

## Prof. Necmettin MARAŞLI

### Personal Information

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ScopusID: 6701649930

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### Education Information

Doctorate, Oxford University, Mathematical, Physical And Life Sciences Division, Department Of Materials, United Kingdom 1990 - 1995

### Dissertations

Doctorate, The Measurement of solid-liquid surface energy, University of Oxford-St. Edmund Hall, 1995

### Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Mechanical Properties, Physical Properties, Intermetallics, Metallic Materials, Thermal Properties, Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Equations of State, Phase Equilibria, and Phase Transitions, Thermal Properties of Condensed Matter, Surfaces, Interfaces, Thin Films and Nanosystems, Natural Sciences, Engineering and Technology

### Academic Titles / Tasks

Professor, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, 2013 - Continues

Professor, Erciyes University, Fen Fakültesi Fizik Bölüm, Fizik, 2005 - 2013

Associate Professor, Erciyes University, Fen Fakültesi Fizik Bölüm, Fizik, 2000 - 2005

Associate Professor, Iowa State University, Ames Laboratory, Department Of Metallurgical And Material Engineering, Department Of Materials, 2002 - 2003

Assistant Professor, Erciyes University, Fizik, 1996 - 2000

Research Assistant, Erciyes University, Fen Fakültesi, Fizik , 1995 - 1995

Research Assistant, University of Oxford, Mathematical, Physical And Life Sciences Division, Department Of Materials, Department Of Materials, 1990 - 1995

Research Assistant, Erciyes University, Fen Fakültesi, Fizik , 1987 - 1990

## Academic and Administrative Experience

Head of Department, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Metalurji Ve Malzeme Mühendisliği, 2016 - 2019

Director of The Institution, Erciyes University, Fen Bilimleri Enstitüsü, 2010 - 2013

Erciyes Üniversitesi, Erciyes Üniversitesi Rektörlüğü, 2010 - 2013

Erciyes Üniversitesi, Erciyes Üniversitesi Rektörlüğü, 2010 - 2013

Erciyes Üniversitesi, Erciyes Üniversitesi Rektörlüğü, 2010 - 2013

Erciyes Üniversitesi, Fen Fakültesi, Fizik, 2009 - 2010

Erciyes Üniversitesi, Fen Fakültesi, 2009 - 2010

Assistant Director of the Institute, Erciyes University, Fen Bilimleri Enstitüsü, 2004 - 2010

Erciyes Üniversitesi, Fen Fakültesi, Fizik, 2005 - 2009

## Courses

ÇÖZELTİ TERMODİNAMİĞİ, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019

Uzmanlık Alan Dersi (Doktora), Doctorate, 2018 - 2019, 2017 - 2018

Uzmanlık Alan Dersi (Yüksek Lisans), Postgraduate, 2018 - 2019, 2017 - 2018

İleri Faz Dönüşümleri ve Kinetiği- II, Doctorate, 2018 - 2019, 2017 - 2018, 2016 - 2017

Doktora Tezi, Doctorate, 2018 - 2019, 2017 - 2018

Malzeme Termodinamiği, Undergraduate, 2019 - 2020, 2017 - 2018

FİZİK, Undergraduate, 2018 - 2019

Isı Aktarımı, Undergraduate, 2018 - 2019, 2017 - 2018

Laboratuvar-I, Undergraduate, 2018 - 2019, 2017 - 2018

İleri Faz Dönüşümleri ve Kinetiği I, Doctorate, 2018 - 2019, 2017 - 2018

PHYSICS, Undergraduate, 2018 - 2019

Yüksek Lisans Tezi, Postgraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Metalurjik Üretimde Tasarım Uygulamaları, Undergraduate, 2018 - 2019, 2017 - 2018

## Advising Theses

Maraşlı N., Al-Si ÖTEKTİK ALAŞIMININ MİKROYAPI VE MEKANİK ÖZELLİKLERİNİN ELEKTRİK ALANA BAĞLILIĞININ İNCELENMESİ, Postgraduate, S.BİRİNCİ(Student), 2020

Maraşlı N., FARKLI YÖN ve BÜYÜKLÜKTE UYGULANAN DÜZGÜN ELEKTRİK ALAN ALTINDA KATILAŞTIRILAN Al-Cu ve Al-Ni ÖTEKTİK ALAŞIMLARIN MİKROYAPI ve MEKANİK ÖZELLİKLERİNİN ELEKTRİK ALANA BAĞLILIKLARININ İNCELENMESİ, Doctorate, S.BASİT(Student), 2020

