



TICMET '23

The 5th International Conference of Materials and Engineering Technology

5. Uluslararası Malzeme ve Mühendislik
Teknolojileri Konferansı



13-16 NOVEMBER, 2023

PROF. DR. OSMAN TURAN CULTURE AND CONVENTION CENTER

TRABZON - TÜRKİYE

CONFERENCE OBJECTIVE

The 5th International Conference of Materials and Engineering Technology (TICMET'23) will be held on 13-16 November 2023 in partnership with Karadeniz Technical University, Hasan Kalyoncu University, and Gaziantep University.

The main purpose of TICMET'23 is to present the latest research and results of scientists related to materials and engineering technologies. This conference provides different field delegates with opportunities to exchange new ideas and application experiences, build business or research relationships, and find global partners for future collaboration. After this science feast, your abstract/full texts will be published in conference book with ISBNs and will be brought to the world of science literature with open access and significant contributions will be made to the scientific field.

In addition to the valuable speeches of the invited speakers, a special R&D session will be held at the Conference. It is expected that the R&D session will be a very productive session with the participation of academicians, industrialists and students from universities.

The conference organizing committee is pleased to invite prospective authors to send their original texts to TICMET'23. All papers will be reviewed and evaluated by the referees in the field, based on their technical and/or research content depth, accuracy, relevance to the conference, contributions, and readability. Selected papers presented at the conference will be published in conference book as an abstract and then will be proposed for publication in one of the following journals:

- * IEEE Transactions on Engineering Management (SCI)
- * Sigma Journal of Engineering and Natural Sciences (Sigma) (E-SCI)
- * Acta Mechanica et Automatica (E-SCI)
- * Journal of Sustainable Construction Materials and Technologies (JSCMT) (TR Dizin)
- * Turkish Journal of Materials (TJOM)
- * Turkish Journal of Electromechanics and Energy (TJOEE)
- * International Journal of Materials and Engineering Technologies (TIJMET) (Dergipark)

(The publication of selected papers in journals is not guaranteed. The extended version of the selected papers recommended to the journals must be submitted to the journal by the corresponding author. Afterwards, the publications will be subjected to an additional refereeing process. No additional fees will be charged by the Journals)

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Dr. Mazhar Malik, University Of The West Of England - GB

Dr. Mirza Nadeem Baig, Pakistan Welding Institute - PK

Dr. Mohammad Ghaffar Faraj, Koya University - IQ

Dr. Peter Kay, University Of The West Of England - GB

Dr. Sabir Ghauri, University Of The West Of England - GB

INVITED SPEAKERS



Dr. Tugrul Daim is a Professor in the Department of Engineering and Technology Management. He is also the director of the Technology Management Doctoral program at Portland State University. Dr. Daim leads a research group on Technology Evaluations and Research Applications. His group has had more than 20 PhD graduates. He is currently advising more than 15 PhD students. Over 15 visiting scholars from all around the world have joined his group in the last decade. Dr. Daim is recognized worldwide for his research leadership in roadmapping and forecasting technologies. He has published over 200 refereed journal papers, more than 20 special issues and more than 20 books. He made more than 200 conference presentations and gave several keynote lectures. He sits on the board of many academic institutions and industrial organizations.

Awards & Honors

- Honorary Chair Professor title by Chaoyang University of Technology (2019)
- R&D Advisory Board member for TUPRAS (Turkey) (2018)
- Leading Research Fellowship at National Research University Higher School of Economics in Moscow (2018-2020)
- David E Wedge Award for Excellence in Teaching by Portland State University (2017)
- President of Omega Rho, International Honor Society in Operations Research and Management Science (2014 - 2016)

INVITED SPEAKERS



Nimir Elbashir, Professor, Petroleum Engineering and Chemical Engineering at Qatar.

Educational Background

Ph.D., Chemical Engineering, Auburn University - 2004

M.S., Chemical Engineering, Universiti Teknologi Malaysia - 1998

B.S., Chemical Engineering, University of Khartoum - 1994

Research Interests

Research responsibilities include:

- Director of Texas A&M Engineering Experiment Station Gas and Fuels Research Center: a major research center that involves 30 faculty members from both the Qatar and College Station campuses of Texas A&M University
- Chair of the ORYX GTL Gas-to-Liquid Technology Excellence Program

Research interests include:

Design of advanced midstream and downstream natural gas processing units including reactors, catalysts and conversion processes to ultra-clean fuels and value-added chemicals

Awards & Honors

- Faculty Excellence Award, Texas A&M University Qatar - 2017
- Laboratory Safety Excellence Award, Texas A&M University - 2017
- Genesis Research Excellence Award, Texas Engineering Experiment Station - 2016
- Distinguished Achievement Award in Teaching – College Level, Texas A&M University Association Former Students - 2015
- Dean's Leadership Award for Outstanding Service, Texas A&M University – 2015

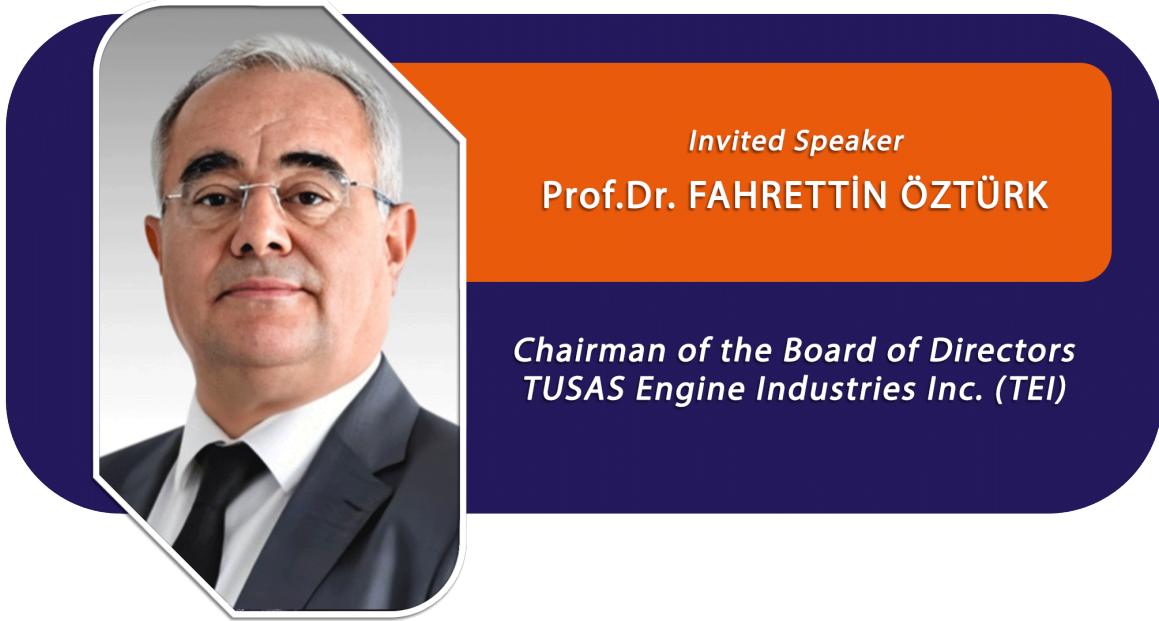
INVITED SPEAKERS



Prior to his appointment as a founding professor of sustainability at HBKU in 2014, Professor Koç held professor, director, chair and dean positions at different universities in Turkey and the USA between 2000-2014. He has a PhD degree in Industrial and Systems Engineering from the Ohio State University (1999) and an Executive MBA degree from the University of Sheffield, UK (2014). He has published 130+ publications in various international journals and conferences; edited three books; organized, chaired, and co-chaired various international conferences, workshops and seminars on design, manufacturing and product development.

