

# Prof. Bahire Filiz Şenkal

## Personal Information

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## Education Information

Doctorate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 1991 - 1996

Postgraduate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (YI), Turkey 1988 - 1991

Undergraduate, İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1984 - 1988

## Foreign Languages

English

## Dissertations

Doctorate, Poli (stiren) esaslı reçineler üzerinde sekonder amin sentezi ve aldehit ayrılması, İstanbul Teknik Üniversitesi, Kimya, Kimya, 1996

Postgraduate, Naftalinin seryum (IV) ile oksidasyon kinetiği ve mekanizması Oxidation of kinetic of naphtalene by CE (IV), İstanbul Teknik Üniversitesi, Kimya, Kimya, 1991

## Research Areas

Basic Sciences, Chemistry, Physical Chemistry, Polymeric Adsorbents, Polymeric Materials

## Academic Titles / Tasks

Professor, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2009 - Continues

## Courses

Genel Kimya, Undergraduate, 2000 - 2001

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

- I. **A new multi-hydroxyl methacrylate based adsorbent for boron removal from aqueous solutions**  
Torunoglu T. G. , Burak K., Erdem Y., Şenkal B. F.  
SEPARATION SCIENCE AND TECHNOLOGY, 2021 (Journal Indexed in SCI)
- II. **Effective removal of Cs-137 ions from radioactive wastewater by Melamine-Styrene based Polymer (MSP)**  
Karabayir E., Taskin O. S. , ÖZDEMİR A., Şenkal B. F.

APPLIED RADIATION AND ISOTOPES, vol.176, 2021 (Journal Indexed in SCI)

- III. **Conductivity mechanism and dielectric properties of poly (2-aminophenol) with boron nitride and graphite composites**  
Cogalmis F. T. , Ahlatcyoolu Ozerol E., OKUTAN M., Şenkal B. F.  
CHEMICAL PAPERS, 2021 (Journal Indexed in SCI)
- IV. **Application of inverse gas chromatography in the surface characterization of diethanol amine modified polystyrene based polymer**  
Adiguzel A. C. , Korkmaz B., ÇAKAR F., Şenkal B. F. , CANKURTARAN Ö.  
TURKISH JOURNAL OF CHEMISTRY, vol.45, no.5, pp.1533-1542, 2021 (Journal Indexed in SCI)
- V. **Influence of hydrogen bond on the mesomorphic behaviour in urethane based liquid crystalline compounds: Experimental and computer simulation study**  
Korkmaz B., Agtas S., Sutay B., YILDIRIM E., Yilgor I., Yurtsever M., Şenkal B. F. , Gürsel Y.  
Journal of Molecular Liquids, vol.317, 2020 (Journal Indexed in SCI Expanded)
- VI. **Impedance spectroscopy of polyaniline coated hydrogel**  
OKUTAN M., Yavuz E., ÖZEROL E., Şenkal B. F. , Yalcin O., Yıldız A.  
POLYMER BULLETIN, 2020 (Journal Indexed in SCI)
- VII. **Investigation of interaction behaviours of cesium and strontium ions with engineering barrier material to prevent leakage to environmental**  
Erentürk S., Hacıyakupoğlu S., Şenkal B. F.  
JOURNAL OF ENVIRONMENTAL RADIOACTIVITY, vol.213, 2020 (Journal Indexed in SCI)
- VIII. **Investigation of Curcumin Water Solubility Through Emulsifying with Biocompatible Polyethylene Glycol-Based Polymers**  
Yıldız G., Aydogmus Z., Şenkal B. F. , Torunoğlu Turan G.  
FOOD ANALYTICAL METHODS, vol.12, no.10, pp.2129-2138, 2019 (Journal Indexed in SCI)
- IX. **A radioactively durable melamine-styrene based polymer: Highly efficient removal of Sr-90**  
Karabayir E., ÖZDEMİR A., Şenkal B. F. , Taskin O. S.  
APPLIED RADIATION AND ISOTOPES, vol.149, pp.96-103, 2019 (Journal Indexed in SCI)
- X. **DETERMINATION OF GLASS TRANSITION TEMPERATURE AND SURFACE PROPERTIES OF NOVEL CHALCONE MODIFIED POLY (STYRENE) BASED POLYMER**  
Adiguzel A. C. , ÇAKAR F., Şenkal B. F. , CANKURTARAN Ö., Hepuzer Gursel Y., KARAMAN F.  
THERMAL SCIENCE, vol.23, 2019 (Journal Indexed in SCI)
- XI. **The synthesis and dielectric characterization of liquid crystalline hydrogen bonded complex of 3-(4-(dimethyl amino) phenyl)-1-(4-hydroxyphenyl) prop-2-en-1-one with 8-(4-cyanobiphenyl-4'-oxy) octan-1-ol**  
Korkmaz B., Ozerol E. A. , Gürsel Y., Şenkal B. F. , OKUTAN M.  
JOURNAL OF MOLECULAR LIQUIDS, vol.266, pp.132-138, 2018 (Journal Indexed in SCI)
- XII. **Simultaneous voltammetric analysis of lead, copper and mercury ions by carbon paste electrode based on 1-(3-aminopropyl) imidazole modified polymer**  
Bayraktar C., CANKURTARAN H., Şenkal B. F.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.98, no.10, pp.889-906, 2018 (Journal Indexed in SCI)
- XIII. **Synthesis of chalcone-containing methacrylate-based hydrogen bonded side chain liquid crystalline polymer and its dielectric properties**  
Korkmaz B., GURSEL Y. H. , Canli N. Y. , Ozdemir Z. G. , OKUTAN M., Şenkal B. F.  
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.28, no.11, pp.1351-1356, 2017 (Journal Indexed in SCI)
- XIV. **Compressive moduli and network parameters of N-isopropylacrylamide hydrogels copolymerized by monoesters of itaconic acid and crosslinked with tetraallylammonium bromide**  
KOZBEKCI C., Şenkal B. F. , Erbil C.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.134, no.29, 2017 (Journal Indexed in SCI)
- XV. **A Practical Application of Solid-phase Extraction Using a Syringe Filled with Sorbent for the Determination of Lead and Cadmium in Water**

