

## Prof. Esma Sezer

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### Education Information

Doctorate, Istanbul Technical University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1991 - 1997

Postgraduate, Istanbul Technical University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1989 - 1991

### Foreign Languages

English

### Dissertations

Doctorate, N-Karbazollerin yükseltgen polimerizasyon, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 1997

Postgraduate, Diğer metallerle karşılaştırmalı olarak piritin (FeS<sub>2</sub>) korozyon davranışı üzerinde bazı maddelerin etkisi, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 1991

### Research Areas

Basic Sciences, Chemistry, Physical Chemistry, Electrochemistry, Conductive Polymers, Polymeric Materials

### Academic Titles / Tasks

Professor, Istanbul Technical University, Fen-Edebiyat, Kimya, 1991 - Continues

### Academic and Administrative Experience

İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2005 - 2008

### Jury Memberships

Associate Professor Exam, Doçentlik Sınav Jürisi, ÜAK, Nisan 2016, İstanbul Teknik Üniversitesi, April, 2016  
Associate Professor Exam, Doçentlik Sınav Jürisi, ÜAK, Ekim 2013, İstanbul Teknik Üniversitesi, October, 2013  
Associate Professor Exam, Doçentlik Sınav Jürisi, ÜAK, Ekim 2013, İstanbul Teknik Üniversitesi, October, 2013  
Associate Professor Exam, Doçentlik Sınav Jürisi, ÜAK, Ekim 2013, İstanbul Teknik Üniversitesi, October, 2013  
Associate Professor Exam, Doçentlik Sınav Jürisi, ÜAK, Mayıs 2013, İstanbul Teknik Üniversitesi, May, 2013

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Solid-State Supercapacitor Constructed with Organic Electrochromic Electrodes Based on Dithienothiophene and 3,4-Ethylenedioxythiophene**  
Topal S., Demirtas I., Ertas E., Ustamehmetoğlu B., Sezer E., Öztürk T.  
ACS Applied Energy Materials, vol.6, no.22, pp.11532-11540, 2023 (SCI-Expanded)
- II. **A Microporous Bifunctional Electrochromic Energy-Storage Polymer of Thiophene, Triphenylamine, and Thienothiophene**  
Topal S., Topal S., Suna G., Ustamehmetoğlu B., Öztürk T., Sezer E.  
Energy Technology, vol.11, no.6, 2023 (SCI-Expanded)
- III. **Ultrasound and Pressure Assisted Solid-State Polymerization of Carbazole**  
Avcı Yayla I. İ., Sezer E., Ustamehmetoğlu B.  