Maraşlı N., TİTANYUM, ZİRKONYUM VE BOR KATKILI A356 ALAŞIMLARININ TERMAL İLETKENLİKLERİNİN VE MEKANİK ÖZELLİKLERİNİN İNCELENMESİ , Postgraduate, Z.Sueda(Student), 2020

Maraşlı N., Kontrollü doğrusal katılaştırılmış alüminyum içerikli çoklu ötektik alaşımların yapı parametreleri ile mekanik, termal ve elektriksel özelliklerinin katılaştırma hızına bağlılıklarının incelenmesi, Doctorate, Ü.BAYRAM(Student), 2017

Maraşlı N., Doğrusal katılaştırılmış çinko-alüminyum esaslı üçlü ötektik alaşımların yapı parametreleri ile mekanik ve elektriksel özelliklerinin katılaştırma hızına bağlılıklarının incelenmesi, Postgraduate, Y.KARAMAZI(Student), 2015

Maraşlı N., Doğrusal Katılaştırılmış Alüminyum Esaslı Çoklu Alaşımlar da Yapı Parametreleri, Mekanik ve Elektriksel Özelliklerinin Büyütme Hızına Bağlılığının İncelenmesi, Doctorate, Y.KAYGISIZ(Student), 2014

Maraşlı N., Çoklu Organik Alaşımların Katı-Sıvı Arayüzey Enerjilerinin Ölçümü, Postgraduate, A.ÖZER(Student), 2014

Maraşlı N., Kontrollü Katılaştırılmış Al-Co ve Sn-Zn Ötektik Alaşımlarının Mikroyapı Parametreleri ile Mekanik ve Elektriksel Özelliklerin Büyütme Hızına Bağlılığının İncelenmesi, Postgraduate, S.JAAFAR(Student), 2013

Maraşlı N., Çoklu Alaşımların Doğrusal Katılaştırılması, Mekaniksel, Elektrik ve Termal Özelliklerinin İncelenmesi, Doctorate, S.ENGİN(Student), 2013

Maraşlı N., Doğrusal Katılaştırılmış Pb-Bi Alaşımlarında Mikroyapı ve Mikrosertliğin Katılaştırma Parametrelerine Bağlılığı, Postgraduate, Y.KOÇAK(Student), 2012

Maraşlı N., Organik Alaşımın Termofiziksel Özelliklerinin Tespiti, Postgraduate, Ü.BAYRAM(Student), 2011  
Maraşlı N., Üçlü Metalik Alaşımın Katı-Sıvı Ara yüzey Enerjilerinin Ölçümü, Doctorate, S.AKBULUT(Student), 2010  
Maraşlı N., İkili Metalik Alaşımın Katı-Sıvı Arayüzey Enerjisinin Ölçümü, Postgraduate, Y.KAYGISIZ(Student), 2010  
Maraşlı N., Metalik Alaşımın Katı-Sıvı Arayüzey Enerjisinin Doğrusal Katılaştırma Yöntemiyle Tayin Edilmesi, Postgraduate, S.ENGİN(Student), 2009  
Maraşlı N., Üçlü Metalik Alaşımın Doğrusal Katılaştırılması ve Mekanik Özelliklerinin İncelenmesi, Doctorate, U.BÖYÜK(Student), 2009  
Maraşlı N., Saf Dibromobenzene ve Dibromobenzene-Succinonitrile İkili Alaşımın Katı-Sıvı Arayüzey Enerjilerinin Ölçümü, Postgraduate, K.YÜCEER(Student), 2007  
Maraşlı N., Bi-Cd ve Zn-Mg Ötektik Alaşımında Katı-Sıvı Ara yüzey Enerjileri, Doctorate, M.EROL(Student), 2006  
Maraşlı N., İkili Saydam Monotektik Alaşımın Katı-Sıvı Arayüzey Enerjilerinin Ölçümü, Postgraduate, S.AKBULUT(Student), 2006  
Maraşlı N., İkili Saydam Organik Alaşımın Katı-Sıvı Arayüzey Enerjilerinin Ölçümü, Postgraduate, U.BÖYÜK(Student), 2005  
Maraşlı N., İkili Saydam Organik Alaşımın Kontrollü Katılaştırılması, Postgraduate, B.ARSLAN(Student), 2003  
Maraşlı N., Katı-Sıvı Arayüzey Enerjisinin Ölçümü, Doctorate, K.KEŞLİOĞLU(Student), 2002  
Maraşlı N., İkili Saydam Organik Alaşımın Katı-Sıvı Arayüzey Enerjilerinin Ölçümü, Postgraduate, A.UÇKAN(Student), 2000

