

Ran Wei

List of Publications by Year in descending order

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63
papers

1,416
citations

331538

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360920

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docs citations

63
times ranked

873
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Heavy carbon alloyed FCC-structured high entropy alloy with excellent combination of strength and ductility. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 716, 150-156. | 2.6 | 144 |
| 2 | A novel ultrafine-grained high entropy alloy with excellent combination of mechanical and soft magnetic properties. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 502, 166513. | 1.0 | 86 |
| 3 | A superior combination of strength-ductility in CoCrFeNiMn high-entropy alloy induced by asymmetric rolling and subsequent annealing treatment. <i>Materials Characterization</i> , 2018, 145, 619-626. | 1.9 | 75 |
| 4 | A dual-phase alloy with ultrahigh strength-ductility synergy over a wide temperature range. <i>Science Advances</i> , 2021, 7, . | 4.7 | 61 |
| 5 | The corrosion behavior of ultra-fine grained CoNiFeCrMn high-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152583. | 2.8 | 53 |
| 6 | Novel Co-free high performance TRIP and TWIP medium-entropy alloys at cryogenic temperatures. <i>Journal of Materials Science and Technology</i> , 2020, 57, 153-158. | 5.6 | 50 |
| 7 | A novel FeCoNiCr _{0.2} Si _{0.2} high entropy alloy with an excellent balance of mechanical and soft magnetic properties. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 478, 116-121. | 1.0 | 49 |
| 8 | The deformation behavior and strain rate sensitivity of ultra-fine grained CoNiFeCrMn high-entropy alloys at temperatures ranging from 77â€°K to 573â€°K. <i>Journal of Alloys and Compounds</i> , 2019, 791, 962-970. | 2.8 | 47 |
| 9 | Ductile-brittle transition of carbon alloyed Fe ₄₀ Mn ₄₀ Co ₁₀ Cr ₁₀ high entropy alloys. <i>Materials Letters</i> , 2019, 236, 416-419. | 1.3 | 44 |
| 10 | Gradient structure design to strengthen carbon interstitial Fe ₄₀ Mn ₄₀ Co ₁₀ Cr ₁₀ high entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 772, 138661. | 2.6 | 44 |
| 11 | Improvement of corrosion resistance and magnetic properties of FeCoNiAl _{0.2} Si _{0.2} high entropy alloy via rapid-solidification. <i>Intermetallics</i> , 2020, 122, 106778. | 1.8 | 41 |
| 12 | Strengthening of Fe ₄₀ Mn ₄₀ Co ₁₀ Cr ₁₀ high entropy alloy via Mo/C alloying. <i>Materials Letters</i> , 2018, 219, 85-88. | 1.3 | 40 |
| 13 | Effect of cooling rate on the phase structure and magnetic properties of Fe _{26.7} Co _{28.5} Ni _{28.5} Si _{4.6} B _{8.7} P ₃ high entropy alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 435, 184-186. | 1.0 | 39 |
| 14 | Strengthening and toughening of a multi-component lithium disilicate glass-ceramic by ion-exchange. <i>Journal of the European Ceramic Society</i> , 2020, 40, 4635-4646. | 2.8 | 39 |
| 15 | Soft magnetic Fe _{26.7} Co _{26.7} Ni _{26.6} Si ₉ B ₁₁ high entropy metallic glass with good bending ductility. <i>Materials Letters</i> , 2017, 197, 87-89. | 1.3 | 30 |
| 16 | Achieving high strength and ductility in Fe ₅₀ Mn ₂₅ Ni ₁₀ Cr ₁₅ medium entropy alloy via Al alloying. <i>Journal of Materials Science and Technology</i> , 2022, 100, 20-26. | 5.6 | 28 |
| 17 | Formation of CuZr-based bulk metallic glass composites containing nanometer-scale B ₂ -CuZr phase through sub-T _g annealing. <i>Journal of Alloys and Compounds</i> , 2014, 617, 699-706. | 2.8 | 26 |
| 18 | Effects of volume fraction of Niâ€-containing LPSO phase on mechanical and corrosion properties of Mgâ€Cdâ€Ni alloys. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 537-548. | 0.8 | 26 |

