

Easy Clean Surface Coating and Its Importance on Porcelain Tile Products

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Abstract

Porcelain tiles are solid products with a high percentage of glassy phase, low porosity, water absorption of less than 0.5% by weight. Due to little content of porosity, these products to be excellent in terms of mechanical and chemical properties and hence increases the freezing resistance and consequently enables these products to be used indoors and outdoors, especially in cold climatic conditions. Porcelain tiles are preferred due to their superior properties in interior and exterior wall and floor coverings. In particular, porcelain tiles in exterior and interior wall and floor coverings are converted into products with high added value by using functional coatings in addition to the above features, thereby increasing the demand of customers for such coated products. Recently, porcelain tile surfaces are coated with different compositions (using organic, inorganic or mixtures thereof) to provide functional properties (hydrophobic, superhydrophobic, superhydrophilic etc.). Although the porcelain tile surface is hygienic and easy to clean, these surfaces are even easier to clean when coated. This leads to save both time and labor and protecting the environment by reducing the use of harmful chemicals. In this study, especially the theories, studies and products that have been developed on hydrophobic properties have been mentioned.

Keywords: Porcelain tile, hydrophobicity, wall and floor coverings, ceramic

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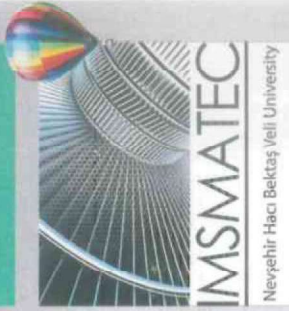
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IMSMATEC'19 PROGRAM

21 JUN 2019-21 HAZİRAN 2019

09:30-12:30	REGISTRATION/KAYIT
12:30-13:30	LUNCH/ÖĞLE YEMEĞİ
13:30-14:00	OPENING CEROMONY/AÇILIŞ TÖRENİ
14:00-14:20	INVITED SPEAKER: Prof.Dr.Burhanettin İNEM The Engineering Materials; A Future Perspective
14:20-14:40	INVITED SPEAKER: Prof.Dr.Igor Vakulenko The Effect Of Stress Pulses On The Cyclic Endurance Of Steel Axle Wheel-Set
14:40-15:00	INVITED SPEAKER: Prof. Dr. Levan Chkhartishvili On Obtaining Boron Carbide Based Nanocomposites
15:00-15:30	COFFE BREAK / ÇAY-KAHVE ARASI
SESSION 1 / OTURUM 1	
Session Chairman /Oturum Başkanı: Prof.Dr.Halil ARIK HALL 1 / SALON 1	
15:30-15:50	DFT EXPLORATION OF MOLECULAR SELF-ASSEMBLIES ON NOBLE METALS: AROMATIC VERSUS ALIPHATIC THIOLS ON Au(111) SURFACE Yeliz Gürdal
15:50-16:10	INVESTIGATION OF PHYSICAL PROPERTIES OF RECYCLED POLYPROPYLENE/RICE HUSK POLYMER COMPOSITE Elif ULUTAŞ, Münir TAŞDEMİR, E. Dilara KOÇAK
16:10-16:30	INVESTIGATION OF MECHANICAL PROPERTIES OF RECYCLED POLYPROPYLENE/RICE HUSK POLYMER COMPOSITE Elif ULUTAŞ, Münir TAŞDEMİR, E. Dilara KOÇAK
16:30-16:50	THE INVESTIGATION OF THE EFFECTS OF CARBONIZED AND UNCARBONIZED ORANGE PEEL POWDER ON THE MECHANICAL PROPERTIES OF POLYPROPYLENE Zilan TEKE, Merve SIRTİKARA, Kutay Arda ŞAHİN, Münir TAŞDEMİR
16:50-17:10	INVESTIGATION OF THE EFFECTS OF CARBONIZED AND UNCARBONIZED ORANGE PEEL POWDER ON THE PHYSICAL PROPERTIES OF POLYPROPYLENE Merve SIRTİKARA, Zilan TEKE, Kutay Arda ŞAHİN, Münir TAŞDEMİR
17:10-17:30	DESIGN AND FEA ANALYSIS OF CERVICAL DISC PROSTHESIS WITH DIFFERENT GEOMETRIES AND POROUS STRUCTURES Hüccet KAHRAMANZADE
17:30-17:50	BIOFILM FORMATION ON IODINATED POLY-3-HYDROXY BUTYRATE COATED SURFACE Arzu EROL
Session Chairman /Oturum Başkanı:Prof.Dr.Hayrettin AHLATCI HALL 2 / SALON 2	
15:30-15:50	THEORETICAL DESIGN AND TEMPERATURE DEPENDENCE OF SINGLE JUNCTION INGAN SOLAR CELL Tuğçe Ataşer
15:50-16:10	INVESTIGATION OF THE NEODYMIUM ADDITIVE ZK60 MAGNESIUM ALLOY MICROSTRUCTURE, MECHANICAL PROPERTIES AND FATIGUE BEHAVIOR Hatice Sönmez, Yunus Türen, Hayrettin Ahlatçı, Mehmet Ünal, Hüseyin Zengin
16:10-16:30	INVESTIGATION OF THE EFFECT OF GNP ADDITION ON EPOXY RESIN IN 2024 T3 ALUMINUM MATRIX AND UD CARBON FIBER REINFORCED LAMINATED COMPOSITES Mustafa Yunus AŞKIN, Yunus TÜREN, Yavuz SUN
16:30-16:50	INVESTIGATION OF MICROSTRUCTURE AND MECHANICAL PROPERTIES OF WE43-xZn MAGNESIUM ALLOYS Yasin Subaşı, Yunus Türen, Hayrettin Ahlatçı
16:50-17:10	INVESTIGATION OF EXTRUSION DIE FOOT AND PROCESS PARAMETERS AFFECTING LONGITUDINAL WELDING QUALITY OF PROFILES PRODUCED BY ALUMINUM EXTRUSION METHOD Murat KONAR, Mehmet Buğra GÜNER
17:10-17:30	OPTIMIZATION OF WELDING PARAMETERS SPOT PLUG WELDED WITH CMT TECHNIQUE GALVANIZED DP600 SHEET AND AA8006 SHEET FOR AUTOMOBILE INDUSTRY Murat KONAR, Osman Nuri TUTKUN , Salim ASLANLAR, Erdiñ İLHAN

