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International Researcher IDs

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ScopusID: 24442962900

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Education Information

Doctorate, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, Turkey 1978 - 1982

Research Areas

Natural Sciences

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 1990 - Continues

Advising Theses

Toppare L. K., The impact of [1,2,5]chalcogenazolo[3,4,F]-benzo[1,2,3]triazole structure on the optoelectronic properties of conjugated polymers, Postgraduate, E.AYDAN(Student), 2020

Toppare L. K., Design, syntheses and structure-property relationships of benzazole and isoindigo comprising conducting polymers/, Doctorate, S.GÖKER(Student), 2019

TOPPARE L. K., ELECTROCHEMICAL SENSING OF GLUCOSE USING CONJUGATED POLYMER/CHITOSAN/MWCNT ARCHITECTURE, Postgraduate, H.ÖZEL(Student), 2019

Çırpan A., Toppare L. K., CONJUGATED POLYMERS WITH BENZOTHIADIAZOLE AND BENZOTRIAZOLE FOR ORGANIC SOLAR CELLS, Postgraduate, M.CAN(Student), 2019

Toppare L. K., Ünalan H. E., Silver nanowire inks for fabrics, Postgraduate, M.NUR(Student), 2019

Çırpan A., Toppare L. K., FUSED CONJUGATED STRUCTURES FOR ORGANIC ELECTRONICS, Doctorate, §.CAN(Student), 2019

TOPPARE L. K., Functionalization and fabrication of polymer based device platform architectures for sensor applications, Doctorate, S.SÖYLEMEZ(Student), 2018

TOPPARE L. K., Inverted organic solar cell applications of benzodithiophene and benzotriazole bearing alternating copolymers, Postgraduate, E.BOLAYIR(Student), 2018

TOPPARE L. K., Investigation of the effects of different macrostructures on conjugated polymer based amperometric

biosensor performance, Postgraduate, E.BÜBER(Student), 2018

TOPPARE L. K., Polymer light emitting diodes and organic solar cells towards ito free devices and high efficiency devices using electrochemically synthesized polymers /, Doctorate, G.Hızalan(Student), 2017

TOPPARE L. K., Synthesis, electrochemical characterization and organic solar cell applications of selenophene containing conjugated polymers, Postgraduate, M.YAŞA(Student), 2017

TOPPARE L. K., Multi-functional polymer scaffolds as biosensors for detection of ethanol and organophosphorous pesticides and as a fluorescent probe for cell imaging purpose, Doctorate, M.KESİK(Student), 2017

TOPPARE L. K., Toppare L., Multi-functional polymer scaffolds as biosensors for detection of ethanol and organophosphorous pesticides and as fluorescent probes for cell imaging purposes, Doctorate, M.Kesik(Student), 2017

TOPPARE L. K., Polymer light emitting diodes and organic solar cells towards ITO free devices and high efficiency devices using electrochemically synthesized polymers, Doctorate, G.HIZALAN(Student), 2017

TOPPARE L. K., Syntheses, spectroelectrochemical and electrochemical characterizations of naphthodithiophene containing polymers for solar cell applications, Postgraduate, E.IŞIK(Student), 2016

TOPPARE L. K., Development of amperometric cholinesterase biosensors based on a conducting polymer for detection of anti-dementia drugs and pesticides, Postgraduate, J.TURAN(Student), 2016

TOPPARE L. K., DOĞAN Ö., Syntheses of new multifunctional donor acceptor type polymers for electrochromic and organic solar cell applications /, Doctorate, Ş.ÖZDEMİR(Student), 2016

TOPPARE L. K., Development of amperometric glucose biosensors based on conducting polymers and different materials providing enhanced performance, Postgraduate, T.CEREN(Student), 2016

TOPPARE L. K., Benzodithiophene and benzotriazole bearing alternating copolymers, effect of thiophene and bithiophene -bridges on photovoltaic properties, Postgraduate, Ç.İSTANBULLUOĞLU(Student), 2016

TOPPARE L. K., Synthesis, photophysical and photovoltaic properties of 11-fluorodibenzo[a,c]phenazine bearing donor-acceptor type conjugated polymers, Postgraduate, E.AKTAŞ(Student), 2016

TOPPARE L. K., Syntheses, electrochemical and spectroelectrochemical characterizations of benzothiadiazole and benzoselenadiazole containing random copolymers, Postgraduate, S.KUTKAN(Student), 2016

TOPPARE L. K., ÇIRPAN A., Syntheses, characterization and optical properties of fluorine containing benzimidazole derivatives, Postgraduate, M.Ileri(Student), 2015

TOPPARE L. K., Benzoselenadiazole, quinoxaline and thienothiophene based monomers; electrochemical and spectroelectrochemical properties, Postgraduate, S.TOKSABAY(Student), 2014

TOPPARE L. K., Syntheses and investigation of optoelectronic properties of 5, 6- BIS (octyloxy) benzo[c] [1,2,5]oxadiazole, Postgraduate, S.Göker(Student), 2014