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Effects of external static electrical field on thermal and electrical conductivity in the Al-Cu, Al-Ni, and Al-Si eutectic alloys**  
Basit S., Esener P. A., Aydoğan Y. Y., Aksöz S., MARAŞLI N.  
Thermochimica Acta, vol.740, 2024 (SCI-Expanded)
- II. **Influences of Directions and Magnitudes of Static Electrical Field on Microstructure and Mechanical Properties for Al-Si Eutectic Alloy**  
Birinci S., Basit S., Marasli N.  
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.31, no.6, pp.5070-5079, 2022 (SCI-Expanded)
- III. **Investigations of Electrical Resistivity and Thermal Conductivity Dependences on Growth Rate in the Al-Cu-Ti Eutectic Alloy**  
MARAŞLI N., BAYRAM Ü.  
INTERNATIONAL JOURNAL OF THERMOPHYSICS, vol.42, no.6, 2021 (SCI-Expanded)
- IV. **Growth of rod structure with static electrical field in the Al-Ni eutectic system**  
Basit S., Birinci S., Maraşlı N.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, pp.14055-14068, 2020 (SCI-Expanded)
- V. **Effects of Growth Rate on Eutectic Spacing, Microhardness, and Ultimate Tensile Strength in the Al-Cu-Ti Eutectic Alloy**  
Bayram U., Maraşlı N.  
PHYSICS OF METALS AND METALLOGRAPHY, vol.121, pp.382-390, 2020 (SCI-Expanded)
- VI. **Electro growth of Al[ $\beta$ ]Cu eutectic alloy**  
BASIT S., Birinci S., MARAŞLI N.  
Materials Characterization, vol.161, 2020 (SCI-Expanded)
- VII. **Directionally Solidified Al-Cu-Si-Fe Quaternary Eutectic Alloys**  
Büyük U., Engin S., Kaya H., Cadirli E., Maraşlı N.  
PHYSICS OF METALS AND METALLOGRAPHY, vol.121, pp.78-83, 2020 (SCI-Expanded)
- VIII. **ELECTRICAL AND THERMAL CONDUCTIVITY AND PHONON CONTRIBUTION TO THE THERMAL CONDUCTIVITY IN THE BI-IN SYSTEM**  
Ata Esener P., Bayram Ü., Öztürk E., Aksöz S., Maraşlı N.  
ISI BİLİMİ VE TEKNİĞİ DERGİSİ-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.40, no.2, pp.367-378,

2020 (SCI-Expanded)

