

Houwen Chen

List of Publications by Year in descending order

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35
papers

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394421

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times ranked

2188
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Exceptional thermal stability and enhanced hardness in a nanostructured Mg-Gd-Y-Zn-Zr alloy processed by high pressure torsion. <i>Journal of Magnesium and Alloys</i> , 2023, 11, 4589-4602. | 11.9 | 16 |
| 2 | Atomic structure and evolution of a precursor phase of θ precipitate in an Al-Cu-Mg-Ag alloy. <i>Acta Materialia</i> , 2022, 225, 117538. | 7.9 | 21 |
| 3 | Enhanced bonding strength of AZ31B/carbon-fiber-reinforced plastic laminates by anodization treatment in a saturated Na ₂ SiO ₃ solution. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 840, 142982. | 5.6 | 7 |
| 4 | Ordered Sn distribution adjacent to the precipitate-matrix interface in a Mg-9.8wt.%Sn alloy. <i>Journal of Magnesium and Alloys</i> , 2022, , . | 11.9 | 1 |
| 5 | Phase transformation generating coherent twin boundaries in titanium alloys. <i>Materials Letters</i> , 2022, 322, 132515. | 2.6 | 1 |
| 6 | Origin of profuse $\{11\bar{2}\}$ deformation twins in Mg-Gd alloys. <i>Scripta Materialia</i> , 2021, 191, 62-66. | 5.2 | 20 |
| 7 | Unusual solute segregation phenomenon in coherent twin boundaries. <i>Nature Communications</i> , 2021, 12, 722. | 12.8 | 60 |
| 8 | Martensitic transformation induced dislocation walls in Fe ₄₂ Mn ₃₈ Co ₁₀ Cr ₁₀ high-entropy alloy. <i>Scripta Materialia</i> , 2021, 201, 113929. | 5.2 | 16 |
| 9 | Electron beam irradiation induced metastable phase in a Mg-9.8 wt%Sn alloy. <i>Journal of Materials Science and Technology</i> , 2021, 84, 133-138. | 10.7 | 9 |
| 10 | Enhanced age-hardening response in Mg-Zn-Co alloys with Bi additions. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152419. | 5.5 | 12 |
| 11 | On the Equilibrium Intermetallic Phase in Mg-Nd-Ag Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 1402-1415. | 2.2 | 10 |
| 12 | Atomic scale characterization of complex stacking faults and their configurations in cold deformed Fe ₄₂ Mn ₃₈ Co ₁₀ Cr ₁₀ high-entropy alloy. <i>Acta Materialia</i> , 2020, 199, 649-668. | 7.9 | 22 |
| 13 | Highly reversible oxygen redox in layered compounds enabled by surface polyanions. <i>Nature Communications</i> , 2020, 11, 3411. | 12.8 | 54 |
| 14 | Unexpected partial dislocations within stacking faults in a cold deformed Mg-Bi alloy. <i>Acta Materialia</i> , 2020, 188, 328-343. | 7.9 | 30 |
| 15 | Precipitation on stacking faults in Mg-9.8wt%Sn alloy. <i>Journal of Materials Science and Technology</i> , 2020, 45, 230-240. | 10.7 | 12 |
| 16 | Co-segregation of Mg and Zn atoms at the planar θ -precipitate/Al matrix interface in an aged Al-Zn-Mg alloy. <i>Scripta Materialia</i> , 2020, 185, 51-55. | 5.2 | 21 |
| 17 | Machine learning assisted design of γ -strengthened Co-base superalloys with multi-performance optimization. <i>Npj Computational Materials</i> , 2020, 6, . | 8.7 | 56 |
| 18 | Intermetallic Phase Formation in Mg-Ag-Nd (QE) and Mg-Ag-Nd-Zn (QEZ) Alloys. <i>Minerals, Metals and Materials Series</i> , 2020, , 71-78. | 0.4 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Sandwich Structure in Al-Cu(-Au) Alloys Characterization by Atomic-Resolution HAADF-STEM and EDXS-STEM. <i>Microscopy and Microanalysis</i> , 2019, 25, 1700-1701. | 0.4 | 0 |
| 20 | Direct observation and impact of co-segregated atoms in magnesium having multiple alloying elements. <i>Nature Communications</i> , 2019, 10, 3243. | 12.8 | 78 |
| 21 | Zn segregation in interface between Mg ₁₇ Al ₁₂ precipitate and Mg matrix in Mg-Al-Zn alloys. <i>Scripta Materialia</i> , 2019, 163, 91-95. | 5.2 | 33 |
| 22 | Development of low-alloyed and rare-earth-free magnesium alloys having ultra-high strength. <i>Acta Materialia</i> , 2018, 149, 350-363. | 7.9 | 287 |
| 23 | Revisiting building block ordering of long-period stacking ordered structures in Mg-Al alloys. <i>Acta Materialia</i> , 2018, 152, 96-106. | 7.9 | 24 |
| 24 | Metastable precipitate phases in Mg-9.8wt%Sn alloy. <i>Acta Materialia</i> , 2018, 144, 590-600. | 7.9 | 54 |
| 25 | Heat-treatable Mg-9Al-6Sn-3Zn extrusion alloy. <i>Journal of Materials Science and Technology</i> , 2018, 34, 284-290. | 10.7 | 20 |
| 26 | Enhanced strength and ductility in a high-entropy alloy via ordered oxygen complexes. <i>Nature</i> , 2018, 563, 546-550. | 27.8 | 988 |
| 27 | Twin-like fault in Mg-9.8wt%Sn alloy. <i>Scripta Materialia</i> , 2018, 155, 89-93. | 5.2 | 15 |
| 28 | Atomic-scale microstructure of Hf ₂ Al ₄ C ₅ ceramic synthesized by spark plasma sintering. <i>Journal of the American Ceramic Society</i> , 2017, 100, 3208-3216. | 3.8 | 3 |
| 29 | Evolution of the degradation mechanism of pure zinc stent in the one-year study of rabbit abdominal aorta model. <i>Biomaterials</i> , 2017, 145, 92-105. | 11.4 | 257 |
| 30 | Enhanced gene delivery of low molecular weight PEI by flower-like ZnO microparticles. <i>Materials Science and Engineering C</i> , 2016, 69, 1367-1372. | 7.3 | 14 |
| 31 | Unveiling the Semicoherent Interface with Definite Orientation Relationships between Reinforcements and Matrix in Novel Al ₃ BC/Al Composites. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 28194-28201. | 8.0 | 53 |
| 32 | Microstructural Control via Copious Nucleation Manipulated by In Situ Formed Nucleants: Large-Sized and Ductile Metallic Glass Composites. <i>Advanced Materials</i> , 2016, 28, 8156-8161. | 21.0 | 63 |
| 33 | Interphase boundary segregation of Zn in Mg-Sn-Zn alloys. <i>Scripta Materialia</i> , 2016, 123, 5-8. | 5.2 | 81 |
| 34 | Effects of Zn additions on the microstructure and hardness of Mg-9Al-6Sn alloy. <i>Materials Characterization</i> , 2016, 113, 214-221. | 4.4 | 22 |
| 35 | B22-O-02 Characterization of precipitates in magnesium alloys using atomic resolution HAADF-STEM and EDS. <i>Microscopy (Oxford, England)</i> , 2015, 64, i47.2-i47. | 1.5 | 1 |