List of Publications by Year in descending order

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LINC-FELCAO

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | The structural and compositional evolution of precipitates in Al-Mg-Si-Cu alloy. Acta Materialia, 2018, 145, 437-450.  | 3.8 | 197       |
| 2  | Investigation on microstructure and mechanical properties of Al-Zn-Mg-Cu alloys with various Zn/Mg ratios. Journal of Materials Science and Technology, 2021, 85, 106-117.   | 5.6 | 127       |
| 3  | Hot deformation and dynamic recrystallization in Al-Mg-Si alloy. Materials Characterization, 2021, 173, 110976.  | 1.9 | 83        |
| 4  | Clustering behaviour in an Al–Mg–Si–Cu alloy during natural ageing and subsequent under-ageing.<br>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and<br>Processing, 2013, 559, 257-261.                  | 2.6 | 80        |
| 5  | Investigation on formation mechanism of T1 precipitate in an Al-Cu-Li alloy. Journal of Alloys and Compounds, 2017, 723, 661-666.  | 2.8 | 72        |
| 6  | Effect of retrogression treatments on microstructure, hardness and corrosion behaviors of aluminum alloy 7085. Journal of Alloys and Compounds, 2020, 814, 152264.   | 2.8 | 69        |
| 7  | The influence of Mg/Si ratio and Cu content on the stretch formability of 6xxx aluminium alloys.<br>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and<br>Processing, 2016, 651, 688-697.                 | 2.6 | 68        |
| 8  | Quantifying the grain boundary segregation strengthening induced by post-ECAP aging in an Al-5Cu<br>alloy. Acta Materialia, 2018, 155, 199-213.  | 3.8 | 62        |
| 9  | The Influence of Composition on the Clustering and Precipitation Behavior of Al-Mg-Si-Cu Alloys.<br>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48,<br>459-473.                               | 1.1 | 60        |
| 10 | Effect of trace Er on the microstructure and properties of Al–Zn–Mg–Cu–Zr alloys during heat<br>treatments. Materials Science & Engineering A: Structural Materials: Properties, Microstructure<br>and Processing, 2020, 792, 139807.          | 2.6 | 58        |
| 11 | Effect of pre-ageing and natural ageing on the paint bake response of alloy AA6181A. Materials Science<br>& Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 571, 77-82.                                  | 2.6 | 45        |
| 12 | Size and shape effects on Curie temperature of ferromagnetic nanoparticles. Transactions of Nonferrous Metals Society of China, 2007, 17, 1451-1455.   | 1.7 | 43        |
| 13 | Effect of ageing temperature on microstructure, mechanical property and corrosion behavior of aluminum alloy 7085. Journal of Alloys and Compounds, 2020, 823, 153792.   | 2.8 | 43        |
| 14 | A highly [001]-textured Sb <sub>2</sub> Se <sub>3</sub> photocathode for efficient photocelectrochemical water reduction. Nanoscale, 2019, 11, 22871-22879.  | 2.8 | 41        |
| 15 | Effect of Ag on aging precipitation behavior and mechanical properties of aluminum alloy 7075.<br>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and<br>Processing, 2021, 804, 140515.                    | 2.6 | 39        |
| 16 | The microstructure and formation mechanism of face-centered cubic Ti in commercial pure Ti foils during tensile deformation at room temperature. Materials Characterization, 2018, 136, 257-263.   | 1.9 | 34        |
| 17 | Effect of Ag on age-hardening response of Al-Zn-Mg-Cu alloys. Materials Science & Engineering A:<br>Structural Materials: Properties, Microstructure and Processing, 2019, 754, 265-268.   | 2.6 | 33        |
| 18 | The effect of pre-ageing/stretching on the ageing-hardening behavior of Al–Zn–Mg–Cu alloys correlated with Zn/Mg ratio. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 830, 142331. | 2.6 | 30        |

