

## Prof. ÖMER NECATİ CORA

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAE-7136-2020

ScopusID: 25926994400

Yoksis Researcher ID: 22901

### Education Information

Post Doctorate, Virginia Commonwealth University, Department of Mechanical and Nuclear Engineering, NSF Industry/University Cooperative Research Center for Precision Forming, United States Of America 2010 - 2011

Doctorate, Virginia Commonwealth University, School of Engineering, Department of Mechanical and Nuclear Engineering, United States Of America 2006 - 2009

Doctorate, Middle East Technical University, Faculty Of Engineering, Makine Mühendisliği Bölümü, Turkey 2005 - 2006

Postgraduate, Middle East Technical University, Faculty Of Engineering, Makine Mühendisliği Bölümü, Turkey 2000 - 2004

Undergraduate, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 1996 - 2000

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Die Wear Test Development for Stamping of Ultra/Advanced High Strength Steels (U/AHSS) Sheet Blanks, Virginia Commonwealth University, School Of Engineering, Department Of Mechanical Engineering, 2009

Postgraduate, FRICTION ANALYSIS IN COLD FORGING, Middle East Technical University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2004

### Research Areas

Mechanical Engineering, Energy, Hydrogen Technologies and Fuel Cells , Construction and Manufacturing, Tribology, Non-traditional manufacturing methods, Plastic Forming Methods, Mechanical, Solid Mechanics, Finite Element Methods, Mechanical Testing, Continuous Mechanics, Engineering and Technology

## Academic Titles / Tasks

Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2023 - Continues  
Associate Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2017 - 2023  
Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2011 - 2017  
Medical Doctor, Virginia Commonwealth University, School of Engineering, Department of Mechanical Engineering, 2010 - 2011  
Research Assistant, Virginia Commonwealth University, School of Engineering, Department of Mechanical Engineering, 2007 - 2009  
Researcher, Virginia Commonwealth University, School of Engineering, Department of Mechanical Engineering, 2006 - 2007

## Academic and Administrative Experience

Vice Dean, Karadeniz Technical University, Mühendislik Fakültesi, 2024 - Continues  
Deputy Head of Department, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2022 - 2024  
Erasmus Program Department Coordinator, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, 2012 - 2024

## Courses

MICROMECHANICS AND MICROENGINEERING, Postgraduate, 2021 - 2022  
BIOMIMETICS, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2017 - 2018  
TASARIM PROJESİ (I. ÖĞRETİM), Undergraduate, 2014 - 2015  
STATİK (SDBF GEMİ İNŞ. VE GEMİ MAK. MÜH. BÖLÜMÜ), Undergraduate, 2014 - 2015, 2012 - 2013  
STATİK VE MUKAVEMET (MET. MALZ. MÜH BÖLÜMÜ), Undergraduate, 2014 - 2015, 2013 - 2014  
TASARIM PROJESİ (II. ÖĞRETİM), Undergraduate, 2014 - 2015  
DYNAMICS (B), Undergraduate, 2014 - 2015  
MUKAVEMET1, Undergraduate, 2014 - 2015, 2013 - 2014  
DYNAMICS (C), Undergraduate, 2014 - 2015  
İŞ HAYATINDA İNGİLİZCE, Undergraduate, 2014 - 2015, 2013 - 2014  
DİNAMİK (MADEN MÜH. BÖLÜMÜ), Undergraduate, 2014 - 2015  
STATİK (II. ÖĞRETİM), Undergraduate, 2014 - 2015  
STATİK (I. ÖĞRETİM), Undergraduate, 2014 - 2015  
DİNAMİK (MADEN MÜH. BÖLÜMÜ; II. ÖĞRETİM), Undergraduate, 2014 - 2015  
BİTİRME ÇALIŞMASI, Undergraduate, 2013 - 2014  
STATICS AND STRENGTH OF MATERIALS (MET. MALZ. MÜH BÖLÜMÜ), Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012  
DİNAMİK (SDBF GEMİ İNŞ. VE GEMİ MAK. MÜH. BÖLÜMÜ), Undergraduate, 2013 - 2014

## Advising Theses

CORA Ö. N., BAZI CAM VE PLASTİK ESASLI ŞEFFAF MALZEMELERİN KATI PARÇACIK EROZYON PERFORMANSLARININ İNCELENMESİ, Postgraduate, M.Hussain(Student), 2020  
CORA Ö. N., RAMOR 500 VE RAMOR 550 ZIRH ÇELİKLERİNİN BALİSTİK PERFORMANSININ İNCELENMESİ, Postgraduate, M.Latif(Student), 2019  
CORA Ö. N., KATI OKSİT YAKIT PİLİ İNTERKONNEKTÖRLERİNİN TOZ METALURJİSİ YÖNTEMİYLE ÜRETİMİ VE PERFORMANSLARININ İNCELENMESİ, Postgraduate, A.TOPCU(Student), 2017

## Jury Memberships

Competition, TEKNOFEST 2022 Sanayide Dijital Teknolojiler Yarışması, TEKNOFEST 2022 Sanayide Dijital Teknolojiler Yarışması, March, 2022

Competition, TEKNOFEST 2021, TECHNOFEST 2021 - Technology for Humanity - Social Innovation Competition, September, 2021

Competition, TEKNOFEST 2020 , Technofest 2020 Education Technologies Competition, May, 2020

Competition, TEKNOFEST 2019 - İNSANLIK YARARINA TEKNOLOJİLER Kategorisi Jüri Üyeliği, TEKNOFEST 2019 - İNSANLIK YARARINA TEKNOLOJİLER Yarışma Kategorisi Jüri Üyeliği, September, 2019