TOPPARE L. K., A functional immobilization matrix based on a conducting polymer modified with PMMA/clay nanocomposites and gold nanoparticles: Applications to amperometric glucose biosensors, Postgraduate, M.KESİK(Student), 2014

TOPPARE L. K., Development of novel immobilization matrices via surface modification approach for glucose detection and their biosensor applications, Doctorate, S.DEMİRCİ(Student), 2014

TOPPARE L. K., Syntheses and investigation of optoelectronic properties of 5,6-bis(octyloxy)benzo[c][1,2,5]oxadiazole derivatives, Postgraduate, S.GÖKER(Student), 2014

Çırpan A., Toppare L. K., Synthesis, characterizations and photovoltaic applications of dithienothiophene and benzotriazole containing conjugated polymers, Postgraduate, Ş.Can(Student), 2013

TOPPARE L. K., ÇIRPAN A., Synthesis, Chracterizations And Photovoltaic Applications Of Dithienothiophene And Benzotriazole Containing Conjugated Polymers, Postgraduate, Ş.Can(Student), 2013

TOPPARE L. K., ÇIRPAN A., The Combination Of Benzotriazole And N-Functionalized 2,5-Di(2-Thienyl)-1h-Pyrrole Units To Investigate The Electrochromic Properties Of Conjugated Polymers, Postgraduate, E.Rende(Student), 2013

TOPPARE L. K., ÇIRPAN A., Syntheses of new monomeric and polymeric units and electrochemical behaviors for the use in electrochromic applications, Postgraduate, N.Buket(Student), 2013

TOPPARE L. K., Synthesis, spectroscopic and electrochemical studies of perylene containing conjugated copolymers, Postgraduate, Ş.BAYSEC(Student), 2013

TOPPARE L. K., Synthesis and electrochemical studies of fluorene and benzimidazole containing conjugated polymers, Postgraduate, İ.NAMAL(Student), 2013

TOPPARE L. K., Syntheses and characterization of benzimidazole containing polymers: a comparative study on donor

unit effect and influence of H-bonding, Postgraduate, A.Gökçek(Student), 2013

TOPPARE L. K., ÇIRPAN A., Substituted quinoxaline and benzimidazole containing monomers as long wavelength photosensitizers for diaryliodonium salt initiators in photopolymerization, Postgraduate, B.Çorakçı(Student), 2013

TOPPARE L. K., ÇIRPAN A., Syntheses and characterization of benzimidazole containing polymers: A comparitative study on donor unit effect and influence of H-bonding, Postgraduate, A.GÖYÇEK(Student), 2013

TOPPARE L. K., ÇIRPAN A., Synthesis of electroactive benzimidazole derivatives and their electrochromic properties, Postgraduate, A.CAN(Student), 2012

TOPPARE L. K., Electrochromic and photovoltaic applications of conjugated polymers, Postgraduate, D.Hazar(Student), 2012

TOPPARE L. K., Bioactive surface design based on conducting polymers and applications to biosensors, Postgraduate, F.EKİZ(Student), 2012

TOPPARE L. K., Cholesterol oxidase biosensors based on polymer networks of chitosan/alginate acid and chitosan/p(toluenesulfonic acid), Postgraduate, E.Yapar(Student), 2012

TOPPARE L. K., Cholesterol biosensors based on polymer networks of chitosan/alginate acid and chitosan/p(toluenesulfonic acid), Postgraduate, E.YAPAR(Student), 2012

TOPPARE L. K., Spectrophotometric and amperometric biosensors based on conducting polymers of 1-benzyl-2,5-di(thiophen-2-yl)-1H-pyrrole and(4,7-dithien-2-yl-2,1,3-benzothiadiazole), Postgraduate, S.TANRİVERDİ(Student), 2012

TOPPARE L. K., ÇIRPAN A., Electrochemical And Optical Properties Of Solution Processable Benzotriazole And Benzothiadiazole Containing Copolymers, Postgraduate, M.Karakuş(Student), 2011

TOPPARE L. K., ÇIRPAN A., Solution Processable Benzotriazole And Fluorene Containing Copolymers For Photovoltaic Applications, Postgraduate, E.Kaya(Student), 2011

TOPPARE L. K., Toppare L., Dibenzophenazine and quinoxaline derivatives as novel visible photosensitizers for diaryliodonium salts, Postgraduate, M.Kolay(Student), 2011

TOPPARE L. K., Benzyl functionalized benzotriazole containing conjugated polymers: Effect of substituent position on electrochromic properties and synthesis of crown ether functionalized electrochromic polymers, Doctorate, B.YİĞİTSOY(Student), 2011

TOPPARE L. K., Spray processable ambipolar benzotriazole bearing electrochromic polymers with multi-colored and transmissive states, Postgraduate, G.HIZALAN(Student), 2011

HACALOĞLU J., TOPPARE L. K., Investigation of thermal characteristics of a series polyoxazolines by direct pyrolysis mass spectrometry, Postgraduate, N.Atilkan(Student), 2011

TOPPARE L. K., HACALOĞLU J., Electrochemical polymerization of trihaloalkane monomers to form branched C-backbone polymers, Doctorate, Y.NUR(Student), 2011

