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MİLLÎ MÜCADELE'NİN YÜZÜNCÜ YILI



METEM
TMMOB METALURJİ VE MALZEME
MÜHENDİSLERİ ODASI EĞİTİM MERKEZİ



3rd INTERNATIONAL MATERIALS TECHNOLOGIES AND METALLURGY CONFERENCE-2023

11-13 October 2023

ITU SULEYMAN DEMIREL CONFERENCE CENTER
ISTANBUL - TÜRKİYE

SCIENTIFIC PROGRAM

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3rd INTERNATIONAL MATERIALS TECHNOLOGIES AND METALLURGY CONFERENCE-2023
11-13 October 2023 • İTÜ SÜLEYMAN DEMİREL CONFERENCE CENTER • İSTANBUL - TÜRKİYE



OCTOBER 11, 2023, WEDNESDAY

- 08:30-09:20** Registration
- 09:20-09:30** Prof. Dr. Gultekin Goller - Istanbul Technical University, Türkiye - Opening Speech
- 09:30-09:40** Ata Ozdemirler - METEM - Opening Speech
- 09:40-09:50** Prof.Dr.Ismail Koyuncu-Rector- Istanbul Technical University, Türkiye
- 09:50-10:05** Presentation of Plaques
- 10:05-10:20** Yaşar Hacı Altürk-Ereğli Demir ve Çelik Fabrikaları T.A.Ş.-Türkiye
- Session Chair: Prof. Dr. Ozgul Keles - Istanbul Technical University**
- 10:20-10:40** **Plenary Speaker**
Prof. Dr. Iulian Antoniac - Materials Science and Engineering Faculty, University Politehnica of Bucharest, Romania
Correlations Between Materials, Methods, and Clinical Needs Regarding the Coatings for Biodegradable Mg Alloys
- 10:40-11:00** **Plenary Speaker**
Dr. Csaba Balazsi - Centre for Energy Research, Eötvös Loránd Research Network (ELKH), Hungary
Current Status and Future Trends in Nanocarbon Added Ceramics
- 11:00-11:20** **Family Photo – COFFEE BREAK**
- Session Chair: Prof. Dr. Onuralp Yucel - Istanbul Technical University**
- 11:20-11:40** **Plenary Speaker**
Prof. Dr. Julia Claudia Mirza Rosca - Las Palmas de Gran Canaria University, Canary Islands, Spain
Exciting and Promising New Class of Materials for the Future: High Entropy Alloys
- 11:40-12:00** **Plenary Speaker**
Prof. Dr. Gabriella Tranell - The Norwegian University of Science and Technology, Norway
Recycling of Aluminium and Aluminium Sidestreams for Resource Efficient Production
- 12:00-13:30** **Lunch**
- 13:30-13:50** **Plenary Speaker**
Prof. Dr. Eda Tahir Turanli - Faculty of Engineering and Natural Sciences, Dept.of Molecular Biology and Genetics, Acibadem University, Türkiye
Current Progress in Identifying Disease Genes: Insights from Multiple Sclerosis
- 13:50-14:10** **Plenary Speaker**
Prof. Dr. Buket Aksu - Altinbas University, Türkiye
Industry 5.0 and Society 5.0



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- 14:10-14:30 Plenary Speaker**
Prof. Dr. Hakan Gür - Department of Metallurgical and Materials Engineering, Middle East Technical University, Türkiye
The Place of Nondestructive Testing and Characterization in the Manufacturing Chains Modified Under the Effect of Industry 4.0 and 5.0 Approaches
- 14:30-14:50 Plenary Speaker**
Prof. Dr. Capt. Taner Albayrak - Piri Reis University, Türkiye
C-Ports "Circular Economy in European Maritime Ports"
- 14:50-15:10 Plenary Speaker**
Dr. Baris Yavas - University of Connecticut, USA
Use of Laser Glazing to Evaluate an Al-Cu-Fe-Cr Alloy Containing Icosahedral Quasicrystalline Dispersoids as a Candidate Material for Additive Manufacturing
- 15:10-15:30 COFFEE BREAK**
- 15:30-17:30 Industry Professionals and Student Meeting (in Turkish)**
- 15:30-16:30 POSTER SESSION**