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

- I. **Challenges and Future Perspectives on Production, Storage Technologies, and Transportation of Hydrogen: A Review**  
Omid M. A., ŞAHİN M. E., CORA Ö. N.  
Energy Technology, vol.12, no.4, 2024 (SCI-Expanded)
- II. **Fabrication and optimization of PES/PVP hollow fiber membranes using Box-Behnken model and CART algorithm**  
Farooq A., CORA Ö. N.  
Journal of Applied Polymer Science, vol.141, no.12, 2024 (SCI-Expanded)
- III. **Ballistic performances of Ramor 500, Armox Advance and Hardox 450 steels under monolithic, double-layered, and perforated conditions**  
Acar D., Canpolat B. H., Cora Ö. N.  
ENGINEERING SCIENCE AND TECHNOLOGY, AN INTERNATIONAL JOURNAL, vol.51, no.101653, pp.1-8, 2024 (SCI-Expanded)
- IV. **Effect of Process Parameters on the Solid Particle Erosion Resistance of Transparent Materials**  
Acar D., Danesh M. H., Cora Ö. N.  
TRIBOLOGY IN INDUSTRY, vol.45, no.4, pp.604-617, 2023 (SCI-Expanded)
- V. **Effect of Plastic Deformation on the Mechanical Properties of Dual-Phase Steels Using Nanoindentation**  
Ekmekci D., UŞUN A., CORA Ö. N.  
JOM, vol.75, no.7, pp.2246-2255, 2023 (SCI-Expanded)
- VI. **Characterization of Al<sub>2</sub>Ti/Al<sub>3</sub>Ti-based intermetallic and Al<sub>2</sub>O<sub>3</sub>/TiO<sub>2</sub>-based oxide composite coatings fabricated on Ti6Al4V alloy**  
Aktuğ S. L., Acar D., Cora Ö. N., Durdu S.  
KOVOLVE MATERIALY, vol.65, no.5, pp.339-350, 2023 (SCI-Expanded)
- VII. **Additive manufacturing of PEEK-based continuous fiber reinforced thermoplastic composites with high mechanical properties**  
Vatandas B. B., UŞUN A., Yıldız N., Simsek C., CORA Ö. N., ASLAN M., GÜMRÜK R.  
COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING, vol.167, 2023 (SCI-Expanded)
- VIII. **Comparison of Mechanical Properties Obtained for Armor Steels: Conventional Methods vs. Nanoindentation**  
Ekmekci D., CORA Ö. N.  
Journal of Testing and Evaluation, vol.51, no.4, 2023 (SCI-Expanded)
- IX. **Performance evaluation of machined and powder metallurgically fabricated Crofer (R) 22 APU interconnects for SOFC applications**

- Topcu A., ÖZTÜRK B., CORA Ö. N.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.5, pp.3437-3448, 2022 (SCI-Expanded)
- X. **Ballistic performances of Ramor 500 and Ramor 550 armor steels at mono and bilayered plate configurations**  
Bekci M. L., Canpolat B. H., Usta E., Guler M. S., CORA Ö. N.  
ENGINEERING SCIENCE AND TECHNOLOGY-AN INTERNATIONAL JOURNAL-JESTECH, vol.24, no.4, pp.990-995, 2021 (SCI-Expanded)
- XI. **Influence of processing parameters on the porosity, thermal expansion, and oxidation behavior of consolidated Fe22Cr stainless steel powder**  
ÖZTÜRK B., Topcu A., CORA Ö. N.  
POWDER TECHNOLOGY, vol.382, pp.199-207, 2021 (SCI-Expanded)
- XII. **Effect of indentation loading type on the mechanical properties of advanced high strength steel grade DP 800**  
Ekmekci D., CORA Ö. N.  
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.126, no.11, 2020 (SCI-Expanded)
- XIII. **Numerical optimization of warm hydromechanical deep drawing process parameters and its experimental verification**  
Türköz M., Cora Ö. N., Gedikli H., Dilmeç M., Halkacı H. S., Koç M.  
JOURNAL OF MANUFACTURING PROCESSES, vol.57, no.57, pp.344-353, 2020 (SCI-Expanded)
- XIV. **Uniaxial and biaxial deformation characteristics of AA7075-O friction stir welded joints**  
ACAR D., Karalı M., CORA Ö. N., Burford D., Koç M.  
Welding in the World, vol.64, no.9, pp.1553-1564, 2020 (SCI-Expanded)
- XV. **Micro Deep Drawability of the Superplastic Zn-22Al Alloy at a High Strain Rate and Room Temperature**  
Cetin M. E., CORA Ö. N., SOFUOĞLU H.  
JOURNAL OF ENGINEERING MATERIALS AND TECHNOLOGY-TRANSACTIONS OF THE ASME, vol.142, no.1, 2020 (SCI-Expanded)
- XVI. **Formability of Ultrasonically Additive Manufactured Ti-Al Thin Foil Laminates**  
Kaya I., CORA Ö. N., KOÇ M.  
MATERIALS, vol.12, no.20, 2019 (SCI-Expanded)
- XVII. **On the Formability of Ultrasonic Additive Manufactured Al-Ti Laminated Composites**  
Kaya I., CORA Ö. N., ACAR D., KOÇ M.  
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.10, pp.5051-5064, 2018 (SCI-Expanded)
- XVIII. **Oxidation, electrical and mechanical properties of Crofer (R) 22 solid oxide fuel cell metallic interconnects manufactured through powder metallurgy**  
ÖZTÜRK B., TOPCU A., ÖZTÜRK S., CORA Ö. N.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.23, pp.10822-10833, 2018 (SCI-Expanded)
- XIX. **Effects of friction models on the compaction behavior of copper powder**  
Guner F., CORA Ö. N., SOFUOĞLU H.  
TRIBOLOGY INTERNATIONAL, vol.122, pp.125-132, 2018 (SCI-Expanded)
- XX. **Warm Hydromechanical Deep Drawing of AA 5754-0 and Optimization of Process Parameters**  
ACAR D., Turkoz M., GEDİKLİ H., Halkaci H. S., CORA Ö. N.  
JOURNAL OF ENGINEERING MATERIALS AND TECHNOLOGY-TRANSACTIONS OF THE ASME, vol.140, no.1, 2018 (SCI-Expanded)
- XXI. **Microindentation on the porous copper surface modulations**  
Ekmekci D., Yilmaz F., Kolemen U., CORA Ö. N.  
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.123, no.11, 2017 (SCI-Expanded)
- XXII. **Thermal conductivity of different colored compomers**  
GÜLER Ç., KELEŞ A., GÜLER M. S., KARAGÖZ Ş., CORA Ö. N., Keskin G.  
JOURNAL OF APPLIED BIOMATERIALS & FUNCTIONAL MATERIALS, vol.15, no.4, 2017 (SCI-Expanded)