In addition to his academic and educational activities, he provides consulting services to industry, government and educational institutes for strategic transformation, business optimization, organizational efficiency, lean operations, restructuring and reengineering initiatives. He has taught courses across a range of subjects, including product/process/business innovation and development; medical design and production; energy and efficiency; computer-aided engineering, design and manufacturing; modern manufacturing technologies; manufacturing system design; material forming plasticity; and the mechanical behavior of materials.

INVITED SPEAKERS



Prof. Dr. Fahrettin Öztürk is the Chairman of the Board of Directors at TAI Motor Sanayii A.Ş., Deputy General Manager at Turkish Aerospace Industries A.Ş. and a faculty member in the Department of Mechanical Engineering at Ankara Yıldırım Beyazıt University.

Professor Öztürk received all of his degrees in Mechanical Engineering and graduated from Konya Selçuk University, Department of Mechanical Engineering in 1992 with the first rank. He then received his M.S. degree from University of Pittsburgh, PA, USA in 1996 and Ph.D. degree from Rensselaer Polytechnic Institute, Troy, NY, USA in 2002. During his time in the USA, he worked at the General Electric Research Center for 3 years.

Prior to joining Türk Havacılık ve Uzay Sanayii A.Ş., Professor Öztürk worked at Rensselaer Polytechnic Institute (RPI), Niğde Ömer Halisdemir University (formerly Niğde University) and Khalifa University (formerly The Petroleum Institute (PI)). Dr. Öztürk's main areas of expertise are Sheet Metal Forming, Materials Processing and Characterization, Lightweight Materials, Thermoplastic Composite Materials, Additive Manufacturing, Friction Stir Welding, and Mechanically Clad Corrosion Resistant Alloy Pipes. He has published numerous Journal Articles, Books, Book Chapters, Conference Papers and also writes columns on various topics. He contributes to the awareness of the society.

Education

- PhD (1996 - 2002), Mechanical Engineering, Rensselaer Polytechnic Institute, Troy, NY, USA.
- MS (1994 -1996), Mechanical Engineering, University of Pittsburgh, Pittsburgh, PA, USA.
- Bachelor (1988 - 1992), Mechanical Engineering, Selcuk University, Konya, TURKEY. (Graduated as the first in his department)

INVITED SPEAKERS



Prof. Bekir Özçelik has received his MSc and PhD degrees from Çukurova University (Adana-Turkey), completing the experimental part of his PhD thesis, related to harmonic and non-harmonic susceptibilities of various magnetic materials as anti-, ferro-magnetic and spin-glasses, at the Kamerlingh Onnes Laboratory (Leiden University- Holland) between 1988 and 1990. He currently holds a position as Professor at Çukurova University.

His research work deals with high-T_c superconductors, thermo-electrics, magnetic materials and nano particle materials. He keeps intensive scientific collaborations with the University of Zaragoza in Spain and the National Institute for Materials Science (NIMS) at Tsukuba-Japan. He has published more than 120 peer reviewed journal articles and 4 problem solution books in Mathematics.

PROGRAM OVERVIEW		
Location: Karadeniz Technical University - Prof. Dr. Osman Turan Culture and Conventlon Center		
13.11.2023 - MONDAY		
09:00 – 10:00	Registration	Conference Registration Desk
10:00 – 11:15	Opening Ceremony	Karadeniz Technical University – Main Hall (Fahri Kuran Hall)
11:15 – 12:00	Invited Talk	Prof. Dr. Muammer KOÇ
12:30 – 13:30	Lunch	
13:45 – 14:30	Invited Speakers Session	Prof. Dr. Fahrettin ÖZTÜRK
14:30 – 14:45	Coffee Break	
14:45 – 17:00	Session I	Karadeniz Technical University - Hall 1 - Hall 2 - Hall 3 & Hall 4
18:30	Bus transfer from KORU Hotel for Dinner	
19:00	Dinner (KTÜ SAHİL Restaurant)	
21:30	Bus transfer to KORU Hotel	
14.11.2023 - TUESDAY		
08:45 – 10:15	Session II	Karadeniz Technical University - Hall 1 - Hall 2 - Hall 3 & Hall 4
10:15 – 10:30	Coffee Break	
10:30 – 11:45	Invited Speakers Session	Prof.Dr. TUĞRUL DAİM
		Prof. Dr. Nimir ELBASHIR
11:45 – 12:00	Coffee Break	
12:00 – 13:15	Session III	Karadeniz Technical University - Hall 1 - Hall 2 - Hall 3 & Hall 4
13:15 – 14:30	Lunch	
15:00	TRABZON CITY TOUR (Free)	
18:30	Dinner (Akçabat Municipality)	
20:00	Bus transfer to KORU Hotel	
15.11.2023 - WEDNESDAY		
08:45 – 10:15	Session IV	Karadeniz Technical University - Hall 1 - Hall 2 - Hall 3 & Hall 4
10:15 – 10:30	Coffee Break	
10:30 – 11:15	Invited Speakers Session	Prof. Dr. Bekir ÖZTEKİN
11:15 – 11:30	Coffee Break	
11:30 – 13:00	Session V	Karadeniz Technical University - Hall 1 - Hall 2 - Hall 3 & Hall 4
13:00 – 14:00	Lunch	
14:00	Bus transfer to SUMELA Monastery (Free)	
17:00	Bus transfer from SUMELA Monastery	
18:30	Dinner (SERA LAKE Restaurant)	
20:00	Bus transfer to KORU Hotel	
16.11.2023 - THURSDAY		
08:00-22:00	BATUM Tour (Paid)*	
10:00-18:00	UZUNGÖL Tour (Paid)*	
<div>* The tour options are with a fee, and only one tour can be chosen.</div> <div>* The registration for the tours and fee payment should be processed in the first day of conference (November 13, 2023) preferably during the registration.</div> <div>*The fee includes only transportation and guided services. Expenses such as the international exit fee, meals, and personal expenses are not included in the fee.</div> <div>Note: Turkish residents need to present either their passports or new ID cards (with photo) for Batum tour. There is an additional "Travel Abroad Fee" of 150 TL which should be paid when leaving Sarp Border Gate.</div>		

OPENING CEREMONY

13.11.2023 – MONDAY (10:00 – 11:15)

OPENING SPEECHES

INVITED TALK

13.11.2023 – MONDAY (11:15 – 12:00)

OPENING SPEECH: **Face-to-Face**

Main Hall (Fahri Kuran Hall)	PROF. DR. MUAMMER KOÇ – HAMAD BIN KHALIFA UNIVERSITY
	INNOVATION FOR SUSTAINABILITY: EMERGING NEEDS IN MATERIALS, MANUFACTURING, TECHNOLOGY, SCIENCE, MANAGEMENT AND SOCIETY "Sürdürülebilirlik için İnovasyon (Yenişim): Malzeme, İmalat, Tasarım, Yönetim, Ekonomi ve Sosyal Değişim Gerekleri" Presentation language: English Speaking language: Turkish

INVITED SPEAKERS SESSION

13.11.2023 - MONDAY (13:45 – 14:30)

Chair: Prof. Dr. Necip Fazıl YILMAZ / [Zoom Link: https://bit.ly/T23iss13N](https://bit.ly/T23iss13N)

