

PLENARY SESSION		13
VALIEV Ruslan Z.	Ufa State Aviation Technical University, Ufa, Russian Federation	13
Bulk Nanostructured Metals for Advanced Medical Implants and Devices		
WORKSHOP		14
ONDRÁČEK Pavel	Sobriety s.r.o., Kuřim, Czech Republic, EU	14
Digital Image Correlation Software Mercury RT and DCPD in Material Testing		
REINISCH Michal	Zwick Roell CZ s.r.o., Brno, Czech Republic, EU.....	14
Software Solutions for Mechanical Testing of Materials and Components		
SESSION A - NANOMATERIALS		15
DONIČ Tibor	University of Žilina, Žilina, Slovakia, EU	15
Development of Construction for Continuous Creation of Nanostructure in Metals with Application Intensive Ultrasound		
SEMENOVA Irina	Ufa State Aviation Technical University, Ufa, Russian Federation	15
Nanostructuring and Phase Transformations in the β -Ti alloys during Severe Plastic Deformation		
BARTHA Kristína	Charles University in Prague, Prague, Czech Republic, EU	16
Effect of Severely Deformed Structure on Phase Transformations in Ti15Mo Alloy		
STRÁSKÝ Josef	Charles University in Prague, Prague, Czech Republic, EU	16
Ultra-fine Grained Ti and Ti Alloy Prepared by Cryogenic Milling and Spark Plasma Sintering		
BEDNARCZYK Wiktor	AGH University of Science and Technology, Cracow, Poland, EU	16
Grain Refinement Softening in Binary Zinc Alloys Processed by ECAP		
MODINA Iuliia	Ufa State Aviation Technical University, Ufa, Russian Federation	17
Mechanical Behavior and Impact Toughness of the Ultrafine-grained Alloy VT8M-1		
RAAB A.G.	Ufa State Aviation Technical University, IPAM, Ufa, Russian Federation.....	17
Development of SPD Methods for the Production of Contact Wires from a Cu-Zr Alloy for High-speed Railways		
CIEMIOREK Marta	Faculty of Materials Science Engineering, Warsaw University of Technology, Warsaw, Poland, EU.....	17
Ultrafine grained electrolytic tough pitch copper rods for structural components processed by Incremental ECAP		
EIVANI Ali Reza	Iran University of Science and Technology, Tehran, Islamic Republic of Iran ..	18
Prediction of Fracture During Equal Channel Angular Pressing of AZ31 Magnesium Alloy		
SESSION B - HEAT TREATMENT		19
CAO Wenquan	Special Steel Institute, Central Iron and Steel Research Institute, Beijing, China.....	19
The Hot Rolled Duplex Laminated Steel Presenting Both High Strength and High Toughness		
SKOŁEK Emilia	Warsaw University of Technology, Poland, EU	20
The Effect of a Novel B-Q&P Heat Treatment Process on Microstructure and Hardness of an Experimental Steel		

KOTOUS Jakub	COMTES FHT a.s., Dobřany, Czech Republic, EU	20
Accelerated Carbide Spheroidisation and Refinement in Spring Steel 54SiCr6		
CISKI Aleksander	Institute of Precision Mechanics, Warsaw, Poland, EU	20
Multistage Cryogenic Treatment of X153CrMoV12 Cold Work Steel		
GLANC Aleš	University of West Bohemia in Pilsen, Pilsen, Czech Republic, EU	21
Microstructure and Tribological Behaviour of HVOF Sprayed and Laser Treated CoCrTaAlCSiY Coatings		
NAWROCKI Piotr	Institute of Precision Mechanics, Poland, EU	21
Determination of Susceptibility of Cast Iron with a Predetermined Chemical Composition to Shape Properties and Microstructure Through Bainitic Transformation		
HRUŠKA Matěj	University of West Bohemia in Pilsen, Pilsen, Czech Republic, EU	21
The Influence of Oxide Layer Pattern Size Created on the Surface of En 10083-2: C45 Steel on Laser Light Absorption during Laser Hardening Procedure		
SAMAL Sneha	Institute of Physics of the CAS, Prague, Czech Republic, EU.....	22
Shape Setting in NiTi Ribbon		
SESSION C - SMALL SIZE SPECIMENS TESTING		23
DŽUGAN Jan	COMTES FHT a.s., Dobřany, Czech Republic, EU	23