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|----|--|-----|-----------|
| 19 | Mechanical property degradation of a CuZr-based bulk metallic glass composite induced by sub-T _g annealing. <i>Materials & Design</i> , 2014, 56, 128-138. | 5.1 | 24 |
| 20 | Interfacial microstructure and shear strength of TC4 alloy joints vacuum brazed with Tiâ€“Zrâ€“Niâ€“Cu filler metal. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 775, 138990. | 2.6 | 24 |
| 21 | Effect of lateral pre-compression on the compressive behavior of a CuZr-based bulk metallic glass composite containing B2-CuZr phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 587, 233-239. | 2.6 | 22 |
| 22 | Novel BCC VNbTa refractory multi-element alloys with superior tensile properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 825, 141908. | 2.6 | 22 |
| 23 | Strengthening of a lithium disilicate glass-ceramic by rapid cooling. <i>Ceramics International</i> , 2018, 44, 11650-11657. | 2.3 | 21 |
| 24 | Influences of laser surface melting on microstructure, mechanical properties and corrosion resistance of dual-phase Crâ€“Feâ€“Coâ€“Niâ€“Al high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2020, 826, 154100. | 2.8 | 20 |
| 25 | Toughening FeMn-based high-entropy alloys via retarding phase transformation. <i>Journal of Materials Science and Technology</i> , 2020, 51, 167-172. | 5.6 | 20 |
| 26 | Formation of soft magnetic high entropy amorphous alloys composites containing in situ solid solution phase. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 449, 63-67. | 1.0 | 19 |
| 27 | The Anodic Role of Ni-Containing LPSO Phases During the Microgalvanic Corrosion of Mg98Gd1.5Ni0.5 Alloy. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 2451-2458. | 1.2 | 19 |
| 28 | Synthesis of ultrafine dual-phase structure in CrFeCoNiAl0.6 high entropy alloy via solid-state phase transformation during sub-rapid solidification. <i>Journal of Materials Science and Technology</i> , 2022, 113, 253-260. | 5.6 | 19 |
| 29 | Stability of a metastable B2 phase embedded in a metallic glass matrix at liquid-nitrogen temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 634, 99-102. | 2.6 | 18 |
| 30 | Significant strengthening of a lithium disilicate glass by Li+/Na+ exchange at substantially lowered temperature. <i>Ceramics International</i> , 2019, 45, 22665-22674. | 2.3 | 16 |
| 31 | Strong time-dependence for strengthening a lithium disilicate parent glass and the corresponding glass-ceramic by Li+/Na+ exchange. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 100, 103394. | 1.5 | 15 |
| 32 | Development of a large size FCC high-entropy alloy with excellent mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 761, 138039. | 2.6 | 15 |
| 33 | Nanostructured Bi Grown on Epitaxial Graphene/SiC. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5679-5684. | 2.1 | 14 |
| 34 | Strengthening of ferrous medium entropy alloys by promoting phase transformation. <i>Intermetallics</i> , 2021, 136, 107265. | 1.8 | 14 |
| 35 | Compression-compression fatigue behavior of CuZr-based bulk metallic glass composite containing B2 phase. <i>Intermetallics</i> , 2017, 85, 54-58. | 1.8 | 13 |
| 36 | Achieving superior cryogenic tensile properties in a Ti-doped (Fe40Mn40Co10Cr10)96.7C3.3 high-entropy alloy by recovering deformation twinning. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 808, 140927. | 2.6 | 13 |

