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Education

Doctorate, Ankara University, Ankara Üniversitesi Fen Bilimleri Enstitüsü , Kimya Anabilimdalı, Turkey 2004 - 2009

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Quality Management, 17025 1.ISO 17025 Laboratuvar Akreditasyon Kalite Yönetim Sistemi Temel Eğitimi, İstanbul Gıda Kontrol Laboratuvarı, 2011

Quality Management, ISO 17025 Ölçüm Belirsizliği Eğitimi, İstanbul Gıda Kontrol Laboratuvarı, 2011

Quality Management, ISO 17025 Metot Validasyon Eğitimi, İstanbul Gıda Kontrol Laboratuvarı, 2011

Quality Management, .ISO 17025 Laboratuvar Akreditasyon Kalite Yönetim Sistemi Dokümantasyon Eğitimi, İstanbul Gıda Kontrol Laboratuvarı, 2011

Quality Management, ISO 17025 Laboratuvar Akreditasyon Kalite Yönetim Sistemi İç Tetkik Eğitimi, İstanbul Gıda Kontrol Laboratuvarı, 2011

Quality Management, 17025 Eğitimi (deney ve kalibrasyon laboratuvarlarının yeterliliği için genel şartlar), Çanakkale Gıda Kontrol Laboratuvarı, 2009

Dissertations

Doctorate, Oksidatif polikondenzasyon ile aromatik halkalı azometin polimerlerinin sentezi ve karakterizasyonu, Ankara University, Fen Bilimleri Enstitüsü, Kimya, 2009

Postgraduate, Oligo-4-[(pridin-3-il-metilen)amino]fenolün sentezi, karekterizasyonu ve termal özelliklerinin incelenmesi, Ankara University, Fen Bilimleri Enstitüsü , Kimya Anabilimdalı, 2003

