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Education Information

Postgraduate, İstanbul Medeniyet Üniversitesi, Graduate School of Natural and Applied Sciences, Forensic Science, Turkey 2018 - Continues

Undergraduate, University of Houston, College of Natural Sciences and Mathematics, Department of Biology and Biochemistry, United States Of America 2005 - Continues

Doctorate, Fatih Üniversitesi, Institute Of Science, Chemistry, Turkey 2010 - 2015

Postgraduate, Fatih Üniversitesi, Institute Of Science, Chemistry, Turkey 2008 - 2010

Undergraduate, Fatih Üniversitesi, Faculty Of Science And Letters, Department Of Chemistry, Turkey 2001 - 2005

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Functionalized Magnetic Nanoparticles, Fatih Üniversitesi, Institute Of Science And Engineering, Chemistry, 2015

Postgraduate, Synthesis and biological investigation of hydrogenated and fluorinated amino acid-based molecules that may bind specifically to the alpha 5/beta1 integrin , Fatih Üniversitesi, Fen Bilimleri Enstitüsü, Kimya, 2010

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Material Characterization, Nanomaterials, Engineering and Technology

Academic Titles / Tasks

Research Assistant PhD, İstanbul Medeniyet University, Faculty Of Engineering And Natural Sciences , Chemistry , 2016 - Continues

Research Assistant PhD, İstanbul Medeniyet University, Faculty Of Science, Chemistry, 2015 - 2016

Research Assistant, İstanbul Medeniyet University, Faculty Of Science, Chemistry, 2012 - 2015

Research Assistant, Fatih Üniversitesi, Fen Edebiyat Fakültesi / School Of Sciences And Arts, Kimya / Chemistry, 2011 - 2012

Courses

Organic Chemistry, Undergraduate, 2018 - 2019, 2020 - 2021

General Chemistry, Undergraduate, 2018 - 2019, 2019 - 2020

Chemistry Laboratory I, Undergraduate, 2018 - 2019

Chemistry I, Undergraduate, 2018 - 2019

Genel Kimya, Undergraduate, 2017 - 2018

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

- I. **Investigation on the structural, optical, and magnetic features of Dy³⁺ and Y³⁺ co-doped Mn_{0.5}Zn_{0.5}Fe₂O₄ spinel ferrite nanoparticles**
Almessiere M. A. , Guner S., Slimani Y., Baykal A., Shirsath S. E. , DEMİR KORKMAZ A., Badar R., Manikandan A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1248, 2022 (Journal Indexed in SCI)
- II. **Impact of Gd substitution on the structure, hyperfine interactions, and magnetic properties of Sr hexaferrites**
Almessiere M. A. , Slimani Y., Sertkol M., Gungunes H., Wudil Y. S. , DEMİR KORKMAZ A., Baykal A.
CERAMICS INTERNATIONAL, vol.47, no.23, pp.33853-33864, 2021 (Journal Indexed in SCI)
- III. **Sm-Dy co-substituted Sr hexaferrite microspheres: An investigation on their structural, magnetic, optical, and porosity characteristics**
Almessiere M. A. , Guner S., Slimani Y., Jermy B. R. , Sertkol M., Taskhandi N., DEMİR KORKMAZ A., Baykal A.
CERAMICS INTERNATIONAL, vol.47, no.17, pp.25131-25141, 2021 (Journal Indexed in SCI)
- IV. **AC susceptibility and FC-ZFC magnetic properties of SrTbxFe_{12-x}O₁₉ and SrTmxFe_{12-x}O₁₉ hexaferrites: Comparative study**
Slimani Y., Almessiere M., Korkmaz A., Baykal A., Ercan I.
Journal of Rare Earths, vol.39, pp.1003-1009, 2021 (Journal Indexed in SCI)
- V. **Correlation between chemical composition, electrical, magnetic and microwave properties in Dy-substituted Ni-Cu-Zn ferrites**
Almessiere M. A. , Slimani Y., Gungunes H., DEMİR KORKMAZ A., Trukhanov S. V. , Guner S., Alahmari F., Trukhanov A. V. , Baykal A.
MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, vol.270, 2021 (Journal Indexed in SCI)
- VI. **A study on the electrical and dielectric properties of SrGdxFe_{12-x}O₁₉ (x=0.00-0.05) nanosized M-type hexagonal ferrites**
ÜNAL B., Almessiere M. A. , Slimani Y., DEMİR KORKMAZ A., Baykal A.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, 2021 (Journal Indexed in SCI)
- VII. **Influence of Dy³⁺ Ions on the Microstructures and Magnetic, Electrical, and Microwave Properties of [Ni_{0.4}Cu_{0.2}Zn_{0.4}](Fe_{2-x}Dyx)O₄ (0.00 ≤ x ≤ 0.04) Spinel Ferrites**
Almessiere M. A. , Slimani Y., GÜNGÜNEŞ H., DEMİR KORKMAZ A., Zubar T., Trukhanov S., Trukhanov A., Manikandan A., Alahmari F., Baykal A.
ACS OMEGA, vol.6, no.15, pp.10266-10280, 2021 (Journal Indexed in SCI)
- VIII. **Investigation of AC susceptibility, dielectric and electrical properties of Tb-Tm co-substituted M-type Sr hexaferrites**
Slimani Y., ÜNAL B., Almessiere M. A. , DEMİR KORKMAZ A., Baykal A.
MATERIALS CHEMISTRY AND PHYSICS, vol.260, 2021 (Journal Indexed in SCI)
- IX. **Effect of thulium substitution on conductivity and dielectric belongings of nanospinel cobalt ferrite**

