

ÖZGEÇMİŞ VE ESERLER LİSTESİ

<u>ÖZGEÇMİŞ</u>

Adı ve Soyadı:	Zehra DURMUŞ
Doğum Tarihi:	1977
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Bildiği Yabancı Diller (Puan ve Yılı): İngilizce, C1 İleri, 2022

Uzmanlık Alanı: Mühendislik ve Teknoloji

Sağlık Bilimleri Temel Bilimler

Derece	Bölüm/Program	Üniversite	Yıl
Yüksek Lisans	BİLİM, TEKNOLOJİ VE TOPLUM (YL) (TEZLİ)	İstanbul Teknik Üniversitesi	Devam Ediyor
Lisans	BATI DİLLERİ VE EDEBİYATLARI BÖLÜMÜ	İstanbul Üniversitesi	2024
Doktora	KİMYA (DR)	Fatih Üniversitesi	2013
Yüksek Lisans	KİMYA (YL) (TEZLİ)	Fatih Üniversitesi	2009
Lisans	KİMYA MÜHENDİSLİĞİ BÖLÜMÜ	İstanbul Üniversitesi	1999

Yüksek Lisans Tez Başlığı (özeti ekte) ve Tez Danışman(lar)ı:

Doktora Tezi/S. Yeterlik Çalışması/Tıpta Uzmanlık Tezi Başlığı (özeti ekte) ve Danışman(lar)ı:

Synthesis and characterization of hexaferrite nanoparticles and nanocomposites

Görev Unvanı	Görev Yeri	Yıl
Prof. Dr.	Biruni Üniversitesi	2024-Devam Ediyor
Doç. Dr.	Biruni Üniversitesi	2024-2024
Dr. Öğr. Üyesi	Biruni Üniversitesi	2023-2024
Uzman	Martin-Luther-Universitaet Halle-Wittenberg	2021-2023
Dr. Öğr. Üyesi	Bezmiâlem Vakıf Üniversitesi	2014-2017
Dr. Öğr. Üyesi	Bezmiâlem Vakıf Üniversitesi	2013-2014

İdari Görevler:

ESERLER

A. Uluslararası hakemli dergilerde yayımlanan makaleler:

- A1. "Fabrication of strontium hexaferrite/reduced expanded graphene oxide/polyaniline ternary hybrids as supercapacitor electrodes", JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, 2025.
- A2. "Novel and Highly Efficient Antibacterial PLA Composites Prepared with Liquidambar Orientalis Oil and Ag@g-C3N4 Nanocomposite", Journal of Polymers and the Environment, 2025.
- A3. "The electrical and dielectric features of Al/YbFeO3/p-Si/Al and Al/YbFe0.90Co0.10O3/p-Si/Al structures with interfacial perovskite-oxide layer depending on bias voltage and frequency", Journal of Materials Science: Materials in Electronics, 2024.
- A4. "A comprehensive investigation of the structural, chemical, and dielectric properties of co-doped YMnO3 multiferroic component", Applied Physics A: Materials Science and Processing, 2024.
- A5. "Variation in the dielectric and magnetic characteristics of multiferroic LuFeO3 as a result of cobalt substitution at Fe sites", Journal of Alloys and Compounds, 2023.
- A6. "Preparation and characterization of Ce-MOF/g-C3N4 composites and evaluation of their photocatalytic performance", Ceramics International, 2023.
- A7. "The structural studies and optical characteristics of phase-segregated Ir-doped LuFeO3-δ films", Applied Physics A: Materials Science and Processing, 2023.
- A8. "High resistivity and low dielectric loss of LuFe1-xOs xO3 (x = 0.0-0.10) ferrites", Journal of Materials Science: Materials in Electronics, 2023.
- A9. "A review on graphitic carbon nitride (g-C3N4) metal organic framework (MOF) heterostructured photocatalyst materials for photo(electro)chemical hydrogen evolution", International Journal of Hydrogen Energy, 2022.
- A10. "The Os substitution into Fe sites in LuFeO3 multiferroic and its effects on the electrical and dielectric features", Journal of Alloys and Compounds, 2022.
- A11. "Influence of iridium (Ir) doping on the structural, electrical, and dielectric properties of LuFeO3 perovskite compound", Journal of Alloys and Compounds, 2021.
- A12. "Measurement of the Antipsychotic Clozapine Using Reduced Graphene Oxide Nanocomposites-Au/Pd/Pt Electrodes", Electroanalysis, 2021.
- A13. "Frequency and temperature impact on the electrical properties of LaCr0.99Pd0.01O3-δ compound", Journal of Materials Science: Materials in Electronics, 2020.
- A14. "Glycopolymer decorated multiwalled carbon nanotubes for dual targeted breast cancer therapy", Journal of Materials Chemistry B, 2020.
- A15. "The influence of cobalt (Co) doping on the electrical and dielectric properties of LaCr1-xCoxO3 perovskite-oxide compounds", Materials Science in Semiconductor Processing, 2020.
- A16. "Influence of transition element Os substitution on the structural and electrical features of perovskite structure LaCr1-xOsxO3", Materials Research Bulletin, 2020.
- A17. "Spectrofluorimetric Determination of Aflatoxin B1 in Winter Herbal Teas via Magnetic Solid Phase Extraction Method by using Metal-Organic Framework (MOF) Hybrid Structures Anchored with Magnetic Nanoparticles", Applied Organometallic Chemistry, 2020.
- A18. "The impact of Ir doping on the electrical properties of YbFe1-xIrxO3 perovskite-oxide compounds", Journal of Materials Science: Materials in Electronics, 2020.
- A19. "The current and capacitance characteristics as a function of sample temperature in YMn0.90Os0.10O3/p-Si structures", Materials Science in Semiconductor Processing, 2019.
- A20. "In situ reduction of graphene oxide by different plant extracts as a green catalyst for selective hydrogenation of nitroarenes", International Journal of Hydrogen Energy, 2019.
- A21. "Synthesis, characterization and wide range frequency and temperature dependent electrical modulus study of LaCrO3 and cobalt (Co) doped LaCrO3 perovskite compounds", Materials Science and Engineering: B, 2019.
- A22. "Co doped YbFeO3: exploring the electrical properties via tuning the doping level", Ionics, 2019.
- A23. "Co effect on the structural, chemical and frequency depended electrical properties of YbFeO3 perovskite oxide compound", Journal of Materials Science: Materials in Electronics, 2019.
- A24. "Temperature dependent current transport mechanism in osmium-doped perovskite yttrium manganite-based heterojunctions", Journal of Applied Physics, 2019.