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|----|--|-----|-----------|
| 19 | Thermal stability of Fe, Co, Ni metal nanoparticles. Physica Status Solidi (B): Basic Research, 2006, 243,<br>2745-2755.   | 0.7 | 29        |
| 20 | Improvement of strength and ductility of Al-Cu-Li alloy through cryogenic rolling followed by aging.<br>Transactions of Nonferrous Metals Society of China, 2017, 27, 1920-1927.   | 1.7 | 29        |
| 21 | A simplified model to calculate the higher surface energy of free-standing nanocrystals. Physica<br>Status Solidi (B): Basic Research, 2005, 242, R76-R78.   | 0.7 | 28        |
| 22 | Thermal stability of indium nanocrystals: A theoretical study. Materials Chemistry and Physics, 2006, 96, 418-421.   | 2.0 | 28        |
| 23 | Simultaneously enhanced strength and ductility of 6xxx Al alloys via manipulating meso-scale and<br>nano-scale structures guided with phase equilibrium. Journal of Materials Science and Technology,<br>2020, 41, 139-148.  | 5.6 | 28        |
| 24 | Flow behavior and microstructure evolution of 6A82 aluminium alloy with high copper content<br>during hot compression deformation at elevated temperatures. Transactions of Nonferrous Metals<br>Society of China, 2016, 26, 649-657.                                    | 1.7 | 27        |
| 25 | The microstructural evolution of aluminum alloy 7055 manufactured by hot thermo-mechanical process. Journal of Alloys and Compounds, 2019, 796, 103-110.   | 2.8 | 27        |
| 26 | Effect of pre-ageing on dynamic strain ageing in Al-Mg-Si alloys. Materials Science & Engineering A:<br>Structural Materials: Properties, Microstructure and Processing, 2017, 687, 323-331.   | 2.6 | 25        |
| 27 | Influence of pre-recovery on the subsequent recrystallization and mechanical properties of a<br>twin-roll cast Al-Mn alloy. Materials Science & Engineering A: Structural Materials: Properties,<br>Microstructure and Processing, 2017, 682, 63-72.                     | 2.6 | 25        |
| 28 | Effect of Heat Treatment Condition on the Flow Behavior and Recrystallization Mechanisms of Aluminum Alloy 7055. Materials, 2019, 12, 311.   | 1.3 | 25        |
| 29 | The microstructure and tensile properties of W/Ti multilayer composites prepared by spark plasma sintering. Journal of Alloys and Compounds, 2019, 780, 116-130.   | 2.8 | 25        |
| 30 | Influence of pre-ageing on the stretch formability of Al-Mg-Si automotive sheet alloys. Materials<br>Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017,<br>697, 79-85.  | 2.6 | 21        |
| 31 | Simulation of low proportion of dynamic recrystallization in 7055 aluminum alloy. Transactions of<br>Nonferrous Metals Society of China, 2021, 31, 1902-1915.  | 1.7 | 19        |
| 32 | Quantitative analysis: How annealing temperature influences recrystallization texture and grain<br>shape in tantalum. International Journal of Refractory Metals and Hard Materials, 2018, 72, 244-252.  | 1.7 | 18        |
| 33 | Influence of Sn on the precipitation and hardening response of natural aged Al-0.4Mg-1.0Si alloy<br>artificial aged at different temperatures. Materials Science & Engineering A: Structural Materials:<br>Properties, Microstructure and Processing, 2019, 765, 138250. | 2.6 | 16        |
| 34 | Hot Deformation Behavior and Microstructure Characterization of an Al-Cu-Li-Mg-Ag Alloy. Crystals, 2020, 10, 416.  | 1.0 | 16        |
| 35 | Effect of quenching rate on strengthening behavior of an Al-Zn-Mg-Cu alloy during natural ageing.<br>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and<br>Processing, 2020, 793, 139900.   | 2.6 | 16        |
| 36 | Effect of the natural aging time on the age-hardening response and precipitation behavior of the Al-0.4Mg-1.0Si-(Sn) alloy. Materials and Design, 2021, 198, 109307.   | 3.3 | 15        |