Development in the Field of Mechanical Properties Characterization with the Use of Small Size Specimens		
KONOPÍK Pavel	COMTES FHT a.s., Dobřany, Czech Republic, EU	23
Applicability of Miniature Tensile Test in the Automotive Sector		
DYMÁČEK Petr	Institute of Physics of Materials of the CAS, Brno, Czech Republic, EU	23
Load-to-Stress Conversion Methods in Small Punch Testing Exemplified by Creep Results of Fe-Al alloy with Chromium and Cerium Additions		
KOMAZAKI Shin-ichi	Kagoshima University, Kagoshima, Japan.....	24
Creep Strength Assessment of Service-Exposed Gr.91 Boiler Pipings by Small Punch Test		
SESSION D - MATERIALS TESTING AND ANALYSIS		25
PIPPAN Reinhard	Erich Schmid Institute of Materials Science of the AAS, Leoben, Austria, EU	25
Ultra Strong and Damage Tolerant Materials		
REŠKOVIĆ Stoja	University of Zagreb, Faculty of Metallurgy, Sisak, Croatia, EU	25
The Influence of Niobium Content and Initial Microstructure of Steel on the Occurrence of Lüders band at the Start of the Plastic Flow during Cold Deformation		
MATTHIAS Tim	Leibniz Universität Hannover / Institute of Forming Technology and Machines, Garbsen, Germany, EU	26
Investigation of the Composite Strength of Hybrid Steel-steel Semi-finished Products Manufactured by Laser Beam Welding and Friction Welding		
TERYNKOVÁ Anna	Charles University in Prague, Department of Physics of Material, Prague, Czech Republic, EU.....	26
Mechanical Properties of Spark Plasma Sintered Metastable Ti-15Mo Alloy		

NAMBURI Hygreeva Kiran	Research Centre Řež, Husinec-Řež, Czech Republic, EU.....	27
Study of Hydrogen Embrittlement and Hydride Re-orientation Behavior in Zirconium Based E110 Fuel Cladding by Ring Compression Testing		
JANDRLÍČ Ivan	University of Zagreb, Faculty of Metallurgy, Sisak, Croatia, EU	27
Effect of Deformation Rate on Low Carbon Steels Mechanical Properties		
BRLIĆ Tin	University of Zagreb, Faculty of Metallurgy, Sisak, Croatia, EU	27
Influence of Strain Rate on Stress Changes During Lüders Bands Formation and Propagation		
DVORSKÝ Drahomír	University of Chemistry and Technology Prague, Czech Republic, EU	28
Magnesium-based Composite Materials with MgF ₂ Prepared by Powder Metallurgy		
KUBOŠ David	"TMV SS" spol. s r.o., Prague, Czech Republic, EU	28
Inductive Lock-in Thermography for Materials R&D		
RENNER Heinz	Linseis Messgeräte GmbH, Selb, Germany, EU	28
Laser Ultrasonic Measurements of the Grain Size and Distribution in a Quenching/Deformation Dilatometer		
BURIK Peter	ŽP Research and Development Centre, Ltd., Podbrezová, Slovakia, EU.....	29
Deformation and Annealing Texture of Cold Drawn Steel Tubes by EBSD Analysis		
KASL Josef	Research and Testing Institute Pilsen Ltd., Pilsen, Czech Republic, EU	29
Behaviour of Dissimilar Weld Joint of Steels FB2 and F During Long-Term Creep Test		
HAYASHI Yu	Sophia University, Chiyoda-ku, Tokyo, Japan.....	29
The States of Hydrogen and Hydrogen Embrittlement Susceptibility of Precipitation Hardening Stainless Steel SUS630		
KAMEI Hiromi	Sophia University, Chiyoda-ku, Tokyo, Japan.....	30
Change in Dislocation Mobility of Tempered Martensitic Steel Through Charged Hydrogen		
SEKINE Daiki	Sophia University, Chiyoda-ku, Tokyo, Japan.....	30
The Amount of Hydrogen Dependence of Trapping States of Hydrogen Present in High Carbon Ferrite-Austenite Dual Phase Steel		
ASARI Daichi	Sophia University, Chiyoda-ku, Tokyo, Japan.....	30
Relationship Between Hydrogen States Present in Vicinity of Fracture Surface and Hydrogen Embrittlement Susceptibility for Ferrite-martensitic Dual Phase Steels		
OHORI Masaharu	Sophia University, Chiyoda-ku, Tokyo, Japan.....	31