OCTOBER 12, 2023, THURSDAY

ADVANCED CERAMICS AND COMPOSITES

MAIN HALL

Session Chairs: Prof. Dr. Cihangir Duran and Assoc. Prof. Dr. Takashi Shirai

- 09:30-09:50 Plenary Speaker**
Assoc. Prof. Dr. Takashi Shirai - Advanced Ceramics Research Center, Nagoya Institute of Technology, Japan
Fabrication of Functional Porous Ceramics by Gel-Casting and Its Applications
- 09:50-10:10 Plenary Speaker**
Prof. Dr. Cihangir Duran - Metallurgical and Materials Engineering Department, Ankara Yıldırım Beyazıt University, Türkiye
Compositional Engineering of Glass/Ceramic Composites for Low Temperature Co-Fired Ceramic Applications
- 10:10-10:25 Semih Ates - Istanbul Technical University, Türkiye**
(Cr,V)_xC_y-T MXene Materials Derived from (Cr,V)₂AlC Max Phases Synthesized via Powder Metallurgy Methods (1069)
- 10:25-10:40 Ayse Berksoy Yavuz - Istanbul Gedik University, Türkiye**
Lead-Free Lithium-Modified KNN Spherical Shell Transducer Application and Their Properties (1090)
- 10:40-10:55 Namik Kemal Gozuacik - Gebze Technical University, Türkiye**
Effect of Nd Doping on Electrical Properties of 0.854BNT-0.12BKT-0.026BT Piezoceramics (1088)
- 10:55-11:10 COFFEE BREAK**



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ADVANCED CERAMICS AND COMPOSITES

MAIN HALL

Session Chairs: Prof. Dr. Cihangir Duran and Assoc. Prof. Dr. Takashi Shirai

- 11:10-11:25** Ezgi Yalcin - Gebze Technical University, Türkiye
Determination of Electrocaloric Properties of Nd-Doped PNN-PZT Ceramics and Piezocomposites (1062)
- 11:25-11:40** Selva Astan - Sivas Cumhuriyet University, Türkiye
Dielectric and Electromechanical Properties of Textured BiScO₃-PbTiO₃ Based High Temperature Piezoceramics (1053)

ELECTRONIC, MAGNETIC AND OPTICAL MATERIALS

MAIN HALL

Session Chairs: Prof. Dr. Cihangir Duran and Assoc. Prof. Dr. Takashi Shirai

- 11:40-11:55** Ji-su Yuk - Gyeongsang National University, Korea, South
Structural and Electrical Properties of (La_{0.7}Sr_{0.3}) MnO₃/BiFeO₃ Multilayer Thin Films Prepared by Sol-Gel Method (1075)
- 11:55-12:10** Volkan Kalem - Konya Technical University, Türkiye
Synthesis of Bi_{0.5}NaO_{0.5}TiO₃ Nanocrystalline Powders by a Solution Coating Method (1043)

12:10-13:30 LUNCH

NANOMATERIALS

MAIN HALL

Session Chairs: Prof. Dr. Simona Cavalu and Ass. Prof. Marcin Nabialek

- 13:30-13:50** **Plenary Speaker**
Prof. Dr. Simona Cavalu - Faculty of Medicine and Pharmacy, University of Oradea, Romania
Metallic Nanoparticles: Sustainable Approach for Environmental and Biomedical Applications
- 13:50-14:10** **Plenary Speaker**
Prof. Dr. Julietta V. Rau - Istituto di Struttura della Materia, Consiglio Nazionale delle Ricerche (ISM-CNR), Italy
Antibacterial Strategies Applied to the Design of Ceramic Materials for Biomedical Implants
- 14:10-14:30** **Plenary Speaker**
Assoc. Prof. Dr. Marcin Nabialek - Institute of Physics, Faculty of Processing Engineering and Materials Technology, Czestochowa University of Technology (PCz), Poland
Methods for the Production of Bulk Iron-Based Amorphous and Nanocrystalline Materials and their Properties
- 14:30-14:45** Cagin Bolat - Samsun University, Türkiye
Nanoparticle-Enhanced Machinability of Natural Fiber-Reinforced Composites: Effect of Tool Diameter and Process Parameters (1086)
- 14:45-15:00** Mert Saracoglu - Istanbul Technical University, Türkiye
Tuning the Properties of Nano-Materials by Lattice Strain: Cause and Effects (1068)