ÜNAL B., Almessiere M. A. , DEMİR KORKMAZ A., Slimani Y., Baykal A.

JOURNAL OF RARE EARTHS, vol.38, no.10, pp.1103-1113, 2020 (Journal Indexed in SCI)

- X. **Effect of Nd-Y co-substitution on structural, magnetic, optical and microwave properties of NiCuZn nanospinel ferrites**
Almessiere M. A. , Slimani Y., Trukhanov A. V. , DEMİR KORKMAZ A., Guner S., Akhtar S., Shirsath S. E. , Baykal A., Ercan I.
JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, vol.9, no.5, pp.11278-11290, 2020 (Journal Indexed in SCI)
- XI. **Developing the magnetic, dielectric and anticandidal characteristics of SrFe₁₂O₁₉/(Mg_{0.5}Cd_{0.5}Dy_{0.03}Fe_{1.97}O₄)(x) hard/soft ferrite nanocomposites**
Algarou N. A. , Slimani Y., Almessiere M. A. , Rehman S., Younas M., ÜNAL B., DEMİR KORKMAZ A., Gondal M. A. , Trukhanov A., Baykal A., et al.
JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS, vol.113, pp.344-362, 2020 (Journal Indexed in SCI)
- XII. **SrCo_xZr_xFe_{12-2x}O₁₉ and SrNi_xZr_xFe_{12-2x}O₁₉ hexaferrites: A Comparison Study of AC Susceptibility, FC-ZFC and hyperfine interactions**
Almessiere M., Slimani Y., Güngüneş H., Korkmaz A., Baykal A., Trukhanov A., Yasin G.
Chinese Journal of Physics, vol.66, pp.596-605, 2020 (Journal Indexed in SCI)
- XIII. **Investigation of structural and physical properties of Eu³⁺ ions substituted Ni_{0.4}Cu_{0.2}Zn_{0.4}Fe₂O₄ spinel ferrite nanoparticles prepared via sonochemical approach**
Slimani Y., ÜNAL B., Almessiere M. A. , DEMİR KORKMAZ A., Shirsath S. E. , Yasin G., Trukhanov A., Baykal A.
RESULTS IN PHYSICS, vol.17, 2020 (Journal Indexed in SCI)
- XIV. **Engineered magnetic nanoparticles enhance chlorophyll content and growth of barley through the induction of photosystem genes**
Tombuloglu H., Slimani Y., Tombuloglu G., Alshammari T., Almessiere M., Korkmaz A., Baykal A., Samia A. C. S.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, 2020 (Journal Indexed in SCI)
- XV. **Ultrasonic synthesis, magnetic and optical characterization of Tm(3+) and Tb³⁺ ions co-doped barium nano-hexaferrites**
Almessiere M. A. , Slimani Y., Guner S., Aldakhil S., Korkmaz A., Sertkol M., Gungunes H., Yasin G., Baykal A.
JOURNAL OF SOLID STATE CHEMISTRY, vol.286, 2020 (Journal Indexed in SCI)
- XVI. **Synthesis and biological characterization of Mn_{0.5}Zn_{0.5}Eu_xDy_xFe_{1.8-2x}O₄ nanoparticles by sonochemical approach**
Rehman S., Almessiere M. A. , Khan F. A. , Korkmaz A., Tashkandi N., Slimani Y., Baykal A.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.109, 2020 (Journal Indexed in SCI)
- XVII. **A study on the spectral, microstructural, and magnetic properties of Eu-Nd double-substituted Ba_{0.5}Sr_{0.5}Fe₁₂O₁₉ hexaferrites synthesized by an ultrasonic-assisted approach**
Almessiere M. A. , Slimani Y., Korkmaz A., Baykal A., Albetran H., Saleh T. A. , Sertkol M., Ercan I.
ULTRASONICS SONOCHEMISTRY, vol.62, 2020 (Journal Indexed in SCI)
- XVIII. **Comparative study of sonochemically synthesized Co-Zr and Ni-Zr substituted Sr-hexaferrites: Magnetic and structural investigations**
Almessiere M. A. , Slimani Y., Korkmaz A., Guener S., Maarouf A. A. , Baykal A.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.497, 2020 (Journal Indexed in SCI)
- XIX. **Sonochemical synthesis of Dy³⁺ substituted Mn_{0.5}Zn_{0.5}Fe_{2-x}O₄ nanoparticles: Structural, magnetic and optical characterizations**
Almessiere M. A. , Slimani Y., Korkmaz A., Guner S., Baykal A., Shirsath S. E. , Ercan I., Koegerler P.
ULTRASONICS SONOCHEMISTRY, vol.61, 2020 (Journal Indexed in SCI)
- XX. **MAGNETIC FIELD IMPLEMENTING INTO THE ELECTROLUMINESCENCE OF OLED DEVICES DOPED WITH CoFe₂O₄ NANOPARTICLES**
Mucur S. P. , Canimkurbey B., Korkmaz A.
LIGHT & ENGINEERING, vol.28, no.2, pp.95-105, 2020 (Journal Indexed in SCI)

