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Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 1998 - 2004

Postgraduate, Mersin University, Institute Of Science, Kimya (YI) (Tezli), Turkey 1996 - 1998

Undergraduate, Gazi University, Gazi Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, Turkey 1990 - 1994

Dissertations

Doctorate, Electrochemical synthesis and characterization of sulfonated polythiophenes and aniline-thiophene copolymers, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya (Dr), 2004

Postgraduate, Polipirrol, politiyofen, poliindol ve alışımlarının elektrokimyasal sentezi ve karakterizasyonu, Mersin University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 1998

Academic Titles / Tasks

Professor, Gazi University, Teknik Bilimler Meslek Yüksekokulu, Kimya Ve Kimyasal İşleme Teknolojileri Bölümü, 2018 - Continues

Associate Professor, Gazi University, Fen Bilimleri Enstitüsü, İleri Teknolojiler Anabilim Dalı (Disiplinlerarası), 2010 - 2018

Assistant Professor, Gazi University, Fen Bilimleri Enstitüsü, İleri Teknolojiler Anabilim Dalı (Disiplinlerarası), 2008 - 2009

Assistant Professor, Mersin University, Faculty Of Arts And Sciences, Department Of Chemistry, 2004 - 2008

Research Assistant, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 1999 - 2004

Research Assistant, Mersin University, Faculty Of Arts And Sciences, Department Of Chemistry, 1995 - 1998

Academic and Administrative Experience

Deputy Head of Department, Gazi University, Fen Bilimleri Enstitüsü, İleri Teknolojiler Anabilim Dalı (Disiplinlerarası), 2015 - 2022

Advising Theses

UDUM Y., Electrochromic And Amperometric Biosensor Applications Of Multifunctional Conductive Polymer, Postgraduate, M.AKTAŞ(Student), 2019

UDUM Y., Syntheses of benzotriazole based conjugated polymers for organic light emitting diode and organic solar cell, Postgraduate, İ.ÖNK(Student), 2016

UDUM Y., Copolymers comprising benzodithiophene and benzotriazole derivatives for organic solar cells, Postgraduate, D.GÜLEŞ(Student), 2016

