

## **Asst. Prof. MUHSİNE BİLGE İMER**

### **Personal Information**

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### **Education Information**

Postgraduate, University of California, Santa Barbara, College of Letter & Science, Department of Economics, United States Of America 2003 - 2006

Doctorate, University of California, Santa Barbara, Faculty of Engineering, Materials, United States Of America 2001 - 2006

Undergraduate, University of Pittsburgh, Faculty of Engineering, Materials Science and Engineering, United States Of America 1999 - 2000

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Metallurgical And Materials Engineering, Turkey 1995 - 1999

### **Dissertations**

Doctorate, Improved Quality Nonpolar III-Nitride Heteroepitaxial Films and Devices, Middle East Technical University, Faculty of Engineering, Materials, 2006

### **Research Areas**

Natural Sciences, Engineering and Technology

### **Academic Titles / Tasks**

Assistant Professor, Middle East Technical University, Faculty Of Engineering, Department Of Metallurgical And Materials Engineering, 2018 - Continues

Assistant Professor, Middle East Technical University, Faculty Of Engineering, Department Of Metallurgical And Materials Engineering, 2013 - 2018

Assistant Professor, Ihsan Dogramaci Bilkent University, Institute Of Engineering And Natural Sciences, Malzeme Bilimi Ve Nanoteknoloji (YI) (Tezli), 2007 - 2009

Lecturer PhD, University of California, Santa Barbara, Fen Bilimleri, Malzeme Bilimi, 2006 - 2007

Research Assistant, University of California, Santa Barbara, Fen Bilimleri, Malzeme Bilimi, 2001 - 2006

### **Academic and Administrative Experience**

Bölüm Stratejik Plan Komisyonu Üyesi, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 2017 - Continues

Staj Koordinatörü, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 2013 - Continues

Bölüm Tanıtım ve Mezunlarla İlişkiler Komisyonu Başkanı, Middle East Technical University, Faculty of Engineering,

Department of Metallurgical and Materials Engineering, 2013 - 2015

## Courses

Engineering Materials, Undergraduate, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022

Materials Technology Management, Undergraduate, 2021 - 2022

TRANSPORT PHENOMENA, Undergraduate, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022

Fundamentals of Materials Science and Engineering, Undergraduate, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021

Thin Films and Its Applications, Undergraduate, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021

Nanoscience and Engineering Principles, Postgraduate, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022

Materials Design Economics and Management in Materials Engineering, Undergraduate, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019

Basic Concepts in Materials Science II, Undergraduate, 2012 - 2013, 2013 - 2014

Basic Concepts in Materials Science I, Undergraduate, 2013 - 2014

## Advising Theses

Bek A., İmer M. B. , Comparison of alloyed and non-alloyed ohmic contacts in GaN/AlGaN HEMT for Ka band radar applications, Doctorate, H.ÇAKMAK(Student), 2020

İmer M. B. , Kalkanlı A., COOLING CURVE THERMAL ANALYSES AND OXYGEN ACTIVITY ANALYSES FOR THE ESTIMATION OF MICROSTRUCTURAL PROPERTIES OF NODULAR CAST IRON, Postgraduate, C.ÇEHİZ(Student), 2019

İMER M. B. , IN 738 LC microstructure optimization with heat treatment and simulation to improve mechanical properties of turbine blades, Postgraduate, M.TARIK(Student), 2018

İMER M. B. , ÜNALAN H. E. , Copper nanowire network based transparent thin film heaters, Postgraduate, D.TİGAN(Student), 2018

Bek A., İmer M. B. , Development of hole transport transparent conductive electrodes for n-type crystalline silicon solar cells, Postgraduate, O.AKDEMİR(Student), 2018

İMER M. B. , Production and development of aluminide coatings by chemical vapor deposition on nickel based superalloys for turbine engine applications, Postgraduate, U.ERTÜRK(Student), 2017

