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International Researcher IDs

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Education Information

Doctorate, University of Cambridge, Materials Science & Metallurgy, United Kingdom 1973 - 1978

Undergraduate, Istanbul Technical University, Kimya-Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, Turkey 1969 - 1973

Dissertations

Doctorate, Development of Recrystallization textures in F.C.C. Metals and Alloys, University Of Cambridge, Materials Science & Metallurgy, 1978

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, 1991 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 1985 - 1991

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 1983 - 1985

Lecturer, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 1981 - 1983

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 1980 - 1981

Expert, Sheffield University, Department Of Metallurgy, 1978 - 1979

Academic and Administrative Experience

Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 2004 - 2012

Middle East Technical University, Graduate School of Natural and Applied Sciences, 1996 - 2003

Supervised Theses

- ÖZTÜRK T., Processing optimization of SiO₂-capped aluminum-doped ZnO and amorphous in-Zn-Sn-oxide thin films for transparent heater and near-infrared reflecting applications, Postgraduate, H.AYBİKE(Student), 2022
- ÖZTÜRK T., Development of hydrogen separation membrane in paladyum based ternary systems, Postgraduate, M.MERT(Student), 2022
- ÖZTÜRK T., Combinatorial development of LSF-based cathode materials for intermediate temperature solid oxide fuel cells, Postgraduate, F.KILIÇ(Student), 2021
- ÖZTÜRK T., Thermal plasma synthesis of LSC-113/LSC-214 composite cathode for IT-SOFCs, Postgraduate, H.Eda(Student), 2019
- Öztürk T., Thermal plasma synthesis of boron carbide, Postgraduate, S.ALTINOK(Student), 2018
- Öztürk T., A combinatorial study on hydrogen separation membranes, Doctorate, F.PİŞKİN(Student), 2018
- Öztürk T., Carbon encapsulation of elemental nanoparticles, Postgraduate, P.LİVAN(Student), 2018
- KALAY Y. E., ÖZTÜRK T., Utilization of (La,Sr)CoO₃/(La,Sr)₂CoO₄ heterostructures as cathode for it-SOFCs, Postgraduate, Z.ÇAĞRI(Student), 2017
- ÖZTÜRK T., KALAY Y. E., Utilization of (La_{1-x}Sr_x)CoO_{3-δ}/(La_{1-y}Sr_y)₂CoO_{4±δ} heterostructures as cathode for it-SOFCs, Postgraduate, Z.Çağrı(Student), 2017
- ÖZTÜRK T., Development of magnesium based negative electrode materials for nickel metal hydride batteries, Postgraduate, C.EYÖVGE(Student), 2017
- KALAY Y. E., ÖZTÜRK T., Combinatorial development of LSC-113/LSC-214 cathode materials for intermediate temperature solid oxide fuel cells, Postgraduate, D.SARI(Student), 2017
- ÖZTÜRK T., Design and construction of a coating reactor for R. F. thermal plasma system, Postgraduate, H.GÖZDE(Student), 2017
- ÖZTÜRK T., Development of rare earth-free negative electrode materials for NiMH batteries, Postgraduate, E.ONUR(Student), 2016
- ÖZTÜRK T., Deposition and testing of thin film hydrogen separation membranes, Postgraduate, F.PİŞKİN(Student), 2013
- ÖZTÜRK T., Hydrogen decrepitation of magnesium-rich intermetallics, Postgraduate, A.AYDINLI(Student), 2013
- ÖZTÜRK T., Induction plasma synthesis of Mg-Ni nanoparticles, Postgraduate, B.AKTEKİN(Student), 2013
- ÖZTÜRK T., Thickness effects in hydrogen sorption of magnesium/palladium thin films, Postgraduate, A.GHAREMESHG(Student), 2012
- ÖZTÜRK T., Direct synthesis of hydrogen storage alloys from their oxides, Doctorate, S.TAN(Student), 2011
- ÖZTÜRK T., The processing of Mg-Ti powder for hydrogen storage, Doctorate, G.ÇAKMAK(Student), 2011
- ÖZTÜRK T., Hydrogen storage in magnesium based thin films, Doctorate, H.AKYILDIZ(Student), 2010
- ÖZTÜRK T., SEVİNÇ N., Production of high carbon ferromanganese from a manganese ore located in Erzincan, Postgraduate, İ.SEÇKİN(Student), 2010
- ÖZTÜRK T., Design of a high temperature erosion apparatus for testing of boiler tubes, Postgraduate, H.ERGÜN(Student), 2010
- ÖZTÜRK T., Combinatorial study of hydrogen storage alloys, Postgraduate, R.ÖLMEZ(Student), 2009
- ÖZTÜRK T., Isochronal hydrogenation of textured magnesium/palladium thin films, Postgraduate, Ç.ÖZGİT(Student), 2009
- KARAKAYA İ., ÖZTÜRK T., Ferroboration production by electrodeoxidation, Postgraduate, T.ÖRS(Student), 2008
- ÖZTÜRK T., Effect of ecap and subsequent heat treatments on microstructure and mechanical properties of 2024 aluminum alloy, Postgraduate, E.SARALOĞLU(Student), 2008
- ÖZTÜRK T., Effect of TiH₂ particle size on foaming of aluminium, Postgraduate, C.KUBİLAY(Student), 2005
- ÖZTÜRK T., Investigation of fracture behavior of steel/steel laminates, Doctorate, M.ŞİMŞİR(Student), 2004
- ÖZTÜRK T., Optimization of macrostructure in aluminium foams, Postgraduate, S.TAN(Student), 2003