Research Areas

Chemistry, Physical Chemistry, Polymeric Materials, Natural Sciences

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Polyindole coated NiCo₂S₄ composites as high-performance supercapacitor electrode materials**
Otluca H. E., Budak Ö., Bilici A., Koca A.
JOURNAL OF ENERGY STORAGE, vol.86, pp.1-11, 2024 (SCI-Expanded)
- II. **Salvia officinalis leaf extract-stabilized NiO NPs, ZnO NPs, and NiO@ZnO nanocomposite: Green hydrothermal synthesis, characterization and supercapacitor application**
Zenkin K., Durmuş S., EMRE D., BİLİZİ A., YILMAZ S.
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- III. **Graphene quantum dots-polyfluorene hybrid nanobiosensor for mitomycin C-DNA interaction sensing**
Emre D., Denizhan N., Ozkan-Ariksoysal D., Bilici A., Sonkaya Ö., Algi F., Yilmaz S.
MATERIALS SCIENCE & ENGINEERING B: SOLID-STATE MATERIALS FOR ADVANCED TECHNOLOGY, vol.299, pp.116944, 2024 (SCI-Expanded)
- IV. **Adsorption of uranium (VI) from aqueous solutions using boron nitride/polyindole composite adsorbent**
Emre D., Zorer Ö. S., Bilici A., Budak E., Yilmaz S., Kilic N. C., Sogut E. G.
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- V. **A novel electrochemical biosensor based on palladium nanoparticles decorated on reduced graphene oxide-polyaminophenol matrix for the detection and discrimination of mitomycin C-DNA and acyclovir-DNA interaction**
Yanik S., Emre D., Alp M., Algi F., Yilmaz S., Bilici A., Ariksoysal D.
Journal of Pharmaceutical and Biomedical Analysis, vol.234, 2023 (SCI-Expanded)
- VI. **Porous graphitic carbon nitride nanosheets coated with polyfluorene for removal of Malachite green and Methylene blue dyes and Cu (II) ions**
Sogut E. G., Emre D., Bilici A., Kilic N. C., Yilmaz S.
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- VII. **Fabrication of PAMP/Au and GO/PAMP/Au nanosensors for electrochemical detection of paracetamol in pharmaceutical preparations**
Bilici A., Denizhan N., Emre D., Soylukan C., Algi F., Yilmaz S.
MONATSHEFTE FÜR CHEMIE, vol.152, no.12, pp.1539-1552, 2021 (SCI-Expanded)
- VIII. **Enzyme Catalyzed Synthesis of Water Soluble Mesalazine Oligomers and Evaluation of their Efficiency in Polypropylene Stabilization**
Bilici A., Cogal Y., Gecibesler İ. H., Kaya İ.
POLYMER SCIENCE SERIES B, vol.63, no.6, pp.710-721, 2021 (SCI-Expanded)
- IX. **Synthesis, characterization and application of Ru(II) complexes containing pyridil ligands for dye-sensitized solar cells**
DAYAN O., Ozdemir N., Yakuphanoglu F., Serbetci Z., BİLİZİ A.
MATERIALS SCIENCE-POLAND, vol.38, no.3, pp.450-458, 2020 (SCI-Expanded)
- X. **Synthesis and antioxidant activities of phenolic Schiff base monomers and polymers**
Yuksel E., Bilici A., Geçibesler İ. H., Kaya İ.
CANADIAN JOURNAL OF CHEMISTRY, vol.98, no.3, pp.151-157, 2020 (SCI-Expanded)
- XI. **Synthesis and photovoltaic properties of new Ru(II) complexes for dye-sensitized solar cells**
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- XII. **Biocatalytic Synthesis of a Novel Polyaniline Derivative and Its Usage for Polypropylene Stabilization**
Bilici A., Geçibesler İ. H., Coga Y., Kaya İ.
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- XIII. **Enzymatic synthesis of 5-amino quinoline oligomers and evaluation of their free radical scavenging activity**
Bilici A., Geçibesler İ. H., Kaya İ.
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- XIV. **Peroxidase/H₂O₂ catalyzed oxidative oligomerization of 1-aminopyrene**
KAYA İ., BİLİCİ A., TEZEL R. N., TEMİZKAN K., DOĞAN F.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.54, no.4, pp.243-248, 2017 (SCI-Expanded)
- XV. **Chemical oxidative polymerization, optical, electrochemical and kinetic studies of 8-amino-2-naphthol**
DOĞAN F., KAYA İ., BİLİCİ A., Yıldırım M.
JOURNAL OF POLYMER RESEARCH, vol.22, no.6, 2015 (SCI-Expanded)
- XVI. **Facile preparation of gold nanoparticles on the polyquinoline matrix: Catalytic performance toward 4-nitrophenol reduction**
BİLİCİ A., Ayten B., KAYA İ.
SYNTHETIC METALS, vol.201, pp.11-17, 2015 (SCI-Expanded)
- XVII. **Facile chemical route to copper/polymer composite: Simultaneous reduction and polymerization**
BİLİCİ A., TEZEL R. N., KAYA İ.
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, vol.459, pp.254-260, 2014 (SCI-Expanded)
- XVIII. **6-Hydroxyquinoline Oligomers Emit White Light**
DOĞAN F., BİLİCİ A., Yıldırım M., KAYA İ.
SCIENCE OF ADVANCED MATERIALS, vol.6, no.9, pp.1957-1964, 2014 (SCI-Expanded)
- XIX. **Catalytic Oxidation of 2,7-Dihydroxynaphthalene**
BİLİCİ A., DOĞAN F., KAYA İ.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.53, no.1, pp.104-109, 2014 (SCI-Expanded)
- XX. **Facile synthesis of self-stabilized polyphenol nanoparticles**
BİLİCİ A., DOĞAN F., Yıldırım M., KAYA İ.
MATERIALS CHEMISTRY AND PHYSICS, vol.140, no.1, pp.66-74, 2013 (SCI-Expanded)
- XXI. **Tunable Multicolor Emission in Oligo(4-hydroxyquinoline)**
Bilici A., DOĞAN F., Yıldırım M., KAYA İ.
JOURNAL OF PHYSICAL CHEMISTRY C, vol.116, no.37, pp.19934-19940, 2012 (SCI-Expanded)
- XXII. **Phenol side-groups-containing fluorene polymer synthesized by catalytic oxidative polymerization**
Bilici A., KAYA İ., ŞENOL D.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.22, no.12, pp.1953-1958, 2011 (SCI-Expanded)
- XXIII. **Facile and regioselective synthesis of poly(5-hydroxyquinoline)**
Bilici A., DOĞAN F., Yıldırım M., KAYA İ.
REACTIVE & FUNCTIONAL POLYMERS, vol.71, no.7, pp.675-683, 2011 (SCI-Expanded)
- XXIV. **A comparative study of 9,9-bis(4-aminophenyl)fluorene polymers prepared by catalytic and non-catalytic oxidative polymerisation methods**
BİLİCİ A., KAYA İ., Yıldırım M.
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- XXV. **Oxidative synthesis of a novel polyphenol having pendant Schiff base group: Synthesis, characterization, non-isothermal decomposition kinetics**
DILEK D., DOĞAN F., Bilici A., KAYA İ.
THERMOCHIMICA ACTA, vol.518, pp.72-81, 2011 (SCI-Expanded)
- XXVI. **Peroxidase-Catalyzed Synthesis of Polyphenols Bearing Aldehyde Units**
BİLİCİ A., KAYA İ., Yıldırım M.
DESIGNED MONOMERS AND POLYMERS, vol.14, no.4, pp.353-366, 2011 (SCI-Expanded)
- XXVII. **Azomethine-based phenol polymer: Synthesis, characterization and thermal study**
DOĞAN F., KAYA İ., Bilici A.
SYNTHETIC METALS, vol.161, pp.79-86, 2011 (SCI-Expanded)
- XXVIII. **Thermal Decomposition Kinetics of Azomethine Oligomer and Its Some Metal Complexes**
DOĞAN F., KAYA İ., BİLİCİ A., Sacak M.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.118, no.1, pp.547-556, 2010 (SCI-Expanded)