- Ozbek N., Turan G. T. , Şenkal B. F. , Akman S.  
ANALYTICAL SCIENCES, vol.33, no.7, pp.807-811, 2017 (Journal Indexed in SCI)
- XVI. **Synthesis and characterization of a new hydrogen bonded side chain liquid crystal block copolymer and investigation of electrical properties**  
Korkmaz B., ÖZEROL E., Bozdogan A. C. , OKUTAN M., Şenkal B. F. , Gürsel Y.  
PURE AND APPLIED CHEMISTRY, vol.89, no.1, pp.19-28, 2017 (Journal Indexed in SCI)
- XVII. **The voltammetric determination of bisphenol A content of polycarbonate utensils using a resin modified carbon paste electrode**  
Yıldız G., İkikardeşler S., Bildik F., Şenkal B. F.  
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- XVIII. **Synthesis and electrical properties of hydrogen bonded liquid crystal polymer**  
Korkmaz B., Canli N. Y. , Ozdemir Z. G. , OKUTAN M., GURSEL Y. H. , SARAÇ A., Şenkal B. F.  
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- XIX. **The effect on the impedance characteristics of the metal oxides Al<sub>2</sub>O<sub>3</sub> and ZnO doping into polyaniline**  
ÖZEROL E., ÇELİK BOZDOĞAN A., Şenkal B. F. , OKUTAN M.  
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- XX. **Formation of composites between polyvinylimidazole and bentonites and their use for removal of remazol black B from water**  
Yıldız G., Şenkal B. F.  
SEPARATION SCIENCE AND TECHNOLOGY, vol.51, pp.2596-2603, 2016 (Journal Indexed in SCI)
- XXI. **Modification of amino-bis-(cis-propan 2,3 diol) functions onto crosslinked poly (3-chloro-2-hydroxypropyl methacrylate-methyl methacrylate-ethyleneglycole dimethacrylate) for removal of boron from water**  
Turan G. T. , Şenkal B. F.  
SEPARATION SCIENCE AND TECHNOLOGY, vol.51, pp.2586-2595, 2016 (Journal Indexed in SCI)
- XXII. **Preparation of crosslinked quaternary amide-sulfonamide resin for removal of mercury ions from aqueous solutions**  
Yavuz E., TURAN G. T. , ALKAZAN S., Şenkal B. F.  
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- XXIII. **Super-capacitive behavior of carbon nano tube doped 11-(4-cyanobiphenyl-4-oxy) undecan-1-ol**  
Ozdemir Z. G. , Canli N. Y. , Şenkal B. F. , Gürsel Y., OKUTAN M.  
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- XXIV. **Preparation and characterization of graphite composites of polyaniline**  
Ozerol E. A. , Şenkal B. F. , Okutan M.  
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- XXV. **Preparation and Electrical Characterization of Poly(Aniline) NanoClay Composites**  
Ahlacoglu E., Şenkal B. F. , OKUTAN M.  
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- XXVI. **Addition of single-wall carbon nanotubes to a liquid crystal material: Impact on dielectric properties**  
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- XXVII. **Preparation and polymerization of chalcone substituted aniline and investigation of impedance properties**  
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- XXVIII. **Preparation of poly (N-vinylcarbazole)-co-poly(2-(dimethylamino)ethyl methacrylate) based hydrogen bonded side-chain liquid crystal copolymer**  
Ahlacoglu E., GURSEL Y., Okutan M., Şenkal B. F.  
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- XXXIX. **Predicting the dynamics and performance of selective polymeric resins in a fixed bed system for boron removal**  
Simsek E. B. , Beker U., Şenkal B. F.  
DESALINATION, vol.349, pp.39-50, 2014 (Journal Indexed in SCI)
- XXX. **Voltammetric determination of nitrite in meat products using polyvinylimidazole modified carbon paste electrode**  
Yıldız G., OZTEKIN N., ORBAY A., Senkal F.  
FOOD CHEMISTRY, vol.152, pp.245-250, 2014 (Journal Indexed in SCI)
- XXXI. **Effect of crosslinker structure and crosslinker/monomer ratio on network parameters and thermodynamic properties of Poly (N-isopropylacrylamide) hydrogels**  
Gökçeören A. T. , Şenkal B. F. , ERBİL C.  
JOURNAL OF POLYMER RESEARCH, vol.21, no.3, 2014 (Journal Indexed in SCI)
- XXXII. **Emulsion Polymerization of Vinyl Acetate in the Presence of a New Cationic Surfactant**  
Şenkal B. F. , Şenkal B. F. , YILDIRIM M.  
American Journal of Analytical Chemistry, vol.5, no.1, pp.17-21, 2014 (Journal Indexed in SCI Expanded)
