

Tibor KvaĀkaj

List of Publications by Year in descending order

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402
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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Grain growth phenomena and heat transport in non-oriented electrical steels. <i>Acta Materialia</i> , 2007, 55, 1711-1722. | 3.8 | 45 |
| 2 | Case Study of the Tensile Fracture Investigation of Additive Manufactured Austenitic Stainless Steels Treated at Cryogenic Conditions. <i>Materials</i> , 2020, 13, 3328. | 1.3 | 28 |
| 3 | A Quantitative Characterization of Austenite Microstructure after Deformation in Nonrecrystallization Region and Its Influence on Ferrite Microstructure after Transformation.. <i>ISIJ International</i> , 1998, 38, 1270-1276. | 0.6 | 27 |
| 4 | TEM studies of structure in OFHC copper processed by equal channel angular rolling. <i>Micron</i> , 2012, 43, 720-724. | 1.1 | 25 |
| 5 | Influence of plastic deformation conditions on structure evolution in Nb-Ti microalloyed steel. <i>Journal of Materials Processing Technology</i> , 2003, 133, 236-242. | 3.1 | 23 |
| 6 | Overview of HSS Steel Grades Development and Study of Reheating Condition Effects on Austenite Grain Size Changes. <i>Materials</i> , 2021, 14, 1988. | 1.3 | 23 |
| 7 | Aging behavior of Al-Li-(Cu, Mg) alloys processed by different deformation methods. <i>Materials and Design</i> , 2020, 196, 109139. | 3.3 | 22 |
| 8 | Effect of thermomechanical processing on the microstructure and mechanical properties of Nb-Ti microalloyed steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 319-321, 321-325. | 2.6 | 20 |
| 9 | The Influence of Severe Plastic Deformation and Subsequent Annealing on the Microstructure and Hardness of a Cu-Cr-Zr Alloy. <i>Materials</i> , 2020, 13, 2241. | 1.3 | 18 |
| 10 | Influence of ECAP-Back Pressure on the Porosity Distribution. <i>Acta Physica Polonica A</i> , 2010, 117, 864-868. | 0.2 | 18 |
| 11 | Different Formation Routes of Pore Structure in Aluminum Powder Metallurgy Alloy. <i>Materials</i> , 2019, 12, 3724. | 1.3 | 15 |
| 12 | Influence of cryorolling on properties of L-PBF 316l stainless steel tested at 298K and 77K. <i>Acta Metallurgica Slovaca</i> , 2019, 25, 283-290. | 0.3 | 15 |
| 13 | Application of Workability Test to Spd Processing. <i>Archives of Metallurgy and Materials</i> , 2013, 58, 407-412. | 0.6 | 14 |
| 14 | Effect of Various Processing Conditions on the Tensile Properties and Structural Developments of EN AW 2014 Aluminium Alloy. <i>High Temperature Materials and Processes</i> , 2008, 27, 203-207. | 0.6 | 13 |
| 15 | Microstructure evolution and mechanical performance of copper processed by equal channel angular rolling. <i>Materials Characterization</i> , 2017, 134, 246-252. | 1.9 | 13 |
| 16 | EVALUATION OF HIGH PURITY ALUMINIUM AFTER ASYMMETRIC ROLLING AT AMBIENT AND CRYOGENIC TEMPERATURES. <i>Acta Metallurgica Slovaca</i> , 2017, 23, 99-104. | 0.3 | 13 |
| 17 | Influence of strain rate on ultimate tensile stress of coarse-grained and ultrafine-grained copper. <i>Materials Letters</i> , 2010, 64, 2344-2346. | 1.3 | 12 |
| 18 | Wear Mechanism of Chromium Pre-Alloyed Sintered Steel. <i>High Temperature Materials and Processes</i> , 2009, 28, 175-180. | 0.6 | 11 |

