

Martin Lentz

List of Publications by Year in descending order

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Version: 2024-02-01

10
papers

423
citations

1039406

9
h-index

1473754

9
g-index

10
all docs

10
docs citations

10
times ranked

328
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | In situ X-ray diffraction and crystal plasticity modeling of the deformation behavior of extruded Mg-Li (Al) alloys: An uncommon tension-compression asymmetry. <i>Acta Materialia</i> , 2015, 86, 254-268. | 3.8 | 123 |
| 2 | Effect of age hardening on the deformation behavior of an Mg-Y-Nd alloy: In-situ X-ray diffraction and crystal plasticity modeling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 628, 396-409. | 2.6 | 76 |
| 3 | Elevated Temperature Effects on the Plastic Anisotropy of an Extruded Mg-4 Wt Pct Li Alloy: Experiments and Polycrystal Modeling. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 446-458. | 1.1 | 39 |
| 4 | Fatigue properties of the hot extruded magnesium alloy AZ31. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 5514-5521. | 2.6 | 37 |
| 5 | Characterization of second-phase particles in two aluminium foil alloys. <i>Journal of Alloys and Compounds</i> , 2016, 660, 276-288. | 2.8 | 37 |
| 6 | Analysis of the Deformation Behavior of Magnesium-Rare Earth Alloys Mg-2% Mn-1% Rare Earth and Mg-5% Y-4% Rare Earth by In Situ Energy-Dispersive X-ray Synchrotron Diffraction and Elasto-Plastic Self-Consistent Modeling. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 5721-5735. | 1.1 | 33 |
| 7 | Grain Size Effects on Primary, Secondary, and Tertiary Twin Development in Mg-4wt% Li (-1wt% Al) Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 4737-4741. | 1.1 | 30 |
| 8 | Analyses of deformation twinning in the extruded magnesium alloy AZ31 after compressive and cyclic loading. <i>Journal of Materials Science</i> , 2011, 46, 938-950. | 1.7 | 28 |
| 9 | A modified processing route for high strength Al-Mg-Si aluminum conductors based on twin-roll cast strip. <i>Journal of Materials Processing Technology</i> , 2020, 278, 116463. | 3.1 | 14 |
| 10 | Through Process Microchemistry Effects on the Properties of 8xxx Sheet. <i>Materials Science Forum</i> , 0, 706-709, 323-328. | 0.3 | 6 |