ChemistrySelect, vol.8, no.15, 2023 (SCI-Expanded)
- IV. **Smart copolymers of ditriphenylaminedithienothiophene with ethylenedioxythiophene for multicolor energy storage systems**  
Topal S., Karakaya O., Sezer E., Ustamehmetoğlu B., Öztürk T.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.15, pp.21979-21988, 2022 (SCI-Expanded)
- V. **Ultrasound phantom with solids mimicking cancerous tissue for needle breast biopsy**  
Avcı Yayla I. İ., Bilal M., Salmashoğlu A., Erçağ E., Sezer E., Ustamehmetoğlu B.  
TURKISH JOURNAL OF CHEMISTRY, vol.46, no.5, pp.1493-1503, 2022 (SCI-Expanded)
- VI. **Synthesize and characterization of sustainable natural fibers/ conductive polymer composites**  
Yazici P., Alkhateab B., Sezer E., KOÇAK E. D., Ustamehmetoğlu B.  
JOURNAL OF INDUSTRIAL TEXTILES, vol.51, no.5\_suppl, 2022 (SCI-Expanded)
- VII. **Electrochromic-Hybrid energy storage material consisting of triphenylamine and dithienothiophene**  
Topal S., Savlug Ipek O., Sezer E., Öztürk T.  
Chemical Engineering Journal, vol.434, 2022 (SCI-Expanded)
- VIII. **Synthesis and characterization of a series of conducting polymers based on indole and carbazole**  
Ergier M., Ustamehmetoğlu B., Sezer E.  
TURKISH JOURNAL OF CHEMISTRY, vol.46, no.5, pp.1677-1693, 2022 (SCI-Expanded)
- IX. **Synthesis and optoelectronic and charge storage characterizations of conducting polymers based on tetraphenylethylene and thienothiophenes**  
Topal S., Suna G., Ulukan P., Sezer E., Ozturk T.  
ELECTROCHIMICA ACTA, vol.392, 2021 (SCI-Expanded)
- X. **Synthesis and characterization of 3-(4-fluorophenyl)thieno[3,2-b]thiophene and 3,3'-(4-fluorophenyl)dithieno[3,2-b;2',3'-d]thiophene molecules**  
Topal S., Topal S., Ulukan P., Ustamehmetoğlu B., Öztürk T., Sezer E.  
ELECTROCHIMICA ACTA, vol.390, 2021 (SCI-Expanded)
- XI. **Synthesis, biocompatibility and gene encapsulation of poly(2-Ethyl 2-Oxazoline)-dioleoyl phosphatidylethanolamine (PEtOx-DOPE) and post-modifications with peptides and fluorescent dye coumarin**  
Gulyuz S., Bayram D., Ozkose U. U., Bolat Z. B., Kocak P., Saka O. M., Devrim B., Khalily M. P., Telci D., Sahin F., et al.  
INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, vol.70, no.14, pp.981-993, 2021 (SCI-Expanded)
- XII. **Synthesis and electropolymerization of 3-arylthieno[3,2-b]thiophenes and triphenylamine based**