- XXIX. **Biosynthesis and Characterization of Organosoluble Conjugated Poly(2-aminofluorene) with the Pyrazine Bridged**
BİLİZİ A., KAYA İ., Yıldırım M.
BIOMACROMOLECULES, vol.11, no.10, pp.2593-2601, 2010 (SCI-Expanded)
- XXX. **Enzymatic polymerization of hydroxy-functionalized carbazole monomer**
BİLİZİ A., KAYA İ., Yıldırım M., DOĞAN F.
JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATICS, vol.64, pp.89-95, 2010 (SCI-Expanded)
- XXXI. **Oxidative Polymerization of N(2)O(2) Type Schiff Base Monomer and Its Metal Complexes: Synthesis and Thermal, Optical and Electrochemical Properties**
Bilici A., KAYA İ., Sacak M.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.20, no.1, pp.124-133, 2010 (SCI-Expanded)
- XXXII. **Study on Synthesis, Characterization, Thermal Stability and Conductivity Properties of a New Conjugated Oligoazomethine and some of its Metal Complexes**
KAYA İ., BİLİZİ A., SACAK M.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.19, no.4, pp.443-453, 2009 (SCI-Expanded)
- XXXIII. **Non-isothermal degradation kinetics of poly (2,2'-dihydroxybiphenyl)**
DOĞAN F., KAYA İ., Bilici A.
POLYMER BULLETIN, vol.63, no.2, pp.267-282, 2009 (SCI-Expanded)
- XXXIV. **Monomer/Polymer Schiff Base Copper(II) Complexes for Catalytic Oxidative Polymerization of 2,2 '-Dihydroxybiphenyl**
Bilici A., KAYA İ., DOĞAN F.
JOURNAL OF POLYMER SCIENCE PART A-POLYMER CHEMISTRY, vol.47, no.12, pp.2977-2984, 2009 (SCI-Expanded)
- XXXV. **Synthesis, characterization, and thermal stability of azomethine oligomer and its metal complexes**
Kaya I., Bilici A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.105, no.3, pp.1356-1365, 2007 (SCI-Expanded)
- XXXVI. **Synthesis, characterization, thermal analysis, and band gap of oligo-2-methoxy-6-[(4-methylphenyl)imino]methylphenol**
Kaya I., Bilici A.
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- XXXVII. **Syntheses, structures, electric conduction, electrochemical properties and antimicrobial activity of azomethine monomer and oligomer based on 4-hydroxybenzaldehyde and 2-aminopyridine**
Kaya I., Bilici A.
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- XXXVIII. **A new flavone from antioxidant extracts of Pistacia terebinthus**
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FOOD CHEMISTRY, vol.103, no.3, pp.816-822, 2007 (SCI-Expanded)
- XXXIX. **Synthesis, characterization, and thermal degradation of oligo-2-(morpholinoiminomethyl)phenol and its Pb(II) complex compound**
Kaya I., Bilici A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.102, no.4, pp.3795-3804, 2006 (SCI-Expanded)
- XL. **Synthesis, characterization, and antimicrobial properties of oligo-4-[(pyridine-3-yl-methylene)amino] phenol**
Kaya I., Bilici A., SACAK M.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.102, no.4, pp.3327-3333, 2006 (SCI-Expanded)
- XLI. **Synthesis, characterization, thermal stability, conductivity and band gap of oligo-4-[(2-hydroxybenzylidene)amino]benzoic acid**
Kaya I., BİLİZİ A.
SYNTHETIC METALS, vol.156, pp.736-744, 2006 (SCI-Expanded)

