

Prof. ŞADAN ÖZCAN

Personal Information

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Education Information

Doctorate, Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Müh., Turkey 1998 - 2000

Postgraduate, Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Müh., Turkey 1990 - 1998

Undergraduate, Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Müh., Turkey 1984 - 1990

Foreign Languages

English, C1 Advanced

Research Areas

Physics, Intensive Article 2: Electronic Structure, Electric, Magnetic and Optical Properties, Magnetic Properties and Materials, Natural Sciences

Academic Titles / Tasks

Professor, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2012 - Continues

Associate Professor, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2007 - 2012

Lecturer PhD, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2002 - 2007

Research Assistant, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 1990 - 2002

Academic and Administrative Experience

Head of Department, Hacettepe University, Fen Bilimleri Enstitüsü, Nanoteknoloji Ve Nanotıp A.B.D., 2018 - 2020

Hacettepe Üniversitesi, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2014 - 2016

Advising Theses

ÖZCAN Ş., Bor tabanlı malzemelerin sentezlenmesi ve hidrojen depolama özelliklerinin incelenmesi, Postgraduate, G.BAYAZİT(Student), 2016

ÖZCAN Ş., Nanokristal mnb alaşımının sentezlenmesi ve hipertermi uygulamasının araştırılması, Postgraduate, Ç.PİYAN(Student), 2016

ÖZCAN Ş., Değiş-tokuş etkileşimi çiftlenimli nanomıknatısların manyetik özelliklerinin incelenmesi, Doctorate, T.ŞİMŞEK(Student), 2015

ÖZCAN Ş., Ferrit tabanlı nanokompozit malzemelerde mikrodalga soğurma özelliklerinin araştırılması, Doctorate, M.BURAK(Student), 2014

ÖZCAN Ş., Zirkonyum diborür nano kristal kaplanmış farklı malzemelerin mekanik ve işlenebilirlik özelliklerinin araştırılması, Doctorate, T.ŞİMŞEK(Student), 2014

ÖZCAN Ş., Katalizör ve ENG katkılı MgH₂ peletlerin yapısal özelliklerinin ve hidrojen kinetiğinin araştırılması, Postgraduate, G.GİZER(Student), 2014

ÖZCAN Ş., Yeni nesil ince filmler ile optoelektronik uygulamaların araştırılması, Doctorate, M.DENİZ(Student), 2014

ÖZCAN Ş., Kompleks hidrit nanoparçacıkların sentezi ve hidrojen kinematığının araştırılması, Postgraduate, S.AKANSEL(Student), 2012

ÖZCAN Ş., FePt nanoparçacıkların kimyasal yöntem ile sentezlenmesi ve magnetik özelliklerinin belirlenmesi, Postgraduate, T.ÜNSAL(Student), 2009

ÖZCAN Ş., Nanoakışkanların ısı iletkenliklerinin ölçülmesi, Postgraduate, M.ARTUÇ(Student), 2007

ÖZCAN Ş., Hidrojenin ek yakıt olarak kullanılmasının dizel motorlara etkilerinin incelenmesi, Postgraduate, C.ERMAN(Student), 2007

ÖZCAN Ş., Manyetik nanoparçacıkların fiziksel özelliklerinin araştırılması, Postgraduate, M.MUTLU(Student), 2005