TOPPARE L. K., Syntheses of benzotriazole bearing donor acceptor type random copolymers for full visible light absorption, Postgraduate, G.ÖKTEM(Student), 2011

TOPPARE L. K., HACALOĞLU J., Investigation of thermal characteristics of a series of polyoxazolines by direct pyrolysis mass spectrometry, Postgraduate, N.ATILKAN(Student), 2011

TOPPARE L. K., Synthesis of benzimidazole containing donor acceptor electrochromic polymers, Postgraduate, H.ZEKİYE(Student), 2011

TOPPARE L. K., Microwave initiated polymerization of trihalophenyleneoxide and aniline, Postgraduate, F.LEVENT(Student), 2011

TOPPARE L. K., Combination of donor characters in donor-acceptor-donor type polymers containing benzothiadiazole and quinoxaline as the acceptor units, Postgraduate, M.ŞENDUR(Student), 2011

TOPPARE L. K., Electrochromic and photovoltaic applications of benzotriazole bearing donor acceptor type conjugated polymers, Postgraduate, D.Baran(Student), 2010

TOPPARE L. K., DOĞAN Ö., Synthesis of new ferrocenyl substituted quinoxaline derivative monomers, their polymerization and electrochemical behaviors, Postgraduate, Ş.ÖZDEMİR(Student), 2010

TOPPARE L. K., Tuning the optoelectronic properties of conjugated polymers via donor-acceptor-donor architectures, Doctorate, S.TARKUÇ(Student), 2010

TOPPARE L. K., Design and synthesis of novel donor-acceptor type monomers and investigation of optoelectronic properties of their polymers, Doctorate, E.KÖSE(Student), 2010

TOPPARE L. K., Amperometric microbial and enzymatic biosensors based on conducting polymers, Postgraduate,

S.TUNÇAĞIL(Student), 2010

TOPPARE L. K., Amperometric cholesterol and alcohol biosensors based on conducting polymers, Doctorate,

Ö.TÜRKARSLAN(Student), 2010

TOPPARE L. K., Electrochromic and photovoltaic applications of benzotriazole bearing donor acceptor type conjugated polymers, Postgraduate, D.BARAN(Student), 2010

TOPPARE L. K., Novel donor-acceptor type green polymer bearing pyrrole as the donor unit with excellent switching times and very low band gap and its multichromic copolymers, Postgraduate, S.ÇELEBİ(Student), 2009

TOPPARE L. K., Realization of neutral state green polymeric materials, Postgraduate, A.DURMUŞ(Student), 2009

TOPPARE L. K., Synthesis and electrochromic properties of conducting polymers of 4-(2,5-Di(thiophen-2-yl)-1H-pyrrol-1-yl) benzenamine and their use in electrochromic devices, Postgraduate, E.YILDIZ(Student), 2009

TOPPARE L. K., Synthesis of benzotriazole bearing donor acceptor type electroactive monomers towards high optical contrast and fast switching electrochromic materials, Postgraduate, A.Balan(Student), 2009

TOPPARE L. K., Synthesis and electrochromic properties of a multichromic, conducting, soluble polythiophene derivative and its copolymer, Postgraduate, F.ÖZYURT(Student), 2009

TOPPARE L. K., Synthesis and electrochromic properties of conducting polymers of 5,8-Di(pyrrol-2-yl)-2,3-di(thiophen-2-yl) quinoxaline and its copolymers, Postgraduate, A.TUBA(Student), 2009

TOPPARE L. K., The synthesis of donor-acceptor type electroactive monomers bearing pyrrole and selenophene as the donor moieties and their polymers, Postgraduate, B.EPİK(Student), 2009

TOPPARE L. K., A new p and n dopable selenophene derivative and its electrochromic properties, Postgraduate, G.GARDAHAN(Student), 2008

TOPPARE L. K., Synthesis of a new conducting polymer based on functionalized anthracene and its uses as an electrochromic device component, Postgraduate, A.GÜL(Student), 2008

TOPPARE L. K., Electrochromism with selenophene derivatives, Postgraduate, K.AYDEMİR(Student), 2008

TOPPARE L. K., Biosensor based on interpenetrated polymer network of alginic acid and poly (1-vinylimidazole), Postgraduate, M.KARTAL(Student), 2008

TOPPARE L. K., Synthesis and characterization of conducting copolymers of thiophene ended poly (ethyleneoxide): Their electrochromic properties and use in enzyme immobilization, Doctorate, H.BEKİR(Student), 2007

TOPPARE L. K., Novel donor-acceptor type polymers towards excellent neutral state green polymeric materials for realization of RGB based electrochromic device applications, Postgraduate, G.EMRULLAH(Student), 2007

TOPPARE L. K., Immobilization of tyrosinase in polysiloxane/polypyrrole copolymer matrices, Postgraduate, A.ARSLAN(Student), 2006

TOPPARE L. K., Synthesis, characterization and electrochromic properties of conducting copolymers of terephthalic acid bis-(thiophen-3-ylmethyl)thioester and conducting polymer of 1-(4-fluorophenyl)-2,5-di(thiophen-2-yl)-1H-pyrrole, Postgraduate, Ö.TÜRKARSLAN(Student), 2006