- XXI. **Impact of calcium and magnesium substituted strontium nano-hexaferrite on mineral uptake, magnetic character, and physiology of barley (*Hordeum vulgare* L.)**
Tombuloglu H., Slimani Y., Tombuloglu G., Almessiere M., Sozeri H., Demir-Korkmaz A., AiShammari T. M., Baykal A., Ercan I., Hakeem K. R.
ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY, vol.186, 2019 (Journal Indexed in SCI)
- XXII. **Sonochemical Synthesis of $\text{CoFe}_2\text{-xNd}_x\text{O}_4$ Nanoparticles: Structural, Optical, and Magnetic Investigation**
Almessiere M. A., Slimani Y., Korkmaz A., Sertkol M., Baykal A., Ercan I., ÖZÇELİK B.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.32, no.12, pp.3837-3844, 2019 (Journal Indexed in SCI)
- XXIII. **Electrical properties of $\text{La}(3+)$ and Y^{3+} ions substituted $\text{Ni}_0.3\text{Cu}_0.3\text{Zn}_0.4\text{Fe}_2\text{O}_4$ nanospinel ferrites**
Almessiere M. A., Unal B., Slimani Y., Korkmaz A., Baykal A., Ercan I.
RESULTS IN PHYSICS, vol.15, 2019 (Journal Indexed in SCI)
- XXIV. **$\text{Ni}_0.4\text{Cu}_0.2\text{Zn}_0.4\text{TbxFe}_2\text{-xO}_4$ nanospinel ferrites: Ultrasonic synthesis and physical properties**
Slimani Y., Almessiere M. A., Korkmaz A., Guner S., Gungunes H., Sertkol M., Manikandan A., Yildiz A., Akhtar S., Shirsath S. E., et al.
ULTRASONICS SONOCHEMISTRY, vol.59, 2019 (Journal Indexed in SCI)
- XXV. **Sonochemical synthesis of Eu^{3+} substituted CoFe_2O_4 nanoparticles and their structural, optical and magnetic properties**
Almessiere M. A., Slimani Y., Korkmaz A., Taskhandi N., Sertkol M., Baykal A., Shirsath S. E., Ercan I., ÖZÇELİK B.
ULTRASONICS SONOCHEMISTRY, vol.58, 2019 (Journal Indexed in SCI)
- XXVI. **Sonochemical synthesis and physical properties of $\text{Co}_0.3\text{Ni}_0.5\text{Mn}_0.2\text{EuxFe}_2\text{-xO}_4$ nano-spinel ferrites**
Almessiere M. A., Slimani Y., Guner S., Sertkol M., Korkmaz A., Shirsath S. E., Baykal A.
ULTRASONICS SONOCHEMISTRY, vol.58, 2019 (Journal Indexed in SCI)
- XXVII. **The relationship between *Chlorella* sp. and zinc oxide nanoparticles: Changes in biochemical, oxygen evolution, and lipid production ability**