ÖZTÜRK T., Effects of additives on mechanical milling and hydrogenation of magnesium powders, Postgraduate, M.GÜVENDİREN(Student), 2003

ÖZTÜRK T., Mechanical milling of magnesium powders and measurement of their hydrogen sorption characteristics, Postgraduate, E.BAYBÖRÜ(Student), 2001

ÖZTÜRK T., Control of macrostructure in metal-metal composites: A finite element study, Postgraduate, Ö.Yazar(Student), 1999

ÖZTÜRK T., Control of microstructure in metal composites, a finite element study, Postgraduate, Ö.YAZAR(Student), 1999

ÖZTÜRK T., Effects of process variables on the mold filling time in resin transfer molding, Postgraduate, A.Ertekin(Student), 1998

ÖZTÜRK T., Production of Al-Cu metallic foam, Postgraduate, S.KARAKUŞ(Student), 1998

ÖZTÜRK T., Effect of process variables on the mold filling time in resin transfer molding, Postgraduate, A.ERTEKİN(Student), 1998

ÖZTÜRK T., Production of intermetallic reinforced metal matrix composites via in-situ reactions, Postgraduate, K.ÖNAL(Student), 1998

ÖZTÜRK T., Deformation behaviour of metal-metal laminates; A FEM study, Postgraduate, O.ERCAN(Student), 1997

ÖZTÜRK T., Deformation behaviour of metal-metal laminates: a fem study, Postgraduate, O.Ercan(Student), 1997

ÖZTÜRK T., Axisymmetric deformation of steel wire reinforced aluminium, Postgraduate, B.Toklutepe(Student), 1996

ÖZTÜRK T., Finite element modelling and measurement of stress evolution in quenching processes, Doctorate, C.HAKAN(Student), 1995

ÖZTÜRK T., Production and microstructure characterization of silicon carbide particulate reinforced aluminum-copper alloy matrix composites by squeeze casting method, Postgraduate, A.ONAT(Student), 1995

ÖZTÜRK T., Finite element modeling and measurement of stress evolution in quenching processes, Doctorate, C.Hakan(Student), 1995

ÖZTÜRK T., Factors affecting macrostructural evolution in Al-based metal/metal laminates, Postgraduate, E.SOYDANR(Student), 1995

ÖZTÜRK T., Strain partitioning and plastic flow in some metal/ metal laminates, Postgraduate, S.MİRMEŞDAGH(Student), 1993

ÖZTÜRK T., A study of damage accumulation by relative density change, Postgraduate, A.Melih(Student), 1989

ÖZTÜRK T., Inclusions in cast, homogenized and extruded Al-21 aluminum alloy, Postgraduate, Z.FİLİZ(Student), 1988