UDUM Y., Synthesis, electrochromic and optic properties of donor-acceptor type conductive polymers containing thiophene and thienothiophene, Postgraduate, E.RUSTAMLI(Student), 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Effect of random copolymerization on the optical properties of selenophene and thieno[3,4-c]pyrrole-4,6-dione conjugated polymers**
Yasa M., UDUM Y., TOPPARE L. K.
MICROCHEMICAL JOURNAL, vol.178, 2022 (Journal Indexed in SCI)
- II. **Multipurpose acetic acid functionalized carbazole derivatives: Synthesis, electrochemical properties and electrochromic device applications**
Hacioglu S. O. , YİĞİT D., Akbey T. E. , UDUM Y., GÜLLÜ M., DEPCİ T., TOPPARE L. K.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.908, 2022 (Journal Indexed in SCI)
- III. **Synthesis of selenophene substituted benzodithiophene and fluorinated benzothiadiazole based conjugated polymers for organic solar cell applications**
Aslan S. T. , Cevher D., Bolayir E., HIZALAN ÖZSOY G., UDUM Y., YILDIRIM E., TOPPARE L. K. , ÇIRPAN A.
ELECTROCHIMICA ACTA, vol.398, 2021 (Journal Indexed in SCI)
- IV. **Light induced step-growth polymerization of Donor-Acceptor-Donor (DAD) type monomers based on thiophene - [1,2,5] Chalcogenazolo[3,4-f]-benzo [1,2,3] triazole - Thiophene**
Kaya K., Alkan E. A. , Yasa M., Suerkan A., UDUM Y., TOPPARE L. K. , Yağcı Y.
EUROPEAN POLYMER JOURNAL, vol.161, 2021 (Journal Indexed in SCI)
- V. **Multichromic Vanadium Pentoxide Thin Films Through Ultrasonic Spray Deposition**
TUTEL Y., DURUKAN M. B. , Koc S., KOYLAN S., Cakmak H., Kocak Y., Hekmat F., ÖZENSOY E., ÖZBAY E., UDUM Y., et al.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.168, no.10, 2021 (Journal Indexed in SCI)
- VI. **Highly conjugated visible and near-infrared light photoinitiating systems for radical and cationic polymerizations**
Suerkan A., Alkan E. A. , Kaya K., UDUM Y., TOPPARE L. K. , Yağcı Y.
PROGRESS IN ORGANIC COATINGS, vol.154, 2021 (Journal Indexed in SCI)
- VII. **Indenoquinoxalinone based conjugated polymer substrate for laccase biosensor**
Cevher S. C. , Bekmezci S. A. , SaniyeSoylemez S., UDUM Y., TOPPARE L. K. , ÇIRPAN A.
MATERIALS CHEMISTRY AND PHYSICS, vol.257, 2021 (Journal Indexed in SCI)
- VIII. **ProTOT: Synthesis of the missing member of the 3,4-chalcogen substituted bridged thiophenes and its utilization in donor-acceptor polymers**
Yaylali F. V. , Ozel H., UDUM Y., TOPPARE L. K. , SÖYLEMEZ S., GÜNBAŞ E. G.
POLYMER, vol.212, 2021 (Journal Indexed in SCI)
- IX. **Construction of amperometric biosensor modified with conducting polymer/carbon dots for the analysis of catechol**
Yasa M., Deniz A., Forough M., YILDIRIM E., PERSİL ÇETİNKOL Ö., UDUM Y., TOPPARE L. K.
JOURNAL OF POLYMER SCIENCE, vol.58, no.23, pp.3336-3348, 2020 (Journal Indexed in SCI)
- X. **A comprehensive study: Theoretical and experimental investigation of heteroatom and substituent effects on frontier orbitals and polymer solar cell performances**
Cevher S. C. , Hizalan G., ALEMDAR E., Cevher D., Udum Arslan Y., TOPPARE L. K. , YILDIRIM E., ÇIRPAN A.
JOURNAL OF POLYMER SCIENCE, vol.58, no.19, pp.2792-2806, 2020 (Journal Indexed in SCI)
- XI. **Narrow band gap benzodithiophene and quinoxaline bearing conjugated polymers for organic photovoltaic applications**
Caliskan M., ERER M. C. , Aslan S. T. , UDUM Y., TOPPARE L. K. , ÇIRPAN A.
DYES AND PIGMENTS, vol.180, 2020 (Journal Indexed in SCI)
- XII. **The impact of [1,2,5]chalcogenazolo[3,4-f]-benzo[1,2,3]triazole structure on the optoelectronic properties of conjugated polymers**

Alkan E. A. , Goker S., Sarigul H., YILDIRIM E., UDUM Y., TOPPARE L. K.

JOURNAL OF POLYMER SCIENCE, vol.58, no.7, pp.956-968, 2020 (Journal Indexed in SCI)

