Najvýznamnejšie publikácie

PhD. študijný program: Materiálové inžinierstvo

2025	**Ing. Martin Mikolajčík, PhD.** **ADC** ID: 1212231 | Influence of copper addition on the mechanical properties and corrosion resistance of self-hardening secondary aluminium alloy AlZn10Si8Mg / **Mikolajčík, Martin** - Kuchariková, Lenka - Tillová, Eva - Sanchez, Jon Mikel - Šurdová, Zuzana - Chalupová, Mária. Metals [elektronický dokument] . Bazilej (Švajčiarsko): Multidisciplinary Digital Publishing Institute. ISSN (online) 2075-4701. – Roč. 14, č. 7 (2024), art. no. 776, s. [1-19] [online] Zaradené v: Q2, Current Content Connect; SCOPUS; Web of Science Core Collection **Ing. Zuzana Šurdová** **ADC** Enhancing Fatigue Lifetime of Secondary AlZn10Si8Mg Alloys Through Shot Peening: Influence of Iron Content and Surface Defects / Straková Denisa - **Šurdová, Zuzana -** Tillová, Eva - Kuchariková, Lenka- Mikolajčík, Martin – Závodská Denisa – Guagliano Mário. Bazilej (Švajčiarsko): Multidisciplinary Digital Publishing Institute. ISSN (online) 2075-4701. – Roč. 18, č. 6 (2025), art. no. 3901, s. [1-16] [online] Zaradené v: Q2, Current Content Connect; SCOPUS; Web of Science Core Collection
2024	**Ing. Ján Sovík, PhD.** **ADC** ID: 1095873 | The effect of mechanical pretreatment on the electrochemical characteristics of PEO coatings prepared on magnesium alloy AZ80 / **Sovík, Ján** - Kajánek, Daniel - Pastorek, Filip - Štrbák, Milan - Florková, Zuzana - Jambor, Michal - Hadzima, Branislav. In: Materials [elektronický dokument] . Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute. ISSN (online) 1996-1944. Roč. 16, č. 16 (2023), art. no. 5650, s. [1-21] [online] Zaradené v: Q1, Current Content Connect; SCOPUS; Web of Science Core Collection **Ing. Veronika Obertová, PhD.** **ADC** ID: 1161112 | Use of NaAlO2 additions to extend the corrosion resistance of PEO layer on EV31 magnesium alloy / Knap, Vidžaja - Blawert, Carsten - Serdechnova, Maria - Pastorek, Filip - Kajánek, Daniel - **Obertová, Veronika - H**adzima, Branislav. SCIE ; WOS CC ; SCO ; CCC In: Journal of Materials Research and Technology [(print)] [elektronický dokument] . Amsterdam (Holandsko) : Elsevier. ISSN 2238-7854. ISSN (online) 2214-0697. č. 29 (2024), s. 2083-2096 Zaradené v: Q2, Current Content Connect; SCOPUS; Web of Science Core Collection **Ing. Petra Drímalová, PhD.** ADC – Zatkaliková Viera – **Drímalová Petra** – Katarzyna Balin – Slezák Martin – Lenka Markovičová: Electrochemical Behavior of Plasma-Nitrided Austenitic Stainless Steel in Chloride Solutions. . In. Materials, 2024, 17 (17), 4189 Zaradené v: Q1, Current Content Connect; SCOPUS; Web of Science Core Collection **Ing. Lucia Pastierovičová, PhD.** **ADC** ID: 1070922 | The influence of a corrosive environment on fatigue and mechanical properties of an Al-cast alloy with higher Fe content / Kuchariková, Lenka - **Pastierovičová, Lucia** - Tillová, Eva - Uhríčik, Milan - Zatkalíková, Viera - Šajgalík, Michal. In: Metals [elektronický dokument] . Bazilej (Švajčiarsko) : Multidisciplinary Digital Publishing Institute. ISSN (online) 2075-4701. Roč. 13, č. 6 (2023), s. [1-20] [online] Zaradené v: Q2, Current Content Connect; SCOPUS; Web of Science Core Collection