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15:00-15:15 **Mücahid Ozcan - Adıyaman University,Türkiye**
Electrospinning of Zeolite ZSM-5 Reinforced PVA-Gelatin Nanofibers for Mains Water Purification. **(1031)**

15:15-15:30 **COFFEE BREAK**

NANOMATERIALS

MAIN HALL

Session Chairs: Prof. Dr. Simona Cavalu and Ass. Prof. Marcin Nabialek

15:30-15:45 **Elif Nida Goksu - TOBB University of Economics and Technology,Türkiye**
Design of Fly Ash Based Nanocomposites for Improvement Thermal Energy Storage Capacity of the Nitrate Salts **(1030)**

SPECIAL TOPICS

MAIN HALL

Session Chairs: Prof. Dr. Simona Cavalu and Ass. Prof. Marcin Nabialek

15:45-16:00 **Hakan Kocak - Sağlam Metal San. ve Tic. A.Ş.,Türkiye**
Footprint of the Cannon Casting Industry: Usulü's Siyaga **(1063)**

16:45 **CLOSING CEREMONY**

ENERGY MATERIALS

HALL I

Session Chair: Assoc. Prof. Dr. Deniz Karahan

09:30-09:50 **Plenary Speaker**
Prof. Dr. Hasan Gocmez - Department of Metallurgical and Materials Engineering at Kutahya Dumlupınar University, Türkiye
Metal Borides For Supercapacitor Electrodes Materials

09:50-10:05 **Suna Avcioglu - Yıldız Technical University,Türkiye**
Discovering The Potential of B₄C-Bn Nanocomposite Powders for The Fabrication of New-Generation Supercapacitor Electrodes **(1060)**

10:05-10:20 **Ipek Tunc - Istanbul Technical University,Türkiye**
Rice Husk-Derived Silica Anodes for Lithium-Ion Batteries **(1059)**

10:20-10:35 **Vecihe Elif Imamoglu - Yıldız Technical University,Türkiye**
Non-Catalytic Sol-Gel Synthesis of Nano/Micro B₄C Fibers and Its Utilization in Electrodes for Supercapacitors **(1061)**

10:35-10:50 **Ali Kemal Mak - Şişecam,Türkiye**
Development and Characterization of Al³⁺ Based Electrochromic Structures by Magnetron Sputtering Method **(1017)**

10:50-11:10 **COFFEE BREAK**



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11-13 October 2023 • İTÜ SÜLEYMAN DEMİREL CONFERENCE CENTER • İSTANBUL - TÜRKİYE

ENERGY MATERIALS

HALL I

Session Chair: Asst. Prof. Dr. Suna Avcioglu

- 11:10-11:25** **Gulgun Zehra Senyurt - Istanbul Technical University,Türkiye**
Cobalt Free Cathodes for High Performance Lithium-Ion Batteries (1021)
- 11:25-11:40** **Cagla Ozgur - Middle East Technical University,Türkiye**
Nano-Porous High Entropy Oxide Electrocatalyst for Hydrogen Production (1049)
- 11:40-11:55** **Cihan Kuru - Bilecik Seyh Edebali University,Türkiye**
An Electrochemical Approach for Borophene Production (1057)
- 11:55-12:10** **Emre Ergen - Izmir Institute of Technology,Türkiye**
Coating of $\text{La}_{0.3}\text{Ca}_{0.7}\text{Fe}_{0.7}\text{Cr}_{0.3}$ Cathode Layers on GDC by ESD (1052)