5	PATENT VERİ TABANI ANALİZİ: HAVACILIK VE OTOMOTİV SEKTÖRLERİNDE İLERİ MALZEMELERİN GELİŞİMİNİN İNCELENMESİ Dilara Ceren GÜRSOY, Kevser Ceyda GÜNEY
6	A DFT COMPARATIVE STUDY OF ELECTRONIC PROPERTIES ON PRISTINE SINGLE WALLED CARBON NANOTUBES İskender MUZ and Mustafa Kurban

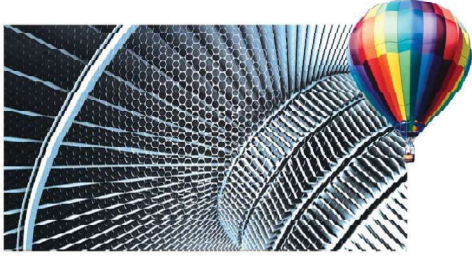
22 JUN 2019-22 HAZİRAN 2019

Presentation Times/Sunum Saati:08:50-12:30

1	EFFECT OF OVERFLOW DESIGN MODIFICATIONS ON POROSITY IN HIGH PRESSURE ALUMINUM DIE CASTING PROCESS Onur Kenar, Ekrem Altuncu, Fuat Topçu, Naci Ekmen, Aykut Doğan
2	THE EFFECT OF Zr ON LM6 ALUMINUM ALLOY Tansel TUNÇAY
3	THE USE AND OPTIMIZATION OF Si-CARBON COMPOSITES AS ANODE MATERIALS IN LI-ION BATTERIES Ali ÜÇTEPE, Burcu DURSUN, Burak TEKİN, Rezan DEMİR-ÇAKAN
4	IMPROVING THE CHARGE ACCEPTANCE OF NEW GENERATION START & STOP BATTERIES WITH CARBON ADDITIVES Mine Ersöz, Hatice Gökdemir, Asel Damla Şimşek, Saffet Arslan, Muhsin Mazman
5	MODELING OF THE GRID DESIGN, THE GRID SIZE AND THE LUG POSITION FOR INVESTIGATION OF EFFECTS ON THE LEAD ACID BATTERY PERFORMANCE Tuğçe İşler, Muhsin Mazman
6	GRAPHENE AND CHITOSAN BASED Pd HYBRID ELECTROCATALYST FOR ELECTROCHEMICAL HYDROGEN EVOLUTION Didem BALUN KAYAN and Emel BİLİR
7	COMPUTER AIDED SIMULATION AND EFFICIENT DESIGN PROCESSES OF HOT-ROLLED STEEL PROFILES WITH SPECIAL CROSS SECTION Ezgi SEVGİ, Osman ÇULHA, Gürkan ERAL, Volkan ZÜMRÜT, Uğur FINDIK
8	SURFACE MODIFICATION AT REINFORCING FIBERS FOR ELASTOMER COMPOSITES Gülperi Feyza YAVUZ
9	DEĞİŞKEN DEBİLİ ASENKRON VE SERVO MOTOR TAHRİKLİ POMPALARIN, BİR HİDROLİK GÜÇ SİSTEMİNDEKİ ENERJİ VERİMLİLİĞİNE ETKİSİNİ, TESPİT YÖNTEM VE EKİPMANLARININ İNCELENMESİ İsmail ŞAHİN, Mehmet BAĞCI
10	ASENKRON VE SERVO MOTOR TAHRİKLİ SABİT DEBİLİ POMPALARIN ENERJİ VERİMLİLİĞİ ANALİZİNDE DEVRE ELEMANLARININ İNCELENMESİ Mehmet KORKUSUZ, Mehmet BAĞCI
11	THE EFFECT OF VARYING TIN (Sn) CONTENT IN LEAD-CALCIUM (Pb-Ca) BASED ALLOYS ON GRID CORROSION Asel Damla Şimşek, Hatice Gökdemir, Mine Ersöz, Mehmet Karaoğlu, Muhsin Mazmana