Changes in the Substructure of Tempered Martensitic Steel During the Application of Cyclic Elastic Stress in the Presence of Hydrogen		
NISHIYAMA Keisuke	Sophia University, Chiyoda-ku, Tokyo, Japan.....	31
Identification of Lattice Defects Beneath Fracture Surfaces of Cold-drawn Pearlitic Steel Fractured under Elastic / Plastic Region in the Presence of Hydrogen		
HOMMA Tomoka	Sophia University, Chiyoda-ku, Tokyo, Japan.....	31
The Nature of Hydrogen-Related Fracture in X80 Pipeline Steel with Stress Concentration		

HOKAZONO Kodai	Sophia University, Chiyoda-ku, Tokyo, Japan.....	32
Comparison of Hydrogen Behavior Trapped at Precipitated and Undissolved Vanadium Carbide in Vanadium-bearing High Strength Steels		
SESSION E - NON-FERROUS METALS..... 33		
HORVÁTH Klaudia	Charles University in Prague, Prague, Czech Republic, EU	33
Investigation of Hot Deformation Mechanisms in Mg-Zn-Y Magnesium Alloys with LPSO Phase		
STRZĘPEK Paweł	AGH University of Science and Technology, Cracow, Poland, EU	33
Impact of the Heat Treatment Parameters on Microstructure and Mechanical Properties of ZnAl15 Alloy Wire Rod Manufactured in Continuous Casting and Rolling Line		
WĄTROBA Maria	AGH University of Science and Technology, Cracow, Poland, EU	34
Effect of Silver and Zirconium Additions on the Properties of Extruded Biodegradable Zinc Alloy		
ABDELKAWY Mohamed Ahmed	CMRDI, Helwan, Egypt.....	34
Improvement of Mechanical Properties of Cast ZA-27 Treated with Addition of Nano Zinc Oxide		
ZHÁŇAL Pavel	Charles University in Prague, Prague, Czech Republic, EU	34
The Study of Phase Transformations in Ti-15Mo		
PREISLER Dalibor	Charles University in Prague, Prague, Czech Republic, EU	35
Beta Phase Stability of Ti-35Nb-6Ta-7Zr-0.7O Beta Titanium Alloy		
GÓRECKI Kamil	AGH University of Science and Technology, Cracow, Poland, EU	35
The Effect of Prolonged Aging on Mechanical Properties, Structure and Microstructure in Al5Ti5Co35Ni35Fe20 High-Entropy Alloy		
WA KALENGA Michel Kalenga	University of Johannesburg, Johannesburg, South Africa	35
The Use of Macadamia Nutshells in the Recovery of Metals from Copper Slag		
SESSION F - MODELING OF TECHNOLOGICAL PROCESSES 36		
CESAR DE SA Jose	INEGI, University of Porto, Porto, Portugal, EU	36
A Simple Regularization Procedure for Ductile Modelling Using a Commercial Code		
TOLKUSHKIN Andrey	Ural Federal University, Yekaterinburg, Russian Federation	36
Damage Criterion Comparison at Unidirectional and Alternating Torsion of Samples		
KOMISCHKE Tim	Institute of Virtual Manufacturing, ETH Zürich, Zürich, Switzerland.....	37
On the Sensitivity of the Mohr-Coulomb Ductile Fracture Criterion in the Mixed Stress-strain Space on Varying Hardening Curve Approximations		
LYPCHANSKYI Oleksandr	AGH University of Science and Technology, Cracow, Poland, EU	37
Characterization of Ti-6Al-2Sn-4Zr-6Mo Alloy Flow Behaviour Using Malas's Stability Criterion		
MARADA Ondřej	IDIADA CZ a.s., Brno, Czech Republic, EU	37
Introduction of IDIADA CZ Company		
PREHM Jens	Dynaweld GmbH & Co. KG, Kamen, Germany, EU	37
Simulation Chain of Material Simulation, Welding Simulation and Heat Treatment Simulation for Industrial Application		

KOCK Christoph	IFUM - Institut für Umformtechnik und Umformmaschinen, Hannover, Germany, EU	38
Experimental-numerical Approach to Efficient TTT-generation for Simulation of Phase Transformations in Thermomechanical Forming Processes		
PANIN Yevgeniy	Karaganda state industrial university, Temirtau, Kazakhstan	38
Obtaining of Long-length Rods with Ultrafine-Grained Structure by the Radial-shear Rolling		
ZYGUŁA Krystian	AGH University of Science and Technology, Cracow, Poland, EU	38