12:10-13:30 LUNCH

RECYCLING AND SUSTAINABILITY

HALL I

Session Chair: Assoc. Prof. Dr. Seref Sonmez

- 13:30-13:50** **Plenary Speaker**
Prof. Dr. Nese Sahin Yesilcubuk - Istanbul Technical University, Dept. Of Food Eng., Türkiye
Exploring the Potential of Food Processing Residues for Biopolymers as Biodegradable Packaging Materials and Coatings
- 13:50-14:10** **Plenary Speaker**
Prof. Dr. Selim Senkan - Department of Chemical and Biomolecular Engineering University of California Los Angeles (UCLA), USA
Catalysis/Materials Science Meets Artificial Intelligence: A New Path for Sustainability
- 14:10-14:25** **Viorica Ghisman - Dunarea de Jos University of Galati,Türkiye**
Recycling Waste Steel Slag to Improve the Soil Acidity (1077)
- 14:25-14:40** **Simge Tarkuc - Arçelik Co.,Türkiye**
The Optimization of the Working Parameters of Bipolar Membrane Electrodialysis System for Acid and Base Solution Production (1072)
- 14:40-14:55** **Necdet Oguz Yanar - Istanbul Technical University,Türkiye**
The Production of Fused Alumina by EAF using Aluminum Dross as Raw Material (1058)
- 14:55-15:10** **Meltem İpekci Terzioğlu-Istanbul Technical University-Kalekim Construction Chemicals Co.,Türkiye**
Development of Flexible Waterproofing Mortar from Geopolymer (1012)
- 15:10-15:30 COFFEE BREAK**



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11-13 October 2023 • İTÜ SÜLEYMAN DEMİREL CONFERENCE CENTER • İSTANBUL - TÜRKİYE



RECYCLING AND SUSTAINABILITY

HALL I

Session Chair: Assoc. Prof. Dr. Seref Sonmez

15:30-15:45 Bilge Turanlı - Istanbul Technical University,Türkiye
The Pyrorefining of Waelz Oxide in Rotary Kiln (1055)

15:45-16:00 Hayri Atalay Kul - Proses Makina,Türkiye
PCAM Production from Spent Lithium Batteries (1056)

ARCHEOMETRY, TRADITIONAL CLAY-BASED MATERIALS

HALL I

Session Chair:Asst. Prof. Dr. Ozden Ormanci

16:00-16:15 Memduha Zeynep Atasayar - Mimar Sinan Fine Arts University,Türkiye
Mineralogical Characterization of Iron Age Ceramic Fragments (1089)

BIOMATERIALS, BIOTECHNOLOGY AND DRUG DELIVERY SYSTEMS

HALL II

Session Chairs: Prof. Dr. Corrado Piconi and Prof. Dr. Catalin Popa

09:30-09:50 **Plenary Speaker**
Prof. Dr. Corrado Piconi - Italian National Research Council, Institute for the Science and Technology of Ceramics, (CNR-ISTEC) Faenza (RA), Italy
Dental Implants: From Gold to Zirconia, and Beyond

09:50-10:10 **Plenary Speaker**
Prof. Dr. Catalin Popa - Technical University of Cluj-Napoca, Romania
Microscopic Level Physical Effects in Medical Applications

10:10-10:25 Alina Robu - National University of Science and Technology Politehnica Bucharest, Romania
The Influence of the Test Environment and the Composition of Magnesium Alloys on the Degradation Process (1092)

10:25-10:40 Ozden Kisacik - TENMAK-BOREN,Türkiye
Biocompatibility Study of Lab_e Films Produced By Magnetron Sputtering (1051)

10:40-10:55 Hakan Yilmazer - Yıldız Technical University, Türkiye
Exploring the Potential of Zinc-Based Copper and Manganese Alloy as a Novel Material for Urethral Stents (1015)

10:55-11:10 **COFFEE BREAK**

POWDER METALLURGY

HALL II

Session Chair: Assoc. Prof. Dr. Mustafa Guven Gok

11:10-11:25 Mustafa Guven Gok - Gaziantep University, Türkiye
Finite Element Modelling of the Spark Plasma Sintering Process of Alumina (1029)

11:25-11:40 Berk Senyurt - Bursa Technical University
Mechanical Activation Assisted Synthesis and Characterization of Cr₂AlC Max Phase (1044)



3rd INTERNATIONAL MATERIALS TECHNOLOGIES AND METALLURGY CONFERENCE-2023
11-13 October 2023 • İTÜ SÜLEYMAN DEMİREL CONFERENCE CENTER • İSTANBUL - TÜRKİYE

11:40-11:55 Oznur Oguz - Sakarya University, Türkiye
Production of Activated Carbon via Pyrolysis of Olive Seeds Using CO₂ Gas (1020)