- XIII. **Synthesis and characterization of optical, electrochemical and photovoltaic properties of selenophene bearing benzodithiophene based alternating polymers**
Atli G. O. , ALEMDAR E., Aslan S. T. , UDUM Y., TOPPARE L. K. , ÇIRPAN A.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.862, 2020 (Journal Indexed in SCI)
- XIV. **Electrosynthesis and characterizations of electrochromic and soluble polymer films based on N-substituted carbazole derivates**
Elkhydr H. E. , ERTEKİN Z., UDUM Y., PEKMEZ K.
SYNTHETIC METALS, vol.260, 2020 (Journal Indexed in SCI)
- XV. **A new ethanol biosensor based on polyfluorene-g-poly(ethylene glycol) and multiwalled carbon nanotubes**
Bekmezci S. A. , SÖYLEMEZ S., Yılmaz G., UDUM Y., Yağcı Y., TOPPARE L. K.
EUROPEAN POLYMER JOURNAL, vol.122, 2020 (Journal Indexed in SCI)
- XVI. **Syntheses and Characterization of Benzotriazole, Thienopyrroledione, and Benzodithiophene Containing Conjugated Random Terpolymers for Organic Solar Cells**
Goksu K., Hizalan G., UDUM Y., Hacıoğlu S. O. , Cevher S. C. , Akrema A., TOPPARE L. K. , ÇIRPAN A.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.166, no.15, 2019 (Journal Indexed in SCI)
- XVII. **A thiazolothiazole containing multichromic polymer for glucose detection**
Soylemez S., Kaya H. Z. , Udum Y., TOPPARE L. K.
EXPRESS POLYMER LETTERS, vol.13, no.10, pp.845-857, 2019 (Journal Indexed in SCI)
- XVIII. **Tuning molecular energy levels and band gap of two-dimensional benzo[1,2-b:4,5-b'] dithiophene and quinoxaline bearing polymers**
Yasa M., Goker S., UDUM Y., TOPPARE L. K.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.847, 2019 (Journal Indexed in SCI)
- XIX. **A multipurpose conjugated polymer: Electrochromic device and biosensor construction for glucose detection**
Soylemez S., Kaya H. Z. , UDUM Y., TOPPARE L. K.
ORGANIC ELECTRONICS, vol.65, pp.327-333, 2019 (Journal Indexed in SCI)
- XX. **Application of an Efficient Amperometric Glucose Sensing Electrode Based on a Bilayer Polymer Film Platform**
Kaya H. Z. , SÖYLEMEZ S., UDUM Y., TOPPARE L. K.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.165, no.16, 2018 (Journal Indexed in SCI)
- XXI. **Fabrication of a promising immobilization platform based on electrochemical synthesis of a conjugated polymer**
Buber E., SÖYLEMEZ S., UDUM Y., TOPPARE L. K.
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.167, pp.392-396, 2018 (Journal Indexed in SCI)
- XXII. **Polymerization and biosensor application of water soluble peptide-SNS type monomer conjugates**
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JOURNAL OF MATERIALS CHEMISTRY B, vol.5, no.35, pp.7384-7392, 2017 (Journal Indexed in SCI)
- XXIII. **Effect of substituent groups on quinoxaline-based random copolymers on the optoelectronic and photovoltaic properties**
Cevher S. C. , Hizalan G., Temiz C., UDUM Y., TOPPARE L. K. , ÇIRPAN A.
POLYMER, vol.101, pp.208-216, 2016 (Journal Indexed in SCI)
- XXIV. **Incorporation of Different Conjugated Linkers into Low Band Gap Polymers Based on 5,6-Bis(octyloxy)-2,1,3 benzoaxadiazole for Tuning Optoelectronic Properties**
Goker S., Hizalan G., Kutkan S., UDUM Y., ÇIRPAN A., TOPPARE L. K.
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.54, no.16, pp.2459-2467, 2016 (Journal Indexed in SCI)
- XXV. **Synthesis and characterization of conducting polymers containing polypeptide and ferrocene side chains as ethanol biosensors**