TOPPARE L. K., Synthesis and characterization of a new soluble polythiophene derivative and its electrochromic application, Postgraduate, S.TARKUÇ(Student), 2006

TOPPARE L. K., Synthesis and electrochromic properties of conducting polymers of succinic acid bis-(2-thiophen-3-yl-ethyl) ester and their use in electrochromic devices, Postgraduate, L.SAÇAN(Student), 2006

TOPPARE L. K., Immobilization of glucose oxidase and polyphenol oxidase in conducting copolymer of pyrrole functionalized polystyrene with pyrrole, Postgraduate, O.Ekinci(Student), 2006

TOPPARE L. K., Activity analysis of immobilized tyrosinase enzyme in the presence of different inhibitors, Postgraduate, I.NARLI(Student), 2006

TOPPARE L. K., Synthesis of polythiophene and polypyrrole derivatives and their application in electrochromic devices, Doctorate, M.AK(Student), 2006

TOPPARE L. K., Synthesis and electrochromic properties of conducting polymers of 1-(4-nitrophenyl)-2,5-di(2-thienyl)-1H-pyrrole and their use in electrochromic devices, Postgraduate, S.VARIŞ(Student), 2006

TOPPARE L. K., Synthesis of a new thiophene derivative and its uses as an electrochromic device component, Postgraduate, B.YİĞİTSOY(Student), 2006

TOPPARE L. K., Immobilization of glucose oxidase and polyphenol oxidase in conducting copolymer of pyrrole functionalized polystyrene with pyrrole, Postgraduate, O.EKİNÇİ(Student), 2006

TOPPARE L. K., Immobilization of glucose oxidase and polyphenol oxidase in poly(n-(4-(3-thienyl methylene)-

oxycarbonylphenyl) maleimide)-co-pyrrole) matrice, Postgraduate, M.ÇİL(Student), 2006

TOPPARE L. K., Syntheses of conducting polymers of 3-ester substituted thiophenes and characterization of their electrochromic properties, Doctorate, P.ÇAMURLU(Student), 2006

TOPPARE L. K., Activity analysis of immobilized tyrosinase in the presence of different inhibitors, Postgraduate, I.Narlı(Student), 2006

TOPPARE L. K., Synthesis, characterization and electrochromic properties of conducting copolymers of terephthalic acid bis-(thiophen-3-ylmethyl)thioester with thiophene and pyrrole and conducting polymer of 1-(4-fluorophenyl)-2,5-di(thiophen-2-yl)-1h-pyrrole, Postgraduate, Ö.Türkarslan(Student), 2006

TOPPARE L. K., Synthesis and electrochromic properties of conducting polymers of 1-(4-nitrophenyl)-2,5-di(2-thienyl)-1H-pyrrole and their use in eletctrochromic devices, Postgraduate, S.Varış(Student), 2006

TOPPARE L. K., Synthesis and electrochromic properties of conducting copolymers of dioxocino -and dithiocino-quinoxalines with bithiophene, Postgraduate, Ş.BEYAZYLDIIM(Student), 2005

TOPPARE L. K., Immobilization of invertase, polyphenol oxidase and glucose oxidase n conducting copolymers of thiophene-capped polytetrahydrofuran and pyrrole, Doctorate, A.Elif(Student), 2005

TOPPARE L. K., Immobilization of invertase, polyphenol oxidase and glucose oxidase in conducting copolymers of thiophene-capped polytetrahydrofuran and pyrrole, Doctorate, A.ELİF(Student), 2005

TOPPARE L. K., Synthesis of conducting block copolymers and their use in the immobilization of invertase and polyphenol oxidase enzymes, Doctorate, S.KIRALP(Student), 2004

TOPPARE L. K., HACALOĞLU J., Characterization of conducting polymers of ester linkage containing thiophene derivatives via mass spectroscopy, Postgraduate, EASLAN(Student), 2004

TOPPARE L. K., Synthesis and characterization of poly(oxalic acid dithiophen-3-yl methyl ester) and thiophene ended poly-caprolactone, Postgraduate, İ.Kerman(Student), 2004

TOPPARE L. K., İletken aşı kopolimerlerin sentezi ve bunların enzim tutklama matrisleri olarak kullanımları, Doctorate, E.ŞAHMETLİOĞLU(Student), 2004

TOPPARE L. K., Synthesis of conducting polymers of terephthalic acid bis-(2-thiophen-3-yl-ethyl)ester and investigation of their electrochromic properties, Postgraduate, Y.Coşkun(Student), 2004

TOPPARE L. K., Synthesis of block conducting copolmers of cholesteryl functionalized thiophene and their use in the immobilization of cholesterol oxidase, Doctorate, A.Çırpan(Student), 2004

TOPPARE L. K., Synthesis of block conducting copolymers of cholesteryl functionalized thiophene and their use in the immobilization of cholesterol oxidase, Doctorate, A.ÇIRPAN(Student), 2004