2023	**Ing. Milan Štrbák, PhD.** **ADC** – **Štrbák Milan** – Kajánek Daniel – Knap Vidžaja – Florková Zuzana – Pastorková Jana - Hadzima Branislav – Goraus Matej: Effect of plasma electrolytic oxidation on the short-term corrosion behaviour of AZ91 magnesium alloy in aggressive chloride environment. In. Coatings, 2022, vol. 12, 5. Zaradené v: Q2, Current Content Connect; SCOPUS; Web of Science Core Collection

	Ing. Vidžaja Knap, PhD. **ADC** – Štrbák Milan – Kajánek Daniel – **Knap Vidžaja** – Florková Zuzana – Pastorková Jana - Hadzima Branislav – Goraus Matej: Effect of plasma electrolytic oxidation on the short-term corrosion behaviour of AZ91 magnesium alloy in aggressive chloride environment. In. Coatings, 2022, vol. 12, 5. Zaradené v: Q2, Current Content Connect; SCOPUS; Web of Science Core Collection **Ing. Tibor Varmus, PhD.** **ADC** – Konečná Radomiala – **Varmus Tibor** – Gianni Nicoletto – Jambor Michal: Influence of Build Orientation on Surface Roughness and Fatigue Life of the Al2024-RAM2 Alloy Produced by Laser Powder Bed Fusion (L-PBF). In. Metals, vol. 13, 9. Zaradené v: Q2, Current Content Connect; SCOPUS; Web of Science Core Collection
2022	**Ing. Denisa Medvecká, PhD.** **ADC** – Kuchariková lenka – **Medvecká Denisa** – Tillová Eva – Belan Juraj – Krittikos Michaela – Chalupová Mária – Uhríčik Milan: The effect of the beta-Al5FeSi phases on microstructure, mechanical and fatigue properties in A356.0 cast alloys with higher Fe content without additional alloying of Mn. In. : Materials, 2021, vol. 14, 8 Zaradené v: Q2, Current Content Connect; SCOPUS; Web of Science Core Collection **Ing. Tatiana Kojnoková, PhD.** **ADC** – **Kojnoková Tatiana** – Nový František – Markovičová Lenka: he study of chemical and thermal influences of the environment on the degradation of mechanical properties of carbon composite with epoxy resin. In. Polymers, vol. 22, 16, 2022 Zaradené v: Q1, Current Content Connect; SCOPUS; Web of Science Core Collection
2021	**Ing. Patrícia Hanusová, PhD.** **ADC** - Uhríčik Milan - Palček Peter - Chalupová Mária - **Hanusová Patrícia** - Kuchariková Lenka: Analysis of the properties of EN AC 51200 aluminum alloy. In: Archives of Metallurgy and Materials: the Journal of Institute of Metallurgy and Materials Science and Commitee on Metallurgy of Polish Academy of Sciences. ISSN 1733-3490. Roč. 65, č. 4 (2020), s. 1437-1445. Zaradené v: Current Content Connect; SCOPUS; Web of Science Core Collection. **Ing. Ivana Švecová, PhD.** **ADC** - Kuchariková Lenka - Tillová Eva - Uhríčik Milan - Belan Juraj - **Švecová Ivana** - Samardžiová Michaela: Quality assessment of Al castings produced in sand molds using image and CT analyses. In: Journal of Materials Engineering and Performance. JMEP: design, process, characterization, evaluation. ISSN 1059-9495. Roč. 28, č. 7 (2019), s. 3966-3973. Zaradené v: KIS ; SCOPUS ; Current Content Connect ; Web of Science Core Collection.
