

Ran Wei

List of Publications by Year in descending order

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papers

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331538

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#	ARTICLE	IF	CITATIONS
1	Achieving high strength and ductility in Fe ₅₀ Mn ₂₅ Ni ₁₀ Cr ₁₅ medium entropy alloy via Al alloying. Journal of Materials Science and Technology, 2022, 100, 20-26.	5.6	28
2	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. Journal of Alloys and Compounds, 2022, 890, 161779.	2.8	6
3	Synthesis of ultrafine dual-phase structure in CrFeCoNiAl _{0.6} high entropy alloy via solid-state phase transformation during sub-rapid solidification. Journal of Materials Science and Technology, 2022, 113, 253-260.	5.6	19
4	Microstructure of and mechanical properties of an as-cast fine-grain dual-phase Fe-based high entropy alloy formed via solid-state phase transformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 838, 142779.	2.6	12
5	Revealing the effects of cooling rate on soft magnetic properties of (Fe _{0.9} Co _{0.1}) ₈₆ Ni ₁₄ amorphous alloy. Intermetallics, 2022, 146, 107583.	1.8	4
6	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
7	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
8	Achieving superior cryogenic tensile properties in a Ti-doped (Fe ₄₀ Mn ₄₀ Co ₁₀ Cr ₁₀) _{96.7} C _{3.3} high-entropy alloy by recovering deformation twinning. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 808, 140927.	2.6	13
9	Analysis of deformation behavior of VCoNi medium-entropy alloy at temperatures ranging from 77 K to 573 K. Intermetallics, 2021, 132, 107126.	1.8	12
10	Dynamic precipitation-induced the negative strain rates sensitivity in VCoNi medium-entropy alloy. Materials Letters, 2021, 290, 129480.	1.3	7
11	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
12	A dual-phase alloy with ultrahigh strength-ductility synergy over a wide temperature range. Science Advances, 2021, 7, .	4.7	61
13	Novel BCC VNbTa refractory multi-element alloys with superior tensile properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 825, 141908.	2.6	22
14	Strengthening of ferrous medium entropy alloys by promoting phase transformation. Intermetallics, 2021, 136, 107265.	1.8	14
15	A corrosion-resistant soft-magnetic high entropy alloy. Materials Letters, 2021, 304, 130571.	1.3	10
16	The corrosion behavior of ultra-fine grained CoNiFeCrMn high-entropy alloys. Journal of Alloys and Compounds, 2020, 816, 152583.	2.8	53
17	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
18	Gradient structure design to strengthen carbon interstitial Fe ₄₀ Mn ₄₀ Co ₁₀ Cr ₁₀ high entropy alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 772, 138661.	2.6	44

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19	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
20	Extremely high B (Fe _{1-x} Co _x) ₈₆ Ni ₁ B ₁₃ amorphous soft magnetic alloys with good bending ductility. <i>Intermetallics</i> , 2020, 127, 106959.	1.8	9
21	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
22	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
23	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
24	Interfacial microstructure and shear strength of TC4 alloy joints vacuum brazed with Ti-Zr-Ni-Cu filler metal. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 775, 138990.	2.6	24
25	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
26	Influences of laser surface melting on microstructure, mechanical properties and corrosion resistance of dual-phase Cr-Fe-Co-Ni-Al high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2020, 826, 154100.	2.8	20
27	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
28	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
29	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
30	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
31	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
32	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
33	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
34	The Anodic Role of Ni-Containing LPSO Phases During the Microgalvanic Corrosion of Mg ₉₈ Gd _{1.5} Ni _{0.5} Alloy. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 2451-2458.	1.2	19
35	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
36	The deformation behavior and strain rate sensitivity of ultra-fine grained CoNiFeCrMn high-entropy alloys at temperatures ranging from 77 K to 573 K. <i>Journal of Alloys and Compounds</i> , 2019, 791, 962-970.	2.8	47