- A25. "Electrical characterization of Ir doped rare-earth orthoferrite YbFeO3", Journal of Alloys and Compounds, 2019.
- A26. "The current-voltage characteristics of the ferroelectric p-YMnO3 thin film/bulk p-Si heterojunction over a broad measurement temperature range", Journal of Alloys and Compounds, 2019.
- A27. "Effect of Os doping on electrical properties of YMnO3 multiferroic perovskite-oxide compounds", Materials Science in Semiconductor Processing, 2019.
- A28. "Tailoring the band gap of ferroelectric YMnO 3 through tuning the Os doping level", Journal of Materials Science: Materials in Electronics, 2019.
- A29. "Synthesis and Characterization of Graphene Oxide/Zinc Oxide (GO/ZnO) Nanocomposite and Its Utilization for Photocatalytic Degradation of Basic Fuchsin Dye", ChemistrySelect, 2019.
- A30. "Polymerization characteristics of colored componers cured with different LED units", Journal of Applied Biomaterials and Functional Materials, 2019.
- A31. "The characterization of electrical properties of Pd-doped LaCrO3 perovskite structure", Journal of Materials Science: Materials in Electronics, 2018.
- A32. "Os doped YMnO3 multiferroic: A study investigating the electrical properties through tuning the doping level", Journal of Alloys and Compounds, 2018.
- A33. "Frequency and temperature dependent electrical and dielectric properties of LaCrO3 and Ir doped LaCrO3 perovskite compounds", Journal of Alloys and Compounds, 2018.
- A34. "Engineering the band gap of LaCrO3 doping with transition metals (Co, Pd, and Ir)", Journal of Materials Science, 2018.
- A35. "Structural and mechanical properties of a giomer-based bulk fill restorative in different curing conditions", Journal of Applied Oral Science, 2018.
- A36. "The electrical modulus and other dielectric properties by the impedance spectroscopy of LaCrO3 and LaCr0.90Ir0.10O3 perovskites", RSC Advances, 2018.
- A37. "Magnetic and Microwave Absorption Properties of Magnetite (Fe3O4)@Conducting Polymer (PANI, PPY, PT) Composites", IEEE Transactions on Magnetics, 2017.
- A38. "Magnetic solid phase extraction for a new HPLC method for the determination of gemifloxacin in human plasma and breast milk", Journal of the Chilean Chemical Society, 2017.
- A39. "Chitosan and carboxymethyl cellulose based magnetic nanocomposites for application of peroxidase purification", International Journal of Biological Macromolecules, 2017.
- A40. "Determination of atorvastatin in human plasma by magnetic solid-phase extraction combined with HPLC and application to a pharmacokinetic study", Journal of Liquid Chromatography and Related Technologies, 2016.
- A41. "Quantifying structural and electromagnetic interference (EMI) shielding properties of thermoplastic polyurethane—carbon nanofiber/magnetite nanocomposites", Journal of Materials Science, 2016.
- A42. "Preparation and in vitro evaluation of 5-flourouracil loaded magnetite-zeolite nanocomposite (5-FU-MZNC) for cancer drug delivery applications", Biomedicine and Pharmacotherapy, 2016.
- A43. "Electrochemical sensing platforms based on the different carbon derivative incorporated interface", Materials Science and Engineering C, 2016.
- A44. "Preparation and characterization of platinum (Pt) and palladium (Pd) nanoparticle decorated graphene sheets and their utilization for the elimination of basic fuchsin and indigo carmine dyes", Solid State Sciences, 2016.
- A45. "Electrochemical biosensor based on REGO/Fe3O4 bionanocomposite interface for xanthine detection in fish sample", Food Control, 2015.
- A46. "Erratum: Structural and magnetic properties of triethylene glycol stabilized ZnxCo1-xFe2O4 nanoparticles (Mater. Res. Bull. (2012) 47 (2442-2448))", Materials Research Bulletin, 2015.
- A47. "Synthesis and micro-structural characterization of graphene/strontium hexaferrite (SrFe12O19) nanocomposites", Materials Chemistry and Physics, 2015.
- A48. "Synthesis and characterization of structural and magnetic properties of graphene/hard ferrite nanocomposites as microwave-absorbing material", Journal of Materials Science, 2015.
- A49. "Synthesis, structural, magnetic and electrical properties of Co 1-xZnxFe2O4 (x = 0.0, 0.2) nanoparticles", Materials Research Bulletin, 2013.
- A50. "Effect of conducting polymer layer on microwave absorption properties of BaFe12O19-TiO2 composite", Physica Status Solidi (A) Applications and Materials Science, 2013.
- A51. "Surface spin disorder and spin-glass-like behaviour in manganese- substituted cobalt ferrite nanoparticles", Journal of Nanoparticle Research, 2012.
- A52. "Structural and magnetic properties of triethylene glycol stabilized Zn xCo 1-xFe 2O 4 nanoparticles", Materials Research Bulletin, 2012.
- A53. "Effect of fuel on the synthesis and properties of poly(methyl methacrylate) modified SrFe 12O 19 nanoparticles", Journal of Superconductivity and Novel Magnetism, 2012.
- A54. "Hydrothermal synthesis of SrFe 12O 19 and its characterization", Journal of Superconductivity and Novel Magnetism, 2012.