2020	**Ing. Dušan Gaňa, PhD.** /externé štúdium/ **AFD** - Markovičová Lenka - Zatkalíková Viera - Kojnoková Tatiana - **Gaňa Dušan** - Liptáková Tatiana: The physical - mechanical properties of low-density polyethylene films. In: Development of Materials Science in Research and Education (DMSRE29). ISSN 1757-8981. 1. vyd. Bristol: IOP Publishing, 2020. s. [1-5]. Zaradené v: SCOPUS ; Web of Science Core Collection.
2019	**Ing. Tatiana Oršulová, PhD.** **AFC** - **Oršulová Tatiana** - Palček Peter - Roszak Marek - Uhríčik Milan - Smetana Milan - Kúdelčík Jozef: Change of magnetic properties in austenitic stainless steels due to plastic deformation. In: ECF22 Loading and environment effects on structural integrity. [S.l.]: Elsevier. s. 1689-1694. (ISSN 2452-3216, Procedia structural integrity). Zaradené v: Web of Science Core Collection. **Ing. Daniel Kajánek, PhD.** **ADC** - Hadzima Branislav - Pastorek Filip - Borko Kamil - Fintová Stanislava - **Kajánek Daniel** - Bagherifard Sara - Gholami-Kermanshahi Mozhgan - Trško Libor - Pastorková Jana - Brezina Jozef: Effect of phosphating time on protection properties of hurealite coating: Differences between ground and shot peened HSLA steel surface. In: Surface and Coatings Technology. an international journal

	devoted to the science and application of advanced surface treatments for improvement of material properties. ISSN 0257-8972. č. 375 (2019), s. 608-620. Zaradené v: Current Content Connect ; SCOPUS ; Web of Science Core Collection. **Ing. Michal Jambor, PhD.** **ADC** - Lago Ján - Trško Libor - **Jambor Michal** - Nový František - Bokůvka Otakar - Mičian Miloš - Pastorek Filip: Fatigue life improvement of the high strength steel welded joints by ultrasonic impact peening. In: Metals [electronic]. ISSN 2075-4701, Roč. 9, č. 6 (2019), s. [1-15]. Zaradené v: Current Content Connect ; SCOPUS ; Web of Science Core Collection. **Ing. Martin Frkaň, PhD.** **ADC** - Nicoletto Gianni - Konečná Radomila - **Frkáň Martin** - Riva E.: Surface roughness and directional fatigue behavior of as-built EBM and DMLS Ti6Al4V. In: International Journal of Fatigue: materials, structures, components. ISSN 0142-1123. č. 116 (2018), s. 140-14. Zaradené v: Current Content Connect ; SCOPUS ; Web of Science Core Collection.
2018	**Ing. Kamil Borko, PhD.** **ADC** - Pastorek Filip - **Borko Kamil** - Fintová Stanislava - Kajánek Daniel - Hadzima Branislav: Effect of surface pretreatment on quality and electrochemical corrosion properties of manganese phosphate on S355J2 HSLA steel. In: Coatings. ISSN 2079-6412. Vol. 6, no. 4 (2016), online, [9] s. Zaradené v: Current Content Connect, Web of Science Core Collection ; SCOPUS. **Ing. Denisa Zavodská, PhD.** **ADC** - **Závodská Denisa** - Kuchariková Lenka - Tillová Eva - Guagliano Mario - Chalupová Mária - Uhríčik Milan - Belan Juraj: The effect of iron content on fatigue lifetime of AlZn10Si8Mg cast alloy. In: International Journal of Fatigue: materials, structures, components. ISSN 0142-1123. č. 128 (2019), s. [1-8]. Zaradené v: Current Content Connect ; SCOPUS ; Web of Science Core Collection.