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

- I. **A single step synthesis by mechanical alloying and characterization of nanostructured Fe₂B of high magnetic moment**
ŞİMŞEK T., Avar B., Şimşek T., YILDIZ B., Chattopadhyay A. K. , ÖZCAN Ş.
Ceramics International, vol.47, pp.26119-26124, 2021 (Journal Indexed in SCI)
- II. **Structural stability of mechanically alloyed amorphous (FeCoNi)₇₀Ti₁₀B₂₀ under high-temperature and high-pressure**
AVAR B., Simsek T., ÖZCAN Ş., Chattopadhyay A. K. , Kalkan B.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.860, 2021 (Journal Indexed in SCI)
- III. **Characterization of mechanochemically synthesized ZrB₂ nanocrystals with Zr/ZrO₂, B₂O₃, and Mg reactants**
ŞİMŞEK T., Baris M., Chattopadhyay A. K. , ÖZCAN Ş., AKKURT A.
INORGANIC AND NANO-METAL CHEMISTRY, 2021 (Journal Indexed in SCI)
- IV. **Solid-State Synthesis and Characterization of the Stable Nanostructured Ni₂₁Ti₂B₆ Phase**
Simsek T., AVAR B., ÖZCAN Ş., Chattopadhyay A. K. , Kalkan B.
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, 2021 (Journal Indexed in SCI)
- V. **Solution combustion synthesis of new metal borophosphates (Fe_{1-x}Cr_x)₂B (PO₄)₃: Structural, thermal, surface, and magnetic properties**
ÖZER D., ŞİMŞEK T., ÖZCAN Ş., Oztas N. A.
CERAMICS INTERNATIONAL, vol.46, no.8, pp.12238-12242, 2020 (Journal Indexed in SCI)
- VI. **Nano-sized neodymium hexaboride: Room temperature mechanochemical synthesis**
Simsek T., Avar B., ÖZCAN Ş., Kalkan B.
PHYSICA B-CONDENSED MATTER, vol.570, pp.217-223, 2019 (Journal Indexed in SCI)
- VII. **Structure and magnetic properties of (La_{1-x}Fe_x)FeO₃(x=0, 0.25, 0.50) perovskite**
Unlu C. G. , Kaynar M. B. , Şimşek T., Tekgul A., Kalkan B., Özcan Ş.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.784, pp.1198-1204, 2019 (Journal Indexed in SCI)
- VIII. **Saturation magnetization change with structure in CoFe₂O₄ nanostructures prepared from metallic iron and cobalt by wet grinding method**
KAYNAR M. B. , Toprak A., ÖZCAN Ş.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.34, no.2, pp.1102-1108, 2019 (Journal Indexed in SCI)
- IX. **Effect of gate structures on the DC and RF performance of AlGaIn/GaN HEMTs**
Toprak A., Osmanoglu S., Ozturk M., Yilmaz D., Cengiz O., ŞEN O., Butum B., ÖZCAN Ş., Ozbay E.
SEMICONDUCTOR SCIENCE AND TECHNOLOGY, vol.33, no.12, 2018 (Journal Indexed in SCI)
- X. **Influence of Crystal Size on the Magnetic Properties of Manganese Monoboride Nanoparticles**

Şimşek T., Özcan Ş.

IEEE TRANSACTIONS ON MAGNETICS, vol.54, 2018 (Journal Indexed in SCI)

- XI. **High purity synthesis of ZrB₂ by a combined ball milling and carbothermal method: Structural and magnetic properties**
Baris M., Simsek T., Şimşek T., Özcan Ş., Kalkan B.
Advanced Powder Technology, vol.29, pp.2440-2446, 2018 (Journal Indexed in SCI)
- XII. **Surface Treatment of S355JR Carbon Steel Surfaces with ZrB₂ Nanocrystals by CO₂ Laser**
Simsek T., BARIS M., CHATTOPADHYAY A. K., ÖZCAN Ş., Akkurt A.
TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS, vol.71, no.8, pp.1885-1896, 2018 (Journal Indexed in SCI)
- XIII. **Islak Ögütme Yöntemi ile Metalik Demir ve Kobalttan Hazırlanmış CoFe₂O₄ Nanoyapılarda Doyum Manyetizasyonunun Yapıya Bağlı Değişimi**
KAYNAR M. B., TOPRAK a., ÖZCAN Ş.
Journal Of The Faculty Of Engineering And Architecture Of Gazi University, vol.18, 2018 (Journal Indexed in SCI Expanded)
- XIV. **Phase transition of chemically synthesized FePt nanoparticles under high pressure**
Şimşek T., Karci Ö., Özcan Ş.
TURKISH JOURNAL OF CHEMISTRY, vol.42, no.5, pp.1217-1223, 2018 (Journal Indexed in SCI)
- XV. **Magnetocaloric effect in La-0.7 NdxBa(0.3-x)MnO₃ (x=0, 0.05, 0.1) perovskite manganites**
Unlu C. G., Tanis Y. E., KAYNAR M. B., ŞİMŞEK T., ÖZCAN Ş.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.704, pp.58-63, 2017 (Journal Indexed in SCI)
- XVI. **Magnetic Resonance Imaging Safety of Magnetically Controlled Growing Rods in an in Vivo Animal Model**
EROGLU M., DEMIRKIRAN G., Kocyigit I. A., Bilgili H., KAYNAR M. B., Bumin A., ÖZCAN Ş., YAZICI M.
Spine, vol.42, no.9, 2017 (Journal Indexed in SCI)
- XVII. **Fabrication and Magnetic Properties of Mn (x) B₄₅Co_{100-x} Alloys**
PIYAN C., ŞİMŞEK T., KAYNAR M. B., ÖZCAN Ş.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.29, no.8, pp.2203-2206, 2016 (Journal Indexed in SCI)
- XVIII. **Formation of ST₁₂ phase Ge nanoparticles in ZnO thin films**
CEYLAN A., GUMRUKCU A. E., Akin N., ÖZCAN Ş., Ozcelik S.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.40, pp.407-411, 2015 (Journal Indexed in SCI)
- XIX. **Characterization and amorphous phase formation of mechanically alloyed Co₆₀Fe₅Ni₅Ti₂₅B₅ powders**
Avar B., ÖZCAN Ş.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.650, pp.53-58, 2015 (Journal Indexed in SCI)
- XX. **Synthesis and magnetic properties of nanocrystalline BaFe₁₂O₁₉**
KAYNAR M. B., ÖZCAN Ş., Shah S. I.
CERAMICS INTERNATIONAL, vol.41, no.9, pp.11257-11263, 2015 (Journal Indexed in SCI)
- XXI. **Structural and Magnetic Properties of MnxB_{100-x} Alloys**
ŞİMŞEK T., ÖZCAN Ş.
IEEE TRANSACTIONS ON MAGNETICS, vol.51, no.7, 2015 (Journal Indexed in SCI)
- XXII. **Rapid thermal annealing induced formation of Ge nanoparticles in ZnO thin films: A detailed SAXS study**
CEYLAN A., YILDIRIM L. T., ÖZCAN Ş., Shah S. I.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.34, pp.8-13, 2015 (Journal Indexed in SCI)
- XXIII. **Effects of disordered surface structure on the magnetic properties of nanocrystalline MnFe₂O₄**
CEYLAN A., ÖZCAN Ş.
CERAMICS INTERNATIONAL, vol.41, no.3, pp.3875-3878, 2015 (Journal Indexed in SCI)
- XXIV. **Effects of rapid thermal annealing on the structural and local atomic properties of ZnO: Ge nanocomposite thin films**
CEYLAN A., Rumaiz A. K., Caliskan D., ÖZCAN Ş., Ozbay E., WOICIK J. C.