- XXXIII. **Removal of Acidic and Basic Dyes from Water using Crosslinked Polystyrene Based Quaternary Ethyl Piperazine Resin**  
Bildik F., TURAN G. T. , Barim G., Şenkal B. F.  
SEPARATION SCIENCE AND TECHNOLOGY, vol.49, no.11, pp.1700-1705, 2014 (Journal Indexed in SCI)
- XXXIV. **Preparation of clay poly glycidyl methacrylate composite support for immobilization of cellulase**  
Şenkal B. F.  
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- XXXV. **Determination of lead in milk and yoghurt samples by solid phase extraction using a novel aminothioazole polymeric resin**  
Şenkal B. F.  
food chemistry, vol.0, no.137, pp.55-61, 2013 (Journal Indexed in SCI)
- XXXVI. **Synthesis of new organic semiconductors based on poly(2-anilinoethanol) doped with different acids and investigation of their electro-optical properties**  
Ahlatcioglu E., Şenkal B. F. , Yakuphanoglu F., Mansour S. A.  
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- XXXVII. **Modification of poly(glycidyl methacrylate) grafted onto crosslinked PVC with iminopropylene glycol group and use for removing boron from water**  
Yavuz E., Gürsel Y., SENKAL B. F.  
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- XXXVIII. **Synthesis of Carbon-Based Nano Materials for Hydrogen Storage**  
Karatepe N., YUCA N., Şenkal B. F.  
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- XXXIX. **Synthesis and adsorption properties of polymeric and polymer-based hybrid adsorbent for hexavalent chromium removal**  
Duranoglu D., Kaya I. G. B. , Beker U., Şenkal B. F.  
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- XL. **Preparation of Sulfonamide Containing Cellulose Based Sorbent for Removal of Mercury Ions**  
Cekli S., YAVUZ E., Şenkal B. F.  
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- XLI. **Network parameters of poly(N-isopropylacrylamide)/montmorillonite hydrogels: effects of accelerator and clay content**  
Erbil C., TOPUZ D., Gökçeören A. T. , Şenkal B. F.  
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- XLII. **Development of Polymeric and Polymer-Based Hybrid Adsorbents for Chromium Removal from Aqueous Solution**  
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- CLEAN-SOIL AIR WATER, vol.39, no.11, pp.980-988, 2011 (Journal Indexed in SCI)
- XLIII. **Immobilization and stabilization of papain on poly(hydroxyethyl methacrylate-ethylenglycol dimethacrylate) beads grafted with epoxy functional polymer chains via surface-initiated-atom transfer radical polymerization (SI-ATRP)**  
Bayramoglu G., Şenkal B. F. , Yilmaz M., Arica M. Y.  
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- XLIV. **Determination and Removing of Lead and Nickel in Water Samples by Solid Phase Extraction Using a Novel Remazol Black B-Sulfonamide Polymeric Resin**  
Timur I., Şenkal B. F. , Karaaslan N. M. , Bal T., Cengiz E., YAMAN M.  
CURRENT ANALYTICAL CHEMISTRY, vol.7, no.4, pp.286-295, 2011 (Journal Indexed in SCI)
- XLV. **Solid Phase Extraction and Determination of Nickel in Water Samples by Using Novel Thiol Containing Sulfonamide Polymeric Resin and Atomic Absorption Spectrophotometer**  
KARAASLAN N. M. , Şenkal B. F. , er ç., avcı h., YAMAN M.  
SPECTROSCOPY AND SPECTRAL ANALYSIS, vol.0, 2011 (Journal Indexed in SCI Expanded)
- XLVI. **Photovoltaic and impedance spectroscopy analysis of p-n like junction for dye sensitized solar cell**  
Yahia I. S. , HAFEZ H. S. , Yakuphanoglu F., Şenkal B. F. , MOTTALEB M. S. A. A.  
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- XLVII. **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 (Journal Indexed in SCI)
- XLVIII. **Impedance spectroscopy properties of polypyrrole doped with boric acid**  
Yakuphanoglu F., YAHIA I. S. , Şenkal B. F. , SAKR G. B. , FAROOQ W. A.  
SYNTHETIC METALS, vol.161, pp.817-822, 2011 (Journal Indexed in SCI)
- XLIX. **Preparation of poly (acrylic acid) containing core-shell type resin for removal of basic dyes**  
Yavuz E., Bayramoglu G., Arica M. Y. , Şenkal B. F.  
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.86, no.5, pp.699-705, 2011 (Journal Indexed in SCI)