Extrusion of Al-Si Alloy Compacts under Conventional Conditions and in the Semi-Solid State		
ASFANDYAROV Rashid	Ufa State Aviation Technical University, Ufa, Russian Federation	39
Modeling of a Combined Process for the Production of Contact Wires for High-speed Railways		
CEJPEK Jakub	IDIADA CZ a.s., Hradec Králové, Czech Republic, EU	39
Abaqus Simulation on HPC		
BOTT I. S.	Pontifical Catholic University of Rio de Janeiro, Rio de Janeiro, Brazil.....	39
Austenite Transformation in Duplex Stainless Steels Under Fast Cooling Rates		
GERKE Steffen	Universität der Bundeswehr München, Neubiberg, Germany, EU	40
Damage and Failure of Ductile Metals: Modelling, Numerical Simulations and New Biaxial Experiments		
FEDORKO Mikuláš	COMTES FHT a.s., Dobřany, Czech Republic, EU	40
Determination of Edge Strain in DP Steel Sheet for Predicting Edge Cracking		
FARAHNAK Pedram	COMTES FHT a.s., Pilsen, Czech Republic, EU	40
Determination of Forming Limits of TWIP Steel Sheet Using Linear and Nonlinear Strain Paths		
URBÁNEK Miroslav	COMTES FHT a.s., Dobruška, Czech Republic, EU	41
Refinement of a Material Model for Springback after Press Forming		
SVICHKAR Alena	Omsk State Technical University, Omsk, Russian Federation	41
The Internal Stretching Tension in the Iron Casting		
IVANOVA Jordanka	Institute of mechanics at Bulgarian academy of sciences, Sofia, Bulgaria, EU	41
Modelling and Parametric Analysis of Cohesive Interface Delamination of Graphene Monolayer Nanocomposites		
PETROVA Tatyana	Institute of chemical engineering at Bulgarian academy of sciences, Sofia, Bulgaria, EU	42
Modeling of Interface Stress Transfer in Graphene Monolayer Nanocomposites under Static Extension Load		
BARTKOWSKI Piotr	Warsaw University of Technology, Warszawa, Poland, EU	42
Experimental and Numerical Study on the Behaviour of Vacuum Packed Particles		
SESSION G - ADDITIVE MANUFACTURING		43
BUCHMAYR Bruno	University of Leoben, Leoben, Austria, EU	43
Metallurgical Aspects Involved in Selective Laser Melting		
DANIEL Matěj	Czech Technical University in Prague, Prague, Czech Republic, EU	43
Medical Implants Production by Additive Manufacturing		

PEHLIVAN Eren	Czech Technical University in Prague, Prague, Czech Republic, EU	44
Additively Manufactured CP-Ti (Grade 2) Single Strut Size Effect of Mechanical Response under Building Direction Conditions		
SEIFI Mohsen	Global Additive Manufacturing Programs at ASTM International, Washington, United States	44
Additive Manufacturing Standardization: Status, Challenges and Opportunities		
RAGHAVAN S.	Advanced Remanufacturing and Technology Center, Singapore.....	44
Mechanical Property of Thin Walled Selective Laser Melted Parts and the Effect of Heat Treatment		
VOSTŘÁK Marek	University of West Bohemia in Pilsen, Pilsen, Czech Republic, EU	44
Comparison of WC and (TiW)C in Nickel Based Alloy Coatings Prepared by Laser Cladding		
ROUDNICKA Michaela	University of Chemistry and Technology, Prague, Czech Republic, EU	45
The Effect of Heat Treatment on the Microstructure and Mechanical Properties of 3D-printed AlSi9Cu3Fe Alloy		
POSTER SESSION		46
Nanomaterials		46
SMYSLOVA Marina	Ufa State Aviation Technical University, Ufa, Russian Federation	46
Surface Electrolytic-plasma Polishing of Ti-6Al-4V Alloy with Ultrafine-grained Structure Produced by Severe Plastic Deformation		
RUSZ Stanislav	VSB - Technical University of Ostrava, Ostrava, Czech Republic, EU.....	46
Refining Structure of Copper by SPD Process		
SNOPIŃSKI Przemysław	Silesian University of Technology, Gliwice, Poland, EU	47
Microstructural Evaluation of an Al-Mg Alloy after ECAP and Post ECAP Processing		