JOURNAL OF APPLIED PHYSICS, vol.117, no.10, 2015 (Journal Indexed in SCI)

- XXV. **Rapid thermal annealing induced formation of Ge nanoparticles in ZnO thin films: A detailed SAXS study**
YILDIRIM L., CEYLAN A., ÖZCAN Ş., Shah S. I.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.71, 2015 (Journal Indexed in SCI)
- XXVI. **Quantitative Characterization of Magnetic Mobility of Nanoparticle in Solution-Based Condition**
RODOPLU D., BOYACI İ. H. , BOZKURT A. G. , EKSI H., Zengin A., Tamer U., AYDOĞAN N., ÖZCAN Ş., Tugcu-Demiroz F.
CURRENT PHARMACEUTICAL DESIGN, vol.21, no.37, pp.5389-5400, 2015 (Journal Indexed in SCI)
- XXVII. **Low dark current and high speed ZnO metal-semiconductor-metal photodetector on SiO₂/Si substrate**
Caliskan D., Butun B., Cakir M. C. , ÖZCAN Ş., Ozbay E.
APPLIED PHYSICS LETTERS, vol.105, no.16, 2014 (Journal Indexed in SCI)
- XXVIII. **Structural, mechanical and magnetic properties of Fe-40-at.% Al powders during mechanical alloying**
Avar B., Gogebakan M., ÖZCAN Ş., Kerli S.
JOURNAL OF THE KOREAN PHYSICAL SOCIETY, vol.65, no.5, pp.664-670, 2014 (Journal Indexed in SCI)
- XXIX. **Structural evolutions in Ti and TiO₂ powders by ball milling and subsequent heat-treatments**
Avar B., ÖZCAN Ş.
CERAMICS INTERNATIONAL, vol.40, no.7, pp.11123-11130, 2014 (Journal Indexed in SCI)
- XXX. **Synthesis of MnFe₂O₄ nanocrystals by wet-milling under atmospheric conditions**
ŞİMŞEK T., AKANSEL S., ÖZCAN Ş., CEYLAN A.
CERAMICS INTERNATIONAL, vol.40, no.6, pp.7953-7956, 2014 (Journal Indexed in SCI)
- XXXI. **Spectral response modification of TiO₂ MSM photodetector with an LSPR filter**
Caliskan D., Butun B., ÖZCAN Ş., Ozbay E.
OPTICS EXPRESS, vol.22, no.12, pp.14096-14100, 2014 (Journal Indexed in SCI)
- XXXII. **Anisotropic core-shell Fe₃O₄@Au magnetic nanoparticles and the effect of the immunomagnetic separation volume on the capture efficiency**
Zengin A., BOZKURT A., BOYACI İ. H. , ÖZCAN Ş., DANIEL P., LAGARDE F., GIBAUD A., Cetin D., Suludere Z., GUTTMANN P., et al.
PURE AND APPLIED CHEMISTRY, vol.86, no.6, pp.967-978, 2014 (Journal Indexed in SCI)
- XXXIII. **Effective magnetic anisotropy enhancement of FePt nanocrystals through shape control**
ŞİMŞEK T., ÖZCAN Ş.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.351, pp.47-51, 2014 (Journal Indexed in SCI)
- XXXIV. **The influence of reactive milling on the structure and magnetic properties of nanocrystalline MnFe₂O₄**
ÖZCAN Ş., Akansel S., CEYLAN A.
CERAMICS INTERNATIONAL, vol.39, no.5, pp.5335-5341, 2013 (Journal Indexed in SCI)
- XXXV. **Elbow problems in paraplegic spinal cord injured patients: frequency and related risk factors-a preliminary controlled study**
Erhan B., Gunduz B., Bardak A. N. , Ozcan S., Carli A., Er H., Tekin L., Ozcakar L.
SPINAL CORD, vol.51, no.5, pp.406-408, 2013 (Journal Indexed in SCI)
- XXXVI. **Synthesis of ZnO: Ge nanocomposite thin films by plasma gas condensation**
CEYLAN A., Ali J. M. , ÖZCAN Ş.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.16, no.2, pp.424-428, 2013 (Journal Indexed in SCI)
- XXXVII. **Metal-semiconductor-metal photodetector on as-deposited TiO₂ thin films on sapphire substrate**
Caliskan D., Butun B., ÖZCAN Ş., Ozbay E.
JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B, vol.31, no.2, 2013 (Journal Indexed in SCI)
- XXXVIII. **Solvent free fabrication of nanoporous TiO₂ filters using organic-inorganic nanocomposites**
KAYNAR M. B. , DelPercio R., Yassitepe E., ÖZCAN Ş., Shah S. I.
POWDER TECHNOLOGY, vol.233, pp.331-334, 2013 (Journal Indexed in SCI)
- XXXIX. **Effect of hexane on magnetic blocking behavior of FePt nanoparticles**
ŞİMŞEK T., AKANSEL S., ÖZCAN Ş.

JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.324, no.22, pp.3924-3928, 2012 (Journal Indexed in SCI)

- XL. **Non-equilibrium cation distribution and enhanced spin disorder in hollow CoFe₂O₄ nanoparticles**
Jaffari G. H. , CEYLAN A., Bui H. P. , Beebe T. P. , ÖZCAN Ş., Shah S. I.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.24, no.33, 2012 (Journal Indexed in SCI)
- XLII. **Magnetotransport study on AlInN/(GaN)/AlN/GaN heterostructures**
Bayraklı A., Arslan E., Fırat T., ÖZCAN Ş., Kazar O., Cakmak H., Ozbay E.
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, vol.209, no.6, pp.1119-1123, 2012 (Journal Indexed in SCI)
- XLIII. **Structural, optical and magnetic properties of Zn_{1-x}MnxO micro-rod arrays synthesized by spray pyrolysis method**
YILMAZ Ş., BACAŞIZ E., McGlynn E., POLAT İ., ÖZCAN Ş.
THIN SOLID FILMS, vol.520, no.16, pp.5172-5178, 2012 (Journal Indexed in SCI)
- XLIV. **Effects of Cu diffusion-doping on structural, optical, and magnetic properties of ZnO nanorod arrays grown by vapor phase transport method**
Yılmaz S., McGlynn E., BACAŞIZ E., ÖZCAN Ş., Byrne D., Henry M. O. , Chellappan R. K.
JOURNAL OF APPLIED PHYSICS, vol.111, no.1, 2012 (Journal Indexed in SCI)
- XLV. **Structural, optical and magnetic properties of Cr doped ZnO microrods prepared by spray pyrolysis method**
YILMAZ Ş., PARLAK M., ÖZCAN Ş., Altunbas M., McGlynn E., BACAŞIZ E.
APPLIED SURFACE SCIENCE, vol.257, no.22, pp.9293-9298, 2011 (Journal Indexed in SCI)
- XLVI. **Interparticle interaction effects on magnetic behaviors of hematite (alpha-Fe₂O₃) nanoparticles**
Can M. M. , Fırat T., ÖZCAN Ş.
PHYSICA B-CONDENSED MATTER, vol.406, no.13, pp.2483-2487, 2011 (Journal Indexed in SCI)
- XLVII. **Dominancy of antiferromagnetism in Zn_{1-x}CoxO diluted magnetic semiconductors**
Can M. M. , Fırat T., ÖZCAN Ş.
JOURNAL OF MATERIALS SCIENCE, vol.46, no.6, pp.1830-1838, 2011 (Journal Indexed in SCI)
- XLVIII. **Defect induced ferromagnetism in carbon-doped ZnO thin films**
Akbar S., Hasanain S. K. , Abbas M., ÖZCAN Ş., Ali B., Shah S. I.
SOLID STATE COMMUNICATIONS, vol.151, no.1, pp.17-20, 2011 (Journal Indexed in SCI)
- XLIX. **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)
- L. **Effect of milling time on the synthesis of magnetite nanoparticles by wet milling**
Can M. M. , ÖZCAN Ş., CEYLAN A., Fırat T.
MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, vol.172, no.1, pp.72-75, 2010 (Journal Indexed in SCI)
- L. **Structural, Optic, and Magnetic Investigation of the Synthesized ZnO and Zn_{0.99}Co_{0.010} Semiconductors via Solid State Reaction**
Can M. M. , Fırat T., ÖZCAN Ş.
IEEE TRANSACTIONS ON MAGNETICS, vol.46, no.6, pp.1809-1812, 2010 (Journal Indexed in SCI)
- LI. **Weakly ferromagnetic microspheres bearing paramagnetic CrBO₃ core and nonmagnetic polyvinylbutyral shell**
ÖZTÜRK O. C. , TANYOLAÇ D., ÖZCAN Ş., Zumreoglu-Karan B.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.20, no.12, pp.1096-1101, 2009 (Journal Indexed in SCI)
- LII. **Phylogenetic relationships of some wild wheat species based on the internal transcribed spacer sequences of nrDNA**
Gulbitti-Onarici S., Sancak C., Sumer S., Ozcan S.
CURRENT SCIENCE, vol.96, no.6, pp.794-800, 2009 (Journal Indexed in SCI)
- LIII. **Preparation and Characterization of Novel Wood Nanocomposites**
İDE S., Soylu E. H. , Rodoplu D., Kucukyildiz S., Sen G., Aslan S., ÖZCAN Ş., Can M. M.

ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.65, 2009 (Journal Indexed in SCI)

- LIV. **Solid state reaction synthesis of NiFe₂O₄ nanoparticles**
Ceylan A., ÖZCAN Ş., Ni C., Shah S. I.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.320, no.6, pp.857-863, 2008 (Journal Indexed in SCI)
- LV. **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)
- LVI. **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)
- LVII. **Magnetism on the Tb_{1-x}NdxMn₂Si₂ silicides**
Kilic A., Kervan S., Ozcan S., Gencer A.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.288, pp.244-249, 2005 (Journal Indexed in SCI)
- LVIII. **Self-evaluations of tuberculosis patients about their illnesses at Ankara Atatürk Sanatorium Training and Research Hospital, Turkey**
ASLAN D., Altintas H., Emri S., Cesuroglu T., Kotan O., Koyuncu S., Malcok I., Meral A., Ozcan S., Sarinc S.
RESPIRATORY MEDICINE, vol.98, no.7, pp.626-631, 2004 (Journal Indexed in SCI)
- LIX. **Magnetic properties of Pr_{1-x}GdxMn₂Ge₂ compounds**
Kilic A., Kervan S., Ozcan S., Gencer A.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.370, pp.47-52, 2004 (Journal Indexed in SCI)
- LX. **Magnetic phase transitions in LaMn_{2-x}FexSi₂ silicides**
Kervan S., Kilic A., Ozcan S., Gencer A.
SOLID STATE COMMUNICATIONS, vol.130, pp.101-105, 2004 (Journal Indexed in SCI)
- LXI. **In vitro crown galls induced by Agrobacterium tumefaciens strain A281 (pTiBo542) in Trigonella foenum-graecum**
Khawar K., Gulbitti-Onarici S., Cocu S., Erisen S., Sancak C., Ozcan S.
BIOLOGIA PLANTARUM, vol.48, no.3, pp.441-444, 2004 (Journal Indexed in SCI)
- LXII. **Diversity and distribution of entomopathogenic nematodes (Rhabditida : Steinernematidae and Heterorhabditidae) in Turkey**
Hazir S., Keskin N., Stock S., Kaya H., Ozcan S.
BIODIVERSITY AND CONSERVATION, vol.12, no.2, pp.375-386, 2003 (Journal Indexed in SCI)
- LXIII. **CHARACTERIZATION AND MAGNETIC-BEHAVIOR OF COBALT(II) AND GADOLINIUM(III) POLYACRYLATES**
UNALEROGLU C., ZUMREOGLUKARAN B., OZCAN S., FIRAT T.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.56, no.10, pp.1239-1243, 1995 (Journal Indexed in SCI)
- LXIV. **EFFECTS OF THE OXYGEN-UPTAKE ON THE CRYSTAL-STRUCTURE OF 110K BIPBSCACUO SUPERCONDUCTOR**
OZDAS E., OZCAN S., ULKU D., Firat T.
APPLIED SUPERCONDUCTIVITY, vol.1, pp.559-566, 1993 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Band Gap Engineering of ZnO Nanocrystallites Prepared via Ball-Milling**
Şimşek T., Ceylan A., Aşkın G. Ş., Özcan Ş.
Politeknik Dergisi, vol.13, pp.1-7, 2021 (National Refreed University Journal)
- II. **Synthesis and characterization of Mn₂B nanocrystals by mechanical alloying method**
ŞİMŞEK T., ŞİMŞEK T., ÖZCAN Ş.
Journal of Boron, vol.4, no.1, pp.25-30, 2019 (Other Refereed National Journals)