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Topal S., Isci R., Sezer E., Öztürk T., Ustamehmetoğlu B.  
ELECTROCHIMICA ACTA, vol.389, 2021 (SCI-Expanded)

- XIII. **Capacitive properties of promising energy storage material based on thiophene containing perylenediimide polymer**  
Varol T. O., Topal S., Hakli O., Sezer E., ANIK Ü., Öztürk T.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.138, 2021 (SCI-Expanded)
- XIV. **In-situ synthesis of phthalocyanines on electrospun TiO<sub>2</sub> nanofiber by solvothermal process for photocatalytic degradation of methylene blue**  
Gumrukcu S., Özçeşmeci M., Sezer E., Ustamehmetoğlu B., Hamuryudan E.  
TURKISH JOURNAL OF CHEMISTRY, vol.45, pp.2034-2045, 2021 (SCI-Expanded)
- XV. **Surface characterization, electrochromic and capacitive properties of poly (N-(4-(4-thieno [3,2-b]thiophen-3-yl-phenyl) phenyl)-N-phenylbenzenamine) film**  
Topal S., Sezer E., EROĞLU M. S., Öztürk T.  
POLYMER, vol.209, 2020 (SCI-Expanded)
- XVI. **Selective Electrochemical Determination of Dopamine with Molecularly Imprinted Poly(Carbazole-co-Aniline) Electrode Decorated with Gold Nanoparticles**  
SAĞLAM Ş., Arman A., Uzer A., Ustamehmetoğlu B., Sezer E., APAK M. R.  
ELECTROANALYSIS, vol.32, no.5, pp.964-970, 2020 (SCI-Expanded)
- XVII. **Mild steel protection with tannic and polyaspartic acid in cooling systems**  
Sezer E., Ozturk I.  
ANTI-CORROSION METHODS AND MATERIALS, vol.66, no.5, pp.583-594, 2019 (SCI-Expanded)
- XVIII. **The synthesis and electrochemical behaviour of carbazole-substituted phthalocyanines**  
Yenilmez H. Y., Ustamehmetoğlu B., Sezer E., Bayir Z.  
JOURNAL OF SOLID STATE ELECTROCHEMISTRY, vol.22, no.2, pp.505-517, 2018 (SCI-Expanded)
- XIX. **Synthesis and Characterization of Dithienothiophene, Bithiazole and Thiophene Containing Polymer**  
Ustamehmetoğlu B., OSKEN I., Çınar M., Sezer E., KARACA E., Öztürk T.  
ELECTROCHIMICA ACTA, vol.227, pp.435-446, 2017 (SCI-Expanded)
- XX. **Synthesis and Electropolymerization of Bis(phenylthieno[3,2-b]thiophenes)- (4,4'-dinonyl-2,2'-bithiazole) co-monomer**  
Sezer E., OSKEN I., Çınar M., DEMIREL O., Ustamehmetoğlu B., Öztürk T.  
ELECTROCHIMICA ACTA, vol.222, pp.1592-1603, 2016 (SCI-Expanded)
- XXI. **Synthesis, Characterization and Electrochemical Polymerization of a Comonomer Bearing Thiophene and Imidazole: The Comparison of Impedance Behavior on Different Surfaces**  
Dolas H., Sezer E., SARAC A. S.  
ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY, vol.5, no.5, 2016 (SCI-Expanded)
- XXII. **The effect of reduction methods and stabilizer (PVP) on the properties of polyacrylonitrile (PAN) composite nanofibers in the presence of nanosilver**  
Uçar N., DEMIRSOY N., ONEN A., KARACAN I., KIZILDAG N., EREN O., VURUR O. F., SEZER E., Ustamehmetoglu B.  
JOURNAL OF MATERIALS SCIENCE, vol.50, no.4, pp.1855-1864, 2015 (SCI-Expanded)
- XXIII. **Combination of a poly(3,4-ethylene-dioxythiophene) electrode in the presence of sodium dodecyl sulfate with centri-voltammetry**  
Tepeli Y., Aslan S., Sezer E., Anik U.  
ANALYTICAL METHODS, vol.7, no.16, pp.6740-6746, 2015 (SCI-Expanded)
- XXIV. **Electrochemical impedance spectroscopy study of poly[3,5-dithiophene-2-ylidithieno[3,2-b;2',3'-d]thiophene] P(Th2DTT)**  
Osken I., SEZER E., ERTAS E., Öztürk T.  
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.726, pp.36-43, 2014 (SCI-Expanded)
- XXV. **Synthesis and Characterization of Ethycarbazole and Thiazole Containing Polymers**  
Sezer E.  
ELECTROCHIMICA ACTA, vol.122, pp.141-149, 2014 (SCI-Expanded)