- XXIII. **Enhanced Magnetic Properties of Nd<sub>15</sub>Fe<sub>77</sub>B<sub>8</sub> Alloy Powders Produced by Melt-Spinning Technique**  
ÖZTÜRK S., İÇİN K., ÖZTÜRK B., TOPAL U., Odabasi H. K., GÖBÜLÜK M., CORA Ö. N.  
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.10,  
pp.5017-5030, 2017 (SCI-Expanded)
- XXIV. **Effects of grain size on room temperature deformation behavior of Zn-22Al alloy under uniaxial and biaxial loading conditions**  
CETIN M. E., DEMIRTAS M., SOFUOĞLU H., CORA Ö. N., PÜRÇEK G.  
MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.672, pp.78-87, 2016 (SCI-Expanded)
- XXV. **An investigation of contact interactions in powder compaction process through variable friction models**  
Guner F., SOFUOĞLU H., CORA Ö. N.  
TRIBOLOGY INTERNATIONAL, vol.96, pp.1-10, 2016 (SCI-Expanded)
- XXVI. **Numerical modeling of cold powder compaction using multi particle and continuum media approaches**  
Guner F., CORA Ö. N., SOFUOĞLU H.  
POWDER TECHNOLOGY, vol.271, pp.238-247, 2015 (SCI-Expanded)
- XXVII. **Effect of manufacturing process sequence on the corrosion resistance characteristics of coated metallic bipolar plates**  
Dur E., Cora O. N., Koç M.  
JOURNAL OF POWER SOURCES, vol.246, pp.788-799, 2014 (SCI-Expanded)
- XXVIII. **Investigation of the effects of process sequence on the contact resistance characteristics of coated metallic bipolar plates for polymer electrolyte membrane fuel cells**  
TURAN C., Cora O. N., KOÇ M.  
JOURNAL OF POWER SOURCES, vol.243, pp.925-934, 2013 (SCI-Expanded)
- XXIX. **Contact resistance characteristics of coated metallic bipolar plates for PEM fuel cells - investigations on the effect of manufacturing**  
Turan C., Cora O. N., Koç M.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.37, no.23, pp.18187-18204, 2012 (SCI-Expanded)
- XXX. **Die wear in stamping of advanced high strength steels - Investigations on the effects of substrate material and hard-coatings**  
CORA Ö. N., Agcayazi A., Namiki K., SOFUOĞLU H., Koc M.  
TRIBOLOGY INTERNATIONAL, vol.52, pp.50-60, 2012 (SCI-Expanded)
- XXXI. **Investigations on the variation of corrosion and contact resistance characteristics of metallic bipolar plates manufactured under long-run conditions**  
Peker M. F., CORA Ö. N., Koc M.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.36, no.23, pp.15427-15436, 2011 (SCI-Expanded)
- XXXII. **Effect of manufacturing processes on contact resistance characteristics of metallic bipolar plates in PEM fuel cells**  
Turan C., Cora O. N., Koc M.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.36, no.19, pp.12370-12380, 2011 (SCI-Expanded)
- XXXIII. **Experimental investigations on the corrosion resistance characteristics of coated metallic bipolar plates for PEMFC**  
Dur E., Cora O. N., Koc M.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.36, no.12, pp.7162-7173, 2011 (SCI-Expanded)
- XXXIV. **Effect of manufacturing conditions on the corrosion resistance behavior of metallic bipolar plates in proton exchange membrane fuel cells**  
Dur E., Cora O. N., Koc M.  
JOURNAL OF POWER SOURCES, vol.196, no.3, pp.1235-1241, 2011 (SCI-Expanded)
- XXXV. **An experimental study on the comparative assessment of hydraulic bulge test analysis methods**  
Koc M., Billur E., Cora O. N.

- MATERIALS & DESIGN, vol.32, no.1, pp.272-281, 2011 (SCI-Expanded)
- XXXVI. **Effect of manufacturing processes on formability and surface topography of proton exchange membrane fuel cell metallic bipolar plates**  
Mahabunphachai S., Cora O. N., Koc M.  
JOURNAL OF POWER SOURCES, vol.195, no.16, pp.5269-5277, 2010 (SCI-Expanded)
- XXXVII. **Microscale-modulated porous coatings: fabrication and pool-boiling heat transfer performance**  
Cora O. N., Min D., Koc M., Kaviany M.  
JOURNAL OF MICROMECHANICS AND MICROENGINEERING, vol.20, no.3, 2010 (SCI-Expanded)
- XXXVIII. **Experimental investigations on wear resistance characteristics of alternative die materials for stamping of advanced high-strength steels (AHSS)**  
Cora O. N., Koc M.  
INTERNATIONAL JOURNAL OF MACHINE TOOLS & MANUFACTURE, vol.49, pp.897-905, 2009 (SCI-Expanded)
- XXXIX. **Wear performance assessment of alternative stamping die materials utilizing a novel test system**  
Cora O. N., Namiki K., Koc M.  
WEAR, vol.267, pp.1123-1129, 2009 (SCI-Expanded)
- XL. **2-D and 3-D modulated porous coatings for enhanced pool boiling**  
Min D. H., Hwang G. S., Usta Y., Cora O. N., Koc M., Kaviany M.  
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.52, pp.2607-2613, 2009 (SCI-Expanded)
- XLI. **Micro-manufacturing of micro-scale porous surface structures for enhanced heat transfer applications: an experimental process optimization study**  
Cora O. N., Usta Y., Koç M.  
JOURNAL OF MICROMECHANICS AND MICROENGINEERING, vol.19, no.4, 2009 (SCI-Expanded)
- XLII. **Modelling of variable friction in cold forging**  
Cora O. N., Akkoek M., DARENDELİLER H.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART J-JOURNAL OF ENGINEERING TRIBOLOGY, vol.222, pp.899-908, 2008 (SCI-Expanded)