- III. **Investigation Of Machinability Properties Of Laser Treated S355JR Carbon Steel With ZrB2 Nanoparticles**
ŞİMŞEK T., Baris M., ÖZCAN Ş., AKKURT A.
Turkish Journal of Engineering, vol.3, no.2, pp.51-59, 2019 (Other Refereed National Journals)
- IV. **Laser Cladding Of Hot Work Tool Steel (H13) With TIC Nanoparticles**
ŞİMŞEK T., İZCİLER M., ÖZCAN Ş., AKKURT A.
Turkish Journal of Engineering, vol.3, no.1, pp.25-31, 2019 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

- I. **Fabrication of nanoporous TiO₂ filters using organic--inorganic nanocomposites**
Kaynar M. B. , Delpercio R., Yassitepe E., Shah I., Özcan Ş.
APS March Meeting, Maryland, United States Of America, 18 - 22 March 2013, pp.90
- II. **Hydrogenation Behavior and Microstructure Evolution of Intermetallic Mg₂Ni Alloy Produced by Vacuum Arc Melting**
ÖZTÜRK S., SÜNBÜL S. E. , İCİN K., BEYZİT G., ÖZCAN Ş.
4th International Hydrogen Technologies Congress, Edirne, Turkey, 20 - 23 June 2019, pp.172-175
- III. **Characterization of Hydrogen Storable Properties of Mg-Ni Alloy Ribbons Produced by Melt Spinning Method**
ÖZTÜRK S., SÜNBÜL S. E. , İCİN K., BEYZİT G., ÖZCAN Ş.
4th International Hydrogen Technologies Congress, Edirne, Turkey, 20 - 23 June 2019, pp.131-134
- IV. **Investigation of Hydriding and Thermal Properties of Near Eutectic Mg-Ni Alloy Fabricated by Rapid Solidification Process**
ÖZTÜRK S., SÜNBÜL S. E. , İCİN K., BEYZİT G., ÖZCAN Ş.
4th International Hydrogen Technologies Congress, Edirne, Turkey, 20 - 23 June 2019, pp.164-167
- V. **Synthesis and Application of LaB₆ Nano-phase Powders for Strengthening Metal and Ceramic Matrices**
ŞİMŞEK T., CHATTOPADHYAY A. K. , BARIS M., BİLEN M., ÖZCAN Ş.
International Conference on Powder Metallurgy and Particulate Materials-POWDERMET2018, Texas, United States Of America, 17 - 20 June 2018, pp.1-13
- VI. **MnCoB nanoparticles for hyperthermia applications**
ŞİMŞEK T., PIYAN c., ÖZCAN Ş.
12th European Magnetic Sensors and Actuators Conference EMSA 2018, 1 - 04 July 2018
- VII. **Combustion Synthesis, Characterization and Magnetic Properties of Fe_xCr_{2-x}B(PO₄)₃**
ÖZER D., ŞİMŞEK T., ÖZCAN Ş., ALTUNTAS OZTAS N.
6th International Conference on Superconductivity and Magnetism, 1 - 04 May 2018
- VIII. **Investigation of Hydriding Properties of Mg₈₀-Ni₂₀ Alloy Ribbons Produced by Melt Spinning Method**
ÖZTÜRK S., SÜNBÜL S. E. , İCİN K., ÖZTÜRK B., Bayazit G., ÖZCAN Ş.
1st International Symposium on Light Alloys and Composite Materials (ISLAC'18), Karabük, Turkey, 22 - 24 March 2018
- IX. **Production of Rapidly Solidified Mg Based Alloy Ribbons by Melt Spinning Method**
ÖZTÜRK S., SÜNBÜL S. E. , İCİN K., ÖZTÜRK B., Bayazit G., ÖZCAN Ş.
1st International Symposium on Light Alloys and Composite Materials (ISLAC'18), Karabük, Turkey, 22 - 24 March 2018
- X. **Mg₆₀Ni₄₀ ALLOY SYNTHESIS AND INVESTIGATION OF HYDROGEN STORAGE PROPERTIES**
BAYAZİT G., SÜNBÜL S. E. , ÖZTÜRK S., İCİN K., ÖZCAN Ş.
3rd International Hydrogen Technologies Congress (IHTEC2018), Antalya, Turkey, 15 - 18 March 2018
- XI. **The Effects of Temperature and Time on High Vacuum Sulfidation of Sputtered Sn Thin Films on SLG and SLG/Mo Substrates**

ALPDOĞAN S., GÜBÜR H. M. , ÇETİN S. Ş. , ÖZÇELİK S., KOCABAŞ C., ÖZCAN Ş., CEYLAN A.