- XXVI. **Centri-voltammetric dopamine detection**  
Sultan S. C., Sezer E., Tepeli Y., Anik U.  
RSC ADVANCES, vol.4, no.59, pp.31489-31492, 2014 (SCI-Expanded)
- XXVII. **Effects of functional groups of triple bonds containing molecules on nickel electroplating**  
Sezer E., Ustamehmetoglu B., KATIRCH R.  
TURKISH JOURNAL OF CHEMISTRY, vol.38, no.5, pp.701-715, 2014 (SCI-Expanded)
- XXVIII. **Electrochemical copolymerization of benzothiophene with thiophene**  
Ustamehmetoglu B., Demir F., SEZER E.  
PROGRESS IN ORGANIC COATINGS, vol.76, no.11, pp.1515-1521, 2013 (SCI-Expanded)
- XXIX. **Determination of nitroaromatic and nitramine type energetic materials in synthetic and real mixtures by cyclic voltammetry**  
Uzer A., SAGLAM S., TEKDEMIR Y., Ustamehmetoglu B., SEZER E., ERCAG E., APAK R.  
TALANTA, vol.115, pp.768-778, 2013 (SCI-Expanded)
- XXX. **Inhibition of pyrite corrosion and photocorrosion by MEKF-R modified carbazoles**  
Ustamehmetoglu B., SEZER E., KIZILCAN N., YAZICI P., TAYYAR S., SARAC A. S.  
PROGRESS IN ORGANIC COATINGS, vol.76, no.4, pp.533-540, 2013 (SCI-Expanded)
- XXXI. **Effects of a N,N-dimethyl-N-2-propenyl-2-propene-1-ammonium chloride-2-propenamide copolymer on bright nickel plating**  
Sezer E., Ustamehmetoglu B., KATIRCI R.  
SURFACE & COATINGS TECHNOLOGY, vol.213, pp.253-263, 2012 (SCI-Expanded)
- XXXII. **Voltammetric, electrochemical quartz crystal microbalance and in situ conductance studies of conducting polymers based on ethylenedioxythiophene and N-ethylcarbazole**  
Erginer M., SEZER E., USTARNEHMETOGLU B., HEINZE J.  
ELECTROCHIMICA ACTA, vol.67, pp.181-186, 2012 (SCI-Expanded)
- XXXIII. **Inhibition of the corrosion of stainless steel by poly-N-vinylimidazole and N-vinylimidazole**  
Oncul A., COBAN K., SEZER E., Şenkal B. F.  
PROGRESS IN ORGANIC COATINGS, vol.71, no.2, pp.167-172, 2011 (SCI-Expanded)
- XXXIV. **A novel EDOT-nonylbithiazole-EDOT based comonomer as an active electrode material for supercapacitor applications**  
Cebeci F. C., Sezer E., SARAC A. S.  
ELECTROCHIMICA ACTA, vol.54, no.26, pp.6354-6360, 2009 (SCI-Expanded)
- XXXV. **Copolymers of N-vinylcarbazole with Acrylic Acid, Itaconic Acid, and N-isopropylacrylamide: Synthesis, Determination of Monomer Reactivity Ratios, and Electrochemical Properties**  
Goekceoren A. T., Erbil C., Sezer E., SARAC A. S.  
INTERNATIONAL JOURNAL OF POLYMER ANALYSIS AND CHARACTERIZATION, vol.14, no.2, pp.140-159, 2009 (SCI-Expanded)
- XXXVI. **Voltammetric, EQCM, and in situ conductance studies of p- and n-dopable polymers based on ethylenedioxythiophene and bithiazole**  
Sezer E., SKOMPASKA M., HEINZE J.  
ELECTROCHIMICA ACTA, vol.53, no.15, pp.4958-4968, 2008 (SCI-Expanded)
- XXXVII. **Synthesis, electrochemical characterization and impedance studies on novel thiophene-nonylbithiazole-thiophene comonomer**  
Cebeci F. C., GEYIK H., Sezer E., SARAC A. S.  
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.610, no.2, pp.113-121, 2007 (SCI-Expanded)
- XXXVIII. **Voltammetric investigation of polyelectrolyte-Cu(II) complexes**  
Gokceoren A. T., ERBIL C., Sezer E.  
JOURNAL OF APPLIED ELECTROCHEMISTRY, vol.37, no.8, pp.941-948, 2007 (SCI-Expanded)
- XXXIX. **Synthesis and electrocoating of indole-thiophene comonomer on carbon fiber microelectrode, and surface topography by AFM**  
Sarac A. S., SARIOGLAN S. O., DZIOMBA T., Sezer E.  
EUROPEAN POLYMER JOURNAL, vol.43, no.8, pp.3392-3399, 2007 (SCI-Expanded)

