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Education Information

Doctorate, Ondokuz Mayis University, Fen Bilimleri Enstitüsü, Fizik (Dr), Turkey 2004 - 2010

Postgraduate, Ondokuz Mayis University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), Turkey 2002 - 2004

Undergraduate, Middle East Technical University, Fen-Edebiyat Fakültesi, Fizik Bölümü, Turkey 1994 - 2001

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Nikel ve kobalt tabanlı heusler alaşımlarının manyetik, ısısal, elektriksel ve manyetokalorik özelliklerinin incelenmesi, Ondokuz Mayis University, Fen Bilimleri Enstitüsü, Fizik (Dr), 2010

Postgraduate, Tek kristal x-ışını kırınım yöntemi ile C15H13NO2, C15H13NO2, C19H15NO2 kristallerinin yapı analizleri, Ondokuz Mayis University, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 2004

Research Areas

Equations of State, Phase Equilibria, and Phase Transitions, Structure of Liquids and Solids; Crystallography, Thermal Properties of Condensed Matter

Academic Titles / Tasks

Research Assistant, Ondokuz Mayis University, Fen Fakültesi, Fizik Bölümü, 2002 - Continues

Courses

Fizik I, Undergraduate, 2020 - 2021
Fizik I, Associate Degree, 2019 - 2020
Fizik II, Undergraduate, 2019 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Tuning of the magneto-caloric effects in $\text{Ni}_{43}\text{Mn}_{46}\text{In}_{11}$ magnetic shape memory alloys by substitution of boron**
Saritas S., ÇİÇEK M. M., KAVAK E., GURPINAR K., YILDIRIM O., YUCE S., ATAKOL O., EMRE B.
JOURNAL OF PHYSICS-CONDENSED MATTER, no.7, 2024 (SCI-Expanded)
- II. **Investigation of the inverse magnetocaloric effect with the fraction method**
Yuce S., Kavak E., Yildirim O., Bruno N. M., Emre B.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.35, no.34, 2023 (SCI-Expanded)
- III. **Investigation of the complex magnetic behavior of $\text{Ni}_{46.86}\text{Co}_{2.91}\text{Mn}_{38.17}\text{Sn}_{12.06}$ (at%) magnetic shape memory alloy at low temperatures**
Yildirim O., Yüce Emre S., Bruno N. M., Kilit Doğan E., YURTSEVEN H. H., DUMAN E., Emre B.
PHYSICA SCRIPTA, vol.97, no.8, 2022 (SCI-Expanded)
- IV. **On the instability of the giant direct magnetocaloric effect in $\text{CoMn}_{0.915}\text{Fe}_{0.085}\text{Ge}$ at. % metamagnetic compounds**
Bruno N. M., Yüce Emre S.
SCIENTIFIC REPORTS, vol.10, no.1, 2020 (SCI-Expanded)
- V. **Martensitic transformation and magnetocaloric properties of NiCoMnSn magnetic shape memory alloys**
Emre B., Yüce Emre S., Bruno N. M., Karaman I.
INTERMETALLICS, vol.106, pp.65-70, 2019 (SCI-Expanded)
- VI. **Analysis of Magnetization as a Function of Temperature for $\text{CoMn}_{1-x}\text{Fe}(x)\text{Ge}$**
Yüce Emre S., Kilit Doğan E., Emre B., Bruno N. M., Karaman I., YURTSEVEN H. H.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.30, no.12, pp.3587-3594, 2017 (SCI-Expanded)
- VII. **Accessibility investigation of large magnetic entropy change in $\text{CoMn}_{1-x}\text{Fe}_x\text{Ge}$**
Yüce Emre S., Bruno N. M., Emre B., Karaman I.
JOURNAL OF APPLIED PHYSICS, vol.119, no.13, 2016 (SCI-Expanded)
- VIII. **Tailoring barocaloric and magnetocaloric properties in low-hysteresis magnetic shape memory alloys**
Stern-Taulats E., Planes A., Lloveras P., Barrio M., Tamarit J., Pramanick S., Majumdar S., Yüce Emre S., Emre B., Frontera C., et al.
ACTA MATERIALIA, vol.96, pp.324-332, 2015 (SCI-Expanded)
- IX. **Enhancement of magnetocaloric effect in $\text{CoMn}_{0.9}\text{Fe}_{0.1}\text{Ge}$ alloy**
YÜZÜAK E., Dincer I., Elerman Y., Dumkow I., Heger B., Emre S.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.641, pp.69-73, 2015 (SCI-Expanded)
- X. **Effect of niobium addition on the martensitic transformation and magnetocaloric effect in low hysteresis NiCoMnSn magnetic shape memory alloys**
Emre B., Bruno N. M., Yüce Emre S., Karaman I.
APPLIED PHYSICS LETTERS, vol.105, no.23, 2014 (SCI-Expanded)
- XI. **Barocaloric effect in metamagnetic shape memory alloys**
Manosa L., Stern-Taulats E., Planes A., Lloveras P., Barrio M., Tamarit J., Emre B., Yüce Emre S., Fabbri S., Albertini F.
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, vol.251, no.10, pp.2114-2119, 2014 (SCI-Expanded)
- XII. **The Effect of Cr doping on the Magnetic and Magnetocaloric Properties of MnCoGe Alloys**
Emre S.
JOURNAL OF MAGNETICS, vol.18, no.4, pp.405-411, 2013 (SCI-Expanded)