- A55. "Synthesis and characterization of PEG-Sr hexaferrite by sol-gel conversion", Journal of Superconductivity and Novel Magnetism, 2012.
- A56. "Triethylene glycol stabilized CoFe 2O 4 nanoparticles", Journal of Superconductivity and Novel Magnetism, 2012.
- A57. "Preparation of high quality, single domain BaFe12O19 particles by the citrate sol-gel combustion route with an initial Fe/Ba molar ratio of 4", Materials Science and Engineering: B, 2012.
- A58. "Synthesis and characterization of dendrimer-encapsulated iron and iron-oxide nanoparticles", Journal of Superconductivity and Novel Magnetism, 2012.
- A59. "Poly(vinyl phosphonic acid) (PVPA)-BaFe 12O 19 nanocomposite", Journal of Superconductivity and Novel Magnetism, 2012.
- A60. "Synthesis, structural and electrical properties of triethylene glycol (TREG) stabilized Mn 0.2Co 0.8Fe 2O 4 NPs", Materials Research Bulletin, 2012.
- A61. "Synthesis and magnetic properties of a porphine-based photosynthesizer with magnetic nano-carriers", Polyhedron, 2011.
- A62. "Synthesis, dielectric and magnetic characteristics of poly(1-vinyl-1,2,4- triazole) (PVTri)-barium hexaferrite composite", Journal of Alloys and Compounds, 2011.
- A63. "Synthesis and characterization of poly(1-vinyl-1,2,4-triazole) (PVTri)barium hexaferrite nanocomposite", Physica B: Condensed Matter, 2011.
- A64. "Fabrication and characterization of dendrimer-encapsulated monometallic Co nanoparticles", Journal of Alloys and Compounds, 2011.
- A65. "Synthesis and characterization of poly(3-thiophenyl acetic acid) (P3TAA)-BaFe12O19 nanocomposite", Polyhedron, 2011.
- A66. "Synthesis and characterization of poly(3-thiophene acetic acid)/Fe 3O4 nanocomposite", Polyhedron, 2011.
- A67. "Preparation and characterization of polyaniline (PANI)Mn3O 4 nanocomposite", Physica B: Condensed Matter, 2011.
- A68. "Synthesis and characterization of l-carnosine coated iron oxide nanoparticles", Journal of Alloys and Compounds, 2011.
- A69. "Magnetic and dielectric characterization of alginic acid-Fe 3O4 nanocomposite", Polyhedron, 2011.
- A70. "Synthesis and characterization of poly(vinyl phosphonic acid) (PVPA)-Fe3O4 nanocomposite", Polyhedron, 2011.
- A71. "A simple approach for the synthesis of Co 3 O 4 nanocrystals", Inorganic Materials, 2011.
- A72. "The effect of condensation on the morphology and magnetic properties of modified barium hexaferrite (BaFe12O19)", Nano-Micro Letters, 2011.
- A73. "Synthesis, structural and conductivity characterization of alginic acid-Fe3O4 nanocomposite", Journal of Nanoparticle Research, 2010.
- A74. "Synthesis, conductivity and dielectric characterization of salicylic acid-Fe3O4 nanocomposite", Materials Chemistry and Physics, 2010.
- A75. "L-Histidine coated iron oxide nanoparticles: Synthesis, structural and conductivity characterization", Journal of Alloys and Compounds, 2010.
- A76. "Polyol synthesis of (polyvinylpyrrolidone) PVP-Mn3O4 nanocomposite", Journal of Alloys and Compounds, 2010.
- A77. "Sonochemical synthesis and chracterization of Mn3O4 nanoparticles", Central European Journal of Chemistry, 2010.
- A78. "CTAB-Mn3O4 nanocomposites: Synthesis, NMR and low temperature EPR studies", Polyhedron, 2010.
- A79. "Synthesis and conductivity evaluation of PVTri-Fe3O4 nanocomposite", Journal of Non-Crystalline Solids, 2010.
- A80. "The effect of neutralizing agent on the synthesis and characterization of Mn 3 O 4 nanoparticles", Russian Journal of Inorganic Chemistry, 2010.
- A81. "I-lysine coated iron oxide nanoparticles: Synthesis, structural and conductivity characterization", Journal of Alloys and Compounds, 2009.
- A82. "Ovalbumin mediated synthesis of Mn3O4", Polyhedron, 2009.
- A83. "Reflux synthesis of Co3O4 nanoparticles and its magnetic characterization", Journal of Magnetism and Magnetic Materials, 2009.