- XL. Binary and ternary copper(II) complexes with NIPAAm/IA copolymers and aminoacids: Interpretation of UV-visible spectra and cyclic voltammograms**  
Erbil C., GOEKCEOEREN A. T., Sezer E.  
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.44, pp.525-534, 2007 (SCI-Expanded)
- XLII. Synthesis and electrochemical polymerization of N-ethylcarbazole-bis-3,4-ethylenedioxythiophene-N-ethylcarbazole comonomer**  
Sarac A. S., PARLAK E., Sezer E.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.103, no.2, pp.795-801, 2007 (SCI-Expanded)
- XLIII. Synthesis and electrochemical characterization of bis(3,4-ethylene-dioxythiophene)-(4,4'-dinonyl-2,2'-bithiazole) comonomer**  
Cebeci F. C., Sezer E., SARAC A. S.  
ELECTROCHIMICA ACTA, vol.52, no.5, pp.2158-2165, 2007 (SCI-Expanded)
- XLIV. Electrical and optical properties of an organic semiconductor based on polyaniline prepared by emulsion polymerization and fabrication of Ag/polyaniline/n-Si Schottky diode**  
Yakuphanoglu F., BASARAN E., Senkal B. F., SEZER E.  
JOURNAL OF PHYSICAL CHEMISTRY B, vol.110, no.34, pp.16908-16913, 2006 (SCI-Expanded)
- XLV. Voltammetric, EQCM, and in situ conductivity studies of 3,6-bis(2-thienyl)-N-ethyl carbazole**  
Sezer E., HEINZE J.  
ELECTROCHIMICA ACTA, vol.51, no.18, pp.3668-3673, 2006 (SCI-Expanded)
- XLVI. Preparation of organo-soluble polyanilines in ionic liquid**  
Bicak N., Senkal B. F., SEZER E.  
SYNTHETIC METALS, vol.155, no.1, pp.105-109, 2005 (SCI-Expanded)
- XLVII. Electrochemical behaviour of some BEDT-TTF and TTF derivatives**  
Sezer E., TURKSOY F., TUNCA U., Ozturk T.  
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.570, no.1, pp.101-105, 2004 (SCI-Expanded)
- XLVIII. Electrochemical synthesis of EDOT-ECZ-EDOT copolymer on carbon fiber micro-electrodes**  
Sezer E., SARAC A., PARLAK E.  
JOURNAL OF APPLIED ELECTROCHEMISTRY, vol.33, no.12, pp.1233-1237, 2003 (SCI-Expanded)
- XLIX. Electrocopolymerization of indole and thiophene: Conductivity-peak current relationship and in situ spectroelectrochemical investigation of soluble co-oligomers**  
Sarac A., Özkara Ş., Sezer E.  
INTERNATIONAL JOURNAL OF POLYMER ANALYSIS AND CHARACTERIZATION, vol.8, no.6, pp.395-409, 2003 (SCI-Expanded)
- L. Controlled electroinduced polymerization of methyl methacrylate in the presence of catalytic amount of cerium(IV)**  
Sarac A., OZKARA S., Ustamehmetoglu B., SEZER E.  
JOURNAL OF MACROMOLECULAR SCIENCE-PURE AND APPLIED CHEMISTRY, no.2, pp.193-207, 2003 (SCI-Expanded)
- LI. Electroinitiated cationic polymerization in the presence of addition-fragmentation agents**  
Sezer E., ONEN A., SARAC A., YAGCI Y.  
POLYMER BULLETIN, vol.49, no.4, pp.217-223, 2002 (SCI-Expanded)
- LII. Oxidative polymerization of N-vinylcarbazole in polymer matrix**  
Ustamehmetoglu B., SEZER E., SARAC A.  
POLYMER INTERNATIONAL, vol.50, no.6, pp.728-733, 2001 (SCI-Expanded)
- LIII. Spectroelectrochemical study of N-ethyl-carbazole in the presence of acrylamide**  
Yavuz O., Sezer E., SARAC A.  
POLYMER INTERNATIONAL, vol.50, no.3, pp.271-276, 2001 (SCI-Expanded)
- LIV. Spectroscopic and electrochemical investigation of ternary complexes of D- or L-aspartic acid containing polyacrylamides-Cu<sup>2+</sup>-bovine serum albumin and their radiostability**  
Bayulken S., SARAC A., OZKARA S., Sezer E., ARDAGIL N.

- APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol.90, no.1, pp.23-35, 2001 (SCI-Expanded)
- LIV. **N-vinylcarbazole-acrylamide copolymer electrodes - Electrochemical response to dopamine**  
Sezer E., YAVUZ O., SARAC A.  
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.147, no.10, pp.3771-3774, 2000 (SCI-Expanded)
- LV. **Electrosynthesis and study of carbazole-acrylamide copolymer electrodes**  
Sarac A., YAVUZ O., Sezer E.  
POLYMER, vol.41, no.3, pp.839-847, 2000 (SCI-Expanded)
- LVI. **Chemical and electrochemical polymerisation of pyrrole in the presence of N-substituted carbazoles**  
Sezer E., Ustamehmetoglu B., SARAC A.  
SYNTHETIC METALS, vol.107, no.1, pp.7-17, 1999 (SCI-Expanded)
- LVII. **Corrosion inhibition and photoactivity behavior of N substituted polycarbazole coated natural pyrite electrode**  
SEZER E., SARAÇ A. S., Yavuz Ö.  
CORROSION, vol.55, no.7, pp.661-666, 1999 (SCI-Expanded)
- LVIII. **An electrochemical study of homopolymer, copolymer and composite electrodes of polypyrrole and polycarbazoles**  
Sezer E., Ustamehmetoglu B., SARAC A.  
INTERNATIONAL JOURNAL OF POLYMER ANALYSIS AND CHARACTERIZATION, vol.5, no.2, pp.157-169, 1999 (SCI-Expanded)
- LIX. **Ring opening process of some spirochromenes by photoproduct HCl in poly(N-vinyl carbazole)**  
Sarac A., SEZER E., Ustamehmetoglu B., MANNSCHRECK A., STEPHAN B.  
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.8, no.9, pp.563-567, 1997 (SCI-Expanded)
- LX. **Oxidative polymerization of N-substituted carbazoles**  
Sarac A., SEZER E., Ustamehmetoglu B.  
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.8, no.9, pp.556-562, 1997 (SCI-Expanded)
- LXI. **Effects of Cu<sup>2+</sup> on stability and composition of water soluble ternary polyacrylic acid-Cu<sup>2+</sup>-protein complexes against radiation damage**  
Mastafaev M., SARAC A., ERKOL A., BAYULKEN S., DINCER B., Sezer E.  
POLYMER BULLETIN, vol.36, no.5, pp.623-627, 1996 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Colloidal polypyrrole as binder for silicon anode in lithium ion batteries**  
Yayla I. I. A., Yuca N., Sezer E., Ustamehmetoğlu B.  
ENERGY STORAGE, vol.4, no.4, 2022 (ESCI)
- II. **Investigation of sensor characteristics of Au and Cu modified PEDOT electrodes for dopamine**  
Topal S., Kulaksız Z. S., Topal S., Ustamehmetoğlu B., Karaman E., Sezer E.  
ORGANIC COMMUNICATIONS, vol.13, no.3, pp.127-137, 2020 (ESCI)
- III. **The effects of dopant and solvent on morphology, conductivity and mechanical properties of polyacrylonitrile / polyaniline composite nanofibers**  
Kizildag N., Uçar N., DEMIRSOY N., Sezer E., Ustamehmetoğlu B., Eren O., Onen A., KARACAN I., Guner S.  
Tekstil ve Muhendis, vol.22, no.97, pp.1-6, 2015 (Scopus)
- IV. **Corrosion Inhibition Effect of 4-(2-Diethylamino-Ethylsulfonyl)-Phthalonitrile and 4,5-Bis(Hexylsulfonyl)-Phthalonitrile**  
SEZER E., USTAMEHMETOĞLU B., Bayır Altuntaş Z., Çoban K., KALKAN BURAT A.  
International Journal of Electrochemistry, vol.2011, pp.1-5, 2011 (ESCI)
- V. **Application of Ketone Based Resins as Anticorrosive Coating**  
SEZER E., KIZILCAN N., Çoban K.  
INTERNATIONAL JOURNAL OF ELECTROCHEMISTRY, vol.2011, pp.1-9, 2011 (Peer-Reviewed Journal)
- VI. **Conducting nanocomposite systems**