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|----|--|-----|-----------|
| 19 | The Porosity Evaluation during ECAP in Aluminium PM Alloy. Acta Physica Polonica A, 2012, 122, 553-556. | 0.2 | 11 |
| 20 | Mechanical and Thermal Properties of Central Former Material for High-Current Superconducting Cables. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-4. | 1.1 | 10 |
| 21 | Influence of Processing Conditions on Properties of AISI 316LN Steel Grade. Journal of Materials Engineering and Performance, 2020, 29, 1509-1514. | 1.2 | 8 |
| 22 | Nanostructure Formation and Properties in Some Al Alloys after SPD and Heat Treatment. Materials Science Forum, 2009, 633-634, 273-302. | 0.3 | 7 |
| 23 | The influence of ECAP on the small punch creep of Al ⁴ vol.% Al ₄ C ₃ composite. Journal of Materials Science, 2010, 45, 5171-5176. | 1.7 | 7 |
| 24 | Influence of Hot Plastic Deformation in $\hat{\epsilon}^3$ and $(\hat{\epsilon}^3 + \hat{\epsilon}^{\pm})$ Area on the Structure and Mechanical Properties of High-Strength Low-Alloy (HSLA) Steel. Materials, 2016, 9, 971. | 1.3 | 7 |
| 25 | Identification of the Critical Pore Sizes in Sintered and Ecaped Aluminium 6XXX Alloy. Archives of Metallurgy and Materials, 2013, 58, 371-375. | 0.6 | 6 |
| 26 | The mechanical properties of OFHC copper and CuCrZr alloys after asymmetric rolling at ambient and cryogenic temperatures. Open Engineering, 2018, 8, 426-431. | 0.7 | 6 |
| 27 | Influence of Plastic Deformation on Creep Behaviour of NiMoCr Alloy. High Temperature Materials and Processes, 2003, 22, 57-62. | 0.6 | 5 |
| 28 | Influence of Deformation Temperature and Time on the Mechanical Properties of Pulsation Deformed Stainless Steel. High Temperature Materials and Processes, 2005, 24, 139-144. | 0.6 | 5 |
| 29 | The mechanism of the failure of the dispersion-strengthened Cu ⁴ Al ₂ O ₃ nanosystem. Journal of Materials Science, 2010, 45, 4073-4077. | 1.7 | 5 |
| 30 | Cockcroft-Latham Ductile Fracture Criteria for Non Ferrous Materials. Materials Science Forum, 2014, 782, 373-378. | 0.3 | 5 |
| 31 | Influence of Annealing Conditions on Structural Development of Cryo Rolled FeSi Steel. Acta Physica Polonica A, 2014, 126, 184-185. | 0.2 | 5 |
| 32 | From Micro to Nano Scale Structure by Plastic Deformations. Materials Science Forum, 0, 783-786, 842-847. | 0.3 | 5 |
| 33 | The Influence of ECAP Geometry on the Effective Strain Distribution. Advanced Materials Research, 0, 1127, 135-141. | 0.3 | 5 |
| 34 | New Numerical Solution of von Karman Equation of Lengthwise Rolling. Journal of Applied Mathematics, 2015, 2015, 1-20. | 0.4 | 5 |
| 35 | New Approach In The Properties Evaluation Of Ultrafine-Grained OFHC Copper. Archives of Metallurgy and Materials, 2015, 60, 605-614. | 0.6 | 5 |
| 36 | Influence of Pulsation Deformations on Properties of Steel Grade Cr18Ni10. High Temperature Materials and Processes, 2004, 23, 1-6. | 0.6 | 4 |