- Kesik M., Akbulut H., Soylemez S., Cevher S. C. , Hizalan G., UDUM Y., Endo T., Yamada S., ÇIRPAN A., Yağcı Y., et al.
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, vol.251, 2016 (Journal Indexed in SCI)
- XXVI. **Incorporation of different conjugated linkers into low band gap polymers based on 5,6-bis(octyloxy)-2,1,3 benzooxadiazole for tuning efficiency of organic photovoltaics**
Goker S., Hizalan G., UDUM Y., TOPPARE L. K.
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, vol.251, 2016 (Journal Indexed in SCI)
- XXVII. **Electrosynthesis and characterization of an electrochromic material containing biscarbazole-oxadiazole units and its application in an electrochromic device**
UDUM Y., HIZLIATEŞ C. G. , Ergun Y., TOPPARE L. K.
THIN SOLID FILMS, vol.595, pp.61-67, 2015 (Journal Indexed in SCI)
- XXVIII. **Electrochemical and optical properties of a conducting polymer and its use in a novel biosensor for the detection of cholesterol**
Soylemez S., UDUM Y., Kesik M., HIZLIATEŞ C. G. , Ergun Y., TOPPARE L. K.
SENSORS AND ACTUATORS B-CHEMICAL, vol.212, pp.425-433, 2015 (Journal Indexed in SCI)
- XXIX. **Multichromic and soluble conjugated polymers containing thiazolothiazole unit for electrochromic applications**
Akpınar H. Z. , UDUM Y., TOPPARE L. K.
EUROPEAN POLYMER JOURNAL, vol.63, pp.255-261, 2015 (Journal Indexed in SCI)
- XXX. **Electrochemical Properties of Perylene Diimide (PDI) and Benzotriazole (Btz) Bearing Conjugated Polymers to Investigate the Effect of pi-Bridge on Electrochemical Properties**
Baysec S., Unlu N. A. , Hacıoğlu S. O. , UDUM Y., ÇIRPAN A., TOPPARE L. K.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.52, no.1, pp.1-9, 2015 (Journal Indexed in SCI)
- XXXI. **Synthesis and Characterization of Thiophene and Thieno[3,2-b]thiophene Containing Conjugated Polymers**
Rustamh E., Goker S., Tarkuc S., UDUM Y., TOPPARE L. K.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.162, no.9, 2015 (Journal Indexed in SCI)
- XXXII. **Synthesis of a benzotriazole bearing alternating copolymer for organic photovoltaic applications**
Istanbulluoglu C., Goker S., Hizalan G., Hacıoğlu S. O. , UDUM Y., Yildiz E. D. , ÇIRPAN A., TOPPARE L. K.
NEW JOURNAL OF CHEMISTRY, vol.39, no.8, pp.6623-6630, 2015 (Journal Indexed in SCI)
- XXXIII. **Electrochemical and spectroelectrochemical studies of poly(2,5-di-2,3-dihydrothieno[3,4-b][1,4]dioxin-5-ylthienyl) derivatives bearing azobenzene, coumarine and fluorescein dyes: Effect of chromophore groups on electrochromic properties**
Yigit D., UDUM Y., GÜLLÜ M., TOPPARE L. K.
ELECTROCHIMICA ACTA, vol.147, pp.669-677, 2014 (Journal Indexed in SCI)
- XXXIV. **Synthesis and Spectroelectrochemistry of Dithieno(3,2-b:2',3'-d)pyrrole Derivatives**
UDUM Y., Yildiz H. B. , AZAK H., Sahin E., TALAZ O., ÇIRPAN A., TOPPARE L. K.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.131, no.17, 2014 (Journal Indexed in SCI)
- XXXV. **Electrochromic properties of multicolored novel polymer synthesized via combination of benzotriazole and N-functionalized 2,5-di(2-thienyl)-1H-pyrrole units**
Rende E., Kilic C. E. , UDUM Y., Toffoli D., TOPPARE L. K.
ELECTROCHIMICA ACTA, vol.138, pp.454-463, 2014 (Journal Indexed in SCI)
- XXXVI. **Inverted bulk-heterojunction solar cell with cross-linked hole-blocking layer**
Udum Y., Denk P., Adam G., Apaydin D. H. , Nevsad A., Teichert C., White M. S. , Sariciftci N. S. , Scharber M. C.
ORGANIC ELECTRONICS, vol.15, no.5, pp.997-1001, 2014 (Journal Indexed in SCI)
- XXXVII. **Electrochemical and optical properties of 5,6-bis(octyloxy)-2,1,3 benzooxadiazole containing low band gap polymers**
Goker S., Hizalan G., UDUM Y., TOPPARE L. K.
SYNTHETIC METALS, vol.191, pp.19-27, 2014 (Journal Indexed in SCI)
- XXXVIII. **A novel conducting polymer based platform for ethanol sensing**
Kekec N. C. , Kanik F. E. , UDUM Y., HIZLIATEŞ C. G. , Ergun Y., TOPPARE L. K.

