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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

Advising 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 kapasitor malzemelerinin sentezi, Postgraduate, E.KARACA(Student), 2013

Published journal articles indexed by SCI, SSCI, and AHCI

- I. A facile one-step electrosynthesis of polypyrrole/nano-Sb₂O₃ 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 MnO_x 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 titanyl 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 MnO_x, CoO_x, NiO_x, and FeO_x 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 TiO_x 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/PbO_x 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.
CHEMPHYSCHM, 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., KÜRKÇÜOĞLU 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 PLATINUM ELECTRODE IN METHYLENE CHLORIDE

- Kavanoz M., SEN 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)
- XLI. **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., Özçιçek 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**
Özçιçek 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**
Özçιçek N.
Acta chimica slovenica, vol.51, no.3, pp.1-10, 2004 (Scopus)
- II. **Electropreparation 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)

Refereed Congress / Symposium Publications in Proceedings

- 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 Manganese 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 aminodiphenyldiamine 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 asitPirol 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, Elektropolymerizasyonu ve İletken Polimerlerin Monomerleri ile Kopolimerizasyonu, 2014 - 2015

Metrics

Publication: 63

Citation (WoS): 763

Citation (Scopus): 1122

H-Index (WoS): 17

H-Index (Scopus): 21