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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, İstanbul 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

Advising 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 palladium 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.ALТИNOK(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., Ferroboron 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 molgg 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 alunimium., 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-coper 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.MİRMESDAGH(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 etial-21 aluminum alloy, Postgraduate, Z.FİLİZ(Student), 1988

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

ÖZTÜRK T, Inclusions in cast, homogenized and extruded etial-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. 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)
- II. Thermal plasma synthesis of $(\text{La},\text{Sr})\text{CoO}_3-(\text{La},\text{Sr})_2\text{CoO}_4$ 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)
- III. Effect of deposition parameters on optical and electrical properties of $\text{ZnO}-\text{In}_2\text{O}_3-\text{SnO}_2$ thin films
Can H. A., ÖZTÜRK T, Akyıldız H.
Materials Chemistry and Physics, vol.296, 2023 (SCI-Expanded)
- IV. Development of MnO_{2} Based Cathodes for Alkaline Batteries via Combinatorial Approach
Darıcıoğlu N. O., Akbas Y., ÖZTÜRK T.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.169, no.12, 2022 (SCI-Expanded)
- V. 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)
- VI. A novel air-stable O₃-type layered oxide cathode material with low Ni content for sodium-ion batteries
PATAT S., Şahin A., Taş Y., Şanlı F., Yilmaz Y., ÖZTÜRK T.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.15, pp.22025-22037, 2022 (SCI-Expanded)
- VII. 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)
- VIII. 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)
- IX. 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)
- X. 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)
- XI. Editorial - mESC-IS2019
Öztürk T.
International Journal of Hydrogen Energy, vol.46, no.25, pp.13523, 2021 (SCI-Expanded)
- XII. 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)
- XIII. 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)
- XIV. Continuous synthesis of graphite with tunable interlayer distance
ÇAKMAK G., ÖZTÜRK T.
DIAMOND AND RELATED MATERIALS, vol.96, pp.134-139, 2019 (SCI-Expanded)
- XV. 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)
- XVI. Segregation resistant nanocrystalline/amorphous (La, Sr) Co_{0.3}-(La,Sr)₂Co_{0.4} 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)
- XVII. Combinatorial development of nanocrystalline/amorphous (La,Sr)Co_{0.3}-(La,Sr)₂Co_{0.4} 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)
- XVIII. 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)
- XIX. One pot synthesis of (La,Sr)Co_{0.3}/(La,Sr)₂Co_{0.4} for IT-SOFCs cathodes

- Torunoglu Z. Ç., Sarı D., Demircan O., Kalay Y. E., Öztürk T., Kuru Y.
International Journal of Hydrogen Energy, vol.43, pp.18642-18649, 2018 (SCI-Expanded)
- XX. **Carbon encapsulation of elemental nanoparticles by spark discharge**
Livan P., Öztürk T.
JOURNAL OF MATERIALS SCIENCE, vol.53, pp.14350-14360, 2018 (SCI-Expanded)
- XXI. **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)
- XXII. **Preparation of La0.8Sr0.2Co03-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)
- XXIII. **Carbon coating of magnesium particles**
Aktekin B., Eyovge C., ÖZTÜRK T.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.720, pp.17-21, 2017 (SCI-Expanded)
- XXIV. **Combinatorial screening of Pd-Ag-Ni membranes for hydrogen separation**
PİŞKİN F., ÖZTÜRK T.
JOURNAL OF MEMBRANE SCIENCE, vol.524, pp.631-636, 2017 (SCI-Expanded)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **Induction thermal plasma synthesis of Mg₂Ni nanoparticles**
Aktekin B., ÇAKMAK G., ÖZTÜRK T.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.39, no.18, pp.9859-9864, 2014 (SCI-Expanded)
- XXXI. **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)
- XXXII. **Milling of magnesium powders without additives**
ÇAKMAK G., ÖZTÜRK T.
POWDER TECHNOLOGY, vol.237, pp.484-488, 2013 (SCI-Expanded)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)

- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **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)
- XXXIX. **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)
- XL. **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)
- XLI. **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)
- XLII. **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)
- XLIII. **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)
- XLIV. **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**
 Ergün H., Aydinol K., ÖZTÜRK T., Doruk M.
 Turkish Journal of Engineering and Environmental Sciences, vol.37, no.2, pp.178-185, 2013 (Scopus)

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 Electrode s 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**
Aydınli A., Çakmak G., Öztürk T., Ünalan 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 $\text{La}_{0.8}\text{Sr}_{0.2}\text{CoO}_3-\delta$ /($\text{La}_{0.5}\text{Sr}_{0.5}\text{)}_2\text{CoO}_4$ 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 $\text{La}_{0.8}\text{Sr}_{0.2}\text{CoO}_3-\delta$ / ($\text{La}_{0.5}\text{Sr}_{0.5}\text{)}_2\text{CoO}_4$ 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 $\text{La}_{0.8}\text{Sr}_{0.2}\text{CoO}_3-\delta$ /($\text{La}_{0.5}\text{Sr}_{0.5}\text{)}_2\text{CoO}_4$ heterostructure**