- XIII. **Large reversible entropy change at the inverse magnetocaloric effect in Ni-Co-Mn-Ga-In magnetic shape memory alloys**
Emre B., Yüce S., Stern-Taulats E., Planes A., Fabbri S., Albertini F., Manosa L.
JOURNAL OF APPLIED PHYSICS, vol.113, no.21, 2013 (SCI-Expanded)
- XIV. **Barocaloric effect in the magnetocaloric prototype Gd₅Si₂Ge₂**
Yüce Emre S., Barrio M., Emre B., Stern-Taulats E., Planes A., Tamarit J., Mudryk Y., Gschneidner K. A., Pecharsky V. K., Manosa L.
APPLIED PHYSICS LETTERS, vol.101, no.7, 2012 (SCI-Expanded)
- XV. **(Z)-6-[[1,3-dihydroxy-2-(hydroxy-methyl)propan-2-yliminio]methyl] 2-ethoxyphenolate, (Z)-6-[[1,3-dihydroxy-2-(hydroxymethyl)propan-2-yliminio]methyl]-4-nitratocyclohexa-2,4-dienone monohydrate and (R,E)-2-[(1-hydroxybutan-2-ylimino)methyl]phenol**
Yüce Emre S., Albayrak C., Odabasoglu M., Buyukgungor O.
ACTA CRYSTALLOGRAPHICA SECTION C-CRYSTAL STRUCTURE COMMUNICATIONS, vol.62, 2006 (SCI-Expanded)
- XVI. **2-Hydroxy-6-[(1-naphthylamino)methylene]-cyclohexa-2,4-dien-1-one**
Ozek A., Yüce Emre S., Albayrak C., Odabasoglu M., Buyukgungor O.
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.61, 2005 (SCI-Expanded)
- XVII. **Structures of Some Hydroxynaphthaldehyde Schiff Bases**
Ozek A., Yüce Emre S., Albayrak C., Odabasoglu M., Buyukgungor O.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.61, 2005 (SCI-Expanded)
- XVIII. **1-[(4-acetylphenylamino)methylene]naphthalen-2(1H)-one**
Yüce Emre S., Ozek A., Albayrak C., Odabasoglu M., Buyukgungor O.
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.60, 2004 (SCI-Expanded)
- XIX. **1-[(5-Chloro-2-hydroxyphenylamino)methylene]-naphthalen-2(1H)-one**
Ozek A., Yüce Emre S., Albayrak C., Odabasoglu M., Buyukgungor O.
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.60, 2004 (SCI-Expanded)
- XX. **1-[(2-hydroxy-5-methylphenylamino)-methylene]naphthalen-2(1H)-one**
Ozek A., Yüce Emre S., Albayrak C., Odabasoglu M., Buyukgungor O.
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.60, 2004 (SCI-Expanded)
- XXI. **1-[(4-Nitrophenylamino)methylene]naphthalen-2(1H)-one**
Ozek A., Yüce Emre S., Albayrak C., Buyukgungor O.
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.60, 2004 (SCI-Expanded)
- XXII. **3-(4-Acetylphenyliminomethyl)-1,2-dihydroxy-benzene**
Yüce Emre S., Ozek A., Albayrak C., Odabasoglu M., Buyukgungor O.
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.60, 2004 (SCI-Expanded)
- XXIII. **A redetermination of 1-[4-[(2-hydroxybenzylidene)amino]phenyl]ethanone**
Yüce Emre S., Ozek A., Albayrak C., Odabasoglu M., Buyukgungor O.
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.60, 2004 (SCI-Expanded)
- XXIV. **1-[(3-hydroxypyridin-2-ylamino)methylene]naphthalen-2(1 H)-one**
Ozek A., Yüce Emre S., Albayrak C., Odabasoglu M., Buyukgungor O.
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.60, 2004 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Revealing the low and high temperature magnetic behavior of Ni_{46.86}Co_{2.91}Mn_{38.17}Sn_{12.06} shape memory compound**
YÜCE EMRE S., KİLİT DOĞAN E., DUMAN E., Yıldırım O., EMRE Ş. B.
INTERNATIONAL EURASIAN CONFERENCE ON SCIENCE, ENGINEERING AND TECHNOLOGY (EURASIAN SCIENTECH 2018), 22 - 23 November 2018
- II. **Magnetic Structure and Phase Transition of Ni₄₅Co₅Mn₃₉Sn₁₁ Magnetic Shape memory Compound**
Yıldırım O., YÜCE EMRE S., ERDOĞAN V., DUMAN E., EMRE Ş. B.