- L. **Electrical characterization with atomic force microscopy and low temperature transport properties of boric acid doped polyaniline with Fe<sub>3</sub>O<sub>4</sub> nanoparticles composites**  
Ballestar A., Yakuphanoglu F., Şenkal B. F. , Munoz M., Farooq W. A.  
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.5, pp.177-181, 2011 (Journal Indexed in SCI)
- LI. **Electrical conductivity and optical properties of a new synthesized poly(tetramethylene ethylene diamine) polymer organic semiconductor**  
Yakuphanoglu F., Şenkal B. F. , Farooq W. A.  
OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.5, pp.182-185, 2011 (Journal Indexed in SCI)
- LII. **Poly(N-vinylimidazole) based hydrogen bonded side chain liquid crystalline polymer**  
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- LIII. **Double-walled carbon nanotube/polymer nanocomposites: Electrical properties under dc and ac fields**  
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- LV. **Electrical Characterization of the Boron Trifluoride Doped Poly(3-aminoacetophenone)/p-Si Junction**  
Yakuphanoglu F., Şenkal B. F.  
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- LVI. **Preparation of the Sulfonamide Containing Block Copolymer as Polymeric Sorbent for Removal of Mercury from Aqueous Solutions**  
Gürsel Y., YAVUZ E., GOKAY G., Şenkal B. F.  
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- LVII. **Novel Polymeric Resin for Solid Phase Extraction and Determination of Lead in Waters**  
Şenkal B. F.  
CLEAN-SOIL AIR WATER, vol.0, no.38, pp.1047-0, 2010 (Journal Indexed in SCI)
- LVIII. **Preparation of Dicarboxylic Acid Containing Sulfonamide Based Resin and Removal of Basic Dyes**  
Yavuz E., TEKIN E. T. , Kandaz M., Şenkal B. F.  
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- LIX. **Thiol Containing Sulfonamide Based Polymeric Sorbent for Mercury Extraction**  
Yavuz E., Barim G., Şenkal B. F.  
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- LX. **Synthesis of New Polymeric Resin and Its Application in Solid Phase Extraction of Copper in Water Samples Using STAT-FAAS**  
Timur I., Şenkal B. F. , KAPLAN İNCE O., Kaya G., ÖZCAN C., Karaaslan N. M. , YAMAN M.  
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- LXI. **Fluorescent chemosensor for Ag(I) based on amplified fluorescence quenching of a new phthalocyanine bearing derivative of benzofuran**  
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- LXII. **Poly(vinylbenzylchloride) Beads Grafted with Polymer Brushes Carrying Hydrazine Ligand for Reversible Enzyme Immobilization**  
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- LXIII. **Glycidyl methacrylate grafted on p(VBC) beads by SI-ATRP technique: Modified with hydrazine as a salt resistance ligand for adsorption of invertase**  
Bayramoglu G., YAVUZ E., Şenkal B. F. , Arica M. Y.  
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- LXIV. **Inorganic-organic photodiodes based on polyaniline doped boric acid and polyaniline doped boric acid:nickel(II) phthalocyanine composite**  
Yakuphanoglu F., Kandaz M., Şenkal B. F.  
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- LXV. **Synthesis and liquid crystal properties of phthalocyanine bearing a star polytetrahydrofuran moiety**  
Gursel Y. H. , Şenkal B. F. , Kandaz M., Yakuphanoglu F.  
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- LXVI. **Poly(glycidylmethacrylate) brushes generated on poly(VBC) beads by SI-ATRP technique: Hydrazine and amino groups functionalized for invertase adsorption and purification**  
Yavuz E., BAYRAMOGLU G., Şenkal B. F. , Arica M. Y.  
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- LXVII. **Electrical Conductivity and Optical Properties of Poly(3-thiophene boronic acid) Organic Semiconductor**  
Yakuphanoglu F., Şenkal B. F.  
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- LXVIII. **Preparation of pyridine sulphonamide resin for the removal of dyes from aqueous solutions**  
Şenkal B. F. , TEKIN E. T. , Yavuz E.  
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- LXIX. **A hybrid p-Si/poly(1,4-diaminoanthraquinone) photoconductive diode for optical sensor applications**