TAŃSKI Tomasz	Silesian University of Technology, Institute of Engineering Materials and Biomaterials, Gliwice, Poland, EU	47
Thermal Stability and Microstructure Evolution of Ultra-fine Grained Al-Mg Alloy		
MATYSIAK Wiktor	Silesian University of Technology, Gliwice, Poland, EU	47
The Electrospun 1D Nanomaterials		
NÉMETH Gergely	Charles University in Prague, Prague, Czech Republic, EU	48
CP Ti Grade 2 Prepared by CONFORM ECAP: from Residual Strains to Residual Stresses		
MICHALSKI Jakub	VSB - Technical University of Ostrava, Ostrava, Czech Republic, EU.....	48
AZ31 Magnesium Alloy Subjected to Severe Plastic Deformation at Different Temperatures: Microstructure and Hardness		
Heat treatment		48
KIRSCHNER Vít	VUTS, a.s., Liberec, Czech Republic, EU	48
The Effect of the Laser Spots Overlap on the Structure During Square Parts Quenching of 1.7225 Steel		
DLOUHÝ Jaromír	COMTES FHT a.s., Dobřany, Czech Republic, EU	49
Ferritic-martensitic Structure in Steel Hardenable with Copper Precipitation		

Materials testing and analysis		49
HWANG Seung J.	Daejin University, Seoul, Republic of Korea	49
The Formation and Coarsening of Cr2O3 Dispersoid in Cu Matrix Produced by Reactive Milling		
BOUAMER Amirouche	Research Center in Industrial Technologies (CRTI), Algiers, Algeria	49
Characterization of the Polylactic Acid Stretched Uniaxial and Annealed by Raman Spectrometry and Differential Scanning Calorimetry		
SZWED Bartłomiej	Kielce University of Technology, Kielce, Poland, EU	49
Evaluation of Corrosion Resistance of Titanium/Stainless Steel Diffusion Joints Bonded by Interlayers Made of Pure Metals		
SZWED Bartłomiej	Kielce University of Technology, Kielce, Poland, EU	50
Structural Changes during the Formation of Diffusion Bonded Joints between Titanium and Stainless Steel		
ZÍTA Dušan	University of Pardubice, Czech Republic, EU	50
Determining of Compliance of the Microhardness Tester Frame		
BELGACEM Ahmed	University of Science and Technology Houari Boumediene, Algiers, Algeria	50
Influence of Low Temperatures on Hardness and Resilience Testing of Two Types of Metal: Austenitic Stainless Steel 304 and Aluminum Alloy 5083		
CHOCHOLOUŠEK Michal	Research Centre Rez, Husinec-Rez, Czech Republic, EU	51
Coatings on Steels T91 and 316L in Lead-Bismuth Eutectic Environment		
MOLA Renata	Kielce University of Technology, Kielce, Poland, EU	51
Characteristics of AlSi11-AM60 Bimetallic Joints Produced by Diffusion Bonding		
AMBROŽ Ondřej	Institute of Scientific Instruments of the CAS, Brno, Czech Republic, EU	51
Qualitative and Quantitative Characterization of Laves Phase in COST F Steel (Standard vs. Accelerated Creep Test)		
RUND Martin	COMTES FHT a.s., Dobřany, Czech Republic, EU	52
Investigation of Hold Period Influence on Residual Fatigue Live in Steam Turbine Shaft Design		
POLAK Marcin	Institute of Non-Ferrous Metals, Gliwice, Poland, EU	52
Effect of Co Substitution for Fe on the Magnetic and Structural Properties of High Induction Fe84.5Nb5B8.5P2 Alloy		
KUIS D.V.	Belarusian state technological University, Minsk, Belarus	52
Researching of Complex Modifiers Influence Containing Nanocarbon Additives on the High-strength Cast Iron Structure		
LYACINE Rabahi	Research Center in Industrial Technologies, Cheraga, Algeria	53
Microstructural Analysis of the Deformed 316Ti and 904L Stainless Steels		
ŠKODA Jan	VSB - Technical University of Ostrava, FMMI, Ostrava, Czech Republic, EU	53
Study of Fatigue Fractures of Al-Mn Alloy		
JANOŮŠEK Jaromír	Research Centre Rez, Pilsen, Czech Republic, EU	53
Instrumentation for SCC Testing in Low Pressure Superheated Hydrogen Steam Environments		

ŠPIRIT Zbyněk	Research Centre Rez, Husinec-Rez, Czech Republic, EU	53
