÇEK N., Project Supported by Higher Education Institutions, Yenilikçi Elektrokimyasal Kapasitörlerin İncelenmesi ve Uygulamaları, 2017 - 2017

ÖZÇİÇEK N., Project Supported by Higher Education Institutions, Susuz ortamda karbon elektrot temelli pil tipi elektrokimyasal süperkapasitör aktif elektrotların incelenmesi, 2017 - 2017

ÖZÇİÇEK N., Project Supported by Higher Education Institutions, Bazı Benzimidazol bileşiklerinin Cu yüzeyi üzerinde korozyondan koruma özelliklerinin incelenmesi, 2016 - 2016

ÖZÇİÇEK N., KARACA E., SARIARSLAN H., Project Supported by Higher Education Institutions, Yumuşak Çelik Üzerine Poli3Aminofenilboronik asit ve Poli3Aminofenilboronik asitPiról Kopolimerinin Elektrosentezi Karakterizasyonu ve Korozyon Performansı, 2016 - 2016

ÖZÇİÇEK N., Project Supported by Higher Education Institutions, İletken polimer bazlı kompozit elektrot malzemelerinin elektrokimyasal empedans spektroskopisi yoluyla karakterizasyonu, 2015 - 2016

ÖZÇİÇEK N., Project Supported by Higher Education Institutions, (Aminofenil)benzimidazol lerin Sentezi, Elektropolimerizasyonu ve İletken Polimerlerin Monomerleri ile Kopolimerizasyonu, 2014 - 2015

Metrics

Publication: 64

Citation (WoS): 763

Citation (Scopus): 1122

H-Index (WoS): 17

H-Index (Scopus): 21