Presentation Times/Sunum Saati:13:30-17:10

1	ISIL İŞLEM SONUCU MOLİBDEN VE KROMUN MEKANİK ÖZELLİKLERE ETKİSİ Ali Rıza Baloğlu, Prof. Dr. Remzi Çetin, Assist. Prof. Necati Vardar
2	FOTOSENTEZ YARDIMIYLA SUYU TAM OLARAK AYRIŞTIRARAK YÜKSEK DERECEDE ELEKTRİK VE HİDROJEN ÜRETEN TİLAKOİD MEMBRAN BAZLI FOTO-BİYOELEKTROKİMYASAL YAKIT HÜCRESİNİN YAPIMI Nurseli Mislina ERGİN, Prof. Dr. Hüseyin Bekir YILDIZ
3	DESIGN, SYHTESIS AND CHARACTERIZATION OF CARBAZOLE BASED BIOTHIOL FLUORESCENT SENSORS Cemre Nur Vardallı, Nuray Altınöçek, Mustafa Tavaslı
4	INVESTIGATION OF THE MECHANICAL PROPERTIES OF UNALLOY STEEL ROD AFTER COLD WIRE PROCESSING Efkan ÇİÇEK, Muharrem YILMAZ
5	NiMnSb ŞEKİL HAFIZALI ALAŞIMLARDA MİKROÇATLAK MORFOLOJİSİ Prof. Dr. Kemal ALDAŞ, Doç. Dr.Murat ESKİL
6	EASY CLEAN SURFACE COATING AND ITS IMPORTANCE ON PORCELAIN TILE PRODUCTS Mehmet Behlül Kayalı, Gökhan Açıkbaş, Adem Türkol, Nurcan Çalış Açıkbaş
7	IMPROVEMENT OF GLASS FIBER REINFORCED QUALITY INTERFACES OF EPDM COMPOSITE COOLING HOSES



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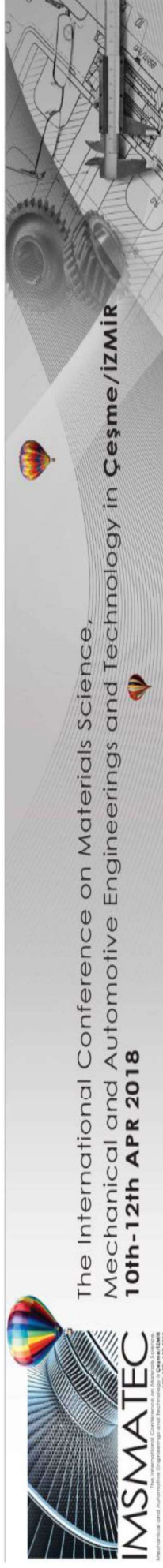
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Number	Participant	Title of the submission	Country
1	Khwanchai Tantiwanichapan	Graphene Plasmonics For Terahertz Applications	A,B,D
2	Doha Berraouan	Removal Of Methylene Blue From Aqueous Solution Using Alginate And Alginate/Clay Beads	MOROCCO
3	Motomichi Koyama	Effects Of Chemical Composition And Hydrogen Charging On The Mechanical Response Of Slipdominated High Manganese Austenitic Steel	JAPAN
4	Peter J. Thomas	Examination Of The Yaw-Angle Bias In Three-Dimensional Boundary Layers	UNITED KINGDOM
5	Neli Gidikova	Wear Behavior Of Electrodeposited Nickel-Nano Diamond Composite Coating On Porous Materials	BULGARIA
6	Yannis Missirlis	Biomechanics From Macro-To-Nano Scale	GREECE
7	Amir A. Shirzadi	How To Design, Prototype And Test A New Weld Alloy Which Expands When It Is Cooled!	UNITED KINGDOM
8	Jennifer Patterson	Copper And Zinc Incorporated Oxide Coatings On Commercially Pure Titanium For Biomedical Applications	BELGIUM
9	H. R. Rezaie	Thermal And Phase Characterization Of Carbothermal Reduction Of Zirconia	IRAN
10	F. Djerada - Larfi	Biodegradation In The Soil Of Thermooxidized Polypropylene Containing A Pro-Oxidant	ALGERIA