Nanotr 13, 22 - 25 October 2017

- XII. **The Effect of Temperature and Time on High Vacuum Sulfidation of Sputtered Sn Thin Films on SLG and SLG/Mo Substrates**
ALPDOĞAN S., METİN GÜBÜR H., ÇETİN S. Ş. , ÖZÇELİK S., KOCABAŞ C., ÖZCAN Ş., CEYLAN A.
13 th NanoscienceNanotechnology Conference (NANOTR13), 22 - 25 October 2017
- XIII. **The Effect of Temperature and Time on High Vacuum Sulfidation of Sputtered Sn Thin Films on SLG and SLG/Mo Substrates**
ALPDOĞAN S., METİN GÜBÜR H., ÇETİN S. Ş. , ÖZÇELİK S., KOCABAŞ C., ÖZCAN Ş., CEYLAN A.
13 th NanoscienceNanotechnology Conference (NANOTR13), 22 - 25 October 2017
- XIV. **Structural and Magnetic Properties of Exchange-Coupled MnBi/MnB Nanocomposite Magnets**
ŞİMŞEK T., ÖZCAN Ş.
Moscow International Symposium on Magnetism, 1 - 05 July 2017
- XV. **A Promising Soft Magnet: MnB**
ŞİMŞEK T., ÖZCAN Ş.
APMAS 2017 7th International Advances in Applied Physics and Materials Science Congress Exhibition, 22 - 26 April 2017
- XVI. **Synthesis and characterization of Ge nanoparticles embedded ZnO thin films**
CEYLAN A., ÖZCAN Y., ÖZCAN Ş., İDE S., ÖZBAY E., JENG U., ÖZÇELİK S., SHAH I.
International Workshop on Nanosciences: Education and Its Industrial Applications, Islamabad, Pakistan, 13 - 15 December 2016
- XVII. **Fabrication and Magnetic Properties of Mn₁₀₀ xB₄₅Cux Bulk Alloys**
Yavuz İ., CEYLAN A., KAYNAR M. B. , ŞİMŞEK T., ÖZCAN Ş.
32th Physics Congress Turkish Physics Society, 6 - 09 September 2016
- XVIII. **Synthesis and I V Characterisation of ZnO Nanorods**
DİNÇER S., KAYNAR M. B. , CEYLAN A., ÖZCAN Ş.
32th Physics Congress Turkish Physics Society, 6 - 09 September 2016
- XIX. **Hydrogen storage in magnesium borohydride for renewable energy systems**
BAYAZIT G., ÇORUH O., ÖZCAN Ş.
32th International physics conference, 6 - 09 September 2016
- XX. **Fabrication and Magnetic Properties of Mn₁₀₀ xB₄₅Cux Bulk Alloys**
YAVUZ İ., KAYNAR M. B. , ÜNSAL T., CEYLAN A., ÖZCAN Ş.
32th Physics Congress Turkish Physics Society, 6 - 09 September 2016
- XXI. **ITO silver Nanocompoiste defroster coating for aircrafts**
KAYNAR M. B. , ÖZCAN Ş.
32nd International Physics Congress of the Turkish Physical Society (TPS-32, 6 - 09 September 2016
- XXII. **HYDROGEN STORAGE FOR THE RENEWABLE ENERGY SYSTEMS**
Bayazit G., Yıldız B., KAYNAR M. B. , ÖZCAN Ş.
International Workshop on Special Topicson Polymeric Composites, İstanbul, Turkey, 24 February 2016, pp.20
- XXIII. **Effect of Annealing Time on Structural and Magnetic Properties of Mn₀ 4Co₀ 6Fe₂₀4 Nanostructures synthesized by wet milling**
Oruç E., Buğra Y., Dinçer S., Bayazit G., Yavuz I., Kaynar M. B. , Ceylan A., Özcan Ş.
9th International Physics Conference of the Balkan Physical Union, İstanbul, Turkey, 24 - 27 August 2015
- XXIV. **Synthesis of Mn_xCo₁ xFe₂₀4 Nanoparticles By wet milling**
Oruç E., Buğra Y., Dinçer S., Bayazit G., Yavuz I., Kaynar M. B. , Ceylan A., Özcan Ş.
9th International Physics Conference of the Balkan Physical Union, İstanbul, Turkey, 24 - 27 August 2015
- XXV. **Effect of Nichel Addition on Hydrogen Generation Rate of Water Spliting Reaction Induced by Wet milling Method**
Oruç E., Buğra Y., Dinçer S., Bayazit G., Yavuz I., Kaynar M. B. , Ceylan A., Özcan Ş.
9th International Physics Conference of the Balkan Physical Union, İstanbul, Turkey, 24 - 27 August 2015
- XXVI. **Magnetic Properties of Neodymium and Gadolinium Doped Barium Ferrite Nanostructures**