Effect of Laser Shock Peening on Fatigue Life of Austenitic Stainless Steels		
BULÍN Tomáš	Brno University of Technology, Brno, Czech Republic, EU	54
Analysis of Stresses in FeSi Sheets Induced by Laser Cutting		
KEPKA Miloslav	University of West Bohemia in Pilsen, Pilsen, Czech Republic, EU	54
Parametric Study of the Potential of Application of High-strength Steels to Increasing the Service Fatigue Life of Vehicle Structures		
PAŁA Robert	Kielce University of Technology, Kielce, Poland, EU	54
Influence of the Steel Rolling Direction on the Mechanical Properties and Distribution of the Local Stress in Front Crack		
HANDEL Naoual	University of Souk Ahras, Souk Ahras, Algeria	55
Behavior of Thin Walled Partially Encased Composite Columns		
FAGHI Lotfi	University of Sciences and Technology Houari Boumediene, Algeria	55
Synthesis and Characterization of Nanocrystalline Fe ₅₃ Si ₂₈ B ₁₉ Alloy Prepared by High Energy Ball Mill		
THOMAS Piotr	Kielce University of Technology, Kielce, Poland, EU	55
Experimental Tests of Bending Hook Slings		
MIŁEK Tomasz	Kielce University of Technology, Kielce, Poland, EU	55
The influence of relative rolling reduction of sheet metal on the changes of deep drawing forces in multi drawing steps for cylindrical drawpiece without collar made from EN AW-1050A aluminium		
MAZUR Igor	Lipetsk State Technical Univer, Lipetsk, Russian Federation	55
Forecasting the Deformation Resistance of Carbon and Low-alloy steels in hot Rolling on a Strip Mill		
MOKHTARI Ahcene	CRTI, Alger, Algeria	56
Determination of Elasto-viscoplastic Parameters of Polymers by Instrumented Indentation		
Non-ferrous metals		56
KALIENKO Maksim	Ural Federal University, Ekaterinburg, Russian Federation	56
Study of Lamination in Beta-phase of Ti-5553 Titanium Alloy		
KUGLIN Kamil	AGH University of Science and Technology, Cracow, Poland, EU	56
The Behaviour of Al ₂ O ₃ Precipitation at the Steel-slag Interface		
HAWELEK Lukasz	Institute of Non-Ferrous Metals, Gliwice, Poland, EU	57
Magnetic Properties of Composite Materials Based on Amorphous CoFeTaB Alloy		
KUBEŠ Vojtěch	VSB - Technical University of Ostrava, FMMI, Ostrava, Czech Republic, EU	57
Influence of Processing Technology on Fracture Feature of Ti6Al4V		
KARGUL Marcin	Kielce University of Technology, Kielce, Poland, EU	57
The Effect of Reinforcement Particle Size on the Properties of Cu-Al ₂ O ₃ Composites		
BOROWIECKA-JAMROZEK Joanna	Kielce University of Technology, Kielce, Poland, EU	58
Fabrication and Characteristics of Sintered Copper-silica Composites		

KONIECZNY Marek	Kielce University of Technology, Kielce, Poland, EU.....	58
Mechanical Properties of Laminated CuAl10Fe3Mn2 Aluminum Bronze - Intermetallics Composites		
HADJI Idir	Research Center in Industrial Technologies CRTI, alger, Algeria.....	58
Investigation of the Effect of Aluminum Alloy Position on Residual Stresses in Dissimilar FSW Weld by Using the Ultrasonic Method		
TOMAN Petr	MICo, spol. s r.o., Třebíč, Czech Republic, EU	58
The Nickel Alloy Seals Designed for High Temperature Applications		
Modeling of technological processes		59
SAITOH Ken-ichi	Kansai University, Osaka, Japan	59
Atomistic Simulation of Heavily Plastic Deformation of Pearlitic Steel: Nano-sized Processes of Wire Drawing and Indentation		
DZIOBA Ihor	Kielce University of Technology, Kielce, Poland, EU.....	59
Calibration of the Constitutive Equations for Materials with Different Levels of Strength and Plasticity Characteristic Based on the Uniaxial Tensile Test Data		
KLEIN Thomas	Materials Center Leoben Forschung GmbH, Leoben, Austria, EU.....	60