TOPPARE L. K., Synthesis and characterization of poly(oxalic acid dithiophen-3-Yl methly ester) and thiophene ended poly-?-caprolactone, Postgraduate, İ.KERMAN(Student), 2004

TOPPARE L. K., Synthesis of conducting polymers of terephthalic acid bis-(2- thiophen-3-YL-ethyl) ester and investigagition of their electrochromic properties, Postgraduate, Y.COŞKUN(Student), 2004

TOPPARE L. K., ÖZKAN İ., Quantum chemical study of geometries and electronic structures of aromatic five-membered heterocyclic oligomers in the ground and lowest singlet excited states, Postgraduate, N.ÖKSÜZ(Student), 2004

TOPPARE L. K., HACALOĞLU J., Synthesis of conducting copolymer of succinic acid bis-(pyrrolyl-phenyl) ester with thiophene, Postgraduate, M.ERTAŞ(Student), 2003

YILMAZ L., TOPPARE L. K., Gas permeation properties of poly (arlyene ether ketone) and its mixed matrix membranes with polypyrrrole, Postgraduate, G.MERGEN(Student), 2003

TOPPARE L. K., Synthesis and characterization of a random copolymer having variable thiophene units on the backbone, Postgraduate, Y.GÜNER(Student), 2003

TOPPARE L. K., Synthesis and characterization of conducting copolymers of carboxylic acid multithiophene functionalized monomers, Postgraduate, U.BULUT(Student), 2003

TOPPARE L. K., Synthesis and characterization of conducting copolymers of thiophene functionalized monomers and polymers, Postgraduate, Ö.Papila(Student), 2003

TOPPARE L. K., Synthesis characterization of conducting copolymers of thiophene functionalized monomers and polymers, Postgraduate, Ö.PAPILA(Student), 2003

TOPPARE L. K., Synthesis and characterization of thiophen-3-yl-acetic acid 4-pyrrol-1-yl-phenyl ester and its conducting polymers, Postgraduate, B.BİNGÖL(Student), 2003

TOPPARE L. K., YILMAZ L., Gas permeation properties of poly(arlyene ether ketone) and its mixed matrix membranes

with polypyrrole, Postgraduate, G.Mergen(Student), 2003

TOPPARE L. K., Synthesis of thiophene capped polytetrahydrofuran conducting copolymers, Postgraduate, E.ÜNÜR(Student), 2003

TOPPARE L. K., Immobilization of invertase and glucose oxidase in conducting m-type polysiloxane/ polypyrrole block copolymer matrices, Postgraduate, A.GÜRSEL(Student), 2002

TOPPARE L. K., Toppare L., Conducting block copolymers of thiophene-capped poly(methyl methacrylate) with pyrrole and their uses in immobilization of enzymes, Doctorate, S.Alkan(Student), 2002

TOPPARE L. K., Immobilization of invertase and glucose oxidase in poly 2-methylbutyl-2-(3-thienyl) acetate/ polypyrrrole matrices, Postgraduate, S.IŞIK(Student), 2002

TOPPARE L. K., HACALOĞLU J., Synthesis of blocks copolymers of (S)-2-methylbutyl 2-(3-thienyl) acetate and its characterization via pyrolysis mass spectrometry, Postgraduate, A.LEVENT(Student), 2002

TOPPARE L. K., AKBULUT U., Immobilization of *saccharomyces cerevisiae* in graft copolymers of pyrrole, Postgraduate, Z.BALCI(Student), 2001

TOPPARE L. K., Investigation of pyrrole end capped polytetrahydrofuran graft copolymers via mass spectrometry, Postgraduate, C.ÖZDİLEK(Student), 2001

YILMAZ L., TOPPARE L. K., Effect of preparation parameters on performance of dense homogeneous polycarbonate and polypyrrrole-polycarbonate mixed matrix membranes, Postgraduate, P.HACARLIOĞLU(Student), 2001

TOPPARE L. K., Immobilization of glucose oxidase enzyme in conducting graft copolymers of pyrrole, Postgraduate, S.TİRKEŞ(Student), 2001

TOPPARE L. K., TİNÇER İ. T., Mechanical properties of graft copolymers of polypyrrrole, Postgraduate, C.BİRAN(Student), 2001

TOPPARE L. K., TİNÇER İ. T., Preparation of a conducting flexible material from silane coupling agent and hydroxyl terminated polybutadiene rubber by hydrolysis and condensation., Postgraduate, Y.KARATAŞ(Student), 2001

TOPPARE L. K., Synthesis and characterization of conducting polysiloxane-polypyrrrole graft copolymers, Postgraduate, Ö.GÜNAYDIN(Student), 2001

TOPPARE L. K., Immobilization of invertase in pyrrole capped polyazotetrahydrofuran/polypyrrrole and polytetrahydrofuran-block-polystyrene/polypyrrrole conducting gr..., Postgraduate, R.ERGİNER(Student), 2000

TOPPARE L. K., Synthesis of conduating graft copolymers of 2-(N-pyrrolyl)ethylvinylether with pyrrole, Postgraduate, B.BENGÜ(Student), 2000