MAIN HALL	PROF. DR. FAHRETTİN ÖZTÜRK-CHAIRMAN OF THE BOARD OF DIRECTORS AT TUSAS ENGINE INDUSTRIES INC. (TEI) OVERVIEW OF TURKISH AVIATION, R&D AND NATIONALIZATION ACTIVITIES Havacılık Sanayisinde Araştırma, İnovasyon ve Millileştirme Çalışmaları" Presentation language: English Speaking language: Turkish
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SESSION I

13.11.2023 - MONDAY (14:45 – 17:00)

Chair: Prof. Dr. Ömer EYERCİOĞLU Full Text Presentations

HALL 1	TICMET23-0019 - RAMAN CHARACTERIZATION OF SILVER DOPED TANTALUM TUNGSTEN NITRIDE STRUCTURE GROWN ON MICROSCOPE SLIDE SUBSTRATE UTILIZING THE PVD TECHNIQUE TAHA CAGRI SENOCAK
	TICMET23-0065- GROWTH OF COMPOSITE COATINGS ON AL2024 ALLOY BY MICRO ARC OXIDATION MAO METHOD AYSU KILIC, BULENT OZTURK, SULEYMAN SUKUROGLU, EBRU EMINE SUKUROGLU
	TICMET23-0081 - CONVERSION AND AUTOMATION OF AN IDLE LATHE MACHINE INTO FRICTION WELDING EXPERIMENTAL SYSTEM HAKAN CANDAR, SADIK OLGUNER, AHMET ABRA, YUNUS EMRE CIMEN
	TICMET23-0040 - ENHANCING ACCIDENT FORECASTING THROUGH THE IMPLEMENTATION OF DEEP LEARNING TECHNIQUE KHAIR JADAAN, SARA ALHABASHNEH, ABEER BANI BAKER, OSAMA QTAISH, RANA AL SHAFIE
	TICMET23-0075 - COMPRESSION BEHAVIOR OF ABS EVA POLYMER BLEND AT DIFFERENT STRAIN RATES SELAHATTIN BUDAK, HAMDI KULEYIN, RECEP GUMRUK
	TICMET23-0076 - EXPENDABLE MOLD MANUFACTURING FOR INJECTION MOLDING A CASE STUDY OF A HYBRID ADDITIVE MANUFACTURING OMER EYERCIOGLU, DIMA BABI, AHMET ABRA, YUNUS EMRE CIMEN
	TICMET23-0070 - RAPID TOOL MANUFACTURING FOR LOW PRESSURE INJECTION MOLDING USING DLP 3D PRINTING A CASE STUDY OMER EYERCIOGLU, DIMA BABI

13.11.2023 - MONDAY (14:45 – 17:00)

Chair: Prof. Dr. Abdulkadir EKŞİ Full Text Presentations

HALL 2	TICMET23-0156 - YUKSEK HIZLI INSANSIZ HAVA ARACLARI ICIN NACA0012 VE KFM 4 KANAT PROFILLERININ KARSILASTIRILMASI MUKTEDIR GOZUM, CEVAT OZARPA
	TICMET23-0130 - ATIMLI AKISTA MANYETİK ALANIN ETKİSİ ABDULLAH ALPEREN OKUMUS, CEMALETTİN AYGUN, MEHMET BASOGLU
	TICMET23-0151 - DEPREM FAY HATLARINDA PETROL VE DOĞAL GAZ BORU SEBEKELERİNİN AKILLI SİSTEM İLE GERİLME SEVİYELERİNİN İZLENMESİ AHMET YETİK, SEYİT ALİ KARA, CEVAT OZARPA
	TICMET23-0026 - INFRARED ISINLAR İLE ERGİTİLEN ORGANİK VE İNORGANİK MADDELERİN İSİL ENERJİ DEPOLAMADA KULLANIMI ALİ KEMAL OZCAN, OMER OKSUZ, CEVDET DEMİRTAS
	TICMET23-0053 - DERİN EVRİSİMSEL SINIR AĞI KULLANILARAK CUVAL SEKTÖRÜNDE KULLANILABİLECEK BİR KALİTE KONTROL MODELİNİN GELİSTİRİLMESİ NECİP FAZİL YILMAZ, SEBAHATTİN CURUK, MAHMUT FURKAN KALKAN
	TICMET23-0080 - SULU KESİM İLE LAZER KESİMİN YÜZEY KALİTESİ ÜZERİNDEKİ ETKİ SÜ GÜDÜMLÜ LAZER BAŞLIĞI TASARIMI VE UYGULAMASI HAKAN CANDAR, MUHAMMED PAKSOY, MAHMUT FURKAN KALKAN, NECİP FAZİL YILMAZ
	TICMET23-0159 - BİYOMİMETİK YILANSI ROBOTLARIN TASARIM KRİTERLERİ Murat GÖKMEN, Cevat ÖZARPA
	TICMET23-0062 - HOMOJENİZASYON VE YASLANDIRMA İSİL İSİLEMLERİNİN AL 40ZN 3CU ALASIMININ MEKANİK ÖZELLİKLERİNE ETKİSİ MUHAMMET UZUN, SADUN KARABİYİK, YASİN ALEMDAG
	TICMET23-0119 - B4C TAKVİYELİ ALUMİNYUM METAL MATRİSLERİN MİKROYAPISINDA SEGMENTASYON ÇALIŞMASI NECİP FAZİL YILMAZ, ABDULCABBAR YAVUZ, MAHMUT FURKAN KALKAN

13.11.2023 - MONDAY (14:45 – 17:00)

Chair: Prof. Dr. Serap Ulusam SEÇKİNER Abstract Presentations

HALL 3	TICMET23-0018 - DEFORMATION PERFORMANCE MONITORING IN ROTARY SWAGING USING IMAGE PROCESSING HASAN AYTUG KURT
	TICMET23-0038 - AN OVERVIEW OF INDUSTRIE 4.0 CHALLENGES AND POTENTIAL APPLICATION IN DEVELOPING COUNTRIES KHAIR JADAAN, YOUSEF ABDALLAT
	TICMET23-0054 - SCHEDULING OF UROLOGICAL SURGERY OPERATIONS SERAP ULUSAM SECKINER, ILKER SECKINER
	TICMET23-0077 - ESTIMATING THE DEFORMATIONS OF LSAM PRINTS USING DIGITAL IMAGE CORRECTION METHOD OMER EYERCIOGLU, SINAN KESKIN, MEHMET ALADAG

	TICMET23-0114 - INVESTIGATION OF LEAN PRODUCTION SUITABILITY OF COSMETICS MANUFACTURERS OPERATING IN THE GAZIANTEP REGION MIHRIBAN NALCI, SULEYMAN METE
	TICMET23-0091 - THE EFFECT OF DIFFERENT PRE TREATMENT APPLICATIONS ON SURFACE FREE ENERGY AND WETTABILITY OF GLASS FIBER REINFORCED POLYAMIDE COMPOSITE MUSTAFA ASLAN, MERVE OZTURK, MUCAHIT KOCAMAN, KUTAY CAVA, HAMDULLAH CUVALCI
	TICMET23-0143 - IMPACT OF INDUSTRIE 4.0 ON THE TRANSPORT SECTOR KHAIR JADAAN, LUMA ALMAWAJDEH, MARAH ALRASHDAN, RAJAA ALAWADI
	TICMET23-0107 - ENHANCING MICROSTRUCTURAL DATA IN MATERIALS SCIENCE USING GENERATIVE ADVERSARIAL NETWORKS A CASE STUDY ON HYPOEUTECTIC AL-SI ALLOY NECIP FAZIL YILMAZ, OMER EYERCIOGLU, KRZYSZTOF JAN KURZYDLOWSKI, MEHMET ALADAG, MAHMUT FURKAN KALKAN, ABDULCABBAR YAVUZ

