

Zhanbing He

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

438
citations

1040056

9
h-index

713466

21
g-index

23
all docs

23
docs citations

23
times ranked

400
citing authors

#	ARTICLE	IF	CITATIONS
1	The phase transition between decagonal quasicrystal and (1/0, 2/1) approximant in Al ₂₀ Si ₂₀ Mn ₂₀ Fe ₂₀ Ga ₂₀ high entropy quasicrystal alloy. <i>Journal of Alloys and Compounds</i> , 2022, 910, 164867.	5.5	2
2	Near-equiatomic high-entropy decagonal quasicrystal in Al ₂₀ Si ₂₀ Mn ₂₀ Fe ₂₀ Ga ₂₀ . <i>Science China Materials</i> , 2021, 64, 440-447.	6.3	9
3	Mechanical behaviors and precipitation transformation of the lightweight high-Zn-content Al ₃ Zn ₃ Li ₃ Mg ₃ Cu alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 802, 140637.	5.6	36
4	Enhanced energy storage properties of ZrO ₂ -doped (Na _{0.5} Bi _{0.5}) _{0.4} Sr _{0.6} TiO ₃ Pb-free relaxor ferroelectric ceramics. <i>Ceramics International</i> , 2021, 47, 8545-8554.	4.8	12
5	Experimental observation of carousel-like phason flips in the decagonal quasicrystal Al ₆₀ Cr ₂₀ Fe ₁₀ Si ₁₀ . <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2021, 77, 355-361.	0.1	3
6	Novel kind of decagonal ordering in Al ₇₄ Cr ₁₅ Fe ₁₁ . <i>Nature Communications</i> , 2020, 11, 6209.	12.8	6
7	Stable quaternary Al ₅₉ Cr ₂₃ Fe ₈ Si ₁₀ decagonal quasicrystal. <i>Materials Characterization</i> , 2020, 166, 110424.	4.4	5
8	Ultrahigh dielectric breakdown strength and excellent energy storage performance in lead-free barium titanate-based relaxor ferroelectric ceramics via a combined strategy of composition modification, viscous polymer processing, and liquid-phase sintering. <i>Chemical Engineering Journal</i> , 2020, 398, 125625.	12.7	181
9	Microstructure evolution, mechanism of electric breakdown strength, and dielectric energy storage performance of CuO modified Ba _{0.65} Sr _{0.245} Bi _{0.07} TiO ₃ Pb-free bulk ceramics. <i>Ceramics International</i> , 2019, 45, 21544-21556.	4.8	34
10	Tunable Giant Anomalous Hall Angle in Perpendicular Multilayers by Interfacial Orbital Hybridization. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24751-24756.	8.0	3
11	Dielectric, ferroelectric and energy storage properties of lead-free (1-x)Ba _{0.9} Sr _{0.1} TiO ₃ -xBi(Zn _{0.5} Zr _{0.5})O ₃ ferroelectric ceramics sintered at lower temperature. <i>Ceramics International</i> , 2019, 45, 15556-15565.	4.8	39
12	Hexagonal structural block consisting of 2 nm decagonal clusters in Al ₆₀ Cr ₂₀ Fe ₁₀ Si ₁₀ alloy. <i>Journal of Alloys and Compounds</i> , 2019, 788, 685-689.	5.5	3
13	Direct evidence of 2H hexagonal Si in Si nanowires. <i>Nanoscale</i> , 2019, 11, 4846-4853.	5.6	19
14	180° domain related to structurally complex crystals in Al ₆₀ Cr ₂₀ Fe ₁₀ Si ₁₀ . <i>Materials Characterization</i> , 2019, 158, 109947.	4.4	1
15	Porous Al ₆₃ Cu ₂₅ Fe ₁₂ quasicrystals covered with (Al _{11.5} Fe _{13.9} Cu _{19.7})O _{54.9} nanosheets. <i>Materials Characterization</i> , 2019, 147, 165-172.	4.4	8
16	Exceptionally large areas of local tenfold symmetry in decagonal Al ₅₉ Cr ₂₁ Fe ₁₀ Si ₁₀ . <i>Journal of Alloys and Compounds</i> , 2018, 765, 753-756.	5.5	7
17	Shield-like tile and its application to the decagonal quasicrystal-related structures in Al-Cr-Fe-Si alloys. <i>Journal of Alloys and Compounds</i> , 2017, 701, 494-498.	5.5	7
18	Big-data analysis of phase-formation rules in high-entropy alloys. <i>Journal of Iron and Steel Research International</i> , 2017, 24, 358-365.	2.8	6

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19	Multiple quasicrystal approximants with the same lattice parameters in Al-Cr-Fe-Si alloys. Scientific Reports, 2017, 7, 40510.	3.3	8
20	Atomic-scale configurations of variant twin boundaries of a pseudo-decagonal quasicrystal approximant in Al ₆₀ Cr ₂₀ Fe ₁₀ Si ₁₀ alloy. Journal of Alloys and Compounds, 2017, 723, 736-742.	5.5	4
21	New type of Al-based decagonal quasicrystal in Al ₆₀ Cr ₂₀ Fe ₁₀ Si ₁₀ alloy. Scientific Reports, 2016, 6, 22337.	3.3	14
22	A detailed study of kinking in indium-catalyzed silicon nanowires. CrystEngComm, 2015, 17, 6286-6296.	2.6	21
23	Approximants of Al-Cr-Fe-Si decagonal quasicrystals described by single structural block. Journal of Alloys and Compounds, 2015, 647, 797-801.	5.5	10