TOPPARE L. K., HACALOĞLU J., Structural investigation of conducting polymer graft of pyrrole via mass spectrometry, Postgraduate, T.UYAR(Student), 2000

TOPPARE L. K., Conducting polymers of N-pyrolyl ethyevinyl ether and polysiloxones, Postgraduate, E.KALAYCIOĞLU(Student), 1999

TOPPARE L. K., Conducting graft copolymers of polytetrahydrofuran polystyrene with polypyrrrole, Postgraduate, S.ÖZTEMİZ(Student), 1999

TOPPARE L. K., Conducting copolymers of polypyrrrole/polytetrahydrofuran and immobilization of invertase in these matrices, Postgraduate, N.KIZILYAR(Student), 1998

TOPPARE L. K., Conducting polymers and composites of pyrrole and their uses as sensors, Doctorate, F.SELAMPINAR(Student), 1997

TOPPARE L. K., Conducting polymer composites of polypyrore and polyindne, Postgraduate, A.BOZKURT(Student), 1996

TOPPARE L. K., AKBULUT U., Electrochemically obtained insulating and conducting polymers and composites of acrylonitrile., Doctorate, B.YURTTAŞ(Student), 1996

TOPPARE L. K., AKBULUT U., Synthesis of polythiophene conducting polymer composites, Postgraduate, F.VATANSEVER(Student), 1995

TOPPARE L. K., Semiempirical calculations on the polymerization mechenism of throphere and some derivaties, Postgraduate, G.KILIÇ(Student), 1995

TOPPARE L. K., A Theoretical investigation of the interaction between conducting and insulating polyness, Postgraduate, S.BAHÇECİ(Student), 1995

TOPPARE L. K., Synthesis of polypyrrrole conducting polymer composites, Postgraduate, F.SELAMPINAR(Student), 1993

TOPPARE L. K., Electroinitiated polymerization of acrylamide, acrolein and copolymerization., Doctorate, B.HACIOĞLU(Student), 1988

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Synthesis and nanoparticle formation of pyrazine, benzodithiophene (BDT) and fluorene containing conjugated polymer (P-PBF) and its biosensing performance toward catechol**
Oncu S., Yeniterzi D., Karakurt O., Cakmaktepe S., ÇIRPAN A., Soylemez S., TOPPARE L. K.
Microchemical Journal, vol.207, 2024 (SCI-Expanded)
- II. **Design, Synthesis, and Theoretical Studies on the Benzoxadiazole and Thienopyrrole Containing Conjugated Random Copolymers for Organic Solar Cell Applications**
Karakurt O., Oral P., Hacioglu S. O., Yilmaz E. A., Haciefendioğlu T., Bicer U. I., Ozcelik E., Ozsoy G. H., Yildirim E., Toppare L. K., et al.
Macromolecular Rapid Communications, vol.45, no.19, 2024 (SCI-Expanded)
- III. **Enhancing electrochromic supercapacitor electrode performance through different donor compartments in D-A-D type conjugated polymers**
Cevher D., CEVHER Ş. C., TOPPARE L. K., ÇIRPAN A.
Journal of Energy Storage, vol.74, 2023 (SCI-Expanded)
- IV. **Cobalt-doped MoO₃ thin films and dual-band electrochromic devices with excellent cyclic stability**
Tutel Y., Durukan M. B., Hacioglu S. O., Baskose U. C., Toppare L. K., Unalan H. E.
Applied Materials Today, vol.35, 2023 (SCI-Expanded)
- V. **Building Block Engineering toward Realizing High-Performance Electrochromic Materials and Glucose Biosensing Platform**
Karabag A., Soyler D., UDUM Y., TOPPARE L. K., GÜNBAS E. G., Soylemez S.
Biosensors, vol.13, no.7, 2023 (SCI-Expanded)
- VI. **Electrochemical detection of Oxaliplatin induced DNA damage in G-quadruplex structures**
Osmanogulları S. C., FOROUGH M., PERSİL ÇETİNKOL Ö., UDUM Y., Toppare L.
ANALYTICAL BIOCHEMISTRY, vol.671, 2023 (SCI-Expanded)
- VII. **Structure-Electrochemical Property Relationship of F vs 2F Substituents in Low Bandgap Conjugated Polymers**
Cevher D., TOPPARE L. K., ÇIRPAN A.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.170, no.6, 2023 (SCI-Expanded)
- VIII. **Electrochemical and optical properties of 3',4'-bis(alkyloxy)-2,2':5',2"-terthiophene bearing multifunctional polymers: Effect of alkyl chain length on electrochromic properties**
YİĞİT D., Hacioglu S. O., GÜLLÜ M., Toppare L.
Journal of Macromolecular Science, Part A: Pure and Applied Chemistry, vol.60, no.6, pp.384-396, 2023 (SCI-Expanded)
- IX. **D-A-D type functional conducting polymer: Development of its electrochromic properties and laccase biosensor**
UDUM Y., Aktas Gemci M., Cevher D., Soylemez S., ÇIRPAN A., Toppare L.
Journal of Applied Polymer Science, vol.140, no.11, 2023 (SCI-Expanded)
- X. **A follow-up investigation: Organic solar cells based on chalcogenophene-Thieno[3,4-c]pyrrole-4,6-dione-chalcogenophene containing random conjugated polymers**
Alemdar E., Yasa M., Cirpan A., Toppare L. K.
Journal of Electroanalytical Chemistry, vol.932, 2023 (SCI-Expanded)
- XI. **Dark conduction mechanisms of PTQBDT based heterojunction diode**
Gullu H. H., Yildiz D. E., Hacioglu S. O., ÇIRPAN A., TOPPARE L. K.
PHYSICA SCRIPTA, vol.98, no.1, 2023 (SCI-Expanded)
- XII. **Innovative polymer engineering for the investigation of electrochemical properties and biosensing ability**
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TOPPARE L. K., Project Supported by Higher Education Institutions, BENZİMİDAZOL TÜREVLERİNİN SENTEZİ, KARAKTERİZASYONU VE GÜNEŞ PILİ UYGULAMALARI, 2017 - 2017