13.11.2023 - MONDAY (14:45 – 17:00)

Chair: Prof. Dr. Bülent ÖZTÜRK Abstract Presentations

HALL 4	TICMET23-0013 - ISIL ENERJİ DEPOLAMA SİSTEMLERİ İÇİN FAZ DEĞİSTİREN MADDELER VE KARBON TABANLI MALZEMELERDEN YARARLANARAK KOMPOZİT MALZEMELERİN SENTEZİ VE ISIL ÖZELLİKLERİNİN BELİRLENMESİ SECİL SARI, GOKHAN HEKİMOĞLU, KAMIL KAYGUSUZ, AHMET SARI, SEDAT KELES
	TICMET23-0014 - ISIL ENERJİ DEPOLAMA SİSTEMLERİNDE KULLANILMAK ÜZERE ÜRETİLEN KOMPOZİT MALZEMELERİNİN ISIL İLETKENLİKLERİNİN ARTTIRILMASININ İNCELENMESİ SECİL SARI, GOKHAN HEKİMOĞLU, KAMIL KAYGUSUZ, AHMET SARI, SEDAT KELES
	TICMET23-0104 - MUHENDİSLİKTE YAYGIN OLARAK KULLANILAN BAZI METALİK MALZEMELERİN KATI PARÇACIK EROZYON DAVRANISININ İNCELENMESİ ALİ İHSAN BUDUR, HASAN GEDİKLİ
	TICMET23-0110 - CUAL10FE3MN NİKEL ALUMİNYUM BRONZUNUN FARKLI ELEKTRİKSEL AKIM ALTINDAKİ TRIBOLOJİK DAVRANISININ İNCELENMESİ HARUN YANAR
	TICMET23-0028 - KISA ELYAF TAKVİYELİ PEEK TERMOPLASTİK KOMPOZİTLERİN VAKUM ORTAMINDA EKLEMELİ OLARAK ÜRETİLMESİ VE MEKANİK PERFORMANSI BAHİRİ BARIS VATANDAS, RECEP GUMRUK
	TICMET23-0115 - ÇEVRESEL SICAKLIĞIN FLUXGATE SENSOR PERFORMANSI ÜZERİNE ETKİLERİ HAVA CAN
	TICMET23-0133 - AL 6016 SERİSİ SAÇLAR İLE AL 5182 SERİSİ SAÇLARIN CMT METODUNDA FARKLI KAYNAK AKIMLARI İLE BİRLESTİRİLEBİLİRLİĞİNİN İNCELENMESİ UFUK OZTURK, CİHAN YAKUPOĞLU, İBRAHİM ACAR, FARUK VAROL
	TICMET23-0009 - DİJİTAL DONUSUMUN METAL İŞLEME SEKTÖRÜNDEKİ İŞLETMELER ÜZERİNE ETKİLERİ AYKUT BİLİCİ
	TICMET23-0087 - KOMPOZİT MALZEME YAZABİLEN YENİ BİR 3B YAZICI TASARIMI PROTOTİP ÜRETİMİ VE PERFORMANSININ İNCELENMESİ MUSA YILMAZ, ALİ KILIC, NECİP FAZİL YILMAZ

SESSION II

14.11.2023 - TUESDAY (08:45 – 10:15)

Chair: Prof. Dr. Emrah ÖZAHİ Full Text Presentations

HALL 1	TICMET23-0059 - INVESTIGATION OF SURFACE AND CORROSION PROPERTIES OF 316L STAINLESS STEEL SURFACE MODIFIED WITH CUO NANOPARTICLES BY DIFFERENT COATING METHODS GİZEM KARABULUT, NURAY BEKOZ ULLEN
	TICMET23-0060 - INVESTIGATION OF COATING MORPHOLOGIES OF 316L STAINLESS STEEL SURFACE COATED WITH METAL BASED NANOSTRUCTURES GİZEM KARABULUT, NURAY BEKOZ ULLEN
	TICMET23-0127 - INVESTIGATION OF AERODYNAMIC CHARACTERISTICS OF NACA 0012 AIRFOIL WITH BACKWARD COUNTER ROTATING TRIANGULAR TYPE VORTEX GENERATORS FURKAN ERMAN KAN, MEHMET SEYHAN
	TICMET23-0049 - THE EFFECT OF BOUNDARY CONDITION FOR AN ANNULAR GRAPHITE COMPOSITE WITH PHASE CHANGE TES UNIT A NUMERICAL STUDY SARE MITİNCİK, MUSTAFA YUSUF YAZICI
	TICMET23-0113 - ULTRASOUND ASSISTED ETHANOLIC EXTRACTION OF OIL FROM PISTACHIA VERA L USING RESPONSE SURFACE METHODOLOGY MEDENİ MASKAN, EZGİ KALKAN
	TICMET23-0125 - AN ASSESSMENT AND THERMODYNAMIC ANALYSIS OF AN ACTUAL POWER PLANT IN THE FRAME OF A TRI GENERATION CONCEPT EMRAH ÖZAHİ

14.11.2023 - TUESDAY (08:45 – 10:15)

Chair: Assoc. Prof. Dr. Temel VAROL **Full Text Presentations**

HALL 2	TICMET23-0043 - IMPACT OF INDUSTRIE 4.0 ON THE TRANSPORT SECTOR KHAIR JADAAN, LUMA ALMAWAJDEH, MARAH ALRASHDAN, RAJAA ALAWADI
	TICMET23-0101: QUALITY CONTROL FOR COAL MILL SHAFTS OF THERMAL POWER PLANTS VEHBI UGUR ORUC, MIRJANA BORISAVLJEVIC
	TICMET23-0142 - HOW OPTIMISTIC ARE CONSUMERS EXPECTATIONS ABOUT THE ECONOMY A RESEARCH ON EUROPEAN UNION MEMBER AND CANDIDATE COUNTRIES OZGE VAR, ALPTEKIN DURMUSOGLU, TURKAY DERELI
	TICMET23-0109 - DEVELOPMENT OF DIGITAL DRIVE CONTROL SYSTEM FOR ELECTRIC DRIVEN CONSTRUCTION AND MATERIAL HANDLING VEHICLES ALI KILIC, ORKUN OGUZ, FIRAT HATIPOGLU
	TICMET23-0155 - AC MOTOR SELECTION IN INDUSTRIAL APPLICATIONS A CASE STUDY MEHMET ERKAN KUTUK, SADETTIN KAPUCU
	TICMET23-0129 - OPTIMIZATION OF ENGINEERING PROBLEMS USING ENHANCED ARTIFICIAL RABBIT ALGORITHM ERHAN DUZGUN, ERDEM ACAR, ALI RIZA YILDIZ

14.11.2023 - TUESDAY (08:45 – 10:15)