Sezer E.

NEW FRONTIERS OF ORGANIC AND COMPOSITE NANOTECHNOLOGY, pp.143-235, 2008 (Peer-Reviewed Journal)

VII. **The effects of polyacrylic acid polypyrrole composite coating on photocorrosion and photoactivity of pyrite electrodes**

SARAÇ A. S., USTAMEHMETOĞLU B., SEZER E., ERBİL C.

TURKISH JOURNAL OF CHEMISTRY, vol.20, no.1, pp.80-87, 1996 (Scopus)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Synthesis, Properties and Applications of Triphenylamine, Thienothiophene and Dithienothiophene Based Organic Materials**  
Sezer E., Topal S., Şavluğ İpek Ö., Öztürk T.  
İstanbul International Organic Electronic Symposium, İstanbul, Turkey, 2 - 04 December 2019, pp.58-61
- II. **Pirol ve Tiyofen Sonlu Siklohekzanon Formaldehit Reçinesi Kopolimerlerinin Çeliğin Korozyonunu Önlemedeki Etkileri**  
ATEŞ Güvel E., Kızılcan N., Ustamehmetoğlu B., Sezer E.  
KORSEM'18 XV. International Corrosion Symposium, Hatay, Turkey, 26 - 28 September 2018, pp.161
- III. **Polipirolün NaCl Ve H2SO4 Ortamında Çeliğin Korozyonunu Önlemedeki Etkilerinin Karşılaştırmalı İncelenmesi**  
GUVEL E. A., Kızılcan N., Ustamehmetoğlu B., Sezer E.  
KORSEM'18 XV. International Corrosion Symposium, Hatay, Turkey, 26 - 28 September 2018, pp.162
- IV. **Soluble phthalocyanines containing carbozole moieties**  
Yenilmez H. Y., Sezer E., Ustamehmetoğlu B., Bayır Z.  
Eighth International Conference on Porphyrins and Phthalocyanines, İstanbul, Turkey, 22 - 27 June 2014, pp.563
- V. **The Importance of Reduction Methods and Ratio of PVP for Composite Polyacrylonitrile-Silver Nanofiber**  
DEMIRSOY N., Uçar N., Önen H. A., Kızıldağ N., VURUR O. F., EREN O., Sezer E., Taşcan M., KARACAN İ., Ustamehmetoğlu B.  
Autex 2014, 14th World Textile Conference, Bursa, Turkey, 26 - 28 May 2014, pp.1-5
- VI. **Conducting polyacrylonitrile (PAN) / polyaniline (PANI) composite nanofibers produced by electrospinning method**  
Kızıldağ N., Uçar N., DEMIRSOY N., EREN O., KARACAN İ., Sezer E., Ustamehmetoğlu B.  
The Fiber Society Spring 2014 Conference, Liberec, Czech Republic, 21 - 23 May 2014, pp.1-5
- VII. **The Effect of Modified CNT and Processing Parameters on Properties of CNT-PAN Composite Nanofiber Web**  
EREN O., Uçar N., Önen H. A., Açıkgöz Tufan H., Kızıldağ N., KARACAN İ., Sezer E., Taşcan M., Ustamehmetoğlu B.  
XIII th International İzmir Textile and Apparel Symposium, Antalya, Turkey, 2 - 05 April 2014, pp.1-5
- VIII. **Corrosion Inhibition Performance of Block Copolymer of Py with Silicon Tegomer**  
Ustamehmetoğlu B., Aydın H., Sezer E., Kızılcan N.  
KORSEM '10, XII International Corrosion Symposium, Eskişehir, Turkey, 6 - 09 November 2010, pp.178-185
- IX. **Conducting Polymers as Anticorrosive Additives in Paint**  
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- Sezer E., Project Supported by Higher Education Institutions, Çevreci polimerik korozyon inhibitörleri ile sođutma sistemlerinde çelik malzemenin korozyonunun önlenmesi, 2016 - 2021
- Sezer E., Project Supported by Higher Education Institutions, Polianilin/Seryum dioksit (CeO<sub>2</sub>) nanokompozit katkılı kaplamalar ile alüminyum ve karbon çelik metallere korozyonunun önlenmesi, 2015 - 2019
- Sezer E., Project Supported by Higher Education Institutions, Elektrostatik Boya Uygulamaları İçin İletken Poliamit Karbon Siyahı/Karbon Fiber/Karbon Nano Tüp Kompozitleri, 2013 - 2019