- Kaynar M. B. , Özcan Ş., S Ismat S.
9th International Physics Conference of the Balkan Physical Union 2015, İstanbul, Turkey, 24 - 27 August 2015
- XXVII. **Nd ve Gd doped barium ferrite nanostructure with high magnetic coersivity for microwave absorption enhancement**
KAYNAR M. B. , ÖZCAN Ş.
9th International Conference on Magnetic and Superconducting Materials (MSM15), 30 April - 03 May 2015
- XXVIII. **Magnetic properties of Fe doped ZnO nanoparticles synthesis by using wet milling methods**
Özdemir C., Piyan Ç., Deveci M., Kaynar M. B. , Özcan Ş.
International Conference on Magnetic and Superconducting Materials, Antalya, Turkey, 30 April - 03 May 2015
- XXIX. **Nd and Gd doped barium ferrite nanostructures with high magnetic coercivity for microwave absorption enhancement**
Kaynar M. B. , Özcan Ş.
International Conference on Magnetic and Superconducting Materials, Antalya, Turkey, 30 April - 03 May 2015
- XXX. **Magnetic properties of magnesium ferrite nanostructures that was synthesized by wet milling method**
GÜMRÜKÇÜ A. E. , DEVECİ M., CEYLAN A., ÖZCAN Ş.
9th International Conference on Magnetic and Superconducting Materials, 30 April - 03 May 2015
- XXXI. **Magnetic Properties of Fe doped Zno nanoparticles Synthesis by using Wet Milling Method**
ceyda ö., piyan ç., mustafa d., KAYNAR M. B. , ÖZCAN Ş.
9 th international Conferance on Magnetic and Spercondcuting Materials, 30 April - 03 May 2015
- XXXII. **Microwave absorpction properties of BaGdxFe12-xO19 nanoparticles synthesized by wet milling process**
KAYNAR M. B. , ÖZCAN Ş., Shah I.
APS March Meeting, Baltimore, United States Of America, 20 March 2013, pp.90
- XXXIII. **A comparative study of nanosized magnetite (Fe3O4), maghemite (γ-Fe2O3) and hematite (α-Fe2O3) particles**
CAN M. M. , COŞKUN M., FIRAT t., ÖZCAN Ş., korkmaz m.
NANOMAT 2006 International Workshop on Nanostructured Materials, 21 - 23 June 2006
- XXXIV. **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

ŞİMŞEK T., ÖZCAN Ş., KAYNAR M. B. , Project Supported by Higher Education Institutions, Islak Öğütme Tekniği ile Mangan Çinko Spinel Ferit Nanoparçacıkların Üretilmesi, 2018 - 2019

ŞİMŞEK T., ÖZCAN Ş., Project Supported by Higher Education Institutions, DEĞİŞTOKUŞ ETKİLEŞİMİ ÇİFTLENİMLİ MnBiMnB NANOKOMPOZİT MIKNATISLARIN YAPISAL VE MANYETİK ÖZELLİKLERİ, 2017 - 2017

CEYLAN A., ÖZCAN Ş., Project Supported by Higher Education Institutions, SnS incefilmlerin rf magnetron sputter tekniği ve vakumda sülfürleme yöntemleri ile sentezlenmesi ve fiziksel özelliklerinin belirlenmesi, 2016 - 2017

ŞİMŞEK T., ÖZCAN Ş., Project Supported by Higher Education Institutions, Değiştokuş etkileşimli MnB/CoPt nanokompozitlerin üretilmesi, 2016 - 2017

YILDIRIM L., CEYLAN A., ÖZCAN Ş., Project Supported by Higher Education Institutions, Fizik Mühendisliği Bölümü Servis Laboratuvarı Deney Düzeneklerinin Yenilenmesi, 2015 - 2017

ÖZCAN Ş., Project Supported by Higher Education Institutions, MRS Kongresine Katılım, 2015 - 2016

ÖZCAN Ş., Project Supported by Higher Education Institutions, Süperiletkenlik ve Nanoteknoloji Grubu Yazılım Geliştirme Olanaklarının İyileştirilmesi, 2015 - 2016

ÖZCAN Ş., Project Supported by Higher Education Institutions, Yüksek Basınç Altında fct Fazında FePt Nanoparçacıklarının Üretimi, 2014 - 2016

ÖZCAN Ş., TUBITAK Project, Mnb Nanoparçacıklarının Sentezi Manyetik Özellikleri Ve Uygulama Alanlarının Araştırılması, 2013 - 2016

KAYNAR M. B. , ÖZCAN Ş., Project Supported by Higher Education Institutions, Baryum-ferrit nanoyapılarda Mikrodalga Özelliklerinin Nd ve Gd katkılımayla Arttırılması, 2015 - 2015

ÖZCAN Ş., ŞİMŞEK T., Project Supported by Higher Education Institutions, Değiş-Tokuş Etkileşimi Çiftlenimli Nanomıknatısların Manyetik Özelliklerinin İncelenmesi, 2015 - 2015

Citations

Total Citations (WOS):699

h-index (WOS):15