Chair: Assoc. Prof. Dr. Ersin Yener YAZICI **Abstract Presentations**

HALL 3	TICMET23-0157 - EVALUATING SEVERAL PATHWAYS FOR SUSTAINABLE AVIATION FUELS SAF PRODUCTION VIA GAS TO LIQUID GTL PROCESS RETROFITTING A STEP TOWARDS INTEGRATING RENEWABLE ENERGY AND CCU PROCESSES YASMIN ABDELKERIM, MOHAMED S CHALLIWALA, NIMIR O ELBASHIR
	TICMET23-0158 - EXPERIMENTAL VERIFICATION OF LOW PRESSURE KINETICS MODEL FOR THE DIRECT SYNTHESIS OF DIMETHYL CARBONATE OVER CEO ₂ CATALYST AMIRA ABDELBAR, IBRAHIM G, HA CHOUDHURY, MS CHALLIWALA, ELBASHIR NIMIR
	TICMET23-0097 - PRELIMINARY FINDINGS OF THE ERA-MIN 2 PROJECT (ELIMINATE) ON THE MANAGEMENT AND TREATMENT OF END-OF-LIFE LITHIUM-ION BATTERIES (LIBs) E. Y. YAZICI, H. DEVECİ, O. CELEP, C. DORFLING, R.F. VAN SCHALKWYK, E. EMILSSON, A. WU, M. PETRANIKOVA, E. EKEN TORUNOGLU, E. CUHADAR, C. EYUPOGLU
	TICMET23-0149 - THE EFFECT OF STOICHIOMETRY ON RE SIALXOY PHOSPHORESCENCE PRODUCED BY SOLUTION COMBUSTION SYNTHESIS MERVE TURKMEN, RASIT SEZER
	TICMET23-0108 - ELECTROLESS DEPOSITION OF SILVER ON ACRYLONITRILE BUTADIENE STYRENE MICROSTRUCTURAL AND THERMAL EVALUATION SERHATCAN BERK AKCAY, KUTAY CAVA, MUSTAFA ASLAN, TEMEL VAROL
	TICMET23-0148 - THE SYNTHESIS OF POLYANILINE BY CHEMICAL POLYMERIZATION METHOD SUMRAN BILGIN, SEDA DERICI, KURSAT ICIN, UMIT ALVER, MUSTAFA ASLAN
	TICMET23-0084 - HIGH STRENGTH BULK STEELS FOR HIGH TEMPERATURE STRUCTURAL APPLICATIONS PRODUCED BY MECHANICAL ALLOYING IN COMBINATION WITH HOT EQUAL CHANNEL ANGULAR EXTRUSION HASAN KOTAN, KRIS DARLING
	TICMET23-0138 - STRONSIYUM HEKZAFERRITLERE ALUMINYUM IKAMESININ MANYETIK OZELLIKLER UZERINDEKI ETKISI KURSAT ICIN, SUAT ONAL, METIN GOBULUK, SULTAN OZTURK

14.11.2023 - TUESDAY (08:45 – 10:15)

Chair: Assoc. Prof. Dr. Alptekin DURMUŞOĞLU **Online Presentations** / Zoom Link: <https://bit.ly/TueS2H4>

HALL 4	TICMET23-0006: ANALYSIS AND FORECASTING OF AN OPTIMIZED ENERGY STRUCTURE IN THE UNITED ARAB EMIRATES AHMAD SAKHRIEH, MOHAMMED ATIYAH, HUMAID ALSHEHHI
	TICMET23-0045: AIR POLLUTION RELATED IMPACTS OF TRANSPORTATION A CASE STUDY IN THE CITY OF AMMAN JORDAN OMAR MIGDADI, QUSAY ABU AFIFEH, RANA ALSHAFIE
	TICMET23-0047: IMPLEMENTING DEEP LEARNING TECHNIQUES FOR TRAVEL TIME PREDICTION KHAIR JADAAN, ABDULLAH NAJJAR, SAMEER ABU EISHEH, ABDALLAH ABUAISHA
	TICMET23-0048: APPLICATION OF ARTIFICIAL INTELLIGENCE AI TO TRAFFIC NOISE PREDICTION UNDER JORDANIAN CONDITIONS KHAIR JADAAN, BRAA ALZAHARNEH, MAIS SLIEHAT, DANIA ALAMEH, DIMA HAMMODEH
	TICMET23-0016 - A COMPARATIVE ANALYSIS OF CYBERSECURITY INDICES EVALUATING GLOBAL RANKINGS DUHA NWIERAN RAHAHLEH, KHAIR JADAAN, AMAN NWIERAN RAHAHLEH
	TICMET23-0141: WRONG WAY DRIVING ACCIDENT STUDY IN JORDAN BUSHRA ALAYYAN

INVITED SPEAKERS SESSION

14.11.2023 - TUESDAY (10:30 – 11:45)	
Chair: Prof. Dr. Necip Fazıl YILMAZ / Zoom Link: https://bit.ly/T23iss14N	
MAIN HALL	PROF.DR. TUĞRUL DAİM – PORTLAND STATE UNIVERSITY (Online)
	TECHNOLOGY POLICY DEVELOPMENT FOR CYBERSECURITY Siber güvenlik için Teknoloji Politikalarının Geliştirilmesi
	Presentation language: English Speaking language: English
	PROF. DR. NIMIR ELBASHIR – TEXAS A&M UNIVERSITY AT QATAR (Face-to-Face)
	NATURAL GAS AND ITS POTENTIAL IN THE ENERGY MARKET: QATAR STORY Doğalgaz ve Enerji Piyasasındaki Potansiyeli: Katar Örneği
	Presentation language: English Speaking language: English

SESSION III

14.11.2023 - TUESDAY (12:00 – 13:15)	
Chair: Dr. Suat ÖNAL Full Text Presentations	
HALL 1	TICMET23-0079 - COMPARISON OF RELATIVE FIXATION AND ACTIVE PUNCH ADJUSTMENT OF MULTI POINT FORMING FOR 3D FREE FORM PART MAHMUT TANDOĞAN, OMER EYERCIOĞLU
	TICMET23-0124 - A RESEARCH ON Z SHAPE BEVELOID GEAR PROPERTIES AND MANUFACTURING METHODS OMER AKIN, OMER EYERCIOĞLU
	TICMET23-0136 - THE IMPACT OF GLASS POWDER ON SURFACE AND MORPHOLOGICAL PROPERTIES OF ALUMIN 431 ALLOY AYSE NUR ACAR, DOĞAN KAYA, ABDUL KADİR EKİ, AHMET EKİCİBİL
	TICMET23-0134 - AN APPROACH FOR DETERMINING THE OPTIMUM LASER POWER AND SCANNING SPEED IN THE SLM PROCESS OF NICKEL PLATED WC POWDERS TEVİK OĞUZHAN ERGÜDER, ONUR GÜLER, FATİH YILDIZ
	TICMET23-0135 - SELECTIVE LASER MELTING OF COCrFeMnNi HIGH ENTROPY ALLOY EFFECT OF LASER POWER AND SCANNING SPEED CANER BULUT, TEMEL VAROL, TEVİK OĞUZHAN ERGÜDER, FATİH YILDIZ

14.11.2023 - TUESDAY (12:00 – 13:15)	
Chair: Prof. Dr. Ali Tolga BOZDANA Full Text Presentations	
HALL 2	TICMET23-0003 - MAGNESIUM INCORPORATED POLYMER FILAMENTS FOR POTENTIAL USE IN BONE IMPLANTS SUMAMA NUTHANA KALVA, MUAMMER KOC
	TICMET23-0144 - EFFECT OF GEOMETRY AND MATERIAL OF ELECTRODE IN ELECTRICAL DISCHARGE DRILLING OF TUNGSTEN CARBIDE ALI TOLGA BOZDANA, ABDULLAH GAZİ FIRAT
	TICMET23-0082 - IMPROVEMENT OF THE INTERNAL SURFACES OF INFANTRY RIFLE BARRELS WITH ELECTROLYTIC HARD CHROME PLATING UGUR TEMEL YILDIZ, TEMEL VAROL, SERHATCAN BERK AKÇAY, GENÇAGA PURÇEK
	TICMET23-0092 - IMPROVEMENT OF 42CRMO4 LOW ALLOY STEEL SURFACE BY NITROCARBURIZATION AND ELECTROLESS Ni P PLATING UGUR TEMEL YILDIZ, TEMEL VAROL, BURAK BERK DAY, BUSRA KANDEMİR, FURKAN ALPTEKİN, AHMET FUAT GÜNACAR
	TICMET23-0146 - SURFACE TREATMENT OF Ti 6Al 4V USING CONVENTIONAL AND ULTRASONIC DEEP COLD ROLLING PROCESSES ALI TOLGA BOZDANA