İmer M. B. , Çıracı S., Dana A., Scanning probe microscopy for optoelectronic characterization at the nanoscale, Postgraduate, M.Ürel(Student), 2010

İmer M. B. , Çıracı S., Dana A., Enhancing light extraction efficiency of InGaN/GaN multi quantum well light emitting diodes with embedded two dimensional photonic crystal structures, Postgraduate, A.Güneş(Student), 2010

## Designed Lessons

Imer M. B. , Materials Technology Management, Undergraduate, 2021 - 2022

Imer M. B. , Thin Films and Its Applications, Undergraduate, 2011 - 2012

## Research Infrastructure Information

İmer M. B. , Thin Films and Coatings Laboratory, June 2016

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

- I. **A Comparative Analysis of Ternary Element Addition on Corrosion Behavior of Aluminide Coatings in Harsh Environmental Conditions**  
Erturk U., Imer M. B.  
CORROSION, vol.77, no.12, pp.1365-1373, 2021 (Journal Indexed in SCI)
- II. **Nonalloyed Ohmic Contacts in AlGa<sub>N</sub>/Ga<sub>N</sub> HEMTs With MOCVD Regrowth of InGa<sub>N</sub> for Ka-Band Applications**  
Cakmak H., Ozturk M., Ozbay E., Imer B.  
IEEE TRANSACTIONS ON ELECTRON DEVICES, vol.68, no.3, pp.1006-1010, 2021 (Journal Indexed in SCI)
- III. **Core/shell copper nanowire networks for transparent thin film heaters**  
Tigan D., Genlik S. P. , Imer B., ÜNALAN H. E.  
NANOTECHNOLOGY, vol.30, no.32, 2019 (Journal Indexed in SCI)
- IV. **High responsivity A-plane Ga<sub>N</sub>-based metal-semiconductor-metal photodetectors for polarization-sensitive applications**  
Navarro A., Rivera C., Pereiro J., Munoz E., Imer B., DenBaars S. P. , Speck J. S.  
APPLIED PHYSICS LETTERS, vol.94, no.21, 2009 (Journal Indexed in SCI)
- V. **Improved quality nonpolar a-plane Ga<sub>N</sub>/AlGa<sub>N</sub> UV LEDs grown with sidewall lateral epitaxial overgrowth (SLEO)**  
Imer B., Schmidt M., Haskell B., Rajan S., Zhong B., Kim K., Wu F., Mates T., Keller S., Mishra U. K. , et al.  
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, vol.205, no.7, pp.1705-1712, 2008 (Journal Indexed in SCI)
- VI. **Electrical characterization of low defect density nonpolar (11 $\bar{2}$ 0) a-plane Ga<sub>N</sub> grown with sidewall lateral epitaxial overgrowth (SLEO)**  
Imer B., Haskell B., Rajan S., Keller S., Mishra U. K. , Nakamura S., Speck J. S. , DenBaars S. P.  
JOURNAL OF MATERIALS RESEARCH, vol.23, no.2, pp.551-555, 2008 (Journal Indexed in SCI)
- VII. **Growth evolution in sidewall lateral epitaxial overgrowth (SLEO)**  
Imer B., Wu F., Speck J. S. , DenBaars S. P.  
JOURNAL OF CRYSTAL GROWTH, vol.306, no.2, pp.330-338, 2007 (Journal Indexed in SCI)
- VIII. **Polarization anisotropy in nonpolar oriented Ga<sub>N</sub> films studied by polarized photoreflectance spectroscopy**  
Behn U., Misra P., Grahn H. T. , Imer B., Nakamura S., DenBaars S. P. , Speck J. S.  
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, vol.204, no.1, pp.299-303, 2007 (Journal Indexed in SCI)
- IX. **Stability of (11 $\bar{2}$ 0) m-plane Ga<sub>N</sub> films grown by metalorganic chemical vapor deposition**  
Imer B., Wu F., Cravens M. D. , Speck J. S. , DenBaars S. P.  
JAPANESE JOURNAL OF APPLIED PHYSICS PART 1-REGULAR PAPERS BRIEF COMMUNICATIONS & REVIEW PAPERS, vol.45, no.11, pp.8644-8647, 2006 (Journal Indexed in SCI)
- X. **Optical polarization anisotropy in strained A-plane Ga<sub>N</sub> films on R-plane sapphire**  
Ghosh S., Misra P., Grahn H. T. , Imer B., Nakamura S., DenBaars S. P. , Speck J. S.  
PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS, vol.243, no.7, pp.1441-1445, 2006 (Journal Indexed in SCI)
- XI. **Polarization anisotropy in Ga<sub>N</sub> films for different nonpolar orientations studied by polarized photoreflectance spectroscopy**  
Misra P., Behn U., Brandt O., Grahn H., Imer B., Nakamura S., DenBaars S., Speck J.  
APPLIED PHYSICS LETTERS, vol.88, no.16, 2006 (Journal Indexed in SCI)
- XII. **Improved quality (11 $\bar{2}$ 0) a-plane Ga<sub>N</sub> with sidewall lateral epitaxial overgrowth**  
Imer B., Wu F., DenBaars S., Speck J.  
APPLIED PHYSICS LETTERS, vol.88, no.6, 2006 (Journal Indexed in SCI)
- XIII. **Polarized photoreflectance spectroscopy of strained A-plane Ga<sub>N</sub> films on R-plane sapphire**  
Ghosh S., Misra P., Grahn H., Imer B., Nakamura S., DenBaars S., Speck J.