TOPPARE L. K., Project Supported by Higher Education Institutions, İLETKEN POLİMER VE GRAPHENE BAĞLI YENİ YÜZEY TASARIMI: GLİKOZ TAYİNİ İÇİN BİYOSENSÖR YAPIMI, 2017 - 2017

Toppare L. K., H2020 Project, Eco friendly digital advertising display, based on novel printable electrochromic polymers, 2014 - 2017

TOPPARE L. K., GÖKER S., EREL GÖKTEPE İ., ÇORUH N., ÇIRPAN A., GÜNBAS E. G., ZORA M., Project Supported by Higher Education Institutions, Pestisit tayinine dönük biyosensörlerin hazırlanması, 2016 - 2016

TOPPARE L. K., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

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TOPPARE L. K., Project Supported by Higher Education Institutions, Tiyofen ve Selenofen türevlerinin sentezi, elektrokromik ve güneş gözesi uygulamaları, 2015 - 2015

TOPPARE L. K., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

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TOPPARE L. K., EKİZ KANIK F., Project Supported by Higher Education Institutions, DAD TİPİ İLETKEN POLİMERLERİN SENTEZİ KANSER HÜCRELERİ HEDEFLENMESİNDE KULLANIMI: MULTİFONKSİYONEL GÖRÜNTÜLEME VE TEŞHİS PLATFORMLARI, 2013 - 2013

TOPPARE L. K., ÖKTEM G., Project Supported by Higher Education Institutions, POLİMER ANA ZİNCİRİ ÜZERİNDE ASETİLENİK GRUPLAR İÇEREN SIRALI VE RASTGELE KOPOLİMERLERİN SENTEZİ VE OPTOELEKTRONİK ÖZELLİKLERİNİN İNCELENMESİ, 2013 - 2013

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TOPPARE L. K., ÖZELÇAĞLAYAN A. C., Project Supported by Higher Education Institutions, ELEKTROAKTİF BENZİMİDAZOL TÜREVLERİNİN SENTEZİ VE ELEKTROKROMİK ÖZELLİKLERİ, 2013 - 2013

TOPPARE L. K., BAYSEÇ Ş., Project Supported by Higher Education Institutions, ANA ZINCİRİNDE PERILENDİIMIT VE BENZOTRIAZOL ÜNİTELERNİ İÇEREN DONÖR AKSEPTÖR YAPISINDA SIRALI VE RASGELE KOPOLİMERLERİN SENTEZİ VE OPTOELEKTRONİK ÖZELLİKLERİNİN İNCELENMESİ, 2013 - 2013

TOPPARE L. K., HIZALAN G., Project Supported by Higher Education Institutions, KUİNOLİN VE BENZOTRIAZOL İÇEREN DONOR- AKSEPTÖR TİPİ KOPOLİMER SENTEZLENMESİ VE GÜNEŞ PİLİ UYGULAMALARI, 2013 - 2013

TOPPARE L. K., ATAMAN S., Project Supported by Higher Education Institutions, TELLUR İÇEREN KONJUKE POLİMER SENTEZİ VE POLİMERLERİN ELEKTROKİMYASAL VE GÜNEŞ PİLİ UYGULAMALARI, 2013 - 2013

TOPPARE L. K., RENDE E., Project Supported by Higher Education Institutions, TİYOFEN VE BENZOTRIAZOL ÜNİTELERNİ İÇEREN YENİ MONOMERLERİN SENTEZİ VE ELEKTROKROMİK UYGULAMALARI, 2013 - 2013

TOPPARE L. K., APAYDİN D. H., Project Supported by Higher Education Institutions, AZOBENZEN VE FLOREN İÇEREN POLİMERLERİN ORGANİK GÜNEŞ PİLİ UYGULAMALARI, 2013 - 2013

TOPPARE L. K., KURTULGU M., Project Supported by Higher Education Institutions, BENZOBİSTİYAZOL İÇEREN POLİMERLERİN SENTEZİ VE FOTOVOLTAİK UYGULAMALARI, 2013 - 2013