11:55-12:10 Zeynep İlhan - Sakarya University, Türkiye
Activated Carbon Obtained in Dynamic System from Agricultural Product Wastes in Sakarya Region (1016)

SINTERING AND ADVANCED SINTERING

HALL II

Session Chair: Assoc. Prof. Dr. Mustafa Guven Gok

12:10-12:25 Metin Özbekler - İzmir Institute of Technology, Türkiye
Sintering and Densification Behavior of Nanoparticle Infiltrated Alumina Scaffolds (1047)

12:25-13:30 **Lunch**

MATERIALS CHARACTERIZATION AND COMPUTATIONAL MODELING

HALL II

Session Chair: Prof. Dr. Cengiz Kaya

13:30-13:45 Ammar Aksoy - Istanbul Technical University, Türkiye
New Insights and Understanding of Hydrogen Embrittlement of Duplex Stainless Steel: Combined DFT Modelling and Experimental Study (1011)

13:45-14:00 Daniela Laura Buruiana - Dunarea de Jos University of Galati, Romania
Effect of Immersion Time on Corrosion Behaviour of S235JR Steel in 3.5% NaCl and Drink Water (1078)

14:00-14:15 Cansinem Tuzemen Gundogan - Istanbul Technical University, Türkiye
High Entropy Alloys for High Temperature Applications : Design, Production and Characterization (1023)

14:15-14:30 Dogus Zeren - Norm Cıvata San. ve Tic. A.Ş., Türkiye
A Comparison of Static and Fatigue Performance of High-Strength Bolts Depending on Heat Treatment Process (1046)

14:30-14:45 Eray Abakay - Sakarya University, Türkiye
Electrochemical Corrosion Properties of Bismuth Doped AZ91D (1036)

14:45-15:00 Zeliha Idil Yondu - TEI TUSAS Engine Industries, Türkiye
An Evaluation of Titanium Forging Microstructure for Aerospace Applications (1035)

15:00-15:15 Yigit Buga - TEI TUSAS Engine Industries, Türkiye
An Evaluation of Titanium Forging Microstructure for Aerospace Applications (1034)

15:15-15:30 **COFFEE BREAK**



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11-13 October 2023 • İTÜ SÜLEYMAN DEMİREL CONFERENCE CENTER • İSTANBUL - TÜRKİYE



MATERIALS CHARACTERIZATION AND COMPUTATIONAL MODELING

HALL II

Session Chair: Prof. Dr. Figen Kaya

- 15:30-15:45** **Nihal Yumak - Afyon Kocatepe University, Türkiye**
Production of Functionally Graded Panels by the Additive Manufacturing Method and Investigation of Their Acoustic Behavior **(1084)**
- 15:45-16:00** **Ahmet Sefa Atalay - Kocaeli University, Türkiye**
The Effect of Mn Substitution on Mechanical Properties of AlCr_2B_2 : An Computational Investigation **(1019)**
- 16:00-16:15** **Berke Erk - ONATUS Vision Technologies, Türkiye**
A Study of Microstructure Evolution During Heat Treatment of Bearing Steels Using Computational Materials Engineering **(1064)**
- 16:15-16:30** **Nihal Yumak - Afyon Kocatepe University, Türkiye**
Manufacturing of Functionally Graded Porous Materials by the Additive Manufacturing Method and Investigation of Compressive Strength **(1085)**
- 16:30-16:45** **Umut Can Cingoz - Yildiz Technical University, Türkiye**
Characterization of PA 12 Matrix Composites Produced by Selective Laser Sintering Method **(1050)**