JOURNAL OF APPLIED PHYSICS, vol.98, no.2, 2005 (Journal Indexed in SCI)

- XIV. **Intensity dependent time-resolved photoluminescence studies of GaN/AlGaN multiple quantum wells of varying well width on laterally overgrown a-plane and planar c-plane GaN**  
Garrett G., Shen H., Wraback M., Imer B., Haskell B., Speck J., Keller S., Nakamura S., DenBaars S.  
PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE, vol.202, no.5, pp.846-849, 2005 (Journal Indexed in SCI)
- XV. **Growth of thick ( $11\bar{2}0$ ) GaN using a metal interlayer**  
Tavernier P., Imer B., DenBaars S., Clarke D.  
APPLIED PHYSICS LETTERS, vol.85, no.20, pp.4630-4632, 2004 (Journal Indexed in SCI)
- XVI. **Microstructural evolution of a-plane GaN grown on a-plane SiC by metalorganic chemical vapor deposition**  
Craven M., Wu F., Chakraborty A., Imer B., Mishra U., DenBaars S., Speck J.  
APPLIED PHYSICS LETTERS, vol.84, no.8, pp.1281-1283, 2004 (Journal Indexed in SCI)

### Articles Published in Other Journals

- I. **Development of AZO TCOs with ALD for HEMT and HJSC Solar Cell Applications**  
Tugrul D., Cakmak H., Özbay E., Imer M. B.  
Journal of Polytechnic, vol.24, no.3, pp.1-5, 2021 (National Refreed University Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Comparison of ALD grown AZO and ZnO Thin Film Heater Performances**  
Tugrul D., Doganay D., Ünal H. E., Imer M. B.  
Materials Research Society (MRS) Fall 2021, Massachusetts, United States Of America, 6 - 08 December 2021, pp.1
- II. **ALD grown AZO contacts for AlGaIn/GaN HEMT Device Applications**  
Cakmak H., Tugrul D., Esen H., Yilmaz D., Özbay E., Imer M. B.  
International Conference on Advanced Materials Science & Engineering and High Tech Devices Applications - ICMATSE, Ankara, Turkey, 2 - 04 October 2020, vol.1, no.1, pp.58-59
- III. **Development of AZO TCOs with ALD for HEMT and HJSC solar cell applications**  
Tugrul D., Cakmak H., Özbay E., Imer M. B.  
International Conference on Advanced Materials Science & Engineering and High Tech Device Applications - ICMATSE, Ankara, Turkey, 2 - 04 October 2020, vol.1, no.1, pp.54-55
- IV. **Aluminum Doped Zinc Oxide by Atomic Layer Deposition for Device Applications**  
Çakmak H., Yilmaz D., Öztürk M., İmer M. B., Özbay E.  
21. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, İstanbul, Turkey, 06 September 2019
- V. **Post-annealing Temperature Effect on Electrical Properties of Al<sub>2</sub>O<sub>3</sub> Films on Silicon by Atomic Layer Deposition for Solar Cell Applications**  
Dönerçark E., İmer M. B., Turan R.  
MRS Fall Meeting & Exhibit 2018, Massachusetts, United States Of America, 25 November 2018 - 30 November 2019, pp.956
- VI. **Transparent Thin-Film Heaters Based on Atomic Layer Deposited Oxides onto Copper Nanowire Networks**  
Ünal H. E., Tigan D., Polat Genlik S., İmer M. B.  
Materials Research Society Fall Meeting 2018, Massachusetts, United States Of America, 25 - 30 November 2018, pp.1
- VII. **Transparent Thin Film Heaters Based on Copper Nanowire Networks**  