2017	**Ing. Ján Lago, PhD.** **ADC** - Lago Ján - Guagliano Mario - Bokůvka Otakar - Trško Libor - Řidký Ondřej - Nový František - Závodská Denisa: Improvement of fatigue endurance of welded S355 J2 structural steel by severe shot peening. In: Surface Engineering. ISSN 0267-0844. Vol. 33, iss. 9 (2017), s. 715-720. Zaradené v: Current Content Connect, Web of Science Core Collection ; SCOPUS **Ing. Monika Oravcová, PhD.** **ADC** - Libor Trško - Stanislava Fintová - František Nový - Otakar Bokůvka - Michal Jambor - Filip Pastorek - Zuzana Florková - **Monika Oravcová:** Study of relation between shot peening parameters and fatigue fracture surface character of an AW 7075 aluminium alloy. In: Metals. ISSN 2075-4701. Roč. 8, č. 2 (2018), s. [1-20]. Zaradené v: Current Content Connect ; Web of Science Core Collection ; SCOPUS
2016	**Ing. Adrián Bača, PhD.** **ADC** - Konečná Radomila - Kunz L. - **Bača Adrián** - Nicoletto G.: Resistance of direct metal laser sintered Ti6Al4V alloy against growth of fatigue cracks. In: Engineering fracture mechanics. ISSN 0013-7944. Vol. 185, Sp. iss. (2017), s. 82-91. Zaradené v: Current Content Connect, Web of Science Core Collection ; SCOPUS **Ing. Zuzana Dresslerová, PhD.** **ADC** - Uhríčik Milan - **Dresslerová Zuzana** - Palček Peter - Chalupová Mária - Trojanová Zuzanka - Hanusová Patrícia: Amplitude dependent internal friction in strained magnesium alloys of AZ series. In: Crystals. ISSN 2073-4352. Roč. 10, č. 7 (2020), s. [1-18]. Zaradené v: Current Content Connect ; SCOPUS ; Web of Science Core Collection. **Ing. Miroslav Omasta, PhD.** **ADE** - Hadzima Branislav - Pastorek Filip - **Omasta Miroslav** - Blažek Dalibor - Hrabovský D.: Electrodeposition of the calcium phosphate coatings on the Mg-Al-Zn alloys surfaces. In: Advanced science, engineering and medicine. ISSN 2164-6627. Vol. 6, no. 4 (2014), s. 454-458

	Zaradené v: Web of Science; SCOPUS **Ing. Martin Lovíšek, PhD.** **AGJ** – Liptáková Tatiana - Malcho Milan - **Lovíšek Martin**: Zariadenie na meranie korózno-eróznej degradácie rúrok súčasne pri rôznych rýchlostiach prúdiacej kvapaliny: Úžitkový vzor č. 7745. Banská Bystrica: Úrad priemyselného vlastníctva SR, 2017. 4 s. SK. Číslo prihlášky: 33-2016. Dátum zverejnenia prihlášky: 3.10.2016 Vestník ÚPV SR č.:10/2016. Dátum zverejnenia: 3.4.2017 Vestník ÚPV SR č.: 04/2017. Dátum sprístupnenia verejnosti: 22.2.2017. Ing. Pawel Szataniak, PhD. /externé štúdium/ **AFD** - Ulewicz Robert - **Szataniak Pawel** - Nový František - Trško Libor - Bokůvka Otakar: Fatigue characteristics of structural steels in the gigacycle region of loading. In: Materials Today: proceedings 4. ISSN 2214-7853. Vol. 4, iss. 5 (2017), on-line, s. 5979-5984. Článok je zaradený v databáze Web of Science a SCOPUS.
2015	**Ing. Andrea Soviarová, PhD.** **ADD** - Trojanová Zuzanka - Palček Peter - **Soviarová Andrea** - Chalupová Mária - Dash K. - Knapek M.: Internal friction associated with the microstructural changes in an AZ91 magnesium alloy. Kovové materiály = Metallic Materials. ISSN 0023-432X. - Vol. 53, iss. 4 (2015), s. 259-265. Zaradené v: Current Content Connect, Web of Science Core Collection; SCOPUS.