TOPPARE L. K., KESİK M., Project Supported by Higher Education Institutions, PMMA/ KİL NANOKOMPOZİTLER İLE MODİFİYE EDİLEN İLETKEN POLİMER BAZLI FONKSİYONEL IMMOBİLİZASYON MATRİSİ: AMPEROMETRİK GLUKOZ BİYOSENSÖRÜ UYGULAMALARI, 2013 - 2013

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TOPPARE L. K., NURİOĞLU A. G., Project Supported by Higher Education Institutions, 15-CROWN-5 İÇEREN POLİBENZEN TÜREVİ POLİMER SENTEZİ VE KATYON TUTUKLAMASI UYGULAMALARI, 2013 - 2013

TOPPARE L. K., DEMİRCİ S., Project Supported by Higher Education Institutions, İLETKEN POLİMER TABANLI BİYOAKTİF YÜZEY TASARIMI VE BİYOSENSÖR UYGULAMALARI, 2013 - 2013

TOPPARE L. K., ZAİFOĞLU N. B., Project Supported by Higher Education Institutions, FENANTREN, TİYOFEN VE ETİLENDİOKİTİYOFEN İÇEREN KONJÜGE POLİMERLERİN SENTEZİ, ELEKTROKROMİK VE FOTOVOLTAİK UYGULAMALARI, 2013 - 2013

TOPPARE L. K., Project Supported by Higher Education Institutions, Kolineraz İnhibitorlarının Analizine Yönelik Elektrokimyasal Biyodedektörlerin Tasarımı Ve Uygulamaları, 2011 - 2013

TOPPARE L. K., Project Supported by Higher Education Institutions, Donör- Akseptör Tipi Polimerlerin Elektrokromik Cihaz, Güneş Pili Ve İşık Saçan Diyotlarda Kullanımı, 2012 - 2012

TOPPARE L. K., Project Supported by Higher Education Institutions, Döner-Akseptör Tipi Monomerlerin Sentezi Ve Elektrokimyasal Ve Kimyasal Polimerizasyonu, 2011 - 2011

TOPPARE L. K., Project Supported by Higher Education Institutions, Elektrokimyasal Olarak Üretilmiş Poli(karbin Silan) Polimerlerden Seramik Ve Metal Yüzeylerde Elmas/elmas-Silikon Karbid Film Sentezlenmesi Ve Bu Filmin Özelliklerinin Araştırılması, 2011 - 2011

TOPPARE L. K., Project Supported by Higher Education Institutions, Donör-Akseptör Tipi Monomerlerin Sentezi Ve Elektrokromik Polimerlerinin Üretimi, 2010 - 2010

TOPPARE L. K., Project Supported by Higher Education Institutions, Tiyofen, Pirolselenofen, 3,4-Etilendioksitiyofen Türevi Monomerlerin Sentezi Ve Elektromik Camlarda Kullanımı, 2009 - 2009

Activities in Scientific Journals

Turkish Journal of Chemistry, Advisory Committee Member, 2010 - Continues
Macedonian Journal Of Chemistry And Chemical Engineering, Committee Member, 2010 - Continues

Memberships / Tasks in Scientific Organizations

Bilim Akademisi, Member, 2012 - Continues

Scientific Refereeing

JOURNAL OF ELECTROANALYTICAL CHEMISTRY, SCI Journal, December 2021
DYES AND PIGMENTS, SCI Journal, November 2021
POLYMER, SCI Journal, November 2021
TALANTA, SCI Journal, October 2021
Journal of Polymer Science, SCI Journal, October 2021
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MACROMOLECULAR CHEMISTRY AND PHYSICS, National Scientific Refreed Journal, October 2019
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JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, SCI Journal, June 2019
POLYMER BULLETIN, National Scientific Refreed Journal, May 2019
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Scientific Consultations

Vestel, Project Consultancy, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, Turkey, 2019 - Continues

Metrics

Publication: 566
Citation (WoS): 11147
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H-Index (WoS): 50
H-Index (Scopus): 49

Congress and Symposium Activities

SYNTHESSES OF 2,1,3-BENZOTHIADIAZOLE COMPRISING POLYMERS:THE EFFECT OF DISCRETE FUNCTIONAL GROUPS ON DEVICE PERFORMANCE AND OPTOELECTRONIC PROPERTIES, Attendee, İstanbul, Turkey, 2019
Synthesis and Characterization of a Quinoxaline and Benzodithiophene Comprising Multifunctional Polymer, Attendee, İstanbul, Turkey, 2019
Benzimidazole Derivatives and Their Electrochemical Applications, Attendee, İstanbul, Turkey, 2019
ELECTROCHEMICAL AND BIOSENSING APPLICATION OF ANTHRACENE-BASED CONJUGATED POLYMER , Attendee, Çanakkale, Turkey, 2019
AMPEROMETRIC ETHANOL BIOSENSOR CONSTRUCTED BY CARBON NANOTUBES AND A FLUORENE BASED POLYMER, Attendee, Çanakkale, Turkey, 2019
Glucose Oxidase Immobilization on Thiazolothiazole Containing Multichromic Polymer Matrice for Glucose Detection , Attendee, İstanbul, Turkey, 2019