Tigan D., Polat Genlik S., İmer M. B., Ünal H. E.  
19th International Metallurgy and Materials Congress, İstanbul, Turkey, 25 - 27 October 2018, pp.584

- VIII. **Copper Nanowire Network Transparent Thin-Film Heaters**  
tigan d., POLAT GENLİK S., İMER M. B. , ÜNALAN H. E.  
MRS Fall Meeting 2017, 26 November 2017
- IX. **A Comparative Analysis of Ternary Element Addition on Corrosion Behavior of Aluminide Coatings in Harsh Environmental Conditions**  
ERTÜRK U., İMER M. B.  
44th International Conference on Metallurgical Coatings and Thin Films – ICMCTF, SAN DIEGO, United States Of America, 24 - 28 April 2017
- X. **Modelling of IN 738 LC Alloy Mechanical Properties based on Microstructural Evolution Simulations for Different Heat Treatment Conditions**  
BOYRAZ M. T. , İMER M. B.  
44th International Conference on Metallurgical Coatings and Thin Films – ICMCTF, SAN DIEGO, United States Of America, 24 - 28 April 2017
- XI. **Sustainability in RD Labs**  
İMER M. B.  
Yeni Türkiye Stratejik Araştırma Merkezi (YTSAM), Uluslararası Bilim ve Teknoloji Konferansı, Ankara, Turkey, 3 - 06 October 2016
- XII. **Aluminide Coating Simulations**  
BOYRAZ M. T. , İMER M. B.  
THERMAM, İzmir, Turkey, 1 - 03 September 2016
- XIII. **Optimization of chemical vapor deposition process parameters for aluminizing**  
ERTÜRK U., İMER M. B.  
THERMAM, İzmir, Turkey, 1 September - 03 June 2016
- XIV. **A Comparative Analysis of Silver Nanowire Network Indium Tin Oxide and Traditional Metal Contacts for Nitride Light Emitting Diodes**  
Açan M. B. , COŞKUN Ş., ÜNALAN H. E. , İMER M. B.  
MRS Fall Meeting' 2015, 29 November - 04 December 2015
- XV. **III Nitrides Past Now and Then**  
İMER M. B.  
SSL-TR 2013 - International Workshop on Solid State Lighting Technologies and Research 2013: LEDs and OLEDs, İstanbul, Turkey, 20 - 21 August 2013
- XVI. **Cleanroom Micro Nanofabrication Process Technology III**  
İMER M. B.  
UNAM International Workshop on Cleanroom Training for Critical Sustainable Technologies – Renewable Energy, Ankara, Turkey, 24 June - 06 July 2013
- XVII. **The European Commission Danube Strategy as a West East co operation High Added Manufacturing Value**  
İMER M. B.  
Manufacture Village Workshop, 6th International Working Conference-Total Quality Management – Advanced and Intelligent Approaches, Belgrade, Serbia And Montenegro, 6 - 11 June 2011
- XVIII. **Nanoteknolojide Değer Yaratma Ar Ge Buluş İnovasyon ve Girişimcilik**  
İMER M. B.  
Hacettepe Üniversitesi Nanoteknoloji Günleri 'xx11, Ankara, Turkey, 3 - 04 May 2011
- XIX. **Epitaxial Material Thin Film Growth Techniques Equipment Theory**  
İMER M. B.  
UNAM International Workshop on Cleanroom Training, Ankara, Turkey, 21 June - 04 July 2010
- XX. **Technology Investment Strategies in European Energy Market and the Role of Industry and Academia Collaboration**  
İMER M. B.  
EU Research Connection 2009, PRAG, Czech Republic, 7 - 08 May 2009
- XXI. **A New Revolution in Technology Nanotechnology**