- IX. **Effect of Sn contents on thermodynamic, microstructure and mechanical properties in the Zn 90 –Bi 10 and Bi 88 –Zn 12 based ternary alloys**  
Esener P. A., Altintas Y., Bayram Ü., Öztürk E., Maraşlı N., Aksöz S.  
Journal of Materials Science: Materials in Electronics, vol.30, pp.3678-3691, 2019 (SCI-Expanded)
- X. **Influence of Growth Rate on Eutectic Spacing, Microhardness, and Ultimate Tensile Strength in the Directionally Solidified Al-Cu-Ni Eutectic Alloy**  
Bayram U., Maraşlı N.  
METALLURGICAL AND MATERIALS TRANSACTIONS B-PROCESS METALLURGY AND MATERIALS PROCESSING SCIENCE, vol.49, pp.3293-3305, 2018 (SCI-Expanded)
- XI. **Thermal conductivity and electrical resistivity dependences on growth rate in the directionally solidified Al-Cu-Ni eutectic alloy**  
Bayram U., MARAŞLI N.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.753, pp.695-702, 2018 (SCI-Expanded)
- XII. **Thermophysical properties of NPG solid solution in the NPG-SCN organic system**  
Karadag S. B., ÖZTÜRK E., Aksoz S., MARAŞLI N.  
INTERNATIONAL JOURNAL OF MATERIALS RESEARCH, vol.109, no.3, pp.219-224, 2018 (SCI-Expanded)
- XIII. **Directional solidification of Al-Cu-Si-Mg quaternary eutectic alloy**  
Kaygisiz Y., MARAŞLI N.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.721, pp.764-771, 2017 (SCI-Expanded)
- XIV. **Microstructural, mechanical, and electrical characterization of directionally solidified Al-Cu-Mg eutectic alloy**  
Kaygisiz Y., MARAŞLI N.  
PHYSICS OF METALS AND METALLOGRAPHY, vol.118, no.4, pp.389-398, 2017 (SCI-Expanded)
- XV. **Hardness and Electrical Resistivity of Al-13 wt % Mg<sub>2</sub>Si Pseudoeutectic Alloy**  
Kaygisiz Y., MARAŞLI N.  
RUSSIAN JOURNAL OF NON-FERROUS METALS, vol.58, no.1, pp.15-21, 2017 (SCI-Expanded)
- XVI. **Experimental measurements of some thermophysical properties of solid CdSb intermetallic in the Sn-Cd-Sb ternary alloy**  
ÖZTÜRK E., Aksoz S., ALTINTAS Y., Keslioglu K., MARAŞLI N.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.126, no.3, pp.1059-1065, 2016 (SCI-Expanded)
- XVII. **Dependence of microstructure, microhardness, tensile strength and electrical resistivity on growth rates for directionally solidified Zn-Al-Sb eutectic alloy**  
Bayram U., Karamazi Y., Ata P., Aksoz S., Keslioglu K., MARAŞLI N.  
INTERNATIONAL JOURNAL OF MATERIALS RESEARCH, vol.107, no.11, pp.1005-1015, 2016 (SCI-Expanded)
- XVIII. **Thermal Conductivity of Solid Phases for Naphtol, Camphene, Salol, and Bezil**  
Bayram U., Keslioglu K., Aksoz S., MARAŞLI N.  
JOURNAL OF THERMOPHYSICS AND HEAT TRANSFER, vol.30, no.4, pp.730-736, 2016 (SCI-Expanded)
- XIX. **Dependence of microstructural, mechanical and electrical properties on growth rates in directional solidified Zn-Al-Bi eutectic alloy**  
Karamazi Y., Bayram U., Ata P., Aksoz S., Keslioglu K., MARAŞLI N.  
TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA, vol.26, no.9, pp.2320-2335, 2016 (SCI-Expanded)
- XX. **The experimental determination of thermophysical properties of intermetallic CuAl<sub>2</sub> phase in equilibrium with (Al plus Cu plus Si) liquid**  
Altintas Y., Aksoz S., Keslioglu K., MARAŞLI N.  
JOURNAL OF CHEMICAL THERMODYNAMICS, vol.97, pp.235-241, 2016 (SCI-Expanded)
- XXI. **The effects of microstructure and growth rate on microhardness, tensile strength, and electrical resistivity for directionally solidified Al-Ni-Fe alloys**  
Engin S., BÜYÜK U., MARAŞLI N.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.660, pp.23-31, 2016 (SCI-Expanded)
- XXII. **The measurements of electrical and thermal conductivity variations with temperature and phonon**