14.11.2023 - TUESDAY (12:00 – 13:15)

Chair: Prof. Dr. Ömer Necati CORA Abstract Presentations

HALL 3	TICMET23-0078 - VACUUM ASSISTED 3W TECHNIQUE FOR MEASURING THERMAL CONDUCTIVITY IN MAGNETRON SPUTTERED BI SE TE THIN FILMS GIZEM DURAK YUZUAK, NUR EFSAN YILMAZ, ERCUMENT YUZUAK
	TICMET23-0105 - SIZE EFFECT FOR GRAPHENE A REVIEW OMER NECATI CORA, HAJI ABDULLAYEV
	TICMET23-0152 - TECHNOLOGICAL MATERIALS PROCESSING BY USING LASER TECHNOLOGIES BEKIR OZCELIK
	TICMET23-0116 - DEVELOPMENT AND CRITICAL DESIGN OF MAGNETIC TORQUE ROD FOR LEO SATELLITES UGUR TOPAL, HAVA CAN
	TICMET23-0064 - VISCOSITY INDEX OF NANOPARTICLE ENRICHED VEGETABLE OILS USED AS LUBRICANTS SEVGİ CIRA, MELDA OZDINC CARPINLIOGLU
	TICMET23-0073 - ADDITIVE MANUFACTURING OF HONEYCOMB LATTICE STRUCTURE WITH CONTINUOUS FIBER REINFORCED THERMOPLASTIC COMPOSITES ALTUG USUN, BAHRI BARIS VATANDAS, RECEP GUMRUK
	TICMET23-0153 - EXAMINING NECK GROWTH CHANGES IN 3D PRINTED ULTEM 1010 MATERIAL AT VARIOUS HEAT TREATMENT TEMPERATURES SUAT ONAL, NECIP FAZIL YILMAZ

14.11.2023 - TUESDAY (12:00 – 13:15)

Chair: Assoc. Prof. Dr. Abdulcabbar YAVUZ Online Presentations / Zoom Link: <https://bit.ly/TueS3H4>

HALL 4	TICMET23-0022: COMPARISON OF TENSILE PROPERTIES OF SINGLE AND PLIED POLYPROPYLENE FRIEZE YARNS CEMILE EMEL YAZ, GULBIN FIDAN
	TICMET23-0031: MECHANICAL AND MICROSTRUCTURAL INVESTIGATION OF DISSIMILAR S235 AND S32205 STEEL SHEETS AFTER TIG WELDING AZİZ BARIS BASYIGIT, ALI GUL, HALİL İBRAHİM KURT
	TICMET23-0121: COUPLED EFFECTS OF FIBER ORIENTATION AND ELEVATED TEMPERATURES ON MECHANICAL PERFORMANCE OF CARBON FIBER REINFORCED POLYMER COMPOSITES FETİYE ESİN YAKIN, CAHİT ORHUN SENOL, HASAN ULUS, EMİNE FEYZA SUKUR, MEHMET YILDIZ, HATİCE S SAs
	TICMET23-0088: EXPERIMENTAL AND NUMERICAL INVESTIGATION OF THE FORCE DEFORMATION PROPERTIES OF PURE COPPER SAMPLES PRODUCED BY INDUCTION SYSTEM ALPER MUTLU, MUSTAFA MURAT YAVUZ, UĞUR CAVDAR
	TICMET23-0090 - INVESTIGATION OF EFFECT OF DRAW FRAME PASSAGES ON OPEN END YARN QUALITY ALİ OSMAN HAN, HALİL İBRAHİM CELİK, GOKHAN TANDOGAN
	TICMET23-0057 - OPTIMIZATION OF SPECIFIC COMPRESSION STRENGTH OF ABS SAMPLES PRODUCED WITH FDM BY TAGUCHI METHOD OGUZ TUNCEL
	TICMET23-0063: CAM ELYAF TAKVIYELİ NANO KOMPOZİT MALZEMELERİN DELME PARAMETRELERİNİN VİKOR YONTEMLİLE OPTİMİZASYONU YUSUF FEDAI
	TICMET23-0120 - FOTOVOLTAİK TEKNOLOJİSİNİN GÜNCEL DURUMU VE KAPSAMLI DEĞERLENDİRMESİ NECİP FAZİL YILMAZ, HASAN MİTHAT DELİBAS
	TICMET23-0023: FARKLI ATKI SIKLIĞINDAKİ POLYESTER HAVLI HALILARDA STATİK YÜKLEME SONRASINDA REZİLYANS PERFORMANSININ İNCELENMESİ GULBIN FIDAN, BETUL TURAN

SESSION IV

15.11.2023 - WEDNESDAY (08:45 – 10:15)

Chair: Assoc. Prof. Dr. Mustafa Ergin ŞAHİN Full Text Presentations

HALL 1	TICMET23-0066 - DISCOVERY THE STRATEGY ON ENHANCEMENT OF CARBON QUANTUM DOTS CONDUCTIVITY FOR SUPERCAPACITOR ELECTRODE DEVELOPMENT SİTİ AISYAH SHAMSUDIN, HARIVALAGAN SIVA KUMAR
	TICMET23-0094 - METAL HYDRIDE CONVERSION ANODES FOR ALKALI ION BATTERIES A MACHINE LEARNING PERSPECTIVE KATARİNA BATALOVİC, BOJANA KUZMANOVİC, MIRJANA MEDİC İLİC, BOJANA PASKAS MAMULA, JANA RADAKOVİC
	TICMET23-0095 - DFT STUDY OF HYDROGEN INTERACTION WITH NICKEL AND NICKEL ALLOYS KATARİNA BATALOVİC, TANJA ANTANASIJEVIC, IGOR PASTI

	TICMET23-0017 - INTERCALATION REACTION ON LITHIUM ION BATTERY EFFECT ON CELL CHARACTERISTICS THEODORE AZEMTSOP MANFO, MUSTAFA ERGIN SAHIN
	TICMET23-0037 - THE RISE OF GREEN HYDROGEN A PROMISING OPPORTUNITY FOR A SUSTAINABLE ENERGY TRANSITION TOUFIK SEBBAGH, LAMIA BENZAID, MUSTAFA ERGIN SAHIN
	TICMET23-0024 - ENERGY MANAGEMENT STRATEGY BASED ON A ROBUST FREQUENCY DECOUPLING AND PARTICLE SWARM OPTIMIZATION FOR BATTERY SUPERCAPACITOR ELECTRIC VEHICLES KHOUDIR KAKOUCHE, MUSTAFA ERGIN SAHIN, THEODORE AZEMTSOP MANFO, HARTANI MOHAMED AMINE, DJAMILA REKIOUA, TOUFIK REKIOUA

15.11.2023 - WEDNESDAY (08:45 – 10:15)