The International Conference on Material Science and Technology in Cappadocia(IMSTEC 2018), 17 - 19 September 2018

- III. **Calorimetric Study of Hysteresis Effects on the Magnetocaloric Effect in NiCoMnSn Alloys**
EMRE Ş. B., Stern Taulat E., YÜCE EMRE S., Bruno N., Planes A., Manosa L., Karaman I.
5. CIMTEC 5th International Conference "Smart and Multifunctional Materials, Structures and Systems, 5 - 09 June 2016
- IV. **The effect of the thermo mechanical treatments on mechanical and superelastic properties of 74 8Ti 25 2Nb at alloys**
YÜCE EMRE S., BABACAN N., ATLI K. C., KOÇKAR B.
10th European Symposium on Martensitic Transformations (ESOMAT), 14 - 18 September 2015
- V. **Martensitic transformation and effect of hysteresis on the magnetocaloric properties of NiCoMnSn magnetic shape memory alloys**
EMRE Ş. B., YÜCE EMRE S., Nick B., Ibrahim K.
10th European Symposium on Martensitic Transformations (ESOMAT), 14 - 18 September 2015
- VI. **MAGNETOCALORIC EFFECT AND TUNING TRANSITION TEMPERATURES on CoMn_{1-x}Fe_xGe SYSTEM**
YÜCE EMRE S., Nick B., Ibrahim K.
4th International Conference on Superconductivity and Magnetism, 27 April - 02 May 2014
- VII. **Calorimetric Study of Barocaloric and Magnetocaloric Effects in Gd₅Si₂Ge₂**
YÜCE S., EMRE Ş. B., ENRIC S., ANTONI P., MARIA B., JOSEPH T., LLUIS M., GSCHNEIDNER K. A., MUDRYK Y., PECHARKSY V.
THERMAG V, 17 - 20 September 2012
- VIII. **Calorimetric study of the barocaloric and magnetocaloric effects in Ni Co Mn Ga In**
YÜCE S., EMRE Ş. B., STERN E., PLANES A., BARRIO M., TAMARIT J., ALBERTINI F., FABBRICI S., MANOSA L.
JEMS12 Joint European Magnetic Symposia, 4 - 09 September 2012
- IX. **Magnetic Magnetocaloric Properties and Landau Theory Application on the La_{0.55}Ce_{0.45}Mn₂Si₂ Compound**
EMRE Ş. B., YÜCE S., DİNÇER İ., ELERMAN H. Y.
Türk Fizik Derneği 25. Uluslararası Kongresi, 27 - 29 August 2010
- X. **Investigation of structure and magnetic properties of CoMn_{1-x}Cr_xGe**
YÜCE S., YÜZÜAK E., ELERMAN H. Y.
JEMS10 Joint European Magnetism Symposia, 23 - 28 August 2010
- XI. **The structure of some salicylaldehyde compounds**
YÜCE S., ALBAYRAK KAŞTAŞ Ç., ODABAŞOĞLU M., BÜYÜKGÜNGÖR O.
13. Yoğun Madde Fiziği - Ankara Toplantısı, Turkey, 3 - 05 November 2006
- XII. **Z₆13 Dihydroxy 2 hydroxymethyl propan 2 yliminio methyl 2 ethoxyphenolate Z₆13 dihydroxy 2 hydroxymethyl propan 2 yliminio methyl 4 nitratocyclohexa 2 4 dienone monohydrate and R_E21 hydroxybutan 2 ylimino methyl phenol**
YÜCE S., ALBAYRAK KAŞTAŞ Ç., ODABAŞOĞLU M., BÜYÜKGÜNGÖR O.
2ND TURKISH CRYSTALLOGRAPHIC MEETING, Turkey, 17 - 19 May 2006
- XIII. **Structures of Some Hydroxyanphthaldehyde Schiff Bases**
ÖZEK YILDIRIM A., YÜCE S., ALBAYRAK KAŞTAŞ Ç., ODABAŞOĞLU M., BÜYÜKGÜNGÖR O.
XX IUCr International Union of Crystallography Twentieth General Assembly and International Congress of Crystallography, 23 - 31 August 2005
- XIV. **1 4 2 3 Dihydroxy Benzylidene Amino Phenyl Ethadone Schiff Baz Kristalinin Sentezi ve Yapısı**
YÜCE S., ÖZEK YILDIRIM A., ALBAYRAK KAŞTAŞ Ç., ODABAŞOĞLU M., BÜYÜKGÜNGÖR O.
Türk Fizik Derneği 22. Fizik Kongresi, 14 - 17 September 2004
- XV. **1-[4-[(2,3-Dihydroxy-benzylidene)-amino]-phenyl]-ethanone**
YÜCE EMRE S., ÖZEK YILDIRIM A., ALBAYRAK KAŞTAŞ Ç., ODABAŞOĞLU M., BÜYÜKGÜNGÖR O.
22. Avrupa Kristalografi Toplantısı, 26 - 31 August 2004
- XVI. **Schiff Bazların Sentezlenmesi**
YÜCE EMRE S., ÖZEK YILDIRIM A., ALBAYRAK KAŞTAŞ Ç., ODABAŞOĞLU M., BÜYÜKGÜNGÖR O.