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|----|--|--------------------|------------------|
| 37 | The annealing characteristics of pure molybdenum bars manufactured by a modified technique.<br>Journal of Alloys and Compounds, 2008, 462, 386-391.  | 2.8                | 13               |
| 38 | The effect of HIPping pressure on phase transformations in Ti–5Al–5Mo–5V–3Cr. Materials Science<br>& Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 598,<br>207-216.  | 2.6                | 13               |
| 39 | Strain accommodation of <110>-normal direction-oriented grains in micro-shear bands of high-purity tantalum. Journal of Materials Science, 2018, 53, 12543-12552.  | 1.7                | 13               |
| 40 | SYNTHESIS OF AN IONIC LIQUID-BASED MAGNETORHEOLOGICAL FLUID<br>DISPERSING <font>Fe</font> <sub>84</sub> <font>Nb</font> <sub>3</sub> <font>V</font> <sub>4</sub> <font<br>POWDERS. International Journal of Modern Physics B, 2010, 24, 1227-1234.</font<br> | t> <b>B⊾∲</b> ont: | > <sunb>9</sunb> |
| 41 | Keeping gallium metal to liquid state under the freezing point by using silica nanoparticles. Applied<br>Physics Letters, 2011, 99, .  | 1.5                | 11               |
| 42 | The evolution of shear bands in Ta-2.5W alloy during cold rolling. Materials Science &<br>Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 726, 259-273.  | 2.6                | 11               |
| 43 | Aging precipitation behavior and properties of Al–Zn–Mg–Cu–Zr–Er alloy at different quenching rates. Transactions of Nonferrous Metals Society of China, 2022, 32, 1070-1082.  | 1.7                | 11               |
| 44 | Microstructure characterization of Al-cladded Al–Zn–Mg–Cu sheet in different hot deformation conditions. Transactions of Nonferrous Metals Society of China, 2017, 27, 1689-1697.  | 1.7                | 10               |
| 45 | Effect of cold rolling on properties and microstructures of dispersion strengthened copper alloys.<br>Transactions of Nonferrous Metals Society of China, 2008, 18, 333-339.   | 1.7                | 8                |
| 46 | Effect of ageing temperature on precipitation of Al-Cu-Li-Mn-Zr alloy. Journal of Central South University, 2018, 25, 1340-1349.   | 1.2                | 8                |
| 47 | Orientation-dependent grain boundary characteristics in tantalum upon the change of strain path.<br>Materials Characterization, 2019, 154, 277-284.  | 1.9                | 8                |
| 48 | Microstructure and Its Effect on the Intergranular Corrosion Properties of 2024-T3 Aluminum Alloy.<br>Crystals, 2022, 12, 395.   | 1.0                | 8                |
| 49 | The evolution of dislocation microstructure in electron beam melted Ta-2.5W alloy during cold rolling. International Journal of Refractory Metals and Hard Materials, 2016, 61, 136-146.   | 1.7                | 7                |
| 50 | Tailoring the microstructure and mechanical properties of the final Al-Mn foils by different intermediate annealing process. Journal of Materials Science and Technology, 2017, 33, 961-970.   | 5.6                | 7                |
| 51 | Simulation of dynamic recrystallization in an Al-Mg-Si alloy during inhomogeneous hot deformation.<br>Materials Today Communications, 2021, 29, 102810.  | 0.9                | 7                |
| 52 | Thermal behavior and structure of Fe84Nb7B9 nanocrystalline powders. Transactions of Nonferrous<br>Metals Society of China, 2006, 16, 299-303.   | 1.7                | 6                |
| 53 | On the Role of C Addition on $\hat{I}\pm$ Precipitation in a $\hat{I}^2$ Titanium Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 1089-1095.   | 1.1                | 6                |
| 54 | The microstructure and property of W/Ti multilayer composites prepared by spark plasma sintering.<br>International Journal of Refractory Metals and Hard Materials, 2019, 79, 138-144.   | 1.7                | 5                |

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|----|--|-----|-----------|
| 55 | Crystallographic analysis of nucleation for random orientations in high-purity tantalum. Journal of<br>Materials Research, 2018, 33, 1755-1763.  | 1.2 | 4         |
| 56 | Micro porosity and its effect on fatigue performance of 7050 aluminum thick plates. Journal of Central South University, 2022, 29, 912-923.  | 1.2 | 4         |
| 57 | Effect of Nb Content on Microstructure and Mechanical Properties of K4169-Type Superalloy. Journal of Materials Engineering and Performance, 2022, 31, 4204-4213.  | 1.2 | 3         |
| 58 | MELTING-THERMODYNAMIC CHARACTERISTICS OF Fe, Co, Ni MAGNETIC NANOCRYSTALS. Modern Physics Letters B, 2005, 19, 1253-1260.  | 1.0 | 2         |
| 59 | Effect of pre-recovery on subsequent recrystallization kinetics in moderately deformed and supersaturated Al-Mn alloys. Journal of Central South University, 2018, 25, 534-542.  | 1.2 | 2         |
| 60 | Analysis of atomic distribution near grain boundary in Zr Sn Nb Fe-(Cu) alloys by atom probe<br>tomography. Journal of Nuclear Materials, 2019, 515, 135-139.  | 1.3 | 2         |
| 61 | In-situ micro-compression of single-crystal aluminum alloy 6063. Materials Science & Engineering<br>A: Structural Materials: Properties, Microstructure and Processing, 2020, 775, 138974.   | 2.6 | 2         |
| 62 | Effect of Initial Microstructure on the Hot Deformation Behavior and Microstructure Evolution of Aluminum Alloy AA2060. Metals and Materials International, 2022, 28, 1561-1574.   | 1.8 | 2         |
| 63 | Study on the Grain Rotation of High-Purity Tantalum during Compression Deformation. Crystals, 2022, 12, 676.   | 1.0 | 2         |
| 64 | Reply to "Comment on â€~A simplified model to calculate the higher surface energy of free-standing nanocrystals'―[phys. stat. sol. (b)242, No. 15, R129-R130 (2005)]. Physica Status Solidi (B): Basic Research, 2005, 242, R131-R133. | 0.7 | 1         |
| 65 | Preface to the special issue on aluminum alloys for transportation. Journal of Central South University, 2022, 29, 741-743.  | 1.2 | 1         |
| 66 | Effect of platform temperature on microstructure and corrosion resistance of selective laser melted Al-Mg-Sc alloy plate. Journal of Central South University, 2022, 29, 999-1014.   | 1.2 | 0         |