Assessment of the Predictive Capabilities of Commercial Simulation Software Packages for the Analysis of the C Redistribution During Q&P Processing		
TURNÁ Ján	ŽP Research and Development Centre, Podbrezová, Slovakia, EU	60
The Comparison of Measured Surface Temperature of Roll in Stretch Reducing Mill with a Simulation of Process		
MAGZHANOV Medet	Karaganda State Technical University, Kazakhstan	60
FEM-simulation of Asymmetric Rolling with Shear Strain Intensification along Deformation Zone		
OPĚLA Petr	VSB - Technical University of Ostrava, Ostrava, Czech Republic, EU.....	61
Possibilities of Assembling of Processing Maps by Utilizing of an Artificial Neural Network Approach		
Additive manufacturing		61
VESELÝ Petr	Czech Technical University in Prague, Faculty of Electrical Engineering, Czech Republic, EU	61
Evaluation of Dielectric Properties of 3D Printed Objects based on Printing Resolution		
KOUKOLÍKOVÁ Martina	COMTES FHT a.s., Dobřany, Czech Republic, EU	61
3D COVER - Outline of the Research Project in the Field of Additive Manufacturing		
HRBÁČKOVÁ Taťána	COMTES FHT a.s., Dobřany, Czech Republic, EU	62
The Effect of Heat Treatment on Mechanical Properties and Microstructure of Additively Manufactured Components		
MERTOŮVÁ Kateřina	COMTES FHT a.s., Dobřany, Czech Republic, EU	62
Influence of Hot Isostatic Pressing on Fatigue Properties of Selective Laser Melted Ti6Al4V		
Others		62
SINELNIKOV Viktor	AGH University of Science and Technology, Cracow, Poland, EU	62
Power Increase of Supersonic Jets in Oxygen Converter		

ŻAK Paweł	AGH University of Science and Technology, Cracow, Poland, EU	63
The Effect of Yttrium Addition on the Chemical Composition of the Non-metallic Phase in Liquid Steel		
MŁYNARCZYK Piotr	Kielce University of Technology, Kielce, Poland, EU.....	63
Selected Properties of Electrospray Deposition on Carbon Steel Using the Alloy 400 Electrodes		
DUDEK Dominik	Kielce University of Technology, Kielce, Poland, EU.....	63
Comparative Research on an Abrasive Blasting of 145Cr6 Steel for Various Working Media		
BĄKOWSKI Damian	Kielce University of Technology, Kielce, Poland, EU.....	63
Research on the Use of Zeolite for Smoothing Surfaces in Tumbler Machining		
DEPCZYŃSKI Wojciech	Kielce University of Technology, Kielce, Poland, EU.....	64
Fabrication of Fe/Al ₂ O ₃ Composite Foam by Sintering Techniques		
KRAJCZARZ Daniel	Kielce University of Technology, Kielce, Poland, EU.....	64
Study of the Geometrical Structure of Copper Surface after Abrasive Waterjet Cutting		
RADOŃ Adrian	Institute of Non-Ferrous Metals, Poland, EU	64
Influence of Copper Addition on Nanocrystallization Process of Fe-Co-Mo-B-Si Amorphous Alloys with High Saturation Magnetization above 1.55 T		
JASIONOWSKI Robert	Maritime University of Szczecin, Poland, EU	64
Analysis of the Initial Cavitation Erosion Period of Selected Nickel Alloys		
ŠEVEČEK Martin	ALVEL, a.s., Prague, Czech Republic, EU	65
Accident Tolerant Cladding for VVER Reactors		
WA KALENGA Michel Kalenga	University of Johannesburg, Johannesburg, South Africa	65
Biomass Reduction of Manganese Ore in the Presence of Carbon Monoxide		
WA KALENGA Michel Kalenga	University of Johannesburg, Johannesburg, South Africa	65
Use of Macadamia Nut Shells in the Tin Production and their Effects on the Slag		
COLTELLI Maria-Beatrice	University of Pisa, Department of Civil and Industrial Engineering, Pisa, Italy, EU	66
Properties of Biocompatible and Eco-Friendly Poly(lactic Acid) (PLA) Blends and Composites		
VALIEV Ruslan	Ufa State University, Ufa, Russian Federation	66
Low Temperature Superplasticity of High-Strength Ultrafine-Grained Al 7050 Alloy		
LIST OF AUTHORS		67