- XLII. Synthesis, characterization and thermal degradation of oligo-2-[(4-hydroxyphenyl) imino methyl]-1-naphtol and oligomer-metal complexes**
Kaya I., BİLİCİ A.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.43, pp.719-733, 2006
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Articles Published in Other Journals

- I. **A kinetic evaluation for PANSA doped low density polyethylene blends**
DOĞAN F., BİLİCİ A., KAYA İ., ŞİRİN M.
Celal Bayar University Journal of Science, vol.15, no.4, pp.343-349, 2019 (Peer-Reviewed Journal)
- II. **Synthesis and Characterization and Thermal Decomposition Kinetics of Poly(quinoline)-Copper Composite**
BİLİCİ A., TEZEL R. N., KAYA İ., DOĞAN F.
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- III. **Synthesis and Characterization and Thermal Decomposition Kinetics of Poly(quinoline)-Copper Composite**
BİLİCİ A., TEZEL R. N., KAYA İ., DOĞAN F.
Celal Bayar University Journal of Science, vol.14, no.2, pp.187-193, 2018 (Peer-Reviewed Journal)
- IV. **Synthesis and Characterization and Thermal Decomposition Kinetics of Poly(quinoline)-Copper Composite**
BİLİCİ A., TEZEL R. N., KAYA İ., DOĞAN F.
Celal Bayar University Journal of Science, vol.14, no.2, pp.187-193, 2018 (Peer-Reviewed Journal)
- V. **DSSC'ler için NNN ligantlar ile kararlaştırılmış Rutenum malzemeler**
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International Journal of Innovative Approaches in Science Research, no.2, pp.9-24, 2018 (Peer-Reviewed Journal)
- VI. **Chemical Oxidation of 5-amino quinoline with (NH₄)₂S₂O₈: Synthesis and Characterization**
BİLİCİ A.
Hacettepe J. Biol. & Chem, vol.45, pp.563-571, 2017 (Peer-Reviewed Journal)
- VII. **An application on fish bones by chemical modification of histidine as amino acid.**
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Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Surface Modification of Fish Bones Using 3-(Methacryloyloxy) propyl-trimethoxysilane and Acrylamide**
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- II. **Ruthenium II Complexes With Tridentate Benzimidazole Ligands New Dyes for Dye Sensitized Solar Cell**
DAYAN O., BİLİCİ A., ŞERBETÇİ Z., YAKUPHANOĞLU F., ÖZDEMİR N.
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- III. **Synthesis and Characterization of 2 amino 4 methyl phenol Oligomer Obtained by Enzymatic Oxidation**
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- IV. **Oxidative Polymerization of a Phenolic Monomer with Azomethine Moiety Synthesis and**

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V. Ruthenium II complexes bearing 2 2 pyridine 2 6 diylbis 5 6 dimethyl 1Hbenzimidazole ligands

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VI. New dyes for DSSCs Ruthenium II complexes bearing tridentate triamine ligands

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VII. Synthesis and characterization of the nano structured poly 1 amino 2 hydroxy naphthalene 4 sulfonic acid

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VIII. Ruthenium nanoparticles supported on 2 6 bis 2 benzimidazolyl pyridine A new dye for DSSCs

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IX. Synthesis and characterization of a novel tetra functional polyaren system

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X. A kinetic study on the thermal decomposition of Poly 6 aminoquinoline copper composite

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XI. Optik ve Elektronik Aktif Poliaminopiren Partiküllerinin BiyosenteziOptik ve Elektronik Aktif Poliaminopiren Partiküllerinin Biyosentezi

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IV. Fiziksel Kimya Kongresi, Denizli, Turkey, 6 - 08 June 2014, pp.98, (Summary Text)

XII. Schiff Baz Yan grubu Tayan Yeni Bir Polifenol'ün Yükseltgen Sentezi, Karakterizasyonu ve Kat Hal Bozunma Kinetik

DOĞAN F., TÜRKER G., KAYA İ., BİLİCİ A., Mucuk Ç.