Prof. Dr. Bülent KURT
Chairman

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Participants from abroad to IMSMATEC'19 (The International Conference on Materials Science, Machine and Automotive Engineerings and Technology Symposium)

Number	Participant	Title of the submission	Country
1	Babachenko O. I.	STUDYING THE EFFECT OF THE STRUCTURAL CONDITION OF CARBON STEELS AND CARBON CONTENT IN THEM CARBON ON THE DESTRUCTION MECHANICS DURING DURING CYCLIC LOADING	UKRAINE
2	Levan Chkhardtishvili	ON OBTAINING BORON CARBIDE BASED NANOCOMPOSITES	GEORGIA
3	Marta V. Kushnir	THE THEORETICAL DESCRIPTION FOR THE MAGNEZONE XC -ASSISTED MAGNESIUM CATION ELECTROCHEMICAL DETERMINATION. A NEW ARRANGEMENT FOR AN OLD SONG	BRAZIL
4	Jamshad Jamshidian	FAILURE ANALYSIS OF LINE SILVER SURFACE DEFECTS ON HOT-ROLLED CONTINUOUS CAST LOW CARBON STEEL SHEETS	IRAN
5	Brahim Bahloul	FIRST-PRINCIPLES STUDY OF THE ELECTRONIC AND OPTICAL PROPERTIES OF BASRTE	ALGERIA
6	Nejah JEMAL	ETUDE DE L'ÉCOULEMENT DE LA MATIERE EN FSSW	TUNUSIAN
7	Vakulenko I.	THE EFFECT OF STRESS PULSES ON THE CYCLIC ENDURANCE OF STEEL AXLE WHEEL-SET	UKRAINE
8	Podolskyi R.V.	STUDYING THE EFFECT OF THE STRUCTURAL CONDITION OF CARBON STEELS AND CARBON CONTENT IN THEM CARBON ON THE DESTRUCTION MECHANICS DURING DURING CYCLIC LOADING	UKRAINE
9	Volodymyr V. Tkach	THE THEORETICAL DESCRIPTION FOR THE MAGNEZONE XC -ASSISTED MAGNESIUM CATION ELECTROCHEMICAL DETERMINATION. A NEW ARRANGEMENT FOR AN OLD SONG	BRAZIL

10	Nataliia M. Omelchenko	THE THEORETICAL DESCRIPTION FOR THE MAGNEZONE XC -ASSISTED MAGNESIUM CATION ELECTROCHEMICAL DETERMINATION. A NEW ARRANGEMENT FOR AN OLD SONG	UKRAINE
11	Sílvio C. de Oliveira	THE THEORETICAL DESCRIPTION FOR THE MAGNEZONE XC -ASSISTED MAGNESIUM CATION ELECTROCHEMICAL DETERMINATION. A NEW ARRANGEMENT FOR AN OLD SONG	BRAZIL
12	Petro I. Yagodynets	THE THEORETICAL DESCRIPTION FOR THE MAGNEZONE XC -ASSISTED MAGNESIUM CATION ELECTROCHEMICAL DETERMINATION. A NEW ARRANGEMENT FOR AN OLD SONG	UKRAINE
13	Oleksandra V. Ahafonova	THE THEORETICAL DESCRIPTION FOR THE MAGNEZONE XC -ASSISTED MAGNESIUM CATION ELECTROCHEMICAL DETERMINATION. A NEW ARRANGEMENT FOR AN OLD SONG	UKRAINE
14	Mohsen Rezaei	FAILURE ANALYSIS OF LINE SILVER SURFACE DEFECTS ON HOT-ROLLED CONTINUOUS CAST LOW CARBON STEEL SHEETS	IRAN
15	Ali Ashrafi	FAILURE ANALYSIS OF LINE SILVER SURFACE DEFECTS ON HOT-ROLLED CONTINUOUS CAST LOW CARBON STEEL SHEETS	IRAN
16	Khatir Babesse	FIRST-PRINCIPLES STUDY OF THE ELECTRONIC AND OPTICAL PROPERTIES OF BASRTE	ALGERIA
17	Azzedine Dekhira	FIRST-PRINCIPLES STUDY OF THE ELECTRONIC AND OPTICAL PROPERTIES OF BASRTE	ALGERIA
18	Dalila Hammoutène	FIRST-PRINCIPLES STUDY OF THE ELECTRONIC AND OPTICAL PROPERTIES OF BASRTE	ALGERIA