Chair: Prof. Dr. Ömer EYERCİOĞLU Full Text Presentations

HALL 2	TICMET23-0071 - EFFECT OF CARBON FIBER ADDITIVE ON TENSILE PROPERTIES OF LARGE SCALE ADDITIVE MANUFACTURED LSAM ABS SINGLE WALL PARTS OMER EYERCIOGLU, ENGIN TEK, MEHMET ALI AKELOGLU, MEHMET ALADAG
	TICMET23-0128 - A COMPARATIVE STUDY OF MACHINE LEARNING ALGORITHMS ON PREDICTING DELAMINATION IN CARBON FIBER REINFORCED POLYMER CFRP DRILLING PROCESS AMMAR TARIK DINCER, UMUT KARAGUZEL, MUSTAFA BAKKAL
	TICMET23-0067 - EFFECTS OF SILVER SOURCE SOLUTION MOLARITY ON THE ELECTROLESS SILVER COATING OF RECYCLED TI GRADE 4 PARTICLES TEMEL VAROL, SERHATCAN BERK AKCAY, UMIT ALVER, MURAT BEDER
	TICMET23-0089 - VALORIZATION OF MARBLE SLAB CUTTING WASTES AS MICRONIZED MARBLE POWDER CALCITE MUSTAFA BIRINCI, CIMEN GUL KULUSAKLI
	TICMET23-0010 - OPTIMIZATION OF BLDC TRACTION MOTOR PARAMETERS IN ELECTRIC VEHICLES WITH WHALE OPTIMIZATION ALGORITHM MURAT TOREN, HAKKI MOLLAHASANOGLU
	TICMET23-0012 - THE EFFECT OF NANOPARTICLE FLUID COOLERS ON THE LIFE AND PERFORMANCE OF DISTRIBUTION TYPE TRANSFORMERS MURAT TOREN, HAKKI MOLLAHASANOGLU

15.11.2023 - WEDNESDAY (08:45 – 10:15)

Chair: Prof. Dr. Ali Tolga BOZDANA Abstract Presentations

HALL 3	TICMET23-0122 - THE MODE II INTERLAMINAR CRACK MIGRATION AND R CURVE BEHAVIOUR OF CARBON EPOXY LAMINATES WITH THE HYBRID USE OF CORE SHELL RUBBER PARTICLES AND NON WOVEN THERMOPLASTIC VEILS MEHMET CAGATAY AKBOLAT, KALI BABU KATNAM, PRASAD POTLURI
	TICMET23-0086 - PREPARATION OF NI B GRAPHENE COATINGS WITH ELECTROLESS DEPOSITION TECHNIQUE SUMRAN BILGIN, SAMET TOPAL, YUNUS EMRE USTA, MUHAMMET SADRI BAYRAK, MUSTAFA BAYRAM, UMIT ALVER
	TICMET23-0036 - USE OF WASTE MATERIALS IN GEOTECHNICAL ENGINEERING FURKAN YILDIZ, ALI FIRAT CABALAR
	TICMET23-0008 - CONTROLLING ELECTRON MOVEMENT WITH MAGNETIC FIELD IN ELECTROSPINNING METHOD A OZGUR POLAT, S ALPEREN CELTEK, MUSTAFA TEKBAS, EMRE KACMAZ, GAMZE KARANFIL KACMAZ
	TICMET23-0131 - THERMAL INSULATION PERFORMANCE ASSESSMENT OF BRIQUETTES WITH NOVEL RESISTIVE PLASTERS AN EXPERIMENTAL RESEARCH ERDEM CUCE, PINAR MERT CUCE, EMRE ALVUR, YUSUF NADIR YILMAZ
	TICMET23-0117 - THEORETICAL VERIFICATION OF EXPERIMENTALLY PRODUCED COBALT DOPED MAGNETITE NANOPARTICLES WITH ADDITION OF BORON OXIDE KEVSER TOPAL

15.11.2023 - WEDNESDAY (08:45 – 10:15)

Chair: Assoc. Prof. Dr. Kürşad GÖV Online Presentations / Zoom Link: <https://bit.ly/WedS4H4>

HALL 4	TICMET23-0029: COMPARATIVE SURFACE FINISHING ON TI 6AL 4V BY AFM VS GOV PROCESSES EYUP YETER, MURAT KALAK, IBRAHIM GOV, KURSAD GOV
	TICMET23-0030: INVESTIGATION OF THE MICROHARDNESS BEHAVIOUR OF INCONEL 718 BY FLOW PEENING GOV PROCESS EYUP YETER, MURAT KALAK, MEHMET HANIFI DOGRU, KURSAD GOV
	TICMET23-0032: LATERAL BUCKLING INVESTIGATION ON REINFORCED EPP FOAM WITH CARBON EPOXY LAMINATES FOR UAV USAGE EYUP YETER, BURAK SAHIN, MURAT KALAK, KURSAD GOV
	TICMET23-0033: COMPARATIVE MECHANICAL INVESTIGATION ON UAV WINGS REINFORCED WITH EPP FOAM AND CARBON EPOXY LAMINATES EYUP YETER, MURAT KALAK, MUSTAFA VARKI
	TICMET23-0106: COMPARISON STUDY ON MECHANICAL PROPERTIES OF POLY VINYL ACETATE AND EPOXY COMPOSITES FILLED TREATED RENEWABLE MATERIAL AHMAD MOUSA

	TICMET23-0145 - THE ROLE OF INK RHEOLOGY AND PRINTING PARAMETERS IN CONTROLLING THE RESOLUTION AND ACCURACY OF DIRECT INK WRITING 3D PRINTING FAWAD ALI, MUAMMER KOC
	TICMET23-0061 - ENHANCED LIGHTWEIGHT DESIGN OF ORTHOPEDIC BONE PLATES THROUGH TOPOLOGY OPTIMIZATION AND ADDITIVE MANUFACTURING DURMUS ALI BIRCAN, ABDUL KADIR ESKI
	TICMET23-0056: CONTINUOUS CASTING OF CU MG ALLOY ROD ZAKARIA BOUMERZOU, PAWEL STRZEPE, ANDRZEJ MAMALA, THIERRY BAUDIN, FRANCOIS BRISSET, MALGORZATA ZASADZINSKA, PIOTR NOGA

INVITED SPEAKERS SESSION

15.11.2023 - WEDNESDAY (10:30 – 11:15)

Chair: Prof. Dr. Necip Fazıl YILMAZ

Face-to-Face:

MAIN HALL	PROF. DR. BEKİR ÖZÇELİK – ÇUKUROVA UNIVERSITY TECHNOLOGICAL MATERIALS PROCESSING BY USING LASER TECHNOLOGIES Lazer Teknolojileri Kullanarak Teknolojik Malzemelerin İşlenmesi Presentation language: English Speaking language: Turkish
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SESSION V

15.11.2023 - WEDNESDAY (11:30 – 13:00)