## Articles Published in Other Journals

- I. **DEVELOPING A MOTION MECHANISM FOR A SINGLE MODULE IN A SELF-RECONFIGURABLE MODULAR MICROROBOTICS SYSTEM BY USING EXTERNAL MAGNETIC ACTUATORS**  
Dokuyucu H. I., Özmen N., Cora Ö. N.  
Uludağ University Journal of the Faculty of Engineering, vol.27, no.3, pp.1061-1080, 2022 (Peer-Reviewed Journal)
- II. **Comparison of numerical analyses of a composite wing component subjected to 4-point bending**  
Bisagni C., Raimondo A., Atanasovska I., Milic M., Troian R., Frulla G., Polla A., CORA Ö. N., Bekci M., Henriques B., et al.  
Composites Part C: Open Access, vol.8, 2022 (ESCI)
- III. **Solid particle erosion performance of micro-arc oxidation and electro spark deposition coated Ti6Al4V sheets**  
Acar D., Aktuğ S. L., Korkmaz K., Durdu S., Cora Ö. N.  
The International Journal of Materials and Engineering Technology, vol.5, no.1, pp.28-32, 2022 (Peer-Reviewed Journal)
- IV. **Thermal expansion, porosity, and microhardness properties of solid oxide fuel cell metallic interconnects manufactured by powder metallurgy approach**  
Topcu A., Yalçın Ö. F., Öztürk B., Cora Ö. N.  
Turkish Journal of Electromechanics and Energy, vol.6, no.3, pp.123-130, 2021 (Peer-Reviewed Journal)
- V. **State of the art review on the Cu(In,Ga)Se<sub>2</sub> thinfilm solar cells**  
OMID M. A., CORA Ö. N.  
Turkish Journal of Electromechanics and Energy, vol.5, no.2, pp.74-82, 2020 (Peer-Reviewed Journal)
- VI. **Experimental and Numerical Investigation of Thickness Distribution in Forming of Superplastic Zn-**

## **22Al Alloy**

ÇETİN M. E., DEMİRTAŞ M., PÜRÇEK G., CORA Ö. N., SOFUOĞLU H.

ACADEMIC PERSPECTIVE PROCEDIA, vol.1, no.1, pp.1034-1040, 2018 (Peer-Reviewed Journal)

### **VII. İlk Hidromekanik Derin Çekme Prosesinde Optimum Şekillendirme Parametrelerinin Belirlenmesi**

ACAR D., TÜRKÖZ M., DİLMEÇ M., HALKACI H. S., GEDİKLİ H., CORA Ö. N.

Ordu Üniversitesi Bilim ve Teknoloji Dergisi, vol.6, no.2, pp.38-47, 2016 (Peer-Reviewed Journal)

### **VIII. MİKRO İMALAT YÖNTEMİYLE YÜZEY ŞEKİLLENDİRMEİNİN DENTAL İMPLANT UYGULAMALARINDAKİ OSSEOİNTEGRASYONA ETKİSİ**

KÖSE S., CORA Ö. N., SOFUOĞLU H.

Süleyman Demirel Üniversitesi Mühendislik Bilimleri ve Tasarım Dergisi, vol.2, no.3, pp.221-227, 2014 (Peer-Reviewed Journal)

### **IX. Mikro İmalat Yöntemiyle Yüzey Şekillendirmenin Dental İmplant Uygulamalarındaki Osseointegrasyona Etkisi**

Köse S., CORA Ö. N., SOFUOĞLU H.

Süleyman Demirel Üniversitesi Mühendislik Bilimleri ve Tasarım Dergisi, vol.2, no.3, pp.221-227, 2014 (Peer-Reviewed Journal)

### **X. Parametric Investigation of Circular and Elliptical Bulge Test in Warm Hydroforming Process for AA5754-O**

CORA Ö. N., GEDİKLİ H., KOÇ M.

Key Engineering Materials, vol.473, pp.594-601, 2011 (Scopus)

## **Books & Book Chapters**

### **I. Defect Types**

Faisal N., CORA Ö. N., BEKÇİ M. L., Śliwa R. E., Sternberg Y., Pant S., Degenhardt R., Prathuru A.

in: Structural Health Monitoring Damage Detection Systems for Aerospace, Sause, Markus G. R.; Jasiūnienė, Elena, Editor, Springer Nature Switzerland AG, Cham, pp.15-72, 2021

### **II. Warm Hydroforming**

KOÇ M., CORA Ö. N., HALKACI H. S., TÜRKÖZ M.

in: Modern Manufacturing Processes, Koç M., Özel T., Editor, John Wiley & Sons Inc., Hoboken, Nj, pp.219-238, 2019

### **III. Micromanufacturing**

CORA Ö. N., KOÇ M.

in: Modern Manufacturing Processes, Koç Muammer, Özel Tuğrul, Editor, John Wiley Sons Inc., Hoboken, NJ, pp.149-184, 2019

### **IV. Introduction and State of the Art of the Hydroforming**

KOÇ M., CORA Ö. N.

in: Hydroforming for Advanced Manufacturing, Muammer Koç, Editor, Woodhead, pp.1-29, 2008

## **Refereed Congress / Symposium Publications in Proceedings**

### **I. Size Effect For Graphene: A Review**

Abdullayev H., Cora Ö. N.