ÖZTÜRK T., Void initiation in spheroidized 1035 steel, Postgraduate, A.BİLİCİ(Student), 1988

ÖZTÜRK T., Inclusions in cast, homogenized and extruded Al-21 aluminum alloy, Postgraduate, Z.Filiz(Student), 1988

ÖZTÜRK T., High temperature torsion testing, Postgraduate, M.TANSAL(Student), 1988

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Modeling and design for metal hydride-based hydrogen storage systems in underwater PEMFC applications**
Sezgin B., ÖZTÜRK T., Eroglu I.
MATERIALS RESEARCH BULLETIN, vol.182, 2025 (SCI-Expanded)
- II. **Doped NaMnO_x cathodes for Zn-MnO₂ batteries for improved capacity and rechargeability**
Akbas Y., Daricioğlu N. O., ÖZTÜRK T.
MATERIALS RESEARCH BULLETIN, vol.182, 2025 (SCI-Expanded)
- III. **Oxide coated nickel powder as support for platinum(0) nanoparticles: Magnetically separable catalysts for hydrogen generation from the hydrolysis of ammonia borane**
Akbarak S., Çakmak G., ÖZTÜRK T., ÖZKAR S.
Journal of Alloys and Compounds, vol.1002, 2024 (SCI-Expanded)
- IV. **Search for carbon additives in Co-free Ni(OH)₂ cathodes for NiMH batteries**
DARICIOĞLU N. Ö., ÖZTÜRK T.
Journal of Energy Storage, vol.90, 2024 (SCI-Expanded)
- V. **Guest Editorial on Hydrogen separation and storage and power to gas options (WHEC-2022)**

ÖZTÜRK T., Iulianelli A., Nastasi B.

International Journal of Hydrogen Energy, vol.51, pp.209, 2024 (SCI-Expanded)

- VI. **Thermal plasma synthesis of (La,Sr)CoO₃-(La,Sr)₂CoO₄ composite cathodes for intermediate temperature solid oxide fuel cells (IT-SOFC)**
Aysal H. E., Kılıç F., Çakmak G., ÖZTÜRK T.
International Journal of Hydrogen Energy, vol.51, pp.1477-1486, 2024 (SCI-Expanded)
- VII. **Editorial: Advanced diagnosis and early warning strategies on degradation and safety of lithium-ion batteries**
AYDINOL M. K., Ulgut B., Oh K., ÖZTÜRK T.
Frontiers in Energy Research, vol.12, 2024 (SCI-Expanded)
- VIII. **Effect of deposition parameters on optical and electrical properties of ZnO-In₂O₃-SnO₂ thin films**
Can H. A., ÖZTÜRK T., Akyıldız H.
Materials Chemistry and Physics, vol.296, 2023 (SCI-Expanded)
- IX. **Guest editorial for "Energy storage and conversion: Materials to applications"**
Aliyev A., ÖZTÜRK T.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, pp.21660-0, 2022 (SCI-Expanded)
- X. **Development of MnO₂ Based Cathodes for Alkaline Batteries via Combinatorial Approach**
Daricioglu N. O., Akbas Y., ÖZTÜRK T.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.169, no.12, 2022 (SCI-Expanded)
- XI. **A novel air-stable O₃-type layered oxide cathode material with low Ni content for sodium-ion batteries**
PATAT Ş., Şahin A., Taş Y., Şanlı F., Yılmaz Y., ÖZTÜRK T.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.15, pp.22025-22037, 2022 (SCI-Expanded)
- XII. **A combinatorial study on ZnO-In₂O₃-SnO₂ system: The effects of different postgrowth annealing conditions on optical and electrical properties**
Can H. A., ÖZTÜRK T., AKYILDIZ H.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.924, 2022 (SCI-Expanded)
- XIII. **Hydrogen energy systems for underwater applications**
Sezgin B., Devrim Y., ÖZTÜRK T., Eroglu I.
International Journal of Hydrogen Energy, vol.47, no.45, pp.19780-19796, 2022 (SCI-Expanded)
- XIV. **Solution processed glass/fluorine-doped tin oxide/aluminum-doped zinc oxide double layer thin films for transparent heater and near-infrared reflecting applications**
Tonbul B., CAN H., ÖZTÜRK T., AKYILDIZ H.
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.99, no.3, pp.482-496, 2021 (SCI-Expanded)
- XV. **Solution processed aluminum-doped ZnO thin films for transparent heater applications**
Tonbul B., CAN H., ÖZTÜRK T., AKYILDIZ H.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.127, 2021 (SCI-Expanded)
- XVI. **Editorial - mESC-IS2019**
Öztürk T.
International Journal of Hydrogen Energy, vol.46, no.25, pp.13523, 2021 (SCI-Expanded)
- XVII. **Rhodium(0), Ruthenium(0) and Palladium(0) nanoparticles supported on carbon-coated iron: Magnetically isolable and reusable catalysts for hydrolytic dehydrogenation of ammonia borane**
Akbayrak S., ÇAKMAK G., ÖZTÜRK T., ÖZKAR S.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.25, pp.13548-13560, 2021 (SCI-Expanded)
- XVIII. **Processing optimization of SiO₂-capped aluminum-doped ZnO thin films for transparent heater and near-infrared reflecting applications**
Can H. A., Tonbul B., PİŞKİN F., ÖZTÜRK T., AKYILDIZ H.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.4, pp.5116-5137, 2021 (SCI-Expanded)
- XIX. **Continuous synthesis of graphite with tunable interlayer distance**