Kaliyamurthi S., Selvaraj G., Cakmak Z. E., Korkmaz A., Cakmak T.
PROCESS BIOCHEMISTRY, vol.85, pp.43-50, 2019 (Journal Indexed in SCI)
- XXVIII. **$\text{Ca}^{2+}/\text{Mg}^{2+}$ co-substituted strontium nano-hexaferrites: magnetic investigation and Mossbauer analysis**
Almessiere M. A., Slimani Y., Korkmaz A., Gungunes H., Nawaz M., Shirsath S. E., Baykal A., Ercan I.
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.92, no.1, pp.239-251, 2019 (Journal Indexed in SCI)
- XXIX. **Impact of La^{3+} and Y^{3+} ion substitutions on structural, magnetic and microwave properties of $\text{Ni}_0.3\text{Cu}_0.3\text{Zn}_0.4\text{Fe}_2\text{O}_4$ nanospinel ferrites synthesized via sonochemical route**
Almessiere M. A., Slimani Y., Korkmaz A., Baykal A., Gungunes H., Sozeri H., Shirsath S. E., Guener S., Akhtar S., Manikandan A.
RSC ADVANCES, vol.9, no.53, pp.30671-30684, 2019 (Journal Indexed in SCI)
- XXX. **Electrical and dielectric properties of Nb^{3+} ions substituted Ba-hexaferrites**
Almessiere M. A., Unal B., Slimani Y., Korkmaz A., Algarou N. A., Baykal A.
RESULTS IN PHYSICS, vol.14, 2019 (Journal Indexed in SCI)
- XXXI. **Structural, optical and magnetic properties of Tm^{3+} substituted cobalt spinel ferrites synthesized via sonochemical approach**
Almessiere M. A., Slimani Y., Korkmaz A., Guner S., Sertkol M., Shirsath S. E., Baykal A.
ULTRASONICS SONOCHEMISTRY, vol.54, pp.1-10, 2019 (Journal Indexed in SCI)
- XXXII. **Impact of superparamagnetic iron oxide nanoparticles (SPIONs) and ionic iron on physiology of summer squash (*Cucurbita pepo*): A comparative study**
Tombuloglu H., Slimani Y., Tombuloglu G., DEMİR KORKMAZ A., Baykal A., Almessiere M., Ercan I.
PLANT PHYSIOLOGY AND BIOCHEMISTRY, vol.139, pp.56-65, 2019 (Journal Indexed in SCI)
- XXXIII. **Development of Novel Nano-ZnO Enhanced Polymeric Membranes for Water Purification**
Taha A. K. T., Amir M., Korkmaz A., Al-Messiere M. A., Baykal A., Karakus S., Kilislioglu A.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.29, no.3, pp.979-988, 2019

