

Prof. Musa Mutlu CAN

Personal Information

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Biography

Dr. Musa Mutlu Can obtained his PhD. from Hacettepe University at 2011. The studies of Dr. Musa Mutlu Can were based on physical properties of advance materials such as magnetic nano particles, oxide semiconductors, biomaterials/sensors and fuel cells. During his researches, he worked at Hacettepe University (Turkey), University of Delaware (USA), Sabancı University (Turkey), SPIN-CNR (Italy). In 2018, he established the "Renewable Energy and Oxide Hybrid Systems Laboratory" in Physics Department at Istanbul University. He continues his studies at Istanbul University as a professor.

Dr. Can continues to work on magnetic nanoparticles, diluted magnetic semiconductors, micro / nano-sized electrochemical sensors and electrochemical fuel cells. Currently;

He has academic projects on the use of magnetic nanoparticles in the treatment of hyperthermia, hydrogen chain technologies, micro-sized electrochemical sensors and electrochemical photocatalytic fuel cells.

For attached list of publications for review. (Please refer - Scopus Author ID: 55031202900)

Education Information

Doctorate, Hacettepe Üniversitesi, Fizik Mühendisliği, Turkey 2005 - 2011

Postgraduate, Hacettepe Üniversitesi, Fizik Mühendisliği, Turkey 2002 - 2005

Undergraduate, Hacettepe Üniversitesi, Fizik Mühendisliği, Turkey 1996 - 2002

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Synthesis and physical properties of Co doped ZnO diluted magnetic thin films, Hacettepe University, Fizik Mühendisliği, Fizik, 2011

Postgraduate, Investigation of physical properties of magnetic nanoparticles, Hacettepe University, Fizik Mühendisliği, Fizik, 2002

Research Areas

Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Surfaces, Interfaces, Thin Films and

Academic Titles / Tasks

Professor, Istanbul University, Faculty Of Science, Department Of Physics, 2020 - Continues
Associate Professor, Istanbul University, Faculty Of Science, Department Of Physics, 2014 - 2020
Research Assistant PhD, Universita degli studi di Napoli Federico II, CNR, SPIN, 2013 - 2014
Research Assistant PhD, Sabanci University, Fizik, 2011 - 2013
Research Assistant, Hacettepe Üniversitesi, Fizik Mühendisliği, Fizik, 2002 - 2011
Research Assistant, University Of Delaware, Mühendislik, Malzeme Bilimi Ve Mühendisliği Bölümü, 2009 - 2010

Courses

GENEL FİZİK, Undergraduate, 2018 - 2019
İLERİ KUANTUM MEKANİĞİ I, Postgraduate, 2018 - 2019
Analiz I, Undergraduate, 2017 - 2018
DÜZ VE KISMİ TÜREVLİ DİFERANSİYEL DENKLEMLER, Undergraduate, 2017 - 2018
Analizi III, Undergraduate, 2017 - 2018
Matematik II, Undergraduate, 2016 - 2017
Genel Fizik II, Undergraduate, 2016 - 2017
Genel Fizik I, Undergraduate, 2016 - 2017
Malzeme Bilimi, Undergraduate, 2014 - 2015

Jury Memberships

Post Graduate, Yüksek Lisans Tez Savunma Jürisi, İstanbul Teknik Üniversitesi, June, 2016
Doctorate, Doktora Tez Savunma Jürisi, Sabancı Üniversitesi, February, 2016

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

- I. **Synthesis and optical analyses of fluorine doped tin oxide (SnO₂) nanoparticles**
Karaman T., Sharwani A. U. R. , Can M. M. , Shawuti S., Kaneko S.
European Physical Journal-Applied Physics, vol.95, no.20402, pp.1-6, 2021 (Journal Indexed in SCI)
- II. **Irreversible Multi-Band Effects and Lifshitz Transitions at the LaAlO₃/SrTiO₃ Interface Under Field Effect**
Pallecchi I., Lorenzini N., Safeen M. A. , CAN M. M. , Di Gennaro E., Granozio F. M. , Marré D.
ADVANCED ELECTRONIC MATERIALS, 2021 (Journal Indexed in SCI)
- III. **Optical and structural modification of boron-doped CoGa₂O₄ particles**
CAN M. M. , Karaman T., Shawuti S.
CERAMICS INTERNATIONAL, vol.46, no.9, 2020 (Journal Indexed in SCI)
- IV. **Complex Impedance Analyses of Li doped ZnO Electrolyte Materials**
Shawuti S., Sherwani A. U. R. , CAN M. M. , Gulgun M. A.
SCIENTIFIC REPORTS, vol.10, no.1, 2020 (Journal Indexed in SCI)
- V. **Constriction of a lattice constant in an epitaxial magnesium oxide film deposited on a silicon substrate**
Kaneko S., Tokumasu T., Nakamaru Y., Kokubun C., Konda K., Yasui M., Kurouchi M., Can M., Shawuti S., Sudo R., et al.
JAPANESE JOURNAL OF APPLIED PHYSICS, vol.58, 2019 (Journal Indexed in SCI)