- ÇAKMAK G., ÖZTÜRK T.
DIAMOND AND RELATED MATERIALS, vol.96, pp.134-139, 2019 (SCI-Expanded)
- XX. **Nb-Pd-Ti BCC thin films for hydrogen separation**
Piskin F., ÖZTÜRK T.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.775, pp.411-418, 2019 (SCI-Expanded)
- XXI. **Segregation resistant nanocrystalline/amorphous (La, Sr) CoO₃-(La,Sr)₂CoO₄ composite cathodes for IT-SOFCs**
Sari D., Yaşar B., Pişkin F., KALAY Y. E., ÖZTÜRK T.
Journal of the Electrochemical Society, vol.166, no.15, 2019 (SCI-Expanded)
- XXII. **Combinatorial development of nanocrystalline/amorphous (La,Sr)CoO₃-(La,Sr)₂CoO₄ composite cathodes for IT-SOFCs**
Sari D., Piskin F., Torunoglu Z. C., Yasar B., Kalay Y. E., Öztürk T.
Solid State Ionics, vol.326, pp.124-130, 2018 (SCI-Expanded)
- XXIII. **One pot synthesis of (La,Sr)CoO₃/(La,Sr)₂CoO₄ for IT-SOFCs cathodes**
Torunoglu Z. Ç., Sari D., Demircan O., Kalay Y. E., Öztürk T., Kuru Y.
International Journal of Hydrogen Energy, vol.43, pp.18642-18649, 2018 (SCI-Expanded)
- XXIV. **Preface: 2nd International Symposium on Materials for Energy Storage and Conversion (mESC-IS2017)**
Öztürk T.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, pp.18545-18548, 2018 (SCI-Expanded)
- XXV. **Carbon encapsulation of elemental nanoparticles by spark discharge**
Livan P., Öztürk T.
JOURNAL OF MATERIALS SCIENCE, vol.53, pp.14350-14360, 2018 (SCI-Expanded)
- XXVI. **Nafion Coated Mg₅₀Ni₅₀ and (La,Mg)₂Ni₇ Negative Electrodes for NiMH Batteries**
Eyovge C., Öztürk T.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.165, 2018 (SCI-Expanded)
- XXVII. **Preparation of La_{0.8}Sr_{0.2}CoO_{3-delta} sputtering targets using a deformable compaction die**
Sari D., TORUNOGLU Z. C., KALAY Y. E., Ozturk T.
CERAMICS INTERNATIONAL, vol.43, no.17, pp.15185-15188, 2017 (SCI-Expanded)
- XXVIII. **Carbon coating of magnesium particles**
Aktekin B., Eyovge C., ÖZTÜRK T.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.720, pp.17-21, 2017 (SCI-Expanded)
- XXIX. **Combinatorial screening of Pd-Ag-Ni membranes for hydrogen separation**
PIŞKİN F., ÖZTÜRK T.
JOURNAL OF MEMBRANE SCIENCE, vol.524, pp.631-636, 2017 (SCI-Expanded)
- XXX. **Synthesis of AlNiCo core/shell nanopowders**
Genc A. M., Akdeniz M. V., Öztürk T., Kalay Y. E.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.417, pp.112-116, 2016 (SCI-Expanded)
- XXXI. **Preface to the special issue on "1st International Symposium on Materials for Energy Storage and Conversion ((ESC)-E-m-IS 2015)"**
ÖZTÜRK T., Eroglu I., AYDINOL M. K.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.23, pp.9719-9722, 2016 (SCI-Expanded)
- XXXII. **Activation behavior of an AB(2) type metal hydride alloy for NiMH batteries**
Tan S., Shen Y., Sahin E. O., Noreus D., ÖZTÜRK T.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.23, pp.9948-9953, 2016 (SCI-Expanded)
- XXXIII. **Size reduction in Mg rich intermetallics via hydrogen decrepitation**
AYDINLI A., Aktekin B., ÖZTÜRK T.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.645, 2015 (SCI-Expanded)
- XXXIV. **Ti modified Pd-Ag membranes for hydrogen separation**
Piskin F., Akyildiz H., ÖZTÜRK T.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.24, pp.7553-7558, 2015 (SCI-Expanded)