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37	Bismuth mediated defect engineering of epitaxial graphene on SiC(0001). Carbon, 2019, 146, 313-319.	5.4	12
38	Ductile-brittle transition of carbon alloyed Fe ₄₀ Mn ₄₀ Co ₁₀ Cr ₁₀ high entropy alloys. Materials Letters, 2019, 236, 416-419.	1.3	44
39	Effects of volume fraction of Ni-containing LPSO phase on mechanical and corrosion properties of Mg-Gd-Ni alloys. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 537-548.	0.8	26
40	Strengthening of Fe ₄₀ Mn ₄₀ Co ₁₀ Cr ₁₀ high entropy alloy via Mo/C alloying. Materials Letters, 2018, 219, 85-88.	1.3	40
41	Heavy carbon alloyed FCC-structured high entropy alloy with excellent combination of strength and ductility. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 716, 150-156.	2.6	144
42	Strengthening of a lithium disilicate glass-ceramic by rapid cooling. Ceramics International, 2018, 44, 11650-11657.	2.3	21
43	Formation of soft magnetic high entropy amorphous alloys composites containing in situ solid solution phase. Journal of Magnetism and Magnetic Materials, 2018, 449, 63-67.	1.0	19
44	Effects of Doping Nano-La ₂ O ₃ on the Microstructure and Mechanical Properties of Mo-9Si-18B Alloys. Materials Transactions, 2018, 59, 764-770.	0.4	3
45	Formation of Micro- and Nano-Trenches on Epitaxial Graphene. Applied Sciences (Switzerland), 2018, 8, 2518.	1.3	3
46	A superior combination of strength-ductility in CoCrFeNiMn high-entropy alloy induced by asymmetric rolling and subsequent annealing treatment. Materials Characterization, 2018, 145, 619-626.	1.9	75
47	Nanostructured Bi Grown on Epitaxial Graphene/SiC. Journal of Physical Chemistry Letters, 2018, 9, 5679-5684.	2.1	14
48	Enhanced n-doping of epitaxial graphene on SiC by bismuth. Applied Physics Letters, 2018, 113, .	1.5	5
49	Deformation characteristic of a Ti-based bulk metallic glass composite with fine microstructure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 733, 224-231.	2.6	8
50	Compression-compression fatigue behavior of CuZr-based bulk metallic glass composite containing B ₂ phase. Intermetallics, 2017, 85, 54-58.	1.8	13
51	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. Journal of Magnetism and Magnetic Materials, 2017, 435, 184-186.	1.0	39
52	Soft magnetic Fe _{26.7} Co _{26.7} Ni _{26.6} Si ₉ B ₁₁ high entropy metallic glass with good bending ductility. Materials Letters, 2017, 197, 87-89.	1.3	30
53	Improvement of magnetic properties for V-substituted Fe _{73.5} Si _{13.5} B ₉ Cu ₁ Nb ₃ xVx nanocrystalline alloys. Journal of Materials Science: Materials in Electronics, 2017, 28, 10555-10563.	1.1	9
54	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

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55	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
56	Strain Rate Sensitivity Variation in CuZr-based Bulk Metallic Glass Composites Containing B2-CuZr Phase. <i>Rare Metal Materials and Engineering</i> , 2016, 45, 542-547.	0.8	4
57	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
58	Formation of CuZr-based bulk metallic glass composites containing nanometer-scale B2-CuZr phase through sub-Tg annealing. <i>Journal of Alloys and Compounds</i> , 2014, 617, 699-706.	2.8	26
59	Strain rate dependence of mechanical behavior in a CuZr-based bulk metallic glass composite containing B2-CuZr phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 606, 268-275.	2.6	10
60	Mechanical property degradation of a CuZr-based bulk metallic glass composite induced by sub-Tg annealing. <i>Materials & Design</i> , 2014, 56, 128-138.	5.1	24
61	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
62	Effect of B2 Phase Transformation on the Mechanical Behavior of CuZr-Based Bulk Metallic Glass Composites. <i>Materials Science Forum</i> , 0, 898, 672-678.	0.3	1
63	Strengthening of Fe 50 Mn 25 Ni 10 Cr 15 Medium Entropy Alloys by Mo Addition for Cryogenic Applications. <i>Advanced Engineering Materials</i> , 0, , .	1.6	1