- VI. **Influence of back gate voltage on electrical transport in $Zn_{1-(y+x)}(Al_x, Eu_y)O$ thin films**
 Algun G., Akcay N., Can M. M. , Kaneko S.
 MATERIALS RESEARCH EXPRESS, vol.5, no.10, 2018 (Journal Indexed in SCI)
- VII. **Influence of grain boundary interface on ionic conduction of $(Zn_{1-x}, Co_x)O$**
 Shawuti S., Can M. M. , GÜLGÜN M. A. , Kaneko S., Endo T.
 COMPOSITES PART B-ENGINEERING, vol.147, pp.252-258, 2018 (Journal Indexed in SCI)
- VIII. **Europium dependent absorption properties of $Zn_{1-(y+0.01)}(Al_{0.01}, Eu (y))O$ ($y=0.00, 0.01, 0.03$ and 0.05) thin films grown on the soda-lime glass substrates by spin coating**
 Akcay N., Algun G., Kilic N., Shawuti S., Can M. M.
 JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.28, pp.4492-4497, 2017 (Journal Indexed in SCI)
- IX. **Experimentally tailoring s-d and p-d interactions in spin polarization via post deposition annealing conditions**
 Can M. M. , Shawuti S., Firat T., Shah S. I.
 JOURNAL OF ALLOYS AND COMPOUNDS, vol.660, pp.423-432, 2016 (Journal Indexed in SCI)
- X. **Defect dependent polarized spin current in 1% Co doped ZnO thin films**
 Can M. M. , Shah S. I. , Firat T.
 JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.377, pp.229-238, 2015 (Journal Indexed in SCI)
- XI. **Grain Size Dependent Comparison of ZnO and ZnGa₂O₄ Semiconductors by Impedance Spectrometry**
 Shawuti S., Can M. M. , Gulgun M. A. , Firat T.
 ELECTROCHIMICA ACTA, vol.145, pp.132-138, 2014 (Journal Indexed in SCI)
- XII. **The formation of anomalous Hall effect depending on W atoms in ZnO thin films**
 Can M. M. , Shah S. I. , Firat T.
 APPLIED SURFACE SCIENCE, vol.303, pp.76-83, 2014 (Journal Indexed in SCI)
- XIII. **The magnetization in $(Zn_{1-x}Co_x)Ga_2O_4$ ($x=0.05, 0.10,$ and 0.20) diluted magnetic semiconductors depending on Co atoms in tetrahedral and octahedral sites**
 Can M. M.
 JOURNAL OF MATERIALS RESEARCH, vol.29, no.9, pp.1062-1068, 2014 (Journal Indexed in SCI)
- XIV. **Size dependent heating ability of CoFe₂O₄ nanoparticles in AC magnetic field for magnetic nanofluid hyperthermia**
 Celik O., Can M. M. , Firat T.
 JOURNAL OF NANOPARTICLE RESEARCH, vol.16, no.3, 2014 (Journal Indexed in SCI)
- XV. **The effects of postdeposition annealing conditions on structure and created defects in Zn_{0.90}Co_{0.100} thin films deposited on Si(100) substrate**
 Can M. M. , Firat T., Shah S. I. , Bakan F., Oral A.
 JOURNAL OF MATERIALS RESEARCH, vol.28, no.5, pp.708-715, 2013 (Journal Indexed in SCI)
- XVI. **Synthesis and characterization of ZnGa₂O₄ particles prepared by solid state reaction**
 Can M. M. , Jaffari G. H. , Aksoy S., Shah S. I. , Firat T.
 JOURNAL OF ALLOYS AND COMPOUNDS, vol.549, pp.303-307, 2013 (Journal Indexed in SCI)
- XVII. **A comparative study of nanosized iron oxide particles; magnetite (Fe₃O₄), maghemite (gamma-Fe₂O₃) and hematite (alpha-Fe₂O₃), using ferromagnetic resonance**
 Can M. M. , Coskun M., Firat T.
 JOURNAL OF ALLOYS AND COMPOUNDS, vol.542, pp.241-247, 2012 (Journal Indexed in SCI)
- XVIII. **Magnetoelectrical properties of W doped ZnO thin films**
 Can M. M. , Firat T., Shah S. I.
 JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.324, no.23, pp.4054-4060, 2012 (Journal Indexed in SCI)
- XIX. **Surface anisotropy change of CoFe₂O₄ nanoparticles depending on thickness of coated SiO₂ shell**
 Coskun M., Can M. M. , Coskun O. D. , Korkmaz M., Firat T.
 JOURNAL OF NANOPARTICLE RESEARCH, vol.14, no.10, 2012 (Journal Indexed in SCI)
- XX. **Electrical and optical properties of point defects in ZnO thin films**