- XXXV. **Induction thermal plasma synthesis of Mg₂Ni nanoparticles**
Aktelin B., ÇAKMAK G., ÖZTÜRK T.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.39, no.18, pp.9859-9864, 2014 (SCI-Expanded)
- XXXVI. **Thickness effects in hydrogen sorption of Mg/Pd thin films**
Gharavi A. G., Akyildiz H., ÖZTÜRK T.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.580, 2013 (SCI-Expanded)
- XXXVII. **Milling of magnesium powders without additives**
ÇAKMAK G., ÖZTÜRK T.
POWDER TECHNOLOGY, vol.237, pp.484-488, 2013 (SCI-Expanded)
- XXXVIII. **ECAP processing and mechanical milling of Mg and Mg-Ti powders: a comparative study**
Cakmak G., Öztürk T.
JOURNAL OF MATERIALS SCIENCE, vol.46, pp.5559-5567, 2011 (SCI-Expanded)
- XXXIX. **Combinatorial search for hydrogen storage alloys: Mg-Ni and Mg-Ni-Ti**
Olmez R., Cakmak G., ÖZTÜRK T.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.35, no.21, pp.11957-11965, 2010 (SCI-Expanded)
- XL. **The processing of Mg-Ti for hydrogen storage; mechanical milling and plasma synthesis**
Cakmak G., Karoly Z., Mohai I., ÖZTÜRK T., Szepvolgyi J.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.35, no.19, pp.10412-10418, 2010 (SCI-Expanded)
- XLI. **Direct synthesis of Mg-Ni compounds from their oxides**
Tan S., Aydinol K., ÖZTÜRK T., KARAKAYA İ.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.504, no.1, pp.134-140, 2010 (SCI-Expanded)
- XLII. **Isochronal hydrogenation of textured Mg/Pd thin films**
Ozgit C., Akyildiz H., ÖZTÜRK T.
THIN SOLID FILMS, vol.518, no.17, pp.4762-4767, 2010 (SCI-Expanded)
- XLIII. **Hydrogen sorption in crystalline and amorphous Mg-Cu thin films**
Akyildiz H., ÖZTÜRK T.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.492, pp.745-750, 2010 (SCI-Expanded)
- XLIV. **Synthesis of Fe-4.6 wt% B alloy via electro-deoxidation of mixed oxides**
Ors T., Tan S., ÖZTÜRK T., KARAKAYA İ.
JOURNAL OF MATERIALS SCIENCE, vol.44, no.13, pp.3514-3519, 2009 (SCI-Expanded)
- XLV. **Synthesis of FeTi from mixed oxide precursors**
Tan S., Oers T., AYDINOL M. K., ÖZTÜRK T., KARAKAYA İ.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.475, pp.368-372, 2009 (SCI-Expanded)
- XLVI. **Hydrogen absorption in magnesium based crystalline thin films**
Akyildiz H., Ozenbas M., Ozturk T.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.31, no.10, pp.1379-1383, 2006 (SCI-Expanded)
- XLVII. **Control of macrostructure in deformation processing of metal/metal laminates**
Yazar O., Ediz T., Ozturk T.
ACTA MATERIALIA, vol.53, pp.375-381, 2005 (SCI-Expanded)
- XLVIII. **Effects of additives on mechanical milling and hydrogenation of magnesium powders**
Guvendiren M., Bayboru E., Ozturk T.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.29, pp.491-496, 2004 (SCI-Expanded)
- XLIX. **STRAIN PARTITIONING AND PLASTIC-FLOW IN SOME METAL-METAL LAMINATES**
OZTURK T., MIRMESDAGH J., EDIZ T.
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.175, pp.125-129, 1994 (SCI-Expanded)