5th International Conference of Materials and Engineering Technology (TICMET'23), Trabzon, Turkey, 13 - 16 November 2023, pp.422

### **II. Effect of Laser Surface Texturing on the Tribological Performance of Ultra High-Molecular Weight Polyethylene Materials**

Çavrar T., Bičišťová R., Primus T., Hauschwitz., Brajer J., Cora Ö. N.

5th International Conference of Materials and Engineering Technology (TICMET'23), Trabzon, Turkey, 13 - 16 November 2023, pp.431

- III. **Solid Particle Erosion Performance of Drone Propeller Materials**  
Acar D., Meriç D., Gedikli H., Schulz A., Cora Ö. N.  
The 5th International Conference of Materials and Engineering Technology, Trabzon, Turkey, 13 - 15 November 2023, pp.1
- IV. **Novel Sensor Applications in Aeronautics and Harsh Environments**  
Cora Ö. N.  
Training School on Inspection, Signal Processing, Identification and Analysis (INSIGNIA), COST Action CA18203 - Optimising Design for Inspection, Ohrid, Macedonia, 18 - 20 September 2023
- V. **Mechanical Property Mapping for Dual Phase (DP) Steels**  
Setty M., Annasamy M., Cora Ö. N.  
COST Action CA21121 MecaNano General Meeting 2023, Madrid, Spain, 26 - 27 April 2023, pp.1
- VI. **An Overview on Aircraft Design and Aircraft Structure Optimisation**  
Cora Ö. N.  
Training School on Optimisation, Design and INtegration, Rouen, France, 12 - 14 April 2023, pp.1-74
- VII. **Mode-I Fracture Toughness Evaluation of a 20-ply Composite Panel**  
Cora Ö. N., Bekci M. L., Naaman M., Pullin R., Pearson M.  
12th EASN International Conference on "Innovation in Aviation & Space for opening New Horizons", Barcelona, Spain, 18 - 21 October 2022, pp.1
- VIII. **Friction Stir Welding of Ultrasonically Consolidated Laminated Metal Composites with Aluminum Sheets**  
Acar D., Klobčar D., Uroš T., Cora Ö. N.  
European Conference on Composite Materials ECCM20, Lausanne, Switzerland, 26 - 30 June 2022, pp.1
- IX. **Investigations on the Micro-Scale Surface Interactions and Tribological Size Effect in MicroStamping of SS316L Sheet**  
Peker M. F., Gedikli H., Cora Ö. N., Koç M.  
23rd World Hydrogen Energy Conference (WHEC 2022), İstanbul, Turkey, 26 - 30 June 2022, pp.1
- X. **Hydrogen Transportation Options and Challenges**  
Omid M. A., Koç M., Cora Ö. N.  
23rd World Hydrogen Energy Conference (WHEC 2022), İstanbul, Turkey, 26 - 30 June 2022, pp.1
- XI. **Surface Topography Evaluation During Long-Run Micro-Stamping of BPPs and Its Effect on Corrosion and Contact Resistance Characteristics**  
Peker M. F., Gedikli H., Cora Ö. N., Koç M.  
23rd World Hydrogen Energy Conference (WHEC 2022), İstanbul, Turkey, 26 - 30 June 2022, pp.1
- XII. **CHALLENGES AND EXPECTATIONS FOR BATTERY MANAGEMENT SYSTEMS IN ELECTRIC VEHICLES: A REVIEW**  
Cora Ö. N., Farooq A.  
The International Conference of Young Scientists on Energy and Natural Sciences Issues (CYSENI 2022) , Kaunas, Lithuania, 24 - 27 May 2022, pp.155-159
- XIII. **APPLICATIONS OF AUXETIC MATERIALS**  
Çetin T., Cora Ö. N.  
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- C. Micro-stamping of PEMFC Bipolar Plates-investigations on the Effect Coating and Surface Quality Interactions on the Corrosion Resistance Characteristics of Micro-channeled Metallic Surface Areas**  
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- CIII. Investigations on Die Life and Tribological Issues in Micro-stamping of Metallic Bipolar Plates for Fuel Cells**  
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- CIV. Investigations on the Impact of Manufacturing Process on PEM Fuel Cell Bipolar Plate Corrosion and Contact Resistance Behavior**  
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- CV. Material Characterization of Ultrasonically Consolidated Laminated Ti-Al Composites (UC-LMC)**  
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Of America, 17 - 21 October 2010

- CVI. Investigations on the Formability and Surface Topography of Micro-Channel Arrays on Large Area Plates – PEMFC Metallic Bipolar Plates**  
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- CVII. Experimental investigations on wear resistance characteristics of alternative die materials for stamping of Advanced High Strength Steels (AHSS)**  
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- CVIII. Investigation of stainless steel powder compaction process for manufacturing of micro-porous surface feature**  
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International Conferences on Multi-Material Micro Manufacture, 4M/International Conferences on Micro Manufacturing, ICOMM 2009, Karlsruhe, Germany, 23 - 25 September 2009, vol.2009, pp.119-122
- CIX. Influence of substrate material on wear performance of stamping dies utilizing a new die wear test system**  
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ASME International Conference on Manufacturing Science and Engineering, Georgia, United States Of America, 15 - 18 October 2007, pp.873-879
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International German Summer School 2006 on Aviation, Weather and Atmosphere, Braunschweig, Germany, 21 August - 01 September 2006, pp.1
- CXIII. Metal Şekillendirme İşlemlerinin Benzetiminde Sürtünme Katsayısının Kullanıcı Alt Programları (user-subroutine) ile Değişken Hale Getirilmesi**  
CORA Ö. N., Darendeliler H., Akkök M.  
Bilgisayar Destekli Mühendislik ve MSC Software Kullanıcı Konferansı '06, İstanbul, Turkey, 1 - 02 June 2006, pp.159-171