4. Uluslararası Balkan Çalıştayı, 25 - 27 September 2003

XVII. 1-5-Choloro 2-hydroxyphenylamino methylene naphthalen 2 1H one

ÖZEK YILDIRIM A., YÜCE EMRE S., ALBAYRAK KAŞTAŞ Ç., ODABAŞOĞLU M., BÜYÜKGÜNGÖR O.

5.Balkan Fizik Birliği Konferansı, 24 - 29 August 2003

Supported Projects

Yüce Emre S., Project Supported by Higher Education Institutions, PdMn Tabanlı Şekil Hafıza Alasimlerinin Üretilmesi ve Isıl-Mekanik Olarak İncelenmesi, 2016 - 2016

Yüce Emre S., TUBITAK Project, Medikal Uygulamalara Yönelik Yeni Nesil Ti Tabanlı Şekil Hafıza Alaşımları, 2014 - 2016

Yüce Emre S., Project Supported by Higher Education Institutions, Avrupa Martensitik Gecis Sempozyumu (The European Symposium on Martensitic Transformations), 2015 - 2015

Yüce Emre S., Project Supported by Higher Education Institutions, PdMn Tabanlı Malzemelerin Üretilmesi ve Termo Mekaniksel Olarak İncelenmesi, 2013 - 2013

Yüce Emre S., Project Supported by Higher Education Institutions, Ferromanyetik Ni ve Co Tabanlı Heusler Alaşımlarının Yapısal Isısal Elektriksel ve Spintronik Özelliklerinin İncelenmesi, Proje No: 08B4343005, 2007 - 2010

Yüce Emre S., TÜBİTAK International Bilateral Joint Cooperation Program Project, Nadir yer elementi grup 4 sistemlerinin manyetik manyetokalorik etkileri ve yapısal karekterlerini incelenmesi, 2005 - 2008