- SENSORS AND ACTUATORS B-CHEMICAL, vol.193, pp.306-314, 2014 (Journal Indexed in SCI)
- XXXIX. **Electrochemical and optical properties of novel terthienyl based azobenzene, coumarine and fluorescein containing polymers: Multicolored electrochromic polymers**
Yigit D., UDUM Y., GÜLLÜ M., TOPPARE L. K.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.712, pp.215-222, 2014 (Journal Indexed in SCI)
- XL. **Synthesis and characterization of conducting polymers containing polypeptide and ferrocene side chains as ethanol biosensors**
Kesik M., Akbulut H., Soylemez S., Cevher S. C. , Hizalan G., UDUM Y., Endo T., Yamada S., ÇIRPAN A., Yağcı Y., et al.
POLYMER CHEMISTRY, vol.5, no.21, pp.6295-6306, 2014 (Journal Indexed in SCI)
- XLI. **A sepiolite modified conducting polymer based biosensor**
Soylemez S., Kanik F. E. , Tarkuc S., UDUM Y., TOPPARE L. K.
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.111, pp.549-555, 2013 (Journal Indexed in SCI)
- XLII. **Synthesis and electrochemical characterization of fluorene and benzimidazole containing novel conjugated polymers: Effect of alkyl chain length on electrochemical properties**
Namal I., Ozelcaglayan A. C. , UDUM Y., TOPPARE L. K.
EUROPEAN POLYMER JOURNAL, vol.49, no.10, pp.3181-3187, 2013 (Journal Indexed in SCI)
- XLIII. **Spray-processable thiazolothiazole-based copolymers with altered donor groups and their electrochromic properties**
Akpınar H. Z. , UDUM Y., TOPPARE L. K.
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.51, no.18, pp.3901-3906, 2013 (Journal Indexed in SCI)
- XLIV. **Effective and Functional Surface Design for Biosensing Applications Based on a Novel Conducting Polymer and PMMA/Clay Nanocomposite**
Kesik M., Kocer O., Kanik F. E. , Unlu N. A. , Rende E., Aslan-Gurel E., Rossi R. M. , UDUM Y., TOPPARE L. K.
ELECTROANALYSIS, vol.25, no.8, pp.1995-2006, 2013 (Journal Indexed in SCI)
- XLV. **Synthesis of aromatic poly(pyridinium salt)s and their electrochromic properties**
Keshotov M. L. , Udum Y., TOPPARE L. K. , Kochurov V. S. , Khokhlov A. R.
MATERIALS CHEMISTRY AND PHYSICS, vol.139, pp.936-943, 2013 (Journal Indexed in SCI)
- XLVI. **Fused structures in the polymer backbone to investigate the photovoltaic and electrochromic properties of donoracceptor-type conjugated polymers**
Cevher S. C. , Unlu N. A. , Ozelcaglayan A. C. , Apaydin D. H. , UDUM Y., TOPPARE L. K. , ÇIRPAN A.
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.51, no.9, pp.1933-1941, 2013 (Journal Indexed in SCI)
- XLVII. **Quinoxaline derivatives as long wavelength photosensitizers in photoinitiated cationic polymerization of diaryliodonium salts**
Bulut U., Kolay M., Tarkuc S., UDUM Y., TOPPARE L. K.
PROGRESS IN ORGANIC COATINGS, vol.73, pp.215-218, 2012 (Journal Indexed in SCI)
- XLVIII. **Tailoring the optoelectronic properties of donor-acceptor-donor type pi-conjugated polymers via incorporating different electron-acceptor moieties**
Tarkuc S., UDUM Y., TOPPARE L. K.
THIN SOLID FILMS, vol.520, no.7, pp.2960-2965, 2012 (Journal Indexed in SCI)
- XLIX. **Near infrared electrochromic polymers based on phenazine moieties**
Esmer E. N. , Tarkuc S., UDUM Y., TOPPARE L. K.
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- L. **The effect of the donor unit on the optical properties of polymers**
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ORGANIC ELECTRONICS, vol.12, no.10, pp.1625-1631, 2011 (Journal Indexed in SCI)
- LI. **Synthesis and optical properties of fused aromatic thienopyrazine based pi-conjugated polymers**
Kolay M., Tarkuc S., UDUM Y., TOPPARE L. K.
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- LII. **Multi-colored electrochromic polymer with enhanced optical contrast**