C. Yazılan ulusal/uluslararası kitaplar veya kitaplardaki bölümler:

C2. Yazılan ulusal/uluslararası kitaplardaki bölümler:

C2.1. "Engineering Applications of Polymer based Nano Blends, Adv Struct Materials", Springer Nature, 2025.

D. Ulusal hakemli dergilerde yayımlanan makaleler:

D1. "Increasing the biocompatibility of graphene-based hybrid nanostructures with glycopolymer", Turkish Journal of Chemistry, 2022.

- D2. "Magnetic solid phase extraction applications combined with analytical methods for determination of drugs in different matrices review", Journal of the Chilean Chemical Society, 2019.
- D3. "A comparative study on magnetostructural properties of barium hexaferrite powders prepared by polyethylene glycol", Journal of Nanomaterials, 2014.
- D4. "Preparation of PVP (Polyvinyl Pyrrolidone)/Ba-Sr hexaferrites via gel to crystalline method", Synthesis and Reactivity in Inorganic, Metal-Organic and Nano-Metal Chemistry, 2012.
- D5. "PEG-assisted synthesis of Mn3O4 nanoparticles: A structural and magnetic study", Synthesis and Reactivity in Inorganic, Metal-Organic and Nano-Metal Chemistry, 2011.
- D6. "A green chemical route for the synthesis of Mn3O4 nanoparticles", Central European Journal of Chemistry, 2009.
- D7. "CTAB-Assisted Hydrothermal Synthesis and Magnetic Characterization of NixCo1-xFe2O4 Nanoparticles (x = 0.0, 0.6, 1.0)", Turkish Journal of Chemistry, 2009.