- component of the thermal conductivity in Sn-Cd-Sb, Sn-In-Cu, Sn-Ag-Bi and Sn-Bi-Zn alloys**  
ALTINTAS Y., Kaygisiz Y., ÖZTÜRK E., Aksoz S., Keslioglu K., MARAŞLI N.  
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.100, pp.1-9, 2016 (SCI-Expanded)
- XXIII. **Solid-Liquid Interfacial Energy of Solid Succinonitrile in Equilibrium with Succinonitrile-(D) Camphor-Aminomethylpropanediol Eutectic Liquid**  
Ata P., Karamazi Y., Bayram U., Aksoz S., Keslioglu K., MARAŞLI N.  
INTERNATIONAL JOURNAL OF THERMOPHYSICS, vol.37, no.1, 2016 (SCI-Expanded)
- XXIV. **Determination of thermodynamic properties of aluminum based binary and ternary alloys**  
Altintas Y., Aksoz S., Keslioglu K., MARAŞLI N.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.649, pp.453-460, 2015 (SCI-Expanded)
- XXV. **The Experimental Determination of Interfacial Energies for Solid Zn in Equilibrium with Zn-Al-Sb Liquid**  
ALTINTAS Y., ÖZTÜRK E., Aksoz S., Keslioglu K., MARAŞLI N.  
METALLURGICAL AND MATERIALS TRANSACTIONS B-PROCESS METALLURGY AND MATERIALS PROCESSING SCIENCE, vol.46, no.5, pp.2084-2095, 2015 (SCI-Expanded)
- XXVI. **Thermal conductivity and interfacial energy of solid Bi in the Bi-Ag eutectic system**  
Altintas Y., ÖZTÜRK E., Aksoz S., Keslioglu K., MARAŞLI N.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.122, no.1, pp.65-72, 2015 (SCI-Expanded)
- XXVII. **Experimental determination of interfacial energies for solid Sn in equilibrium with Sn-Mg-Zn liquid**  
ALTINTAS Y., ÖZTÜRK E., Aksoz S., Keslioglu K., Marasli N.  
METALS AND MATERIALS INTERNATIONAL, vol.21, no.2, pp.286-294, 2015 (SCI-Expanded)
- XXVIII. **Solid-liquid interfacial energy of solid succinonitrile in equilibrium with succinonitrile-1,4-diiodobenzene eutectic liquid**  
Ersoy S. B., ALTINTAS Y., Karadag S. B., Aksoz S., Keslioglu K., MARAŞLI N.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.119, no.3, pp.1867-1874, 2015 (SCI-Expanded)
- XXIX. **Microstructural, mechanical and electrical characterization of directionally solidified Al-Si-Mg eutectic alloy**  
Kaygisiz Y., MARAŞLI N.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.618, pp.197-203, 2015 (SCI-Expanded)
- XXX. **DIRECTIONAL SOLIDIFICATION OF Zn-Al-Cu EUTECTIC ALLOY BY THE VERTICAL BRIDGMAN METHOD**  
BÜYÜK U., Engin S., MARAŞLI N.  
JOURNAL OF MINING AND METALLURGY SECTION B-METALLURGY, vol.51, no.1, pp.67-72, 2015 (SCI-Expanded)
- XXXI. **The Measurement of Thermal Conductivity Variation with Temperature for Sn-Based Lead-Free Binary Solders**  
Demir M., Aksoz S., ÖZTÜRK E., MARAŞLI N.  
METALLURGICAL AND MATERIALS TRANSACTIONS B-PROCESS METALLURGY AND MATERIALS PROCESSING SCIENCE, vol.45, no.5, pp.1739-1749, 2014 (SCI-Expanded)
- XXXII. **Temperature dependency of thermal conductivity of solid phases for fatty acids**  
Bayram U., Aksoz S., MARAŞLI N.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.118, no.1, pp.311-321, 2014 (SCI-Expanded)
- XXXIII. **The Experimental Determination of Interfacial Energies for Solid Cd in Equilibrium with Sn-Cd-Sb Liquid**  
ÖZTÜRK E., Aksoz S., Keslioglu K., MARAŞLI N.  
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.3, pp.1161-1170, 2014 (SCI-Expanded)
- XXXIV. **Thermal Conductivity Variation with Temperature for Lead-Free Ternary Eutectic Solders**  
Aksoz N., ÖZTÜRK E., Bayram U., Aksoz S., Kervan S., ÜLGEN A., MARAŞLI N.  
JOURNAL OF ELECTRONIC MATERIALS, vol.42, no.12, pp.3573-3581, 2013 (SCI-Expanded)
- XXXV. **Solid-liquid interfacial energy of solid succinonitrile solution in equilibrium with succinonitrile-neopentylglycol eutectic liquid**