Chair: Prof. Dr. Sultan ÖZTÜRK Full Text Presentations

HALL 1	TICMET23-0035 - INVESTIGATING OF PROCESS PARAMETERS IN ROTARY SWAGING HASAN AYTUG KURT, HASAN ÇAKIR, MUSTAFA BAKKAL, Umut KARAGÜZEL, ALI TANER KUZU
	TICMET23-0052 - INVESTIGATION OF PROCESS INDUCED FAILURES USING FAULT TREE ANALYSIS METHOD IN A PROCESS GAS COMPRESSOR ISMAIL ALTIN, AKBAR FAKHERNIA
	TICMET23-0137 - STUDY ON TOPOLOGY OPTIMIZATION OF SCRAPER CONVEYOR CHAIN HAMIT TURKMEN, MELİH GAZI KIRPIK, TUGRUL SAPMAZ, FETHİYE YALCIN
	TICMET23-0072 - OPTIMAL ENRGY MANAGEMENT SYSTEM IN A GRID CONNECTED RENEWABLE HYBRID SYSTEM WITH DIRECT POWER CONTROL FATİMA MENZRI, TAREK BOUTABBA, MUSTAFA ERGİN SAHİN
	TICMET23-0074 - TWO DIFFERENT TYPES OF SENSORLESS CONTROL APPLIED TO THREE PHASE PWM RECTIFIER ANİSSA AHMANE, MUSTAFA ERGİN SAHİN, DJAMEL SAKRI, NOUREDDINE GOLEA
	TICMET23-0132 - DESIGN AND CONTROL OF NONISOLATED DC DC MODULAR MULTILEVEL CONVERTER FOR INTERCONNECTION OF HIGH VOLTAGE DIRECT CURRENT GRIDS ABDURRAHİM ERAT, AHMET METE VURAL

15.11.2023 - WEDNESDAY (11:30 – 13:00)

Chair: Dr. Kürşat İÇİN Full Text Presentations

HALL 2	TICMET23-0021 - FARKLI KİLİTLEME KİMYASALI VE SIKMALI SOMUN KULLANILAN MONTAJ KOSULLARINDA GEVSEME DİRENCİNİN İNCELENMESİ BAYBARS SARICA, TOLGA AYDIN, SAMED ENSER, MUHAMMED BURAK TOPARLI, Umut İNCE
	TICMET23-0015 - AL 5182 SERİSİ SAÇLARIN DP800 SERİSİ SAÇLARLA CMT METODUYLA BİRLESTİRİLEBİLİRLİĞİNİN İNCELENMESİ CİHAN YAKUPOĞLU, UFUK ÖZTÜRK, İBRAHİM ACAR, FARUK VAROL
	TICMET23-0020 - PASLANMAZ ÇELİK CIVATALARIN KOROZYON DİRENÇLERİNİN İNCELENMESİ DOĞUS ZEREN, MUHAMMED BURAK TOPARLI, SAMED ENSER, Umut İNCE
	TICMET23-0118 - FARKLI CAPLARDA AL2024 T3 BORU NUMUNELERE BUZME İŞLEMİ UYGULANMASI MUSTAFA TAŞ, ABDUL KADİR EKSİ
	TICMET23-0050 - ALUMİNYUM ESASLI AÇIK HÜCRELİ METALİK KOPUKLERİN ÜRETİMİ YAPISAL VE MEKANİK ÖZELLİKLERİNİN İNCELENMESİ ZAFER GOLBASİ, BÜLENT ÖZTÜRK, NURAY BEKOZ ULLEN
	TICMET23-0147 - INFLUENCE OF ANNEALING TIME ON 1 FE DOPED ZNO FILMS PRODUCED BY ULTRASONIC SPRAY PYROLYSIS DAMLA DİLARA ÇAKIL, MERYEM POLAT GONULLU, CEMİL CETİNKAYA, OMER SAHİN

15.11.2023 - WEDNESDAY (11:30 – 13:00)

Chair: Prof. Dr. Ümit ALVER Abstract Presentations

HALL 3	TICMET23-0025 - SOLID PARTICLE EROSION PERFORMANCE OF DRONE PROPELLER MATERIALS DOĞAN ACAR, DURSUN MERİC, HASAN GEDİKLİ, ANDREAS SCHULZ, ÖMER NECATİ CORA
	TICMET23-0093 - STRUCTURAL AND MORPHOLOGICAL ANALYSIS OF BORIDED 2842 STEEL THE EFFECT OF BORIDING TIME HASAN ONUR TAN, SELÇUK ATASOY, SİTKİ AKTAŞ
	TICMET23-0098 - EFFECT OF LASER SURFACE TEXTURING ON THE TRIBOLOGICAL PERFORMANCE OF ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE MATERIALS TUFAN CAVRAR, RADKA BICISTOVA, TOMAS PRIMUS, PETR HAUSCHWITZ, JAN BRAJER, ÖMER NECATİ CORA
	TICMET23-0111 - STRENGTHENING AL 2024 ALLOY VIA EQUAL CHANNEL ANGULAR PRESSING AND SUBSEQUENT AGING MUHAMMET DEMİRTAŞ, HARUN YANAR, MUHAMMET UZUN, MELİH USTALAR, GENÇAGA PURÇEK
	TICMET23-0126 - THE EFFECT OF Ti ON MICROSTRUCTURAL AND HYDROGEN STORAGE PROPERTIES OF Mg₂Ni ALLOYS SEFA EMRE SUNBUL, KURSAT İCİN
	TICMET23-0069 - ELYAF CESİTLERİNİN FREN BALATASI SURTUNME MALZEMELERİNİN FİZİKSEL ÖZELLİKLERİ ÜZERİNE ETKİSİ BUŞE YUKSEL YAHSI, ONUR ÖZCAN
	TICMET23-0139 - NADİR TOPRAK ELEMENTİ İÇEREN YÜKSEK ENTROPİLİ OKSİTLERİN KENDİLİĞİNDEN YANMA SENTEZİ İLE ÜRETİMİ KURSAT İCİN, SEFA EMRE SUNBUL

15.11.2023 - WEDNESDAY (11:30 – 13:00)

Chair: Assoc. Prof. Dr. Esin SARIOĞLU Online Presentations / Zoom Link: <https://bit.ly/WedS5H4>

HALL 4	TICMET23-0005: MATHEMATICAL MODELING OF BIO CONCRETE STRUCTURES UNDER THERMAL LOADING BENBAKHTI ABDELJALİL, BENFRID ABDELMOUTALIB, HARRAT ZOUAOUİ RABİE, BACHİR BOUİADJRA MOHAMED, CHATBİ MOHAMED
	TICMET23-0007: ASSESSING THE ROLE OF NUCLEAR ENERGY IN THE ENERGY BALANCE OF THE UAE OPPORTUNITIES RISKS AND STRATEGIC CONSIDERATIONS MARYAM ALSHEHHI, ABDULRAHMAN ALAWADHI, AHMAD SAKHRIEH
	TICMET23-0041: HYBRID AND ELECTRIC VEHICLES ENERGY EFFICIENCY IMPROVEMENT USING COMPUTER AIDED DESIGN MUSTAFA AKTAŞ, BARİS CAVUŞ
	TICMET23-0042: SYNTHESIS AND PHOTOCATALYTIC DEGRADATION CAPABILITY OF DISTINCT ZNO MORPHOLOGIES DERYA KAPUSUZ YAVUZ, MUHAMMED EL ACCEN, METİN BEDİR
	TICMET23-0044: THE ANALYSIS OF THE EFFECT OF POROSITY ON THE THERMAL STABILITY RESPONSE FOR FG BEAMS BELLİFA HICHEM, BOUSAHLA ABDELMOUMEN ANİS, BENBAKHTI ABDELJALİL
	TICMET23-0102: INDIUM OXIDE COATED FLEXIBLE ELECTRODE CYCLING IN AN IONIC LIQUID ABDULCABBAR YAVUZ
	TICMET23-0103: FABRICATION OF COATED GRAPHITE WIRE FOR FLEXIBLE ELECTRONIC APPLICATION METİN BEDİR, ABDULCABBAR YAVUZ
	TICMET23-0150 - SUSTAINABLE AND BIODEGRADABLE NONWOVEN FABRICS USING BIOBINDERS TULİN KAYA NACARKAHYA, ESİN SARIOĞLU, SEYMA SATIL



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