Can M. M., Shah S. I., Doty M. F., Haughn C. R., Firat T.

JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.45, no.19, 2012 (Journal Indexed in SCI)

- XXI. **Domain state-dependent magnetic formation of Fe₃O₄ nanoparticles analyzed via magnetic resonance**

Can M. M., Coskun M., Firat T.

JOURNAL OF NANOPARTICLE RESEARCH, vol.13, no.10, pp.5497-5505, 2011 (Journal Indexed in SCI)

- XXII. **Interparticle interaction effects on magnetic behaviors of hematite (alpha-Fe₂O₃) nanoparticles**

Can M. M., Firat T., ÖZCAN Ş.

PHYSICA B-CONDENSED MATTER, vol.406, no.13, pp.2483-2487, 2011 (Journal Indexed in SCI)

- XXIII. **Dominancy of antiferromagnetism in Zn_{1-x}Co_xO diluted magnetic semiconductors**

Can M. M., Firat T., ÖZCAN Ş.

JOURNAL OF MATERIALS SCIENCE, vol.46, no.6, pp.1830-1838, 2011 (Journal Indexed in SCI)

- XXIV. **Single step synthesis of nanocrystalline ZnO via wet-milling**

ÖZCAN Ş., Can M. M., CEYLAN A.

MATERIALS LETTERS, vol.64, no.22, pp.2447-2449, 2010 (Journal Indexed in SCI)

- XXV. **Effect of milling time on the synthesis of magnetite nanoparticles by wet milling**

Can M. M., ÖZCAN Ş., CEYLAN A., Firat T.

MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, vol.172, no.1, pp.72-75, 2010 (Journal Indexed in SCI)

- XXVI. **Synthetic, structural and magnetic studies on chromium orthoborate**

Oeztuerk O. F., Zuemreoglu-Karan B., Can M. M., ÖZCAN Ş.

ZEITSCHRIFT FÜR ANORGANISCHE UND ALLGEMEINE CHEMIE, vol.634, pp.1127-1132, 2008 (Journal Indexed in SCI)

- XXVII. **Synthesis of ZnFe₂O₄ from metallic zinc and iron by wet-milling process**

Ozcan S., Kaynar B., Can M., Firat T.

MATERIALS SCIENCE AND ENGINEERING B-SOLID STATE MATERIALS FOR ADVANCED TECHNOLOGY, vol.121, no.3, pp.278-281, 2005 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Growing Zn_{0.90}Co_{0.100} Diluted Magnetic Semiconductors by RF Magnetron Sputtering**

CAN M. M.

MRS Proceedings, vol.1201, pp.29-31, 2010 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **Energy Stored in a Slab covered by Graphene Sheets**

Can M. M.

in: Carbon Related Materials, Satoru Kaneko, Masami Aono, Alina Pruna, Musa Can, Paolo Mele, Mehmet Etugrul, Tamio Endo, Editor, Springer Nature Singapore Pte Ltd., Singapore, pp.1-21, 2020

Refereed Congress / Symposium Publications in Proceedings

- I. **Active Deep Energy Levels on Gas Sensing Performance of (Zn, Co)Ga₂O₄ thin films**

CAN M. M., Shawuti S., AKÇAY N., ALGÜN G.

Science and Applications of Thin Films, Conference & Exhibition (SATF 2018), İzmir, Turkey, 17 - 21 September 2018, pp.59

- II. **The Hydrogen sensing ability of Oxide semiconductors**

CAN M. M. , Scawati S., Gülgün M. A. , CERİT H., AROĞUZ A. Z.