- Tarkuc S., Unver E. K., UDUM Y., TOPPARE L. K.
EUROPEAN POLYMER JOURNAL, vol.46, no.11, pp.2199-2205, 2010 (Journal Indexed in SCI)
- LIII. **The effect of changes in pi-conjugated terthienyl systems using thienyl and ethylenedioxybenzene functionalized thieno[3,4-b]pyrazine precursors: Multicolored low band gap polymers**
Tarkuc S., Unver E. K., UDUM Y., TANYELİ C., TOPPARE L. K.
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- LIV. **Improving electrochromic properties via copolymerization**
Taskin A. T., Balan A., UDUM Y., TOPPARE L. K.
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- LV. **Molecular architecture: Another plausible pathway toward a low band gap polymer**
Tarkuc S., UDUM Y., TOPPARE L. K.
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- LVI. **Effect of Conjugated Core Building Block Dibenzo[a,c]phenazine Unit on pi-Conjugated Electrochromic Polymers: Red-Shifted Absorption**
Unver E. K., Tarkuc S., UDUM Y., TANYELİ C., TOPPARE L. K.
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- LVII. **A novel quinoxaline bearing electroactive monomer: Pyrrole as the donor moiety**
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- LVIII. **Tuning of the neutral state color of the pi-conjugated donor-acceptor-donor type polymer from blue to green via changing the donor strength on the polymer**
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- LIX. **Electrochemical synthesis and characterization of a new soluble conducting polymer**
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- LX. **A bis-selenophene substituted alkoxy benzene derivative as a highly stable novel electrochromic polymer**
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- LXI. **Electrodeposition of Poly(4-methyl carbazole-3-carboxylic acid) on Steel Surfaces and Corrosion Protection of Steel**
Dueduekcue M., Udum Y., Erguen Y., Koeleli F.
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- LXII. **Both p- and n-type dopable polymer toward electrochromic applications**
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- LXIII. **A new donor-acceptor type polymeric material from a thiophene derivative and its electrochromic properties**
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- LXIV. **Electrochemical polymerization and spectroscopic investigation of 2-methylindole**
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- LXV. **A new self-doped copolymer consisting of 3-methyl thiophene and aniline units**
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- LXVI. **Electrochemically controlled solid-phase microextraction (EC-SPME) based on overoxidized sulfonated polypyrrole**

- Tamer U., Ertas N., Udum Y., ŞAHİN Y., Pekmez K., Yildiz A.
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- LXVII. **Electrochemical preparation of a soluble conducting aniline-thiophene copolymer**
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- LXVIII. **Synthesis of aniline-thiophene copolymer on beta-PbO₂ electrode in acetonitrile**
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- LXIX. **Preparation of sulfonated overoxidized polypyrrole film applicable as an SPME tool for cationic analytes**
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- LXX. **Electrochemical synthesis of sulfonated polypyrrole in FSO₃H/acetonitrile solution**
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- LXXI. **Electrochemical synthesis of soluble sulfonated poly(3-methyl thiophene)**
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- LXXII. **Electropolymerization of self-doped polythiophene in acetonitrile containing FSO₃H**
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- LXXIII. **Preparation and SEESR-spectroscopic investigations of indole/pyrrole copolymers in aprotic medium**
Koleli F., Arslan Y., Dudukcu M.
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- LXXIV. **Synthetic metal alloys: Preparation of polyaniline/polypyrrole alloys in protic medium**
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