(Journal Indexed in SCI)

- XXXIV. **Microstructural, Optical, and Magnetic Properties of Vanadium-Substituted Nickel Spinel Nanoferrites**
Korkmaz A., Guener S., Slimani Y., Gungunes H., Amir M., Manikandan A., Baykal A.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.32, no.4, pp.1057-1065, 2019 (Journal Indexed in SCI)
- XXXV. **Cr³⁺-substituted Ba nanohexaferrites as high-quality microwave absorber in X band**
Sozeri H., Genc E., Almessiere M. A. , Unver I. S. , Korkmaz A., Baykal A.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.779, pp.420-426, 2019 (Journal Indexed in SCI)
- XXXVI. **Magneto-optical properties of rare earth metals substituted Co-Zn spinel nanoferrites**
Almessiere M. A. , Korkmaz A., Slimani Y., Nawaz M., Ali S., Baykal A.
CERAMICS INTERNATIONAL, vol.45, no.3, pp.3449-3458, 2019 (Journal Indexed in SCI)
- XXXVII. **Viewing the Emphasis on State-of-the-Art Magnetic Nanoparticles: Synthesis, Physical Properties, and Applications in Cancer Theranostics**
Kaliyurthi S., Demir-Korkmaz A., Selvaraj G., Gokce-Polat E. G. , Wei Y., Almessiere M. A. , Baykal A., Gu K., Wei D.
CURRENT PHARMACEUTICAL DESIGN, vol.25, no.13, pp.1505-1523, 2019 (Journal Indexed in SCI)
- XXXVIII. **Synthesis and Magnetic Characterization of Cu Substituted Barium Hexaferrites**
Asiri S., Guener S., Demir A., Yildiz A., Manikandan A., Baykal A.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.28, no.3, pp.1065-1071, 2018 (Journal Indexed in SCI)
- XXXIX. **Magneto-optical properties of BaCr_yFe_{12-2y}O₁₉ (0.0 ≤ y ≤ 1.0) hexaferrites**
ASIRI S., GÜNER S., Korkmaz A., Amir M., BATOO K., ALMESSIERE M., Gungunes H., SÖZERI H., BAYKAL A.
Journal of Magnetism and Magnetic Materials, vol.451, pp.463-472, 2018 (Journal Indexed in SCI)
- XL. **Photocatalytic Degradation of Azo Dyes and Organic Contaminants in Wastewater Using Magnetically Recyclable Fe₃O₄@UA-Cu Nano-catalyst**
Abdullahi M., Amir M., Asiri S., Korkmaz A., Baykal A., Soylu G., Karakuş S., Kilislioğlu A.
Catalysis Letters, vol.148, no.4, pp.1130-1141, 2018 (Journal Indexed in SCI)
- XLI. **Mössbauer Analysis and Cation Distribution of Zn Substituted BaFe₁₂O₁₉ Hexaferrites**
AUWAL I., Korkmaz A., Amir M., ASIRI S., BAYKAL A., Güngüneş H., SHIRSTAH S.
Journal of Superconductivity and Novel Magnetism, vol.31, no.1, pp.151-156, 2018 (Journal Indexed in SCI)
- XLII. **Concentration and temperature-dependent magnetic properties of Ba_{1-x}Zn_xFe₁₂O₁₉ hexaferrites**
Amir M., Sozeri H., Korkmaz A., Baykal A.
CERAMICS INTERNATIONAL, vol.44, no.1, pp.988-992, 2018 (Journal Indexed in SCI)
- XLIII. **Magnetic properties and Mossbauer spectroscopy of Cu-Mn substituted BaFe₁₂O₁₉ hexaferrites**
Baykal A., Gungunes H., Sozeri H., Amir M., Auwal I., Asiri S., Shirsath S. E. , Korkmaz A.
CERAMICS INTERNATIONAL, vol.43, no.17, pp.15486-15492, 2017 (Journal Indexed in SCI)
- XLIV. **Magnetic Properties of FeMn_yCo_yFe_{2-2y}O₄@Oleylamine Nanocomposite with Cation Distribution**
Amir M., Korkmaz A., BAYKAL A., Geleri M., SÖZERI H., Güngüneş H., Sertkol M., SHIRSATH S. E.
Journal of Inorganic and Organometallic Polymers and Materials, vol.27, no.6, pp.1740-1749, 2017 (Journal Indexed in SCI)
- XLV. **Synthesis and magneto-optical properties of triethylene glycol stabilized Mn_{1-x}Zn_xFe₂O₄ nanoparticles**
Baykal A., Guner S., Demir A.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.619, pp.5-11, 2015 (Journal Indexed in SCI)
- XLVI. **Magnetic and optical properties of Cu_{1-x}Zn_xFe₂O₄ nanoparticles dispersed in a silica matrix by a sol-gel auto-combustion method**
Baykal A., Esir S., Demir A., Guner S.
CERAMICS INTERNATIONAL, vol.41, no.1, pp.231-239, 2015 (Journal Indexed in SCI)
- XLVII. **Zn_xCu_(1-x)Fe₂O₄ Nanoferrites by Sol-Gel Auto Combustion Route: Cation Distribution and Microwave Absorption Properties**