2nd International Hydrogen Technologies Congress, Adana, Turkey, 15 - 18 March 2017, pp.72

III. Understanding The Gas Sensing Ability of (Zn,Co)Ga₂O₄ Thin Films Via Optical, Thermal Transport and DC Conductivity Measurements

CAN M. M. , SHAWUTI S., AKÇAY N., ALGÜN G.

2016 MRS spring Meeting&Exhibit, Phoenix, United States Of America, 28 March - 01 April 2016, pp.1-5

IV. Magnetic behaviour of iron nanoparticles passivated by oxidation

Can M. M. , ÖZCAN Ş., Firat T.

International Conference on Nanoscale Magnetism (ICNM 2005), Gebze, Turkey, 3 - 07 July 2005, vol.3, pp.1271-1272

Supported Projects

CAN M. M. , TUBITAK Project, Gözenekli Yapıda Büyütülen P-Tipi Metal Galyum Oksit Yarıiletkenlerin Fotoelektro Kimyasal Yakıt Pili Performansının Geliştirilmesi, 2019 - Continues

CAN M. M. , Project Supported by Higher Education Institutions, Fotoelektrokimyasal Yakıt Hücrelerinin Geliştirilmesi, 2018 - 2020

Can M. M. , Algün G., Akçay N., TUBITAK Project, Katkı Atomlarının İyonik Durumlarına ve Konumlarına Bağlı Olarak Oksit Yarıiletken Heteroyapılarda Karbon Salınımı Düşük Yakıt Gazlarının Algılanması, Tutma ve Bırakma Kabiliyetinin Belirlenmesi, 2017 - 2020

CAN M. M. , TUBITAK Project, 3 Boyutlu Hall Aygıtı Mikroskobu (3D-THAM) ile Magnetik Malzemelerin Yüzey Analizleri, 2011 - 2013

Edit Congress and Symposium Activities

Musa Mutlu Can, Shalima Shawuti, Satoru Kaneko, Cleve Ow-Yang, Sanapa Lakshmi Reddy, Mehmet Ali Gülgün, Tamio Endo, Magnetization in Oxide Semiconductors: Dependency to Native Defects and Impurity Atoms, 2017 ICG Annual Meeting & 32nd Şişecam Glass Symposium, 22-25. Ekim, 2017, İstanbul, Turkey- sozlu, Attendee, Turkey, 2017

Mustafa Coşkun, Senem Çitoğlu, Musa Mutlu Can, Dimercaptosuccinic acid (DMSA) coated cubic magnetite nanoparticles: Synthesis, characterization and their potential for hyperthermia, Bio-Medical Applications of Magnetic Nano-Particles, 11. Eylül - 12.Eylül.2017, Gebze Teknik Üniversitesi, Kocaeli, Türkiye- sozlu, Attendee, Agrigento, Turkey, 2017

Musa M. Can, Shalima Shawuti, Ionic Conduction Performance of Oxide Semiconductors, Turkish Physical Society 33rd International Physics Congress – TPS33, 6 -10. Eylül.2017, Bodrum, Türkiye - sozlu, Attendee, Muğla, Turkey, 2017

Mustafa Coşkun, Senem Çitoğlu, Musa Mutlu Can, Tezer Firat, Magnetic Structure of Ferrite Nanoparticles and Usefulness of Ferrites in Hipertermia Applications, Bio-Medical Applications of Magnetic Nano-Particles, 11. Eylül - 12.Eylül.2017, Gebze Teknik Üniversitesi, Kocaeli, Türkiye- sozlu, Attendee, Turkey, 2017

Musa M. Can, Shalima Shawuti, Oxide Based ((Zn,Co)O And (Zn,Co)Ga₂O₄) Wide Band Gap Semiconductor for Gas Sensing Technology, Turkish Physical Society 33rd International Physics Congress – TPS33, 6 -10. Eylül.2017, Bodrum, Türkiye - poster, Attendee, Turkey, 2017

S. Kaneko, T. Endo, K. Satoh, Y. Motoizumi, T. Rachi, M. Yasui, Y. Shimizu, S. Tanaka, C. Kato, Musa Can, S. Shawuti, A. Matsuda, M. Yoshimoto, Multi-graphene Growth on Paper Drawn by 10B Pencil using Laser Annealing, The 15th International Conference on Advanced Materials- IUMRS-ICAM 2017, 27. Ağustos-1. Eylül, 2017, Kyoto, Japonya - davetli konuşma, Attendee, Kyôto, Japan, 2017