İMER M. B.

International Fair of Bucharest (TIB) 2008, BÜKREŞ, Romania, 10 - 12 October 2008

**XXII. MOCVD büyütme metodu ve teorisi**

İMER M. B.

Fotonik Malzemeler ve Aygıtlar Lisansustu Yaz Okulu, Sivas, Turkey, 19 - 23 May 2008

**XXIII. Temperature-dependent radiative lifetimes of excitons in non-polar GaN/AlGaIn quantum wells**

Rudin S., Garrett G. A., Shen H., Wraback M., Imer B., Haskell B., Speck J. S., Keller S., Nakamura S., DenBaars S. P.  
28th International Conference on the Physics of Semiconductors (ICPS-28), Vienna, Austria, 24 - 28 July 2006,  
vol.893, pp.315-316

**XXIV. Polarization Anisotropy in Nonpolar GaN films studied by polarized photoreflectance spectroscopy**

BEHN U., MISRA P., GRAHN H., İMER M. B., NAKAMURA S., DENBAARS S. P., SPECK J. S.

The International Symposium on Blue Laser and Light Emitting Diodes (ISBLLED) 2006, Montpellier, France, 15 - 19 May 2006

**XXV. Temperature dependent Radiative Lifetime of Excitons in Non polar GaN AlGaIn Quantum Wells**

RUDIN S., GARRETT G., SHEN P., WRABACK M., İMER M. B., HASKELL B., SPECK J. S., KELLER S., NAKAMURA S., DENBAARS S. P.

IEEE International Semiconductor Device Research Symposium, BETHESDA, United States Of America, 7 - 09 December 2005

**XXVI. A New Approach to Defect Reduction in Non polar a GaN Sidewall Lateral Epitaxial Overgrowth SLEO**

İMER M. B., WU F., SPECK J. S., DENBAARS S. P.

6th International Conference on Nitride Semiconductors (ICNS), Bremen, Germany, 29 August - 02 September 2005

**XXVII. Optical Polarization Anisotropy in Strained A Plane GaN Films on R Plane Sapphire**

GHOSH S., MISRA P., GRAHN H. T., İMER M. B., NAKAMURA S., DENBAARS S. P., SPECK J. S.

6th International Conference on Nitride Semiconductors (ICNS), Bremen, Germany, 29 August - 02 September 2005

**XXVIII. Growth of Planar Non Polar 1 1 0 0 m Plane GaN Over mPlaneSiC by Metalorganic Chemical Vapor Deposition MOCVD**

İMER M. B., WU F., SPECK J. S., DENBAARS S. P.

47th Electronic Materials Conference (EMC), Santa-Barbara, United States Of America, 22 - 24 June 2005

**XXIX. Structural and electrical characterization of a-plane GaN grown on a-plane SiC**

Craven M., Chakraborty A., Imer B., Wu F., Keller S., Mishra U., Speck J., DenBaars S.