- Karadag S. B., Altintas Y., ÖZTÜRK E., Aksoz S., Keslioglu K., MARAŞLI N.  
JOURNAL OF CRYSTAL GROWTH, vol.380, pp.209-217, 2013 (SCI-Expanded)
- XXXVI. **Measurements of Thermal Conductivity Variations with Temperature for the Organic Analog of the Nonmetal-Nonmetal System: Urea-4-Bromo-2-Nitroaniline**  
Bayram U., ÖZTÜRK E., Aksoz S., Marasli N.  
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.9, pp.4051-4058, 2013 (SCI-Expanded)
- XXXVII. **Solid-Liquid Interfacial Energy of Solid Neopentylglycol Solution in Equilibrium with Neopentylglycol-Aminomethylpropanediol Eutectic Liquid**  
Bayram U., Ozer A., Aksoz S., MARAŞLI N.  
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.9, pp.4042-4050, 2013 (SCI-Expanded)
- XXXVIII. **The influence of the growth rate on the eutectic spacings, undercoolings and microhardness of directional solidified bismuth-lead eutectic alloy**  
Kocak Y., Engin S., Boyuk U., Marasli N.  
CURRENT APPLIED PHYSICS, vol.13, no.3, pp.587-593, 2013 (SCI-Expanded)
- XXXIX. **The measurement of interfacial energies for solid Sn solution in equilibrium with the Sn-Bi-Ag liquid**  
ÖZTÜRK E., Aksoz S., Keslioglu K., Marasli N.  
MATERIALS CHEMISTRY AND PHYSICS, vol.139, no.1, pp.153-160, 2013 (SCI-Expanded)
- XL. **Solid-liquid interfacial energy of solid aminomethylpropanediol solution in equilibrium with aminomethylpropanediol-neopentylglycol-D camphor liquid**  
Bayram U., Aksoz S., Marasli N.  
THERMOCHIMICA ACTA, vol.554, pp.48-53, 2013 (SCI-Expanded)
- XLI. **The measurement of thermal conductivity variation with temperature for Sn-20 wt.% In based lead-free ternary solders**  
ÖZTÜRK E., Aksoz S., Keslioglu K., Marasli N.  
THERMOCHIMICA ACTA, vol.554, pp.63-70, 2013 (SCI-Expanded)
- XLII. **Effects of growth rate on the physical and mechanical properties of Sn-3.7Ag-0.9Zn eutectic alloy**  
BOYUK U., ENGIN S., KAYA H., MARAŞLI N., CADIRLI E., ŞAHİN M.  
INTERNATIONAL JOURNAL OF PHYSICAL SCIENCES, vol.8, no.8, pp.302-309, 2013 (SCI-Expanded)
- XLIII. **Solid-liquid interfacial energy of neopentylglycol solid solution in equilibrium with succinonitrile-neopentylglycol-aminomethylpropanediol liquid**  
ÖZER A., Bayram U., Aksoz S., Marasli N.  
JOURNAL OF CRYSTAL GROWTH, vol.364, pp.34-39, 2013 (SCI-Expanded)
- XLIV. **The measurement of thermal conductivity variation with temperature for solid materials**  
Aksoz S., ÖZTÜRK E., Marasli N.  
MEASUREMENT, vol.46, no.1, pp.161-170, 2013 (SCI-Expanded)
- XLV. **Influence of growth rate on microstructure, microhardness, and electrical resistivity of directionally solidified Al-7 wt% Ni hypo-eutectic alloy**  
KAYA H., Boyuk U., CADIRLI E., Marasli N.  
METALS AND MATERIALS INTERNATIONAL, vol.19, no.1, pp.39-44, 2013 (SCI-Expanded)
- XLVI. **Variations of thermal conductivity with temperature and composition of Zn in the Bi-[x] at.% Zn-2 at.% Al alloys**  
Aksoz S., Marasli N., Keslioglu K., Yildiz F.  
THERMOCHIMICA ACTA, vol.547, pp.1-5, 2012 (SCI-Expanded)
- XLVII. **Thermal and electrical conductivities of silver-indium-tin alloys**  
Aksoz S., Marasli N.  
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.73, no.7, pp.902-910, 2012 (SCI-Expanded)
- XLVIII. **Effect of solidification parameters on the microstructure of directionally solidified Sn-Bi-Zn lead-free solder**  
CADIRLI E., Boyuk U., KAYA H., Marasli N.

METALS AND MATERIALS INTERNATIONAL, vol.18, no.2, pp.349-354, 2012 (SCI-Expanded)