Musa Mutlu Can, Shalima Shawuti, Satoru Kaneko, Mehmet Ali Gülgün, Tamio Endo, Oxide Based ((Zn,Co)O And (Zn,Co)Ga₂O₄) Wide Band Gap Semiconductor For Fuel Gas Sensing Technology And Gas Holding Ability For Fuel Cells, The 15th International Conference on Advanced Materials- IUMRS-ICAM 2017, 27. Ağustos-1. Eylül, 2017, Kyoto, Japonya - davetli konuşma, Attendee, Kyôto, Japan, 2017

Musa Mutlu Can, Shalima Shawuti, Tezer Firat, S. Ismat Shah, S. Lakshmi Reddy, Satoru Kaneko, Paolo Mele, David Hui, Tamio Endo, Magnetic Formation in Oxide Thin Films Due to Ionic States of Intrinsic and Extrinsic Point Defects, The

25th Annual International Conference on Composites or Nano Engineering, ICCE-25, 16.Temmuz - 22.Temmuz.2017, Roma, Italy- poster, Attendee, Roma, Italy, 2017

Musa Mutlu Can, Shalima Shawuti, Mehmet Ali Gülgün, Ayşe Zehra Aroğuz, Harun Cerit, "Grain Boundaries Contribution on Ionic Conductivity of Oxide Semiconductors ", the Second International Hydrogen Technologies Congress (IHTEC-2017), 15-18.Mart.2017 (Sözlü Sunum), Attendee, Adana, Turkey, 2017

Understanding The Gas Sensing Ability of (Zn,Co)Ga₂O₄ Thin Films Via Optical, Thermal Transport and DC Conductivity Measurements, Attendee, Arizona, United States Of America, 2016

II. International Conference on Microwave and Photonics-ICMAP2015 / Graphen Growth: 10B Lead Pencil, Print Paper, and Femtosecond Laser, Attendee, Dhanbad, India, 2015

Mustafa Coşkun, Özer Çelik, Senem Kurtoğlu, Musa Mutlu Can, Tezer Fırat, "Ferrite Nanoparçacıkların Parçacık Büyüklüğü Bağımlı Manyetik Alana Karşı Tepkileri ve Hipertermia Uygulamalarına Uygunluğu", 21. Ankara Yoğun Madde Fiziği, Ankara, Türkiye, 25. Aralık.2015, Attendee, Ankara, Turkey, 2015

Shalima Shawuti, Musa Mutlu Can, Mehmet Ali Gülgün, "Katı Hal Reaksiyonu ile Sentezlenen (x=0.01, 0.05 ve 0.10) Zn_{1-x}CoxO Elektrolit Malzemelerin Yakıt Pili Olarak Kullanımı", 21. Ankara Yoğun Madde Fiziği, Ankara, Türkiye, 25. Aralık.2015, Attendee, Turkey, 2015

Shalima Shawuti, Musa Mutlu Can, M. A. Gulgun, 22nd Electron Microscopy Conference, "Complex Impedance analysis in oxide semiconductor for fuel cell", Sabanci University, Istanbul, Turkey, 2-4. September.2015. (Poster), Attendee, Turkey, 2015

Shalima Shawuti, Musa Mutlu Can, M. A. Gulgun, 26eth international conference on amorphous and nano crystalline semiconductors-ICANS26, "Suitability of oxide based semiconductor materials for low temperature solid oxide fuel cell as potential electrolyte", Aachen, Almanya, 13-18.September.2015. (Oral), Attendee, Aachen, Germany, 2015

Musa Mutlu Can, 9th Balkan Physic Union, "Intrinsic Defect Dependent Magneto – Electrical Analyses Of ZnO And (Zn,W)O Thin Films ", Istanbul University, Istanbul, Turkiye, 24-27. August. 2015. (Oral), Attendee, Turkey, 2015

Musa Mutlu Can, Co doped (Zn_{1-x}Cox)Ga₂O₄ (x=0.05, 0.10 and 0.20) diluted magnetic semiconductors, Middle East Technical University, Nanotr 11, 22-25. June. 2015. (Oral), Attendee, Turkey, 2015

Musa Mutlu Can, Akif Safeen, Amit Khare, Emiliano Di Gennaro, U. Scotti di Uccio, F. Miletto Granozio, Gate-Voltage-Dependent Electrical Transport Properties of 2DEGs at Oxide Heterostructures, Materials Research Society Fall Meeting, Boston, USA, 30.November – 5.December, 2014. (Poster), Attendee, Massachusetts, United States Of America, 2014

