# Yingchun Wan

List of Publications by Year
in descending order

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| 21 | 326 | 1306789 7 | 839053 18 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 21 | 21 | 21 | 166 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Bulk nanocrystalline high-strength magnesium alloys prepared via rotary swaging. Acta Materialia, 2020, 200, 274-286. | 3.8 | 134 |
| 2 | Dislocations-induced precipitates and their effect on mechanical properties of Mg-Gd-Y-Zr alloy. Journal of Magnesium and Alloys, 2019, 7, 414-418. | 5.5 | 47 |
| 3 | Age-hardening and age-softening in nanocrystalline Mg-Gd-Y-Zr alloy. Materials Characterization, 2019, 156, 109841. | 1.9 | 24 |
| 4 | Dislocation arrays, precipitate bands and free zones in forged Mg-Gd-Y-Zr alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 775, 138789. | 2.6 | 20 |
| 5 | Grain Refinement Mechanisms in Gradient Nanostructured AZ31B Mg Alloy Prepared via Rotary Swaging. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 4053-4065. | 1.1 | 18 |
| 6 | Strengthening the Mgâ€“Yâ€“Zn alloy through the formation of nanoscale lamellar structures and nanograins. Journal of Alloys and Compounds, 2021, 886, 161148. | 2.8 | 11 |
| 7 | Strengthening against {10<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mover accent="true"><mml:mn>1</mml:mn><mml:mo stretchy="true">Â¯</mml:mo></mml:mover></mml:math>2} twinning by discontinuous and continuous precipitate in a strongly textured Mg-9Al alloy. Materials Characterization, 2020, 167, 110523. | 1.9 | 10 |
| 8 | Fabrication of Nanocrystalline Highâ€Strength Magnesiumâ^'Lithium Alloy by Rotary Swaging. Advanced Engineering Materials, 2022, 24, 2100666. | 1.6 | 9 |
| 9 | Achieving high-strength nanocrystalline WE43 Mg alloy by a combination of cold rotary swaging and aging treatment. Vacuum, 2022, 197, 110840. | 1.6 | 8 |
| 10 | Manufacturing high-performance Mg alloy through hot extrusion. Materials and Manufacturing Processes, 2018, 33, 863-866. | 2.7 | 7 |
| 11 | Enhanced Mechanical and Corrosion Performance by Forming Micro Shear Bands in Cold Forged Mg-Gd-Y-Zr Alloy. Materials, 2020, 13, 3181. | 1.3 | 6 |
| 12 | Nanocrystallization of the cast AZ31 Mg alloy by low-strain rotary swaging. Materials Letters, 2022, 307, 130995. | 1.3 | 6 |
| 13 | Improving the Ductility of Mgâ€“Gdâ€“Yâ€“Zr Alloy through Extrusion and a Following Rolling. Advanced Engineering Materials, 2018, 20, 1701041. | 1.6 | 5 |
| 14 | Effect of yttrium on nanocrystallization of magnesium alloys during cold rotary swaging. Materials Characterization, 2022, 184, 111696. | 1.9 | 5 |
| 15 | Effect of Dy and Nd on ZK10 alloy processed by hot extrusion. Materials and Manufacturing Processes, 2017, 32, 1360-1362. | 2.7 | 4 |
| 16 | Influence of Heat Treatment on Microstructures and Impact Toughness of Mg-Al-Zn Alloy. Jom, 2019, 71, 2874-2883. | 0.9 | 3 |
| 17 | Deformation Mechanism, Microstructure, and Mechanical Properties Evolution of Mgâ€“Gdâ€“Yâ€“Zr Alloy during Cold Torsion. Materials, 2021, 14, 2067. | 1.3 | 3 |
| 18 | Nanocrystallization of Mg-Y-Zn Alloy Containing Long-Period Stacking-Ordered Phase during Cold Rotary Swaging. Journal of Materials Engineering and Performance, 2022, 31, 5042-5049. | 1.2 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Loading Mode Dependence of {$$10ar{1}2$$} Twin Variant Selection in a Rolled Mg-Al-Zn Alloy. Journal of Materials Engineering and Performance, 2021, 30, 7979-7988. | 1.2 | 1 |
| 20 | Twinning-Induced Abnormal Strain Rate Sensitivity and Indentation Creep Behavior in Nanocrystalline Mg Alloy. Materials, 2021, 14, 7104. | 1.3 | 1 |
| 21 | Stress-accelerated softening in bulk nanocrystalline Mg-Gd-Y-Zr alloys. Journal of Alloys and Compounds, 2022, 906, 164347. | 2.8 | 1 |