- XLIX. **Dependency of thermal conductivity on the temperature and composition of D-camphor in the neopentylglycol-D-camphor alloys**  
Bayram U., Aksoz S., Marasli N.  
THERMOCHIMICA ACTA, vol.531, pp.12-20, 2012 (SCI-Expanded)
- L. **Measurements of the microhardness, electrical and thermal properties of the Al-Ni eutectic alloy**  
Kaya H., Boyuk U., Cadırlı E., Marasli N.  
MATERIALS & DESIGN, vol.34, pp.707-712, 2012 (SCI-Expanded)
- LI. **Experimental Determination of Interfacial Energy for Solid Zn Solution in the Sn-Zn Eutectic System**  
Meydaneri F., Payveren M., SAATÇI B., Ozdemir M., Marasli N.  
METALS AND MATERIALS INTERNATIONAL, vol.18, no.1, pp.95-104, 2012 (SCI-Expanded)
- LII. **Variations of microhardness with solidification parameters and electrical resistivity with temperature for Al-Cu-Ag eutectic alloy**  
Boyuk U., Marasli N., CADIRLI E., KAYA H., Keslioglu K.  
CURRENT APPLIED PHYSICS, vol.12, no.1, pp.7-10, 2012 (SCI-Expanded)
- LIII. **Solid-liquid interfacial energy of neopentylglycol solid solution in equilibrium with neopentylglycol-(D) camphor eutectic liquid**  
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## Supported Projects

- Maraşlı N., Aksöz S., TUBITAK Project, Al-Cu, Al-Ni ve Al-Si Ötektik Alaşımının Farklı Yön ve Büyüklükteki Yüksek Elektrik Gerilimi Altında Katılaştırılması ve Mikroyapı, Mekanik, Elektrik ve Termal Özelliklerin Elektrik Gerilime Bağlılığının İncelenmesi, 2018 - 2021
- MARAŞLI N., Basar Z. S., Project Supported by Higher Education Institutions, Titanyum Bor ve Zirkonyum Katkılı A356 AlSiMg Alaşımının Termal İletkenliğinin ve Mekanik Özelliklerinin İncelenmesi, 2018 - 2020
- Maraşlı N., TUBITAK Project, Titanyum, Bor ve Zirkonyum Katkılı A356 (Al-Si-Mg) Alaşımının Termal İletkenliğinin ve Mekanik Özelliklerinin İncelenmesi, 2018 - 2019
- Maraşlı N., Basit S., Erol M., Project Supported by Higher Education Institutions, Farklı Düzgün Elektrik Alan Altında Katılaştırılmış Ti, B, Zr, V ve Nb Katkılı Al-Mg-Si Alaşımının Mikroyapı, Mekanik Ve Elektriksel Özelliklerinin Optimizasyonu, 2017 - 2019
- Maraşlı N., Basit S., Project Supported by Higher Education Institutions, Al-Cu, Al-Ni ve Al-Si Ötektik Alaşımının Farklı Yön ve Büyüklükteki Yüksek Elektrik Gerilimi Altında Katılaştırılması ve Mikroyapı, Mekanik, Elektrik ve Termal Özelliklerin Elektrik Gerilime Bağlılığının İncelenmesi, 2017 - 2019
- MARAŞLI N., BASİT S., EROL M., Project Supported by Higher Education Institutions, Farklı Düzgün Elektrik Alan Altında Katılaştırılmış B, Bi, Sb, Ti, V ve Zr Katkılı Al-Si-Mg Alaşımının Mikroyapı, Mekanik Özellikleri ile Elektriksel ve Termal İletkenliklerinin İncelenmesi, 2017 - 2019
- Aksöz S., Maraşlı N., TUBITAK Project, Tek Yönlü Katılaştırılmış Alternatif Kurşunsuz Lehim Malzemesi Olan Sn-Bi-In-Zn Alaşım Sisteminin Farklı Kompozisyonlarda Mekanik, Termal ve Elektriksel Özelliklerinin Belirlenmesi, 2016 - 2018
- Biröl B., Maraşlı N., TUBITAK Project, Investigation of the Effect of Solidification Rate on the Mechanical, Electrical and Thermal Properties of Linear Solidified High Mg Containing Al-Mg Based Multiple Eutectic Alloys, 2016 - 2018
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Çadırılı E., Kaya H., Maraşlı N., Büyük U., TUBITAK Project, Cu-Sn ve Cu-Zn İkili Metalik Alaşımın Kontrollü Katılaştırılması, Katı-Sıvı Arayüzey Enerjilerin Ölçülmesi ve Fiziksel Özelliklerinin İncelenmesi, 2007 - 2009

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MARAŞLI N., Project Supported by Higher Education Institutions, İkili Metalik Alaşımın Katı-Sıvı ve Katı-Katı Arayüzey Enerjilerinin Ölçülmesi, 1997 - 1999