COATINGS

HALL III

Session Chair: Asst. Prof. Dr. Faiz Muhaffel

- 09:30-9:50** **Plenary Speaker**
Prof. Mirosław Bonek - Silesian University of Technology Gliwice, Poland
Formation of the Structure and Properties of the Surface Layer of Alloy Steels Used for Tools by the Laser Treatment
- 09:50-10:05** **Cenk Turkuz - Titanit Ultrahard Coatings Company, Türkiye**
A New Kind of Passivation/Pvd Coating Combination for Dental Drills Resistant to Autoclave Cycles and Temperature Measurements During Drilling **(1033)**
- 10:05-10:20** **Hamid Bolvardi - PLATIT AG, Switzerland**
Innovations in Thin Film Technologies and Properties to Meet Industrial Application Requirements **(1026)**
- 10:20-10:35** **Faiz Muhaffel - Istanbul Technical University, Türkiye**
Enhancing Surface Properties of Titanium-Based Biomaterials Through Micro-Arc Oxidation And Subsequent Hydrothermal Treatment **(1037)**
- 10:35-10:50** **Alina Crina Muresan - Dunarea de Jos University of Galati, Romania**
Electrodeposition and Characterisation of Polymer-Zinc Composite Coatings **(1079)**
- 10:50-11:10** **COFFEE BREAK**



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11-13 October 2023 • İTÜ SÜLEYMAN DEMİREL CONFERENCE CENTER • İSTANBUL - TÜRKİYE



- 11:10-11:25** Cennet Yildirim - TENMAK-Boron Research Institute / Istanbul Technical University,Türkiye
Production of SiC Foam Intended for Wide Band Radar Absorbing Material (1071)
- 11:25-11:40** İrem Elmas Kant - Istanbul Technical University, Türkiye
Investigation the Structural Effect of Amine-Based Chain Extenders on Morphology and Mechanical Characteristics of the Polyurethane-Urea Coatings (1065)

COATINGS

HALL III

Session Chair: Asst. Prof. Dr. Faiz Muhaffel

- 11:40-11:55** Zeynep Sirel - Sarkuysan Elektrolitik Bakır San. ve Tic. A.Ş., Türkiye
Investigation of the Effects of Copper Wire Surface Defects on the Final Product Quality in Enamelled Wires (1038)
- 11:55-12:10** Ugur Iz - Polat Makine A.Ş., Türkiye
Investigation of Wear Performance and Microstructural Properties of Ni-B-Si Alloy with Tungsten Carbide Powder by Coating with PTA Method (1083)
- 12:10-13:30** **Lunch**

METALLURGY

HALL III

Session Chair: Asst. Prof. Dr. Fahir Arisoy

- 13:30-13:45** Marzhan Mukhametkhan - Karaganda Industrial University,Kazakhstan
Problems of Processing Iron-Containing Wastes of Metallurgical Production (1082)
- 13:45-14:00** Mikko Jokinen - Luxmet Oy,Finland
The Luxmet Story - From Research to Industrial Applications: Helping the Steel Industry in the Green Transition (1074)
- 14:00-14:15** Pelin Sezer - Akdaş Döküm Sanayi ve Ticaret A.Ş.,Türkiye
Duplex Stainless Steel (DSS): Reducing the Intermetallic Phases (1042)
- 14:15-14:30** Yagmur Laleci - Akdaş Döküm Sanayi ve Ticaret A.Ş.,Türkiye
Effect of Tempering Heat Treatment on Microstructure and Mechanical Properties of Nickel Aluminum Bronze (1040)
- 14:30-14:45** Volkan Karakurt - Sağlam Metal San. ve Tic. A.Ş.,Türkiye
Effect of Cryogenic Heat Treatment on Microstructure and Mechanical Properties of CuAl₁₄Femn2co Aluminum Bronze (1039)
- 14:45-15:00** Merve Oper - Kadir Has University,Türkiye
Linking Theory and Practice: A Comprehensive Study of Natural Convection Cooling in Horizontal Hot Coils (1010)
- 15:00-15:15** Cihan Yakupoglu - Ak-Pres Otomotiv A.Ş, Türkiye
Investigation of Compatibility of Al 6016 Series Sheets with DP800 Series Sheets by CMT Method (1007)



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15:15-15:30 COFFEE BREAK

METALLURGY

HALL III

Session Chair: Asst. Prof. Dr. Fahir Arisoy

15:30-15:45

Cisem Celik Kurtulan - Istanbul Technical University,Türkiye

The Effect of Calcination on Cerium Dissolution for Eskisehir Bastnasite Ores **(1006)**

15:45-16:00

Ozlem Kirmizi - PMS Alüminyum San. ve Tic. A.Ş

Improving Deep Drawing Capability with Heat Treatment Parameters in EN AW 1050 Alloy **(1003)**