- Yakuphanoglu F., Şenkal B. F.  
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- LXX. **Synthesis of New Polymeric Resin and Its Application in Solid Phase Extraction of Copper in Water Samples Using STAT FAAS**  
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- LXXI. **SYNTHESIS AND CHARACTERIZATION OF A NEW PHOTSENSITIVE BENZOFURAN CHALCONE METHACRYLAMIDE MONOMER**  
İLTER Z., Şenkal B. F., YAKUPHANOĞLU F., AHMEDZADE M.  
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- LXXII. **Electrical transport properties of an organic semiconductor on polyaniline doped by boric acid**  
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- LXXIII. **Electrical characterization of the polyaniline including boron/p-type silicon structure for optical sensor applications**  
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- LXXIV. **Current-voltage and capacitance-voltage characteristics of the ITO/polyaniline doped boron trifluoride/Al Schottky diode**  
Yakuphanoglu F., Şenkal B. F.  
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- LXXV. **Current-voltage and capacitance-voltage characteristics of Al/p-type silicon/organic semiconductor based on phthalocyanine rectifier contact**  
Yakuphanoglu F., Kandaz M., Şenkal B. F.  
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- LXXVI. **Electrical conductivity, photoconductivity, and optical properties of poly(1,4-diaminoanthraquinone) organic semiconductor for optoelectronic applications**  
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- LXXVIII. **Electrical conductivity, thermoelectric power, and optical properties of organo-soluble polyaniline organic semiconductor**  
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- LXXIX. **Selective heavy metal receptor functional phthalocyanines bearing thiophenes: Synthesis, characterization, spectroscopy and electrochemistry**  
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