## Activities in Scientific Journals

Advances in Materials Chemistry, Publication Committee Member, 2018 - Continues

Annals of Material Science & Engineering, Publication Committee Member, 2016 - Continues

American Journal of Mining and Metallurgy, Publication Committee Member, 2013 - Continues

Advances in Materials Science and Engineering, Publication Committee Member, 2013 - Continues

Journal of Materials, Publication Committee Member, 2013 - Continues

## Scientific Refereeing

JOURNAL OF ALLOYS AND COMPOUNDS, SCI Journal, September 2020

INTERMETALLICS, SCI Journal, September 2020

PHILOSOPHICAL MAGAZINE, SCI Journal, February 2020

PHASE TRANSITIONS, SCI Journal, January 2020

JOURNAL OF ALLOYS AND COMPOUNDS, SCI Journal, May 2019

JOURNAL OF MATERIALS RESEARCH, Journal Indexed in SCI-E, April 2019

THERMOCHIMICA ACTA, SCI Journal, April 2019

Materials Science and Engineering D, Other Indexed Journal, March 2019

SCRIPTA MATERIALIA, SCI Journal, March 2019

INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, SCI Journal, March 2019

INTERNATIONAL JOURNAL OF THERMAL SCIENCES, SCI Journal, February 2019

SURFACE SCIENCE, SCI Journal, February 2019

MEASUREMENT, SCI Journal, February 2019

NANOTECHNOLOGY, SCI Journal, February 2019

Measurement Science and Technology, Other Indexed Journal, January 2019

JOURNAL OF CRYSTAL GROWTH, SCI Journal, January 2019

METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, SCI Journal, November 2018

FLUID PHASE EQUILIBRIA, SCI Journal, November 2018

APPLIED SURFACE SCIENCE, SCI Journal, October 2018

Balkan Physics Letters, Other Indexed Journal, June 2018

INTERMETALLICS, SCI Journal, April 2018

MATERIALS AND DESIGN, SCI Journal, April 2018

JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, SCI Journal, April 2018

Measurement, SCI Journal, April 2018

Materials Research, SCI Journal, April 2018

Journal of Physics C: Condensed Matter, Other Indexed Journal, March 2018

Journal of Materials Research, SCI Journal, March 2018

International Journal of Thermal Sciences, SCI Journal, February 2018

APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, SCI Journal, February 2018

Chemical Engineering & Technology, SCI Journal, January 2018

Fluid Phase Equilibria, SCI Journal, January 2018

IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY-TRANSACTIONS OF MECHANICAL ENGINEERING, Journal Indexed in SCI-E, December 2017

Scripta Materialia, SCI Journal, November 2017

Arabian Journal of Chemistry, SCI Journal, November 2017

CHEMICAL ENGINEERING & TECHNOLOGY, SCI Journal, September 2017

Iranian Journal of Science and Technology, Transactions A: Science, SCI Journal, September 2017

MATERIALS AND DESIGN, Journal Indexed in ESCI, August 2017

ARABIAN JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, August 2017

JOURNAL OF NUCLEAR MATERIALS, SCI Journal, July 2017

Journal of Nuclear Materials, SCI Journal, July 2017

JOURNAL OF COLLOID AND INTERFACE SCIENCE, SCI Journal, July 2017

INTERNATIONAL JOURNAL OF MINERALS METALLURGY AND MATERIALS, SCI Journal, January 2017

SOLAR ENERGY MATERIALS AND SOLAR CELLS, SCI Journal, July 2016



MATERIALS LETTERS, SCI Journal, March 2016  
JOURNAL OF NON-CRYSTALLINE SOLIDS, SCI Journal, February 2016  
TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA, Journal Indexed in SCI-E, December 2015  
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, SCI Journal, February 2014  
JOURNAL OF MATERIAL SCIENCE, Other Indexed Journal, October 2013  
Surface Review Letters, Other Indexed Journal, June 2013  
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, SCI Journal, November 2012  
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, SCI Journal, September 2012  
SOLAR ENERGY MATERIALS AND SOLAR CELLS, SCI Journal, July 2011  
International Journal of Physical Sciences, Other Indexed Journal, November 2005  
Journal of Physics D:Applied Physics, Other Indexed Journal, February 2004

## **Metrics**

Publication: 263  
Citation (WoS): 2239  
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## **Non Academic Experience**

Iowa State University, Ames Laboratory, AMES, IOWA-USA