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|----|---|-----|-----------|
| 37 | Nanostructure Formation and Numerical Simulation of IF Steel in ECAP. High Temperature Materials and Processes, 2007, 26, . | 0.6 | 4 |
| 38 | Influence of ECAR Processing on OFHC Cu Material Properties. Materials Science Forum, 2010, 667-669, 133-137. | 0.3 | 4 |
| 39 | Post SPD Material's Recovery in Thermal Exposition. Acta Physica Polonica A, 2015, 128, 689-692. | 0.2 | 4 |
| 40 | The Effect of Severe Plastic Deformation and Heat Treatment on CuCrZr Alloys. Acta Physica Polonica A, 2017, 131, 1336-1340. | 0.2 | 4 |
| 41 | HOT COMPRESSION TEST OF 9 Cr-1 Mo STEEL " NUMERICAL SIMULATION. Acta Metallurgica Slovaca, 2016, 22, 102. | 0.3 | 4 |
| 42 | AUSTENITE " FERRITE TRANSFORMATION TEMPERATURES OF C MN AL HSLA STEEL. Acta Metallurgica Slovaca, 2021, 27, 207-209. | 0.3 | 4 |
| 43 | Influence of SPD by ECAP on Cu Properties. Materials Science Forum, 0, 584-586, 310-314. | 0.3 | 3 |
| 44 | Influence of Reheating Conditions on Austenite Grain Growth. High Temperature Materials and Processes, 2011, 30, . | 0.6 | 3 |
| 45 | The Influence of Thermo-Plastic Processes on Materials Recovery. Materials Science Forum, 0, 782, 379-383. | 0.3 | 3 |
| 46 | The Effect of Cryo-Rolling and Annealing on Magnetic Properties in Non-Oriented Electrical Steel. Acta Physica Polonica A, 2017, 131, 1105-1107. | 0.2 | 3 |
| 47 | Investigation of Fracture Surfaces of Soft Magnetic Materials. Acta Physica Polonica A, 2010, 118, 800-801. | 0.2 | 3 |
| 48 | ANALYSIS OF METALLIC MATERIALS FOR ITER WITH THE EMPHASIS ON COPPER ALLOYS. Acta Metallurgica Slovaca, 2014, 20, 397-404. | 0.3 | 3 |
| 49 | Effect of Austenitization Temperature on Hot Ductility of C-Mn-Al HSLA Steel. Materials, 2022, 15, 922. | 1.3 | 3 |
| 50 | Ultra Fine Structure and Properties Formation of EN AW 6082 Alloy. High Temperature Materials and Processes, 2008, 27, . | 0.6 | 2 |
| 51 | Effect of ECAP on the Dimensional and Morphological Characteristics of High Performance Aluminium PM Alloy. Materials Science Forum, 2010, 667-669, 535-540. | 0.3 | 2 |
| 52 | Observation of Anisotropy of Creep Fracture Using Small Punch Test for Al-Al ₄ C ₃ System Produced by Equal Channel Angular Pressing. High Temperature Materials and Processes, 2011, 30, . | 0.6 | 2 |
| 53 | Analysis of the Fracture Surfaces of New Development Insulated Iron Powder Compounds. Acta Physica Polonica A, 2014, 126, 154-155. | 0.2 | 2 |
| 54 | EVALUATION OF FORMABILITY OF THIN SHEETS BASED ON Al-Mg-Si FOR AUTOMOTIVE INDUSTRY. Acta Metallurgica Slovaca, 2015, 21, 176-183. | 0.3 | 2 |