Musa M. Can. T. Fırat, S. Ismat Shah, Ahmet Oral, "Magneto-electrical Analyses of ZnO Thin Films Depending on Cobalt Amount in Lattice", 24th International Conference on Amorphous and Nanocrystalline Semiconductors (ICANS 25), Toronto, ON, Canada, August 18-23, 2013 (Oral), Attendee, Toronto, Canada, 2013

Musa M. Can, T. Fırat, S. I. Shah, "Intrinsic Defect Dependent Electrical and Magnetic Properties of ZnO and (Zn,W)O Thin Film", 27th International Conference on Defects in Semiconductors 2013, Bologna, Italy, 21 – 26. July. 2013 (POSTER), Attendee, Bologna, Italy, 2013

Musa M. Can. T. Fırat, S. Ismat Shah, "The magnetic and electrical effects of W impurities in the ZnO thin films", 24th International Conference on Amorphous and Nanocrystalline Semiconductors (ICANS 24), Nara, Japan, August 21-26, 2011 (Oral), Attendee, Nara, Japan, 2011

Musa M. Can, T. Fırat, Ş. Özcan, "Structural, Optic and Magnetic Investigation of the Synthesized ZnO and Zn_{0.99}Co_{0.010} Semiconductors via Solid State Reaction", 11th Joint MMM-Intermag Conference, Washington DC, USA, January 18-22, 2010 (Poster), Attendee, Washington, United States Of America, 2010

Musa M. Can, T. Fırat, Ş. Özcan, "Growing Zn_{0.90}Co_{0.100} Diluted Magnetic Semiconductors by r. f. Magnetron Sputtering", 2009 MRS Fall Meeting, Boston, MA, USA, November 30 – December 5, 2009 (Poster), Attendee, Massachusetts, United States Of America, 2009

Musa M. Can, Ş. Özcan, A. Ceylan, T. Fırat, "Determination of Milling Parameters to Obtain Magnetite Nanoparticles from Iron Metal by Wet-Milling", 2009 MRS Fall Meeting, Boston, MA, USA, November 30 – December 5, 2009 (Oral), Attendee, Massachusetts, United States Of America, 2009

Musa M. Can, T. Ünsal, S. Özcan, T. Fırat, "Structural and Magnetic Properties of Mechanochemically Synthesized Co:ZnO Nanoparticles", Condensed Matter Physics Conference of Balkan Countries - CMPC BC2008, Mugla University, Mugla – Turkey, 26 – 28 May 2008 (Poster), Attendee, --Seçiniz--, Turkey, 2008

Musa M. Can, Ş. Özcan, T. Fırat, "Fabrication and Magnetic Properties of ?-Fe₂O₃ (Hematite) Nanoparticles", XIXth International School on Physics and Chemistry of Condensed Matter-Physics and Chemistry of Magnetic Materials - The

Basics, Bialowieza, Poland, July 7-14, 2007 (Poster), Attendee, Bialystok, Poland, 2007

Ö. F. Öztürk, B. Zümreoğlu-Karan, Ş. Özcan, B. Kaynar, Musa M. Can, T. Fırat, "Effect of Preparation Conditions (Precursor Type and Methodology) on the Homogeneity and Magnetic Properties of Chromium Borate Materials", International workshop on nanostructured materials-NANOMAT2006, Antalya-Turkey, July 21-23, 2006. (Poster), Attendee, Antalya, Turkey, 2006

Musa M. Can, M. Coşkun, Ş. Özcan, T. Fırat, M. Korkmaz, "Magnetic Difference of nanosized magnetite (Fe_3O_4), maghemite ($\gamma-Fe_2O_3$) and hematite ($\alpha-Fe_2O_3$) particles determined by Magnetic Resonance", International workshop on nanostructured materials-NANOMAT2006, Antalya-Turkey, July 21-23, 2006 (Oral), Attendee, Turkey, 2006

Musa M. Can, S. Ozcan, T. Fırat, "The Magnetic Behaviour of The Iron Nanoparticles Passivated by Oxygen", International Conference on Nanoscale Magnetism (ICNM-2005), Gebze-Turkey, July 3-7, 2005 (Oral), Attendee, Kocaeli, Turkey, 2005

Citations

Total Citations (WOS):389

h-index (WOS):11

Awards

CAN M. M. , Ferrite Nanoparçacıkların Parçacık Büyüklüğü Bağımlı Manyetik Alana Karşı Tepkileri ve Hipertermia Uygulamalarına Uygunluğu, 21. Yoğun Madde Fiziği - Ankara Toplantısı (Poster Birincilik Ödülü), December 2015