Articles Published in Other Journals

- I. **Design of a high temperature erosion apparatus for testing of boiler tubes**

Refereed Congress / Symposium Publications in Proceedings

- I. **Plasma Synthesis of AlNiCo Core/Shell Nanopowders**
Genç A. M., Öztürk T., Kalay Y. E.
2018 MRS Fall Meeting, Massachusetts, United States Of America, 25 - 30 November 2018, vol.1, no.1
- II. **Surface Modified Metal Hydrides as Negative Electrodes in NiMH Batteries**
Eyövge C., Şahin E. O., Öztürk T.
16th International Symposium on Metal-Hydrogen Systems, Guangzhou, China, 28 October - 02 November 2018, vol.1, no.1
- III. **Nanoporous Copper via Chemical Dealloying of Brass**
Ercan M., Pişkin F., Öztürk T.
19th International Metallurgy and Materials Congress, İstanbul, Turkey, 25 - 27 October 2018, vol.1, no.1, pp.578-580
- IV. **Synthesis of Dual Oxide Cathode for IT-SOFCs via Thermal Plasma**
Aysal H. E., Sarı D., Pişkin F., Öztürk T.
19th International Metallurgy and Materials , İstanbul, Turkey, 25 - 27 October 2018, vol.1, no.1, pp.940-943
- V. **Surface Modified Metal Hydrides as Negative Electrodes for NiMH Batteries**
Eyövge C., Şahin E. O., Öztürk T.
e-MRS Fall Meeting 2018, Warszawa, Poland, 17 - 20 September 2018
- VI. **SYNTHESIS OF DUAL PHASE CATHODE FOR IT SOFCs VIA THERMAL PLASMA**
Aysal H. E., Sarı D., Pişkin F., Öztürk T.
3rd International Symposium on Materials for Energy Storage and Conversion, Belgrade, Serbia And Montenegro, 10 - 12 September 2018, vol.1, no.1, pp.53
- VII. **Supercapacitor electrodes with graphene synthesized via induction couple plasma**
Aydınlı A., Çakmak G., Öztürk T., Ünal H. E.
3rd International Symposium on Materials for Energy Storage and Conversion, Belgrade, Serbia And Montenegro, 10 - 12 September 2018, pp.52
- VIII. **Carbon encapsulation of elemental particles for energy storage**
Livan P., Aydinol M. K., Öztürk T.
3rd International Symposium on Materials for Energy Storage and Conversion , Belgrade, Serbia And Montenegro, 10 - 12 September 2018, vol.1, no.1, pp.69
- IX. **Carbon Coating of magnesium via thermal plasma**
Aktekin B., Eyövge C., Öztürk T.
ITSC 2018 International Thermal Spray Conference 2018, Florida, United States Of America, 7 - 10 May 2018, vol.1, no.1
- X. **Prospects of Large Scale Energy Storage in Turkey- Pumped Hydro and Electrochemical Energy Storage**
ÖZTÜRK T., AYDIN İ., AYDINOL M. K., PATAT Ş.
14TH INTERNATIONAL CONFERENCE ON ENERGY STORAGE, 25 - 28 April 2018
- XI. **Design of Thin Film Membranes for Intermediate-Temperature Hydrogen Separation**
Pişkin F., Öztürk T.
3 rd International Hydrogen Technologies Congress, Antalya, Turkey, 15 - 18 March 2018, vol.1, no.1, pp.100
- XII. **Optimizing the ORR Activity in Hetero-Structured LSC-113 and LSC-214 Perovskites via Combinatorial Approach**
SARI D., Torunoğlu Z. Ç., KALAY Y. E., ÖZTÜRK T.
2017 Materials Research Society (MRS) Fall Meeting, 26 November - 01 December 2017
- XIII. **Carbon Encapsulation and Encapsulated Si Particles for Energy Storage**