- YAŞAR B., SARI D., KALAY Y. E., ÖZTÜRK T.
 2nd International Symposium on Materials for Energy Storage and Conversion, 26 - 28 September 2017
- XIX. **Carbon Encapsulated Silicon Nanoparticles as Anodes for Lithium Ion Batteries**
 Livan P., Miser B., Altinok S., Eyovge C., AYDINOL M. K., ÖZTÜRK T.
 Symposium on Plasma Nano Science and Technology held during the 231st Meeting of the Electrochemical-Society (ECS), Louisiana, United States Of America, 28 May - 01 June 2017, vol.77, pp.373-382
- XX. **Structural Characterization of $\text{LaxSr}_{1-x}\text{CoO}_3$ (LSC 113) / ($\text{LaxSr}_{1-x}\text{CoO}_4$ (LSC 214) Hetero-Interface Cathode for Intermediate Temperature Solid Oxide Fuel Cells**
 SARI D., KALAY Y. E., ÖZTÜRK T.
 TMS 2017 146th Annual Meeting and Exhibition, 26 February - 02 March 2017
- XXI. **Synthesis of AlNiCo Core Shell Nanopowders by Hydrogen Plasma Reaction**
 GENÇ A. M., AKDENİZ M. V., ÖZTÜRK T., KALAY Y. E.
 MRS Fall Meeting 2016, 27 November - 02 December 2016
- XXII. **The Surface and Bulk Kinetics of Oxygen Transport inSolid Oxide Fuel Cell Cathodes**
 SARI D., torunoğlu z., PİŞKİN F., KURU Y., KALAY Y. E., ÖZTÜRK T.
 IMMC 2016, Turkey, 29 September - 01 October 2016
- XXIII. **Combinatorial Development of Metal Hydrides for Thermal Coupling of Solid Oxide Fuel Cells**
 SARI D., PİŞKİN F., Volodymyr Y., KURU Y., KALAY Y. E., ÖZTÜRK T.
 TMS 2016, United States Of America, 14 - 18 February 2016
- XXIV. **Development of AlNiCo Nanopowders with Improved Coercivity**
 Genc M., AKDENİZ M. V., ÖZTÜRK T., KALAY Y. E.
 MRS 2015 FALL, 29 November - 04 December 2015
- XXV. **Hydrogen decrepitation of Mg rich Intermetallics**
 AYDINLI A., AKTEKİN B., ÖZTÜRK T.
 International Symposium on Materials for Energy Storage and Conversion, 7 - 09 September 2015
- XXVI. **Hydrogen Decrepitation of Mg_2Ni and $\text{TiMn}_{1.6}\text{Ni}_{0.4}$**
 AYDINLI A., ÖZTÜRK T.
 International Symposium on Metal-Hydrogen Systems, Kyoto, Japan, 24 - 26 October 2012
- XXVII. **Production of Hydrogen Storage Alloys via Decrepitation Treatment**
 AYDINLI A., ÖZTÜRK T.
 NanoTR VIII – 8th Nanoscience and Nanotechnology Congress, 2012, Ankara, Turkey, 25 - 29 June 2012

Supported Projects

- ÖZTÜRK T., YILDIZ B., Project Supported by Higher Education Institutions, ENERJİ DEPOLAMA SİSTEMLERİNDE ELEKTRO-AKTİF MALZEMELERİN KOLOİDAL DAVRANIŞI, 2018 - 2019
- 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 Pilleriinde Performans Optimizasyonu, 2017 - 2017
- ÖZTÜRK T., YILDIRIM H. G., Project Supported by Higher Education Institutions, Ti esash Implantların Termal Plazma ile Hidroksiapatit Kaplanması, 2016 - 2016
- ÖZTÜRK T., YILDIRIM H. G., Project Supported by Higher Education Institutions, Ti esash Implantların Termal Plazma ile Hidroksiapatit Kaplanması, 2016 - 2016
- ÖZTÜRK T., PİŞKİN F., Project Supported by Higher Education Institutions, NiMH Pilleri İçin Enkapsüle Edilmiş Magnezyum Esası Malzemelerin Geliştirilmesi, 2015 - 2016
- ÖZTÜRK T., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

ÖZTÜRK T, Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

ÖZTÜRK T, Güven G., Akpinar B., Onur E., Project Supported by Higher Education Institutions, Demir Oksit Nanoparçacıkların Üretilimi ve Hipertermi amaçlı Kullanımı, 2014 - 2015

ÖZTÜRK T, Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

ÖZTÜRK T, Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

ÖZTÜRK T, Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

ÖZTÜRK T, Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

ÖZTÜRK T, Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

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 Değiştirmeksızın Yoğunma İle Dayanç Değişiminin İncelenmesi, 2009 - 2009

ÖZTÜRK T, Project Supported by Higher Education Institutions, Bakır Esaslı Nokta Kaynağı Elektrodlarının Şekil Değiştirmeksızın Yoğunma 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

THIN SOLID FILMS, SCI Journal, October 2018

Materials for Renewable and Sustainable Energy, Journal Indexed in ESCI, August 2018

JOURNAL OF ALLOYS AND COMPOUNDS, SCI Journal, June 2018

JOURNAL OF ALLOYS AND COMPOUNDS, SCI Journal, May 2018

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, March 2018

Metrics

Publication: 72

Citation (WoS): 527

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H-Index (WoS): 13

H-Index (Scopus): 14

Congress and Symposium Activities

- 16 TH INTERNATIONAL SYMPOSIUM ON METAL HYDROGEN SYSTEMS, Working Group, Guangzhou, China, 2018
- IV. 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
- 2018 eMRS Fall Meeting-MATERIALS FOR ENERGY, Working Group, Warszawa, Poland, 2018
- 3rd International Symposium on Materials for Energy Storage and Conversion, Working Group, Belgrade, Serbia And Montenegro, 2018
- ITSC 2018 International Thermal Spray Conference, Working Group, Florida, United States Of America, 2018
14. INTERNATIONAL CONFERENCE ON ENERGY STORAGE, Working Group, Adana, Turkey, 2018
- TUBITAK Battery Flagship Meeting, Working Group, Ankara, Turkey, 2018
- 3rd International Hydrogen Technology Congress, Working Group, Antalya, Turkey, 2018