Xidong Hui

List of Publications by Year
in descending order

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31	463	687363 13	713466 21
papers	citations	h-index	g-index

31	31	31	442
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High temperature strengthening via nanoscale precipitation in wrought CoCrNi-based medium-entropy alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 798, 140213.	5.6	45
2	Microstructure, Mechanical Properties, and Oxidation Behavior of Al_xCr_{0.4}CuFe_{0.4}MnNi High Entropy Alloys. Advanced Engineering Materials, 2017, 19, 1600726.	3.5	42
3	Superelastic effect in Ti-rich high entropy alloys via stress-induced martensitic transformation. Scripta Materialia, 2019, 162, 112-117.	5.2	39
4	Pronounced Plasticity Caused by Phase Separation and Î²-relaxation Synergistically in Zrâ€“Cuâ€“Alâ€“Mo Bulk Metallic Glasses. Scientific Reports, 2017, 7, 1238.	3.3	29
5	Ductile Ti-rich high-entropy alloy controlled by stress induced martensitic transformation and mechanical twinning. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 763, 138147.	5.6	29
6	Enhanced dynamic deformability and strengthening effect via twinning and microbanding in high density NiCoFeCrMoW high-entropy alloys. Journal of Materials Science and Technology, 2022, 127, 164-176.	10.7	27
7	Fe-B-Si-Zr bulk metallic glasses with ultrahigh compressive strength and excellent soft magnetic properties. Materials Letters, 2016, 181, 282-284.	2.6	25
8	Formation and toughening of metastable phases in TiZrHfAlNb medium entropy alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 748, 441-452.	5.6	24
9	Tailoring the creep properties of second-generation Ni-based single crystal superalloys by composition optimization of Mo, W and Ti. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 799, 140163.	5.6	22
10	Revealing the Microstates of Body-Centered-Cubic (BCC) Equiatomic High Entropy Alloys. Journal of Phase Equilibria and Diffusion, 2017, 38, 404-415.	1.4	21
11	Glass formation and soft magnetic properties of novel Fe-rich Fe-B-Ti-Zr bulk metallic glasses. Journal of Alloys and Compounds, 2018, 741, 542-548.	5.5	20
12	Composition-controlled active-passive transition and corrosion behavior of Fe-Cr(Mo)-Zr-B bulk amorphous steels. Applied Surface Science, 2018, 445, 496-504.	6.1	17
13	High strength NiMnFeCrAlCu multi-principal-element alloys with marine application perspective. Scripta Materialia, 2021, 202, 113992.	5.2	16
14	Two-step work-hardening and its gigantic toughening effect in Zr-based bulk metallic glasses. Scripta Materialia, 2018, 150, 106-109.	5.2	15
15	Ab initio molecular dynamics simulation of the atom packing and density of Al-Ni amorphous alloys. Science China Technological Sciences, 2010, 53, 3175-3182.	4.0	11
16	Magnetocaloric effect in Er-Al-Co bulk metallic glasses. Science Bulletin, 2011, 56, 3978-3983.	1.7	11
17	Intrinsic correlation of the plasticity with liquid behavior of bulk metallic glass forming alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 744, 316-323.	5.6	11
18	Study on corrosion behavior of continuous bulk metallic glass-coated steel wire composite. Intermetallics, 2011, 19, 1913-1918.	3.9	10

#	Article	IF	Citations
19	Novel Fe-C-B-P-Cu nanocrystalline alloys with superb magnetic properties and processability. Journal of Magnetism and Magnetic Materials, 2021, 530, 167915.	2.3	9
20	High Temperature Strengthening in 12Cr-W-Mo Steels by Controlling the Formation of Delta Ferrite. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 4371-4385.	2.2	8
21	Effects of Zr and Si on the Glass Forming Ability and Compressive Properties of Ti-Cu-Co-Sn Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 2381-2389.	2.2	6
22	Quantified Relation between Grain Boundary Angle and Interfacial Stability of PWA1484 Superalloy during Thermal Exposure. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 380-389.	2.2	5
23	High strength Mgâ€“Znâ€“Y alloys reinforced synergistically by Nano-SiCp and long period stacking ordered structure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 765, 138284.	5.6	3
24	Effects of Cr addition on the glassâ€forming ability and the corrosion behaviors of FeCBSiP amorphous alloys. Materials and Corrosion - Werkstoffe Und Korrosion, 0, , .	1.5	3
25	Improved glass forming ability and soft magnetic properties by minor Mo alloying in Feâ€“Pâ€“Câ€“Bâ€“Si bulk metallic glasses. Intermetallics, 2021, 139, 107375.	3.9	3
26	Degradation performance and mechanism toward methyl orange via nanoporous copper powders fabricated by dealloying of ZrCuNiAl metallic glassy precursors. Nanotechnology, 2022, 33, 135713.	2.6	3
27	Three-dimensional temperature and stress field simulation with all-hexahedral element mesh in a high efficiency cooling structure for the fabrication of amorphous ribbons. Materials Research Express, 2022, 9, 036101.	1.6	3
28	Confined fracture behavior of bulk metallic glass-coated tungsten composite wires produced by continuously coating process. Journal of Alloys and Compounds, 2013, 553, 14-18.	5.5	2
29	The role of P content on the glass-forming ability and the magnetic properties of FeSiBPC amorphous alloys. Journal of Materials Science: Materials in Electronics, 0, , 1.	2.2	2
30	Superâ€High Strength Mgâ€“7.5Alâ€“0.8Zn Alloy Prepared by Rapidly Solidified Powder Metallurgy and Low Temperature Extrusion. Advanced Engineering Materials, 2018, 20, 1700712.	3.5	1
31	Study on the Temperature Field and Grain Structure of Large-Scale DZ466 Ni-Based Superalloy During Directional Solidification Process. Jom, 0, , 1.	1.9	1