- Livan P., Miser B., Eyövge c., AYDINOL M. K., ÖZTÜRK T.
2nd International Symposium on Materials for Energy Storage and Conversion, 26 - 28 September 2017
- XIV. **Effect of Different Binders on Cyclic Performance of Si/C Anodes for Secondary Lithium-Ion Batteries**
Miser B., Livan P., Altınok S., Eyövge c., ÖZTÜRK T., AYDINOL M. K.
2nd International Symposium on Materials for Energy Storage and Conversion, 26 - 28 September 2017
- XV. **Combinatorial Development of Thin Film $\text{La}_{0.8}\text{Sr}_{0.2}\text{CoO}_{3-\delta}$ / $(\text{La}_{0.5}\text{Sr}_{0.5})_2\text{CoO}_4$ Cathode Materials for Intermediate Temperature Solid Oxide Fuel Cells**
SARI D., Torunoğlu Z. Ç., KALAY Y. E., ÖZTÜRK T.
2nd International Symposium on Materials for Energy Storage and Conversion, 26 - 28 September 2017
- XVI. **Preparation of $\text{La}_{0.8}\text{Sr}_{0.2}\text{CoO}_{3-\delta}$ / $(\text{La}_{0.5}\text{Sr}_{0.5})_2\text{CoO}_4$ Sputtering Targets Using Deformable Compaction Die**
SARI D., Torunoğlu Z. Ç., KALAY Y. E., ÖZTÜRK T.
2nd International Symposium on Materials for Energy Storage and Conversion, 26 - 28 September 2017
- XVII. **One pot Pechini synthesis of $(\text{La},\text{Sr})\text{CoO}_3/(\text{La},\text{Sr})_2\text{CoO}_4$ for Cathodes of ITSOFCs**
Torunoğlu Z. Ç., SARI D., DEMİRCAN O., KALAY Y. E., ÖZTÜRK T., KURU Y.
2nd International Symposium on Materials for Energy Storage and Conversion, 26 - 28 September 2017
- XVIII. **Characterization of cation segregation in $\text{La}_{0.8}\text{Sr}_{0.2}\text{CoO}_{3-\delta}$ / $(\text{La}_{0.5}\text{Sr}_{0.5})_2\text{CoO}_4$ heterostructure**
YAŞAR B., SARI D., KALAY Y. E., ÖZTÜRK T.
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- XIX. **Carbon Encapsulated Silicon Nanoparticles as Anodes for Lithium Ion Batteries**
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- XX. **Structural Characterization of $\text{La}_x\text{Sr}_{1-x}\text{CoO}_3$ (LSC 113) / $(\text{La}_x\text{Sr}_{1-x})_2\text{CoO}_4$ (LSC 214) Hetero-Interface Cathode for Intermediate Temperature Solid Oxide Fuel Cells**
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- XXI. **Synthesis of AlNiCo Core Shell Nanopowders by Hydrogen Plasma Reaction**
GENÇ A. M., AKDENİZ M. V., ÖZTÜRK T., KALAY Y. E.
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- XXII. **The Surface and Bulk Kinetics of Oxygen Transport in Solid Oxide Fuel Cell Cathodes**
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- XXIII. **Combinatorial Development of Metal Hydrides for Thermal Coupling of Solid Oxide Fuel Cells**
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- XXV. **Hydrogen decrepitation of Mg rich Intermetallics**
AYDINLI A., AKTEKİN B., ÖZTÜRK T.
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- XXVI. **Hydrogen Decrepitation of Mg_2Ni and $\text{TiMn}_{1.6}\text{Ni}_{0.4}$**
AYDINLI A., ÖZTÜRK T.
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- XXVII. **Production of Hydrogen Storage Alloys via Decrepitation Treatment**
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Supported Projects