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- I. Value-Added Manufacturing for Energy and Transportation Industries**  
CORA Ö. N.  
Presentation, pp.1-6, 2017
- II. AA 5754-O Alaşımının İlk Hidroşekillendirilmesinde Etkin Olan Parametrelerin Optimizasyonu, BİAS Kullanıcı Konferansı 2015**  
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- GÜMRÜK R., ÇUVALCI H., CORA Ö. N., VAROL T., ASLAN M., UZUNALI U. Y., UŞUN A., ÇAVA K., KULEYİN H., Project Supported by Higher Education Institutions, Sürekli Elyaf Takviyeli Termoplastik Kompozitlerin Üretim Parametrelerinin Malzemelerin Yorulma Davranışına Etkisinin İncelenmesi, 2021 - Continues
- CORA Ö. N., Ekmekci D., TUBITAK Project, Otomotiv Ve Zırh Çeliklerinin Mekanik Özelliklerinin Nanogirininim Yöntemiyle İncelenmesi, Continues
- Meriç D., Cora Ö. N., Gedikli H., Öztürk B., TUBITAK Project, Metalik Serit Ve Sürekli Elyaf Takviyeli, Yenilikçi Hibrit Kompozit Yapıların Üretimi ve Mekanik, Balistik, Yorulma, Titresim, Enerji Sönümlenme Performanslarının Belirlenmesi ve Optimizasyonu, 2023 - 2026
- Gedikli H., Alemdağ Y., Pürçek G., Sofuoğlu H., Öztürk B., Bacaksız E., Çanakçı A., Budur A. İ., Varol T., Aslan M., et al., Project Supported by Higher Education Institutions, Soğuk püskürtme eklemeli üretim sisteminin tasarımı imalatı ve ileri mühendislik ürünü parça imalatına yönelik uygulamalar için geliştirilmesi, 2021 - 2024
- Gedikli H., Sofuoğlu H., Pürçek G., Cora Ö. N., Meriç D., Budur A. İ., Acar D., Project Supported by Higher Education Institutions, Soğuk Püskürtme Eklemeli Üretim Sisteminin İmalatı ve İleri Mühendislik Ürünü Parça İmalatına Yönelik Uygulamalar İçin Geliştirilmesi, 2021 - 2024
- AYDIN Ö., CORA Ö. N., VAROL T., ÇUHADAROĞLU B., BALI T., Project Supported by Higher Education Institutions, Yakıt Pili Test Sistemi Kurulumu, 2021 - 2023
- Cora Ö. N., Uşun A., Şimşek C., Gümrük R., TUBITAK Project, Eriyik Yığıma Yöntemi(FDM) Esas Alan Üç Boyutlu Yazıcı Teknolojisi ile Yüksek Mekanik Özelliklere Sahip Sürekli Elyaf Takviyeli Termoplastik Kompozit Malzeme Üretimi, 2021 - 2023
- Gümrük R., Cora Ö. N., Aslan M., Şimşek C., TUBITAK Project, Eriyik Yığıma Yöntemini Esas Alan Üç Boyutlu Yazıcı Teknolojisi ile Yüksek Mekanik Özelliklere Sahip Sürekli Elyaf Takviyeli Termoplastik Kompozit Malzeme Üretimi, 2021 - 2023
- VAROL T., ÇUVALCI H., BAYKAL S., DURAN C., ÇANAKÇI A., SARI A., ALTINTAŞ S. H., PÜRÇEK G., GEDİKLİ H., ÇUVALCI O., et al., Project Supported by Higher Education Institutions, Biyomedikal ve İleri Mühendislik Malzemelerinin Seçici Lazer Ergitme Yöntemi İle Üretimi, 2020 - 2023
- CORA Ö. N., ÇAVRAR T., Project Supported by Higher Education Institutions, Lazer YüzeY Desenleme Parametrelerinin Ultra-Yüksek Moleküler Ağırlıklı Polietilen Yüzeylerin Tribolojik Performanslarına Etkisinin İncelenmesi, 2021 - 2022
- CORA Ö. N., AKSOY A., Project Supported by Higher Education Institutions, BİNA DIŞI DİNAMİK KORUMA SİSTEMİ, 2019 - 2020
- CORA Ö. N., Project Supported by Higher Education Institutions, MalzemeLrin Mekanik Özelliklerinin Mikro7Nano-Girininim Yöntemiyle Belirlenmesi ve Modellenmesi, Nanogirininim Test Cihazı Tasarımı ve İmalatı, 2011 - 2019
- GEDİKLİ H., MERİÇ D., BUDUR A. İ., CORA Ö. N., ÖZEN İ., ACAR D., ÇETİN M. E., GÜMRÜK R., Project Supported by Higher Education Institutions, ÖRGÜLÜ ELYAF TAKVİYELİ KOMPOZİT YAPILARIN MEKANİK VE BALİSTİK ÖZELLİKLERİNİN ARAŞTIRILMASI, 2016 - 2018
- Gedikli H., Sofuoğlu H., Cora Ö. N., Gümrük R., Meriç D., Özen İ., Acar D., Budur A. İ., Kuleyin H., Project Supported by Other Official Institutions, DÜŞÜK ENERJİLİ ÇARPIŞMA ALTINDA AŞINMA KALKANINDA MEYDANA GELEN HASARIN DENEYSEL VE SAYISAL OLARAK İNCELENMESİ (TUSAŞ-TAI/DKTM), 2015 - 2017
- ÖZTÜRK B., CORA Ö. N., TUBITAK Project, Katı Oksit Yakıt Pillerinde (KOYP) Kullanılan Metalik İnterkonnektör Plakaların Toz Metalurjisi (T/M) Yöntemiyle Üretimi ve Performans Değerlendirmeleri, 2014 - 2017
- CORA Ö. N., Project Supported by Other Official Institutions, İçme Suyu Kalitesindeki Suyun İsrafının Önlenmesi ve Yağmur Sularının Toplanması İçin Bir Sistem Tasarım ve İmalatı, 2014 - 2015
- Gedikli H., Cora Ö. N., Halkacı H. S., TUBITAK Project, İLİK HİDROMEKANİK DERİN ÇEKMEDE SICAKLIK, SIVI BASINCI ve BASKI PLAKASI KUVVETİNİN PROSESE ve ÜRETİLEN PARÇALARA ETKİLERİNİN ARAŞTIRILMASI, 2012 - 2015