Kavas H., Baykal A., Demir A., Toprak M. S. , Aktas B.

JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.24, no.6, pp.963-970, 2014
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XLVIII. Magneto-optical properties of Cu_{1-x}Zn_xFe₂O₄ nanoparticles

Guner S., Esir S., Baykal A., Demir A., Bakis Y.

SUPERLATTICES AND MICROSTRUCTURES, vol.74, pp.184-197, 2014 (Journal Indexed in SCI)

XLIX. Effect of zinc substitution on magneto-optical properties of Mn_{1-x}Zn_xFe₂O₄/SiO₂ nanocomposites

Baykal A., Guner S., Demir A., Esir S., Genç F.

CERAMICS INTERNATIONAL, vol.40, no.8, pp.13401-13408, 2014 (Journal Indexed in SCI)

L. Magnetic and Optical Properties of Mn_{1-x}Zn_xFe₂O₄ Nanoparticles

Demir A., Guner S., Bakis Y., Esir S., Baykal A.

JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.24, no.4, pp.729-736, 2014
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LI. Green synthesis of Fe₃O₄ nanoparticles by one-pot saccharide-assisted hydrothermal method

Demir A., Baykal A., Sözeri H.

TURKISH JOURNAL OF CHEMISTRY, vol.38, no.5, pp.825-836, 2014 (Journal Indexed in SCI)

LII. Low temperature magnetic investigation of Fe₃O₄ nanoparticles filled into multiwalled carbon nanotubes

Demir A., Baykal A., Sözeri H., Topkaya R.

SYNTHETIC METALS, vol.187, pp.75-80, 2014 (Journal Indexed in SCI)

LIII. Green synthesis of superparamagnetic Fe₃O₄ nanoparticles with maltose: Its magnetic investigation

Demir A., Topkaya R., Baykal A.

POLYHEDRON, vol.65, pp.282-287, 2013 (Journal Indexed in SCI)

LIV. Electrical Properties of Triethylene Glycol Stabilized Mn_xCo_{1-x}Fe₂O₄ Nanoparticles

Erdemi H., Demir A., Baykal A.

JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.23, no.3, pp.690-702, 2013
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LV. Yafet-Kittel-type magnetic order in Zn-substituted cobalt ferrite nanoparticles with uniaxial anisotropy

Topkaya R., Baykal A., Demir A.

JOURNAL OF NANOPARTICLE RESEARCH, vol.15, no.1, 2013 (Journal Indexed in SCI)

LVI. Synthesis and Characterization of Dendrimer-Encapsulated Iron and Iron-Oxide Nanoparticles

Baykal A., Toprak M. S. , Durmus Z., Senel M., Sözeri H., Demir A.

JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.25, no.5, pp.1541-1549, 2012 (Journal Indexed in SCI)

LVII. Conductivity Study of Polyaniline-Cobalt Ferrite (PANI-CoFe₂O₄) Nanocomposite

Tanriverdi E. E. , Uzumcu A. T. , Kavas H., Demir A., Baykal A.