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- ÖZTÜRK T., ALTINOK S., Project Supported by Higher Education Institutions, B4C un termal plazma yöntemi ile sentezlenmesi, 2016 - 2019
- ÖZTÜRK T., Project Supported by Higher Education Institutions, NiMH Bataryalar için Pozitif Elektrod Malzemesinin Geliştirilmesi, 2017 - 2017
- ÖZTÜRK T., SARI D., LİVAN P., Project Supported by Higher Education Institutions, İnce Film-Katı Oksit Yakıt Pillerinde Performans Optimizasyonu, 2017 - 2017
- ÖZTÜRK T., YILDIRIM H. G., Project Supported by Higher Education Institutions, Ti esash İmplantların Termal Plazma ile Hidroksiapatit Kaplanması, 2016 - 2016
- ÖZTÜRK T., YILDIRIM H. G., Project Supported by Higher Education Institutions, Ti esash İmplantların Termal Plazma ile Hidroksiapatit Kaplanması, 2016 - 2016
- ÖZTÜRK T., PİŞKİN F., Project Supported by Higher Education Institutions, NiMH Pilleri İçin Enkapsüle Edilmiş Magnezyum Esash Malzemelerin Geliştirilmesi, 2015 - 2016
- ÖZTÜRK T., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016
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- ÖZTÜRK T., Güven G., Akpınar B., Onur E., Project Supported by Higher Education Institutions, Demir Oksit Nanoparçacıkların Üretimi ve Hipertermi amaçlı Kullanımı, 2014 - 2015
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- ÖZTÜRK T., AÇAN M. B., Project Supported by Higher Education Institutions, ETKİN HİDROJEN DEPOLAMA İÇİN KABUKLU NANOPARÇACIKLARIN ÜRETİMİ, 2013 - 2013
- ÖZTÜRK T., Project Supported by Higher Education Institutions, Gözenek Kontrollü Paslanmaz Çelik Filtrelerin Hidrojen Filtrasyonu İçin Geliştirilmesi, 2011 - 2013
- ÖZTÜRK T., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Güneş Enerjisi Araştırma Merkezi (GÜNAM) - Enerji Malzemeleri İş Paketi, 2009 - 2010
- ÖZTÜRK T., Project Supported by Higher Education Institutions, Boyut Değiştirmeksizin Yoğrunma İle Dayanç Değişiminin İncelenmesi, 2009 - 2009
- ÖZTÜRK T., Project Supported by Higher Education Institutions, Bakır Esash Nokta Kaynağı Elektrodlarının Şekil Değiştirmeksizin Yoğrunma Yöntemi İle Üretimi, 2009 - 2009

Activities in Scientific Journals

International Journal Of Hydrogen Energy, Special Issue Editor, 2017 - 2018

Scientific Refereeing

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, November 2018

Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, National Scientific Refreed Journal, November 2018

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Metrics

Publication: 77

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H-Index (WoS): 13

H-Index (Scopus): 15

Congress and Symposium Activities

16 TH INTERNATIONAL SYMPOSIUM ON METAL HYDROGEN SYSTEMS, Working Group, Guangzhou, China, 2018

ıV. International Ceramic, Glass, Porcelain Enamel, Glaze and Pigment Congress (SERES'18), Working Group, Eskişehir, Turkey, 2018

19th International Metallurgy & Materials Congress, Working Group, İstanbul, Turkey, 2018

3rd International Symposium on Materials for Energy Storage and Conversion, Working Group, Belgrade, Serbia And Montenegro, 2018

2018 eMRS Fall Meeting-MATERIALS FOR ENERGY, Working Group, Warszawa, Poland, 2018

ITSC 2018 International Thermal Spray Conference, Working Group, Florida, United States Of America, 2018

TUBITAK Battery Flagship Meeting, Working Group, Ankara, Turkey, 2018

14. INTERNATIONAL CONFERENCE ON ENERGY STORAGE, Working Group, Adana, Turkey, 2018

3rd International Hydrogen Technology Congress, Working Group, Antalya, Turkey, 2018