

VII Session, Hall 2-1

POSTERS SESSION B,

Chairperson – Assoc. prof. Rasa Kandrotaitė-Janutienė

Friday, October 23, 11:00 – 13:00

<https://litedm.zoom.us/j/98547096675?pwd=TOJYbWhqekptd2dsVy9PL2c3L3Rldz09>



B01 11:00	<p><b>Strength and Deformability of Thin-Wall Mini-Spheres</b></p> <p><i>Viktors Mironovs, Ervins Blumbergs, Alexey Tatarinov, Kaspars Kalnins</i></p> <p>Riga Technical University, <b>LATVIA</b></p>
B02 11:05	<p><b>Mechanical and Thermal Properties of Magnesia Binder Based on Natural and Technogenic Raw Materials</b></p> <p><i>Elvija Namsone, Genadijs Sahmenko, Irina Shvetsova, Aleksandrs Korjaniks</i></p> <p>Riga Technical University, Institute of Materials and Structures, <b>LATVIA</b></p>
B03 11:10	<p><b>Development of High-Strength Foamed Concrete Compositions</b></p> <p><i>Eva Namsone, Genadijs Sahmenko, Elvija Namsone, Aleksandrs Korjakins</i></p> <p>Riga Technical University, Institute of Materials and Structures, <b>LATVIA</b></p>
B04 11:15	<p><b>Optimal Use of Industrial Hemp for LLDPE and PLA Biocomposite Reinforcement</b></p> <p><i>Anete Smoca, Zane Zelca</i></p> <p>Riga Technical University, <b>LATVIA</b></p>

<p>B05 11:20</p>	<p><b>The Influence of Process Parameters on Structure and Phase Composition of Boride Coatings Obtained on X39CrMo17-1 Stainless Steel</b></p> <p><i>Marcin Drajewicz, <a href="#">Marek Góral</a>, Barbara Kościelniak, Kamil Ochal, Tadeusz Kubaszek, Maciej Pytel, Patrycja Wierzba, Robert Wojtynek</i></p> <p>Rzeszow University of Technology, <b>POLAND</b></p>
<p>B06 11:25</p>	<p><b>Microstructure and Oxidation Resistance of Thermal Barrier Coatings with Different Ceramic Layers</b></p> <p><i><a href="#">Marek Góral</a>, Tadeusz Kubaszek, Barbara Kościelniak, Marcin Drajewicz, Mateusz Gajewski</i></p> <p>Rzeszow University of Technology, <b>POLAND</b></p>
<p>B07 11:30</p>	<p><b>Deposition of YSZ Layer by PS-PVD on Different Metals</b></p> <p><i>Marek Góral, <a href="#">Tadeusz Kubaszek</a>, Marek Poręba, Małgorzata Wierzbńska</i></p> <p>Rzeszow University of Technology, <b>POLAND</b></p>
<p>B08 11:35</p>	<p><b>The Duplex Coating Formation Using Plasma Nitriding and CrN PVD Deposition on X39CrMo17-1 Stainless Steel</b></p> <p><i>Marcin Drajewicz, Marek Góral, Maciej Pytel, Barbara Kościelniak, <a href="#">Tadeusz Kubaszek</a>, Patrycja Wierzba, Piotr Cichosz</i></p> <p>Rzeszow University of Technology, <b>POLAND</b></p>
<p>B09 11:40</p>	<p><b>Thermal Barrier Coatings Deposited Using the PS-PVD Method on TiAl-Nb-Mo Intermetallic Alloy with Different Types of Bond Coats</b></p> <p><i><a href="#">Marek Poręba</a>, Marek Góral, Tadeusz Kubaszek, Marcin Kobylarz, Marcin Drajewicz, Maciej Pytel</i></p> <p>Rzeszow University of Technology, <b>POLAND</b></p>

<p>B10 11:45</p>	<p><b>The Formation of Columnar YSZ Ceramic Layer on Graphite by PS-PVD Method for Metallurgical Applications</b></p> <p><i>Marek Poręba, Tadeusz Kubaszek, Marek Góral, Barbara Kościelniak, Kamil Gancarczyk, Marcin Drajewicz</i></p> <p>Rzeszow University of Technology, <b>POLAND</b></p>
<p>B11 11:50</p>	<p><b>Analysis of the Effects of Dynamic Alloying on the Structure of Aluminum and its Alloys</b></p> <p><i>Yulia Usherenko, Viktors Mironovs, Sergey Usherenko</i></p> <p>Riga Technical University, <b>LATVIA</b></p>
<p>B12 11:55</p>	<p><b>Adaptive Control for the Metal Cutting Process</b></p> <p><i>Viktors Gutakovskis, Eriks Gerins, Vytenis Naginevicius, Vladimirs Gudakovskis, Esmeralda Styps, Rolandas Sertvytis</i></p> <p>Riga Technical University, <b>LATVIA</b></p>
<p>B13 12:00</p>	<p><b>Heat Conductive Plates from Recycled Niobium Slag</b></p> <p><i>Priit Kulu, Dmitri Goljandin, Mart Viljus, Rainer Traksmaa, Andre Gregor</i></p> <p>Tallinn University of Technology, <b>ESTONIA</b></p>
<p>B14 12:05</p>	<p><b>Nanostructured TiAlSi-CN:Me/a-CN:Si<sub>3</sub>N<sub>4</sub> Composite Coatings Deposited by Advanced PVD Technique</b></p> <p><i>Uldis Kandars, Janis Lungevics, Armands Leitans, Irina Boiko, Karlis Berzins, Zane Trubina</i></p> <p>Riga Technical University, <b>LATVIA</b></p>
<p>B15 12:10</p>	<p><b>Stress and Deformation Numerical Analysis of Austempered Ductile Cast Iron</b></p> <p><i>Regita Bendikienė, Ramūnas Česnavičius, Antanas Čiuplys, Vytautas Grigas, Aliaksandr Bahdanovich, Aleh Nasan</i></p> <p>Kaunas University of Technology, <b>LITHUANIA</b></p>

<p><b>B16</b> 12:15</p>	<p><b>Fatigue Behaviour of Austempered Ductile Cast Iron for Railway Industry Applications</b></p> <p><i>Regita Bendikienė, Ramūnas Česnavičius, Antanas Čiuplys, Vytautas Grigas, Aliaksandr Bahdanovich, Sergei Sherbakov, Liudmila Shemet</i></p> <p>Kaunas University of Technology, LITHUANIA</p>
<p><b>B17</b> 12:20</p>	<p><b>Optimal Composition for Surface Restauration by Hardfacing: Feasibility Study</b></p> <p><i>Regita Bendikienė, Antanas Čiuplys, Lina Kavaliauskienė</i></p> <p>Kaunas University of Technology, LITHUANIA</p>
<p><b>B18</b> 12:25</p>	<p><b>Electrospun Polyvinylbutyral Antimicrobial Coating for Medical Equipment Packaging</b></p> <p><i>Nijolė Buškuvienė, Erika Adomavičiūtė, Virginija Jankauskaitė</i></p> <p>Kaunas University of Technology, LITHUANIA</p>



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