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|----|---|-----|-----------|
| 37 | Quasi-static and dynamic deformation of an in-situ Ti-based metallic glass composite in supercooled liquid region. <i>Journal of Alloys and Compounds</i> , 2016, 679, 239-246. | 2.8 | 12 |
| 38 | Phase transitions and magnetic properties of Fe ₃₀ Co ₂₉ Ni ₂₉ Zr ₇ B ₄ Cu ₁ high-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2019, 789, 762-767. | 2.8 | 12 |
| 39 | Bismuth mediated defect engineering of epitaxial graphene on SiC(0001). <i>Carbon</i> , 2019, 146, 313-319. | 5.4 | 12 |
| 40 | Analysis of deformation behavior of VCoNi medium-entropy alloy at temperatures ranging from 77ÅK to 573ÅK. <i>Intermetallics</i> , 2021, 132, 107126. | 1.8 | 12 |
| 41 | Microstructure of and mechanical properties of an as-cast fine-grain dual-phase Fe-based high entropy alloy formed via solid-state phase transformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 838, 142779. | 2.6 | 12 |
| 42 | Strain rate dependence of mechanical behavior in a CuZr-based bulk metallic glass composite containing B ₂ -CuZr phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 606, 268-275. | 2.6 | 10 |
| 43 | A corrosion-resistant soft-magnetic high entropy alloy. <i>Materials Letters</i> , 2021, 304, 130571. | 1.3 | 10 |
| 44 | Improvement of magnetic properties for V-substituted Fe _{73.5} Si _{13.5} B ₉ Cu ₁ Nb ₃ ~xVx nanocrystalline alloys. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 10555-10563. | 1.1 | 9 |
| 45 | Extremely high B (Fe _{1-x} Cox) ₈₆ Ni ₁₈ B ₁₃ amorphous soft magnetic alloys with good bending ductility. <i>Intermetallics</i> , 2020, 127, 106959. | 1.8 | 9 |
| 46 | Deformation characteristic of a Ti-based bulk metallic glass composite with fine microstructure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 733, 224-231. | 2.6 | 8 |
| 47 | A novel Fe-Co-Ni-Si high entropy alloy with high yield strength, saturated magnetization and Curie temperature. <i>Materials Letters</i> , 2020, 281, 128653. | 1.3 | 8 |
| 48 | Phase formation and magnetic properties of high-entropy metallic glasses in (Fe, Co, Ni)-P-B alloy system with non-equiatomic ratio. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 509, 166875. | 1.0 | 7 |
| 49 | Dynamic precipitation-induced the negative strain rates sensitivity in VCoNi medium-entropy alloy. <i>Materials Letters</i> , 2021, 290, 129480. | 1.3 | 7 |
| 50 | Effects of Al and Mn on microstructure, magnetic and mechanical properties of Fe ₄₀ Co ₄₀ Ni ₁₀ M ₁₀ (M=Al, Mn) medium entropy alloys. <i>Journal of Alloys and Compounds</i> , 2022, 890, 161779. | 2.8 | 6 |
| 51 | Enhanced n-doping of epitaxial graphene on SiC by bismuth. <i>Applied Physics Letters</i> , 2018, 113, . | 1.5 | 5 |
| 52 | Strain Rate Sensitivity Variation in CuZr-based Bulk Metallic Glass Composites Containing B ₂ -CuZr Phase. <i>Rare Metal Materials and Engineering</i> , 2016, 45, 542-547. | 0.8 | 4 |
| 53 | Crystallization and corrosion resistance of Zr~Ti~Y~Al~Cu~Ni~Co~Fe complex multi-component bulk metallic glasses. <i>Intermetallics</i> , 2020, 118, 106688. | 1.8 | 4 |
| 54 | Revealing the effects of cooling rate on soft magnetic properties of (Fe _{0.9} Co _{0.1}) ₈₆ Ni ₁₈ B ₁₃ amorphous alloy. <i>Intermetallics</i> , 2022, 146, 107583. | 1.8 | 4 |

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|----|---|-----|-----------|
| 55 | Effects of Doping Nano-La ₂ O ₃ on the Microstructure and Mechanical Properties of MoSi ₃ Alloys. Materials Transactions, 2018, 59, 764-770. | 0.4 | 3 |
| 56 | Formation of Micro- and Nano-Trenches on Epitaxial Graphene. Applied Sciences (Switzerland), 2018, 8, 2518. | 1.3 | 3 |
| 57 | Effect of Shot Peening on Mechanical Behavior of Zr-Based Bulk Metallic Glasses under Monotonic and Cyclic Loading Mode. Materials Transactions, 2017, 58, 757-760. | 0.4 | 2 |
| 58 | Tailoring Nano-crystallization in Zr ₅₀ Ti ₄ Y ₁ Al ₁₀ Cu ₂₅ Ni ₇ Co ₂ Fe ₁ complex multicomponent bulk metallic glass by O doping. Journal of Non-Crystalline Solids, 2021, 553, 120474. | 1.5 | 2 |
| 59 | Effect of B2 Phase Transformation on the Mechanical Behavior of CuZr-Based Bulk Metallic Glass Composites. Materials Science Forum, 0, 898, 672-678. | 0.3 | 1 |
| 60 | A complex multicomponent bulk metallic glass/ultrafine-nanocrystal composite fabricated under industrial-applicable condition. Journal of Non-Crystalline Solids, 2020, 530, 119827. | 1.5 | 1 |
| 61 | Improving the Bs and soft magnetic properties of Fe-based amorphous ribbons by manipulating the surface crystallization behavior. Journal of Materials Science: Materials in Electronics, 2021, 32, 21206-21212. | 1.1 | 1 |
| 62 | Strengthening of Fe 50 Mn 25 Ni 10 Cr 15 Medium Entropy Alloys by Mo Addition for Cryogenic Applications. Advanced Engineering Materials, 0, , . | 1.6 | 1 |
| 63 | Effect of Al addition on the corrosion behavior of the VCoNi medium-entropy alloys. Journal of Alloys and Compounds, 2022, 920, 165954. | 2.8 | 1 |