5th International Conference on Nitride Semiconductors (ICNS-5), Nara, Japan, 25 - 30 May 2003, vol.0, pp.2132-2135

**XXX. Microstructure Evolution in BZT Ceramics Processed at Low Temperature**

İMER M. B., NETTLESHIP I., PHULE P.

102nd Annual Meeting Exposition of American Ceramic Society, ST. LOUIS, United States Of America, 29 April - 03 May 2001

## Supported Projects

YERÇİ S., İMER M. B., AYAN A., Project Supported by Higher Education Institutions, Boşluk üzerinde germanyum yapısının metal yardımcı aşındırma ve tavlama ile üretilmesi, 2017 - 2019

İMER M. B., Project Supported by Higher Education Institutions, SIKILANMIŞ GRAFİTLİ DÖKME DEMİRLERDE KAPALI KAP TERMAL ANALİZİYLE KATILAŞMA MORFOLOJİSİNİN KONTROLÜ, 2017 - 2017

İMER M. B., Project Supported by Higher Education Institutions, SIKIŞTIRMA VE YÜKSEK BASINÇLI KALIP DÖKÜM YÖNTEMİYLE METAL MATRİXLİ KOMPOZİT ÜRETİMİ, 2017 - 2017

YERÇİ S., AYAN A., İMER M. B., Project Supported by Higher Education Institutions, Boşluk üzerinde silisyum yapısının metal yardımcı aşındırma ve tavlama ile üretilmesi, 2016 - 2016

İMER M. B., Project Supported by Higher Education Institutions, Plazmonik Yapılar ile Mavi LED'lerin Kuantum

## Patent

İmer M. B. , Denbaars S., Speck J., Nakamura S., Growth of planar non-polar {1-1 0 0} m-plane gallium nitride with metalorganic chemical vapor deposition (MOCVD), Patent, CHAPTER G Physics, The Invention Registration Number: 7338828 , Initial Registration, 2008

İmer M. B. , Denbaars S., Speck J., Defect reduction of non-polar and semi-polar III-Nitrides with sidewall lateral epitaxial overgrowth (SLEO), Patent, CHAPTER G Physics, The Invention Registration Number: 7361576 , Initial Registration, 2008

## Scientific Refereeing

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Middle East Technical University, Turkey, November 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Ozyegin University, Turkey, May 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Ankara University, Turkey, May 2021

TUBITAK Project, 1509 - TÜBİTAK International Industry R&D Projects Support Program, BOSCH, Turkey, August 2020

TUBITAK Project, 3001 - Initial R&D Projects Support Program, Alanya Alaaddin Keykubat University, Turkey, July 2020

TUBITAK Project, 2244 - Industrial Phd. Program Project, Gazi University, Turkey, April 2020

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Inonu University, Turkey, July 2019

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Yildiz Technical University, Turkey, July 2019

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Erzurum Technical University, Turkey, July 2019

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Erciyes University, Turkey, July 2019

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, APSILON, Turkey, July 2018

TUBITAK Project, 1501 - Industry R & D Projects Support Program, VESTEL, Turkey, July 2018

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, May 2018

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, May 2018

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, May 2018

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TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, May 2018

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, May 2018

TUBITAK Project, 1511 - TUBITAK Priority Fields Research Technology Development and Innovation PDP, ASELSAN, Turkey, November 2017

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, October 2017

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, October 2017

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, October 2017

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, October 2017

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, October 2017

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, October 2017

TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, TUBITAK MAM, Turkey, August 2017

TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, Abdullah Gul University, Turkey, August 2017

TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, Izmir Katip Celebi University, Turkey, August 2017

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, July 2017

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, July 2017

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, July 2017

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, July 2017

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, July 2017

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, July 2017

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, July 2017

TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, GİRİŞİMCİLER İÇİN GEÇİCİ KURULUŞ, Turkey, July 2017

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