- Sezer E., Project Supported by Higher Education Institutions, CeO<sub>2</sub>-İLETKEN POLİMER NANOKOMPOZİT ESASLI KOROZYON ÖNLEYİCİ KAPLAMALAR, 2010 - 2019
- Sezer E., Project Supported by Higher Education Institutions, Bis-(Tiyenotiyofen) Bitiyazol Sentezi ve Elektopolimerizasyonu, 2015 - 2018
- Sezer E., Project Supported by Higher Education Institutions, Tiyazol ve Karbazol İçeren Polimerlerin Sentezi ve Karakterizasyonu, 2012 - 2018
- Sezer E., Project Supported by Higher Education Institutions, Polianilin/CeO<sub>2</sub> Nanokompozit Kaplamaların Antikorozyon Etkileri, 2009 - 2018
- Sezer E., Project Supported by Higher Education Institutions, Keton Bazlı Reçinelerin Korozyon Önlemedeki Etkileri, 2008 - 2018
- Sezer E., Project Supported by Higher Education Institutions, 4-(2-Dietilamino -Etilsulfonil)-Ftalonitril ve 4,5-Bis (Hekzilsulfonil)-Fthalonitril ile Çeliđin Korozyonunun Önlenmesi, 2007 - 2018
- Sezer E., Project Supported by Higher Education Institutions, 4-(2-Tiyenil)-İndolün Sentezi ve Elektrokimyasal Polimerizasyonu, 2006 - 2018
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- Sezer E., Project Supported by Higher Education Institutions, 3,6 - Bis (2-Tienil) -N-etil Karbazolün İn-Situ Katı İletkenlik ve Voltametrik İncelenmesi, 2004 - 2018
- Sezer E., Ustamehmetođlu B., Salmashođlu A., Erçađ E., TUBITAK Project, Kanserli Dokunun Ultrasonografi Eşliđinde Biyopsi Metodu İle Tayinine Uygun Polimerik Simülasyon Kiti Sentezi Ve Karakterizasyonu Ve Fantom Tasarımı, 2015 - 2017
- Sezer E., Project Supported by Higher Education Institutions, Karbon ÇeliđinKorozyonunu Önlemede Film Yapıcı Poliaminlerin Etkilerinin İncelenmesi, 2010 - 2015
- Sezer E., Project Supported by Higher Education Institutions, Tekstil Taşıyıcı Üzerine İletken Polimer Sentezi ve Elektriksel İletkenliklerin İncelenmesi, 2010 - 2015
- Sezer E., Project Supported by Higher Education Institutions, Nikel Kaplama Çözeltilerinde Yardımcı Kimyasalların Etkilerinin Elektrokimyasal Metotlarla İncelenmesi, 2010 - 2015
- Sezer E., Project Supported by Higher Education Institutions, POLİ(N-VİNİLKARBOZAL, POLİAN, LİN VE BUNLARIN OKSİT NANOPARÇACIK KOMPOZİTLERİ İLE ANTİKOROZİF KAPLAMALAR, 2009 - 2010
- Sezer E., Project Supported by Higher Education Institutions, Reçine İletken Polimer Esaslı Kompozit ve Kopolimer Kaplamalar ile Korozyon önlenmesi, 2009 - 2010
- Sezer E., Project Supported by Higher Education Institutions, İndol-Karbazol, İndol-Tiyofen Komonomerlerinin Sentezi, Polimerizasyonu ve Karakterizasyonları, 2008 - 2008
- Sezer E., Project Supported by Higher Education Institutions, Suda ve Organik Çözücülerde Çözünebilen Polianilinlerin Sentezi ve Karakterizasyonu, 2005 - 2008
- Sezer E., Project Supported by Higher Education Institutions, İnce Polianilin Filmlerin Sentezi ve Karakterizasyonu, 2006 - 2007

Sezer E., Project Supported by Higher Education Institutions, Formaldehit Bazlı Reçine Kaplamalarla Paslanmaz Çelik ve Bakırın Korozyonunun Önlenmesi, 2006 - 2007

Sezer E., Project Supported by Higher Education Institutions, Karbozol ve Tiyofen Türevlerine Dayalı Yeni Kopolimerlerin Sentezi ve Karakterizasyonu, 1998 - 2004

### **Non Academic Experience**

Alman Akademik Değişim Servisi (Deutscher Akademischer Austauschdienst, DAAD)

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