25. Uluslararası Katılımlı Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June - 02 July 2011, pp.134, (Summary Text)

XIII. Poli(8-hidroksikinolin)'in Yükseltgen Sentezi, Karakterizasyonu ve Baz Fiziksel Özelliklerinin ncelenmesi

BİLİCİ A., DOĞAN F., TÜRKER G., KAYA İ.

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XV. Pirogallolaldehit Ve Protokatekulaldehit Monomerlerinin Horseradish Peroksidaz Katalizli oksidatif Polimerizasyonları

BİLİCİ A., KAYA İ., DOĞAN F.

3. Ulusal Polimer Bilim ve Teknolojisi Kongresi ve Sergisi, Kocaeli, Turkey, 12 - 14 May 2010, pp.112, (Summary Text)

XVI. Poly(2-naftol): Sentezi, karakterizasyonu ve Katı Hal Bozunma Kinetiği

- DOĞAN F., BİLİMİ A., KAYA İ.
3. Ulusal Polimer Bilim ve Teknolojisi Kongresi ve Sergisi, Kocaeli, Turkey, 12 - 14 May 2010, pp.115, (Summary Text)
- XVII. **Schiff Bazi Substituentli Polifenol-Metal Komplekslerinin Katı Hal Bozunma Kinetiği**
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- XVIII. **Polipropilen Malzemeler: Hazırlanması, Karakterizasyonu, Bazı Fiziksel ve İsisal Özellikleri**
ŞİRİN K., DOĞAN F., BİLİMİ A., İşler R.
3. Ulusal Polimer Bilim ve Teknolojisi Kongresi ve Sergisi, Turkey, 12 - 14 May 2010, pp.236, (Summary Text)
- XIX. **Poli-2-{[(6-Aminopiridin-2-yl)Imino]Metil}-Penol Polimerinin Sentezi, Karakterizasyonu ve Katı Hal Bozunma Kinetiği**
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23. Ulusal Kimya Kongresi, Sivas, Turkey, 16 - 20 June 2009, (Summary Text)
- XX. **Schiff Base Substitute Polyphenol: Synthesis, Characterization and Non-Isothermal Degradation Kinetics**
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- XXI. **Pistacia Terebinthus Meyvesi Özütlerinin Sekonder Metabolitleri Ve Antioksidan Etkinliğinin İncelenmesi**
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XIX. Ulusal Kimya Kongresi, AYDIN-Kuşadası, Turkey, 30 September - 04 October 2005, pp.56
- XXII. **Phytochemical Investigation of Pistacia terebinthus**
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1 st International Congress on the Chemistry of Natural Products, Trabzon, Turkey, 16 - 19 October 2002, pp.0-101

Funded Projects

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BİLİMİ A., TUBITAK Project, Yüksek Mol Kütleli Fenolik Antioksidanların Sentezi Ve Polipropilen Stabilizasyonunda Katkı Maddesi Olarak Kullanımları, 2015 - 2016

Doğan F., Bilici A., Şirin K., TUBITAK Project, Elektro-Aktif Flüoresant Polimerlerin Poliolefin Temelli Malzemelerde Antistatik Materyal Olarak Kullanımı, 2014 - 2016

BİLİMİ A., ÖZAY Ö., DOĞAN F., TUBITAK Project, Ayarlanabilir Ve Çoklu Renk Emisyonu Verebilen Kinolin Polimerlerin Sentezleri Ve Karakterizasyonları, 2013 - 2015

BİLİMİ A., TUBITAK Project, Elektro-Aktif Flüoresant Polimerlerin Poliolefin Temelli Malzemelerde Antistatik Materyal Olarak Kullanımı, 2013 - 2015

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Memberships and Roles in Scientific Organizations

Society of Plastics Engineers, Member, 2009 - Continues

Peer Reviews in Scientific Publications

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Non Academic Experience

Tarım Bakanlığı Çanakkale Gıda Kontrol Laboratuvarı Müdürlüğü, Kimyager

Çanakkale Onsekiz Mart Üniveristesı, Araştırma görevlisi

Tarım Bakanlığı İstanbul Gıda Kontrol Laboratuvarı Müdürlüğü, Kimyager