NANO-MICRO LETTERS, vol.3, no.2, pp.99-107, 2011 (Journal Indexed in SCI)

Articles Published in Other Journals

I. Review on functional bi-component nanocomposites based on hard/soft ferrites: Structural, magnetic, electrical and microwave absorption properties

Almessiere M., Slimani Y., Trukhanov A., Sadaqat A., Korkmaz A., Algarou N., AYDIN H., Baykal A., Toprak M. S.
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II. INFLUENCE OF RARE EARTH SUBSTITUTION ON THE MAGNETIC PROPERTIES OF SPINEL FERRITES

Demir Korkmaz A.

Mühendislik ve Tasarım Bilimleri Dergisi, vol.8, no.2, pp.625-634, 2020 (National Refreed University Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Influence of Rare Earth Substitution on the Magnetic Properties of Spinel Ferrites**
Demir Korkmaz A.
2nd International Conference on Life and Engineering Sciences (ICOLES-2019), İstanbul, Turkey, 27 - 29 June 2019, pp.33
- II. **Biosynthesis and characterization of silver nanoparticles from *Scenedesmus obliquus***
Sır F., DEMİR KORKMAZ A., ÇAKMAK T., KISAAYAK ÇOLLAK F.
I.Uluslararası Kanser ve İyon Kanalları Kongresi, Şanlıurfa, Turkey, 21 September 2017, pp.1-2
- III. **Laser Desorption/Ionization Mass Spectrometry on Porous Gold Nanostructured Layers For the Detection of Acrivastine**
DEMİR A., KECECİ K., Gülbakan B., Çelikkıçak Ö.
12th International Nanoscience and Nanotechnology Conference, Kocaeli, Turkey, 03 June 2016, pp.265
- IV. **Magnetic Properties of Self-Assembled Magnetite Nanoparticles via Spin and Dip Coating Methods**
Esir S., DEMİR A., KAVAS H.
INTERNATIONAL TURKIC WORLD CONFERENCE ON CHEMICAL SCIENCES AND TECHNOLOGIES (ITWCCST 2015), Sarajevo, Bosnia And Herzegovina, 27 November 2015, pp.68
- V. **Dielectric properties of Mn_{1-x}Zn_xFe₂O₄ nanoparticles stabilized with triethylene glycol**
DEMİR KORKMAZ A., Baykal A., Erdemi H.
International Semiconductor Science and Technology Conference 2015, Aydın, Turkey, 11 May 2015, pp.39
- VI. **Cation distribution and microwave absorption study of Zn(x)Cu(1-x)Fe₂O₄ nanoparticles**
DEMİR KORKMAZ A., Baykal A., Aktaş B., KAVAS H., Toprak M. S. , Esir S.
International Nanoscience and Nanotechnology for Next Generation (NaNONG) 2014, Elazığ, Turkey, 20 August 2014, pp.63
- VII. **Mn_{1-x}Zn_xFe₂O₄ nanoparticles dispersed in silica matrix magnetic and optical study**
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International Nanoscience and Nanotechnology for Next Generation (NaNONG) 2014, Elazığ, Turkey, 20 August 2014, pp.64
- VIII. **The ionic liquid based synthesis of Polyaniline-MnFe₂O₄-CTAB nanocomposite: Electrical properties**
DEMİR A., Baykal A., Ünal B., Shafiu S.
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- IX. **Decoration of Multi-walled Carbon Nanotubes with Iron Oxide Nanoparticles**
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Memberships / Tasks in Scientific Organizations

American Association for the Advancement of Science (AAAS), Member, 2015 - Continues

American Chemical Society, Member, 2011 - Continues

Scientific Refereeing

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Tasks In Event Organizations

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Scholarships

Doktora Bursu, University, 2010 - Continues

Yüksek Lisans Öğrenim Bursu, University, 2008 - Continues

Instructional Assistantship, University, 2005 - Continues

Graduate Assistant Tuition Fellowship, University, 2005 - Continues

Lisans Öğrenim Bursu, University, 2001 - Continues