## Activities in Scientific Journals

- JOURNAL OF ENGINEERING SCIENCE AND TECHNOLOGY, Committee Member, 2017 - Continues
- Turkish Journal of Electromechanics and Energy, Editor, 2015 - Continues

## Memberships / Tasks in Scientific Organizations

COST Action CA 18203, Board Member, 2019 - Continues

COST Action CA 18120, Board Member, 2019 - Continues

TÜBİTAK-ARDEB, Mühendislik Araştırma Grubu (MAG), Member of Advisory Board, 2020 - 2023, Turkey

TÜBİTAK-USETEG (Ulaştırma, Savunma, Enerji ve Tekstil Teknolojileri Grubu) ÇAĞRI PLANLAMA DANIŞMA KURULU, Member of Advisory Board, 2017 - 2017, Turkey

## Scientific Refereeing

TRIBOLOGY INTERNATIONAL, SCI Journal, November 2022

TRIBOLOGY INTERNATIONAL, SCI Journal, May 2022

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INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, February 2022

Project Supported by Public Organizations in Other Countries, Irish Research Council, Ireland, February 2022

TUBİTAK Project, 1501 - Industry R & D Projects Support Program, SSN MAKİNA SANAYİ VE TİCARET LİMİTED ŞİRKETİ, Turkey, November 2021

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TUBİTAK Project, 1501 - Industry R & D Projects Support Program, İKRA MAKİNA SANAYİ VE TİCARET ANONİM ŞİRKETİ, Turkey, October 2021

KOSGEB, KOSGEB TRABZON MÜDÜRÜLÜĞÜ AR-GE KURULU, Turkey, October 2021

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TRIBOLOGY INTERNATIONAL, SCI Journal, August 2021

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TUBİTAK Project, 1501 - Industry R & D Projects Support Program, FNSS SAVUNMA SİSTEMLERİ A.Ş. GÜRGENLER İNŞAAT VE TESİSAT MALZ. SAN. VE TİC.A.Ş. DÖKSAN ISIL İŞLEM VE ARGE MERKEZİ ANONİM ŞİRKETİ (TÜBİTAK 1707 SİPARİŞ AR-GE PROGRAMI), Turkey, July 2021

TRIBOLOGY INTERNATIONAL, SCI Journal, May 2021

TUBİTAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, SİMPLEX BİLGİ TEKNOLOJİLERİ ANONİM ŞİRKETİ, Turkey, April 2021

TUBİTAK Project, 1501 - Industry R & D Projects Support Program, ULTRAPAK MAKİNA SANAYİ VE TİCARET ANONİM ŞİRKETİ, Turkey, April 2021

KOSGEB, SAĞLAMLAR AĞIR SANAYİ ANONİM ŞİRKETİ, Turkey, March 2021

Technopark, Gekatek Mühendislik Hizmetleri Ltd. Şti., Turkey, February 2021

ENERGY, SCI Journal, November 2020

TUBİTAK Project, 1501 - Industry R & D Projects Support Program, -, Turkey, November 2020

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INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, September 2020

Project Supported by Higher Education Institutions, BAP Research Project, Erciyes University, Turkey, September 2020

INTERNATIONAL JOURNAL OF GLOBAL WARMING, SCI Journal, August 2020

KOSGEB, AVRASYA PROTEZ VE SAĞLIK ÜRÜNLERİ TİCARET LİMİTED ŞİRKETİ, Turkey, July 2020  
KOSGEB, KOSGEB, Turkey, May 2020  
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2241 Sanayi Odaklı Bitirme Projeleri Yarışması (Proje Başvuru No: 113B411401832), Other Journals, October 2014  
Proceedings of the IMECHE, Part B: Journal of Engineering Manufacture , SCI Journal, October 2014  
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2241 Sanayi Odaklı Bitirme Projeleri Yarışması (Proje Başvuru No: 113B411401824), Other Journals, October 2014  
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Proceedings of the IMECHE, Part B: Journal of Engineering Manufacture , SCI Journal, September 2014  
TUBITAK Project, September 2014  
Journal of Power Sources, SCI Journal, July 2014  
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Proceedings of the IMECHE, Part B: Journal of Engineering Manufacture , SCI Journal, May 2014  
Proceedings of the IMECHE, Part O: Journal of Risk and Reliability , SCI Journal, April 2014  
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Proceedings of the IMECHE, Part B: Journal of Engineering Manufacture, National Scientific Refreed Journal, March 2014  
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Proceedings of the IMECHE, Part B: Journal of Engineering Manufacture , SCI Journal, November 2013  
International Journal of Machine Tools and Manufacture , SCI Journal, August 2013  
International Journal of Materials and Product Technology, SCI Journal, July 2013  
Gazi Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi (2012/311), SCI Journal, June 2013  
International Journal of Machine Tools and Manufacture , SCI Journal, May 2013  
Proceedings of the Institution of Mechanical Engineers, Part J, Journal of Engineering Tribology , SCI Journal, February 2013  
Proceedings of the IMECHE Part B: Journal of Engineering Manufacture, SCI Journal, January 2013  
Proceedings of the IMECHE Part B: Journal of Engineering Manufacture, SCI Journal, January 2013