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|----|--|-----|-----------|
| 55 | Formability Evaluation of Aluminium Alloys by FLD Diagrams. Acta Physica Polonica A, 2017, 131, 1344-1347. | 0.2 | 2 |
| 56 | Apparent Activation Energy for High-Temperature Deformation of EN AW 2014. High Temperature Materials and Processes, 2009, 28, 315-322. | 0.6 | 1 |
| 57 | The Compressibility Behaviour of a New Generation of Coated Metal/Ceramic Composite Powders. Key Engineering Materials, 0, 409, 362-364. | 0.4 | 1 |
| 58 | Influence of ECAP on Densification Behaviour in the PM Aluminium Al-Mg-Si-Cu-Fe Alloy. Journal of Electrical Engineering, 2010, 61, 308-310. | 0.4 | 1 |
| 59 | Application of The Torsion Test in Calculating The Extrusion Force. Archives of Metallurgy and Materials, 2011, 56, 81-85. | 0.6 | 1 |
| 60 | Numerical simulation, formation of microstructure and mechanical properties of nanocopper prepared by severe plastic deformation. International Journal of Materials and Product Technology, 2011, 40, 36. | 0.1 | 1 |
| 61 | Effect of Severe Plastic Deformation on the Characteristics of a PM Aluminum Alloy. Advanced Materials Research, 0, 189-193, 2838-2841. | 0.3 | 1 |
| 62 | The Influence of Severe Plastic Deformation on Structure and Mechanical Properties the Aluminium Alloy EN AW 6082. Key Engineering Materials, 0, 635, 18-21. | 0.4 | 1 |
| 63 | Structural Stability of Amorphous Alloy of Modified Finemet Type. Acta Physica Polonica A, 2015, 127, 564-566. | 0.2 | 1 |
| 64 | Evaluation of the Material Properties of the Ti and CoCr Alloys Prepared by Laser Powder Bed Fusion. Materials Science Forum, 0, 985, 223-228. | 0.3 | 1 |
| 65 | Mechanical and Structural Properties of High Purity Al Processed by ECAP. Acta Physica Polonica A, 2012, 122, 557-560. | 0.2 | 1 |
| 66 | Material Recovery of OFHC Cu and FeSi Steel after Processing by Plastic Deformations. Acta Physica Polonica A, 2017, 131, 1315-1319. | 0.2 | 1 |
| 67 | Hot Compression Test of Heat Resistant Steel. Acta Physica Polonica A, 2017, 131, 1340-1344. | 0.2 | 1 |
| 68 | HIGH TEMPERATURE MECHANICAL PROPERTIES OF Al-Al ₄ C ₃ COMPOSITE PRODUCED BY MECHANICAL ALLOYING. Acta Metallurgica Slovaca, 2014, 20, 326-340. | 0.3 | 1 |
| 69 | PHYSICAL AND NUMERICAL DETERMINATION OF WORKABILITY IN ALUMINIUM ALLOYS. Acta Metallurgica Slovaca, 2014, 20, 279-286. | 0.3 | 1 |
| 70 | RESEARCH OF FATIGUE AND MECHANICAL PROPERTIES AlMg1SiCu ALUMINIUM ALLOYS. Advances in Science and Technology Research Journal, 2015, 9, 56-60. | 0.4 | 1 |
| 71 | Thermal stability of the ultrafine grained EN AW 6082 aluminium alloy. Metallic Materials, 2021, 51, 117-122. | 0.2 | 1 |
| 72 | WEAR CHARACTERISTICS OF Cu OFHC MATERIAL PREPARED BY ORBITAL FORGING AND ECAP. International Journal of Modern Physics B, 2010, 24, 797-804. | 1.0 | 0 |

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|----|---|-----|-----------|
| 73 | Study of Different Vacuum Heat Treatments on the Strength of a Low Alloyed Sintered Steel. High Temperature Materials and Processes, 2011, 30, . | 0.6 | 0 |
| 74 | Tribological Characteristics of Copper Based Composites with Al ₂ O ₃ Particles at Various Temperatures. High Temperature Materials and Processes, 2013, 32, 437-442. | 0.6 | 0 |
| 75 | Influence of Severe Plastic Deformation on the Properties of a Selected Aluminium Alloy. Applied Mechanics and Materials, 0, 611, 412-415. | 0.2 | 0 |
| 76 | Relation between microstructural features and mechanical properties in oxygen free high conductivity copper after Equal-Channel Angular Pressing. Metallic Materials, 2016, 52, 337-344. | 0.2 | 0 |
| 77 | Investigation of the Ultrafine-Grained Structure Formation under Different Strain Rates. Archives of Metallurgy and Materials, 2017, 62, 851-856. | 0.6 | 0 |
| 78 | Study of the High-Temperature Behaviour of Aluminium Alloy En Aw 2014. Archives of Metallurgy and Materials, 2011, 56, . | 0.6 | 0 |
| 79 | DISTRIBUTION NORMAL CONTACT STRESSES IN THE ROLL GAP AT A CONSTANT SHEAR STRESS. Acta Metallurgica Slovaca, 2015, 21, 13-24. | 0.3 | 0 |
| 80 | Structural Nature of ZnAl ₄ Cu ₁ Alloy Plasticity Affected by Various Technological Treatments. Defect and Diffusion Forum, 0, 405, 92-99. | 0.4 | 0 |