

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	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
2	Dielectric, ferroelectric and energy storage properties of lead-free $(1-x)\text{Ba}_{0.9}\text{Sr}_{0.1}\text{TiO}_3\text{-}x\text{Bi}(\text{Zn}_{0.5}\text{Zr}_{0.5})\text{O}_3$ ferroelectric ceramics sintered at lower temperature. <i>Ceramics International</i> , 2019, 45, 15556-15565.	4.8	39
3	Mechanical behaviors and precipitation transformation of the lightweight high-Zn-content Al-Al-Cr-Li-Mg-Cu alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 802, 140637.	5.6	36
4	Microstructure evolution, mechanism of electric breakdown strength, and dielectric energy storage performance of CuO modified $\text{Ba}_{0.65}\text