## Scientific Consultations

KTÜ Araştırma Üst Kurulu, Scientific Consultancy, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey, 2023 - Continues  
KTÜ Teknoloji Transfer Merkezi Yönetim Kurulu, Scientific Consultancy, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey, 2023 - Continues  
Karadeniz Teknik Üniversitesi Teknoloji Transfer Merkezi Proje Pazarı Proje Değerlendirme, Scientific Consultancy, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey, 2022 - 2022  
EUROPEAN COMMISSION -FUEL CELL HYDROGEN JOINT UNDERTAKING - FCH2 JU, Project Consultancy, Karadeniz Technical University, Mühendislik Fakültesi, Makine Mühendisliği, Turkey, 2016 - 2016

## Metrics

Publication: 172  
Citation (WoS): 940  
Citation (Scopus): 1107  
H-Index (WoS): 18  
H-Index (Scopus): 18

## Congress and Symposium Activities

12th European Aeronautics Science Network (EASN) International Conference, Attendee, Barcelona, Spain, 2022  
The 20th European Conference on Composite Materials (ECCM20), Attendee, Lausanne, Switzerland, 2022  
Nanobrücken 2020: Nanomechanical Testing Conference & Bruker User Meeting, Attendee, Düsseldorf, Germany, 2020  
The International Conference of Materials and Engineering Technologies (TICMET'19), Attendee, Gaziantep, Turkey, 2019  
Successful R&I in Europe 2019 10th European Networking Event, Attendee, Düsseldorf, Germany, 2019  
TF-X Milli Muharip Uçağı Bütünleşik İşlemci Ünitesi Çalıştayı, Attendee, Kocaeli, Turkey, 2018  
ASELSAN 3. Malzeme Teknolojileri Çalıştayı, Attendee, Ankara, Turkey, 2018  
Horizon 2020 Brokerage Event Nanotechnologies and Advanced Materials, Attendee, London, United Kingdom, 2017  
Successful R&I in Europe 2017 - 8th European Networking Event, Attendee, Düsseldorf, Germany, 2017  
3rd International Conference on Computational and Experimental Science and Engineering (ICCESEN 2016), Attendee, Antalya, Turkey, 2016  
International Conference on Material Science and Technology in Cappadocia (IMSTEC 2016), Attendee, Nevşehir, Turkey, 2016  
Successful R&I in Europe 2015 - 7th European Networking Event, Invited Speaker, Düsseldorf, Germany, 2015  
Successful R&I in Europe 2015 - 7th European Networking Event, Attendee, Düsseldorf, Germany, 2015  
1st International Conference on Green Chemistry and Sustainable Technologies - GCSTI 2015, Attendee, İzmir, Turkey, 2015  
1st International Conference on Tribology - TURKEYTRIB, Attendee, İstanbul, Turkey, 2015  
Erasmus Staff Mobility - Teaching at Budapest University of Technology and Economics, Attendee, Budapeşte, Hungary, 2014  
Global Cleantech Innovation Program, Cleantech Open 2014 Academy Accelerator (online), Attendee, Silicon Valley, CA, United States Of America, 2014  
7th International Powder Metallurgy Conference and Exhibition, Attendee, Ankara, Turkey, 2014  
7th Automotive Technologies Congress, Attendee, Bursa, Turkey, 2014  
T.C. Bilim, Sanayii ve Teknoloji Bakanlığı, Teknogirişimcilik Eğitimi, Ankara, 18-19 Nisan 2014., Attendee, Ankara, Turkey, 2014  
ASME International Mechanical Engineering Congress and Exposition, Attendee, San Diego, CA, United States Of America, 2013  
Erasmus Staff Mobility - Training at Luleå University of Technology, Attendee, Luleå, Sweden, 2013  
Creating Markets from Research Results, European Patent Office, Attendee, Münih, Germany, 2013  
TMS 2012 Annual Meeting & Exhibition, Attendee, Orlando, FL, United States Of America, 2012  
7th International Conference on MicroManufacturing - ICOMM 2012, Attendee, Evanston, IL, Turkey, 2012  
6th International Conference on MicroManufacturing - ICOMM 2011, Attendee, Tokyo, Japan, 2011  
17th International Symposium on Plasticity and Its Current Applications, Plasticity 2011, Attendee, Puerto Vallarta, Turkey, 2011  
Materials Science and Technology Conference and Exhibition MS&T 2010, Attendee, Houston, TX, Turkey, 2010  
5th International Conference on MicroManufacturing, ICOMM 2010, Attendee, Madison, WI, Turkey, 2010  
2nd Ultrasonic Additive Manufacturing Technology Symposium, Attendee, Columbus, OH, United States Of America, 2009  
37th The North American Manufacturing Research Conference (NAMRC 2009), Attendee, Clemson, SC, United States Of America, 2009  
17th International Conference on Wear of Materials, Attendee, Las Vegas, NV, United States Of America, 2009  
5th JSTP International Seminar on Precision Forging, Attendee, Kyoto, Japan, 2009  
ASME International Manufacturing Science and Engineering Conference, MSEC2008, Attendee, Evanston, IL, United States Of America, 2008  
International German Summer School 2006 on Aviation, Weather and Atmosphere, Attendee, Braunschweig, Germany, 2006  
MSC Software Users Conference 2006, Attendee, İstanbul, Turkey, 2006

## **Scholarships**

Black Sea Horizon Travel Grant for Networking Events, European Commission, 2016 - Continues

## **Awards**

CORA Ö. N., Research Assist Program Award, MSC Software Corporation, March 2016

## **Non Academic Experience**

Company, MİTAŞ CİVATA , Ar-Ge  
MİTAŞ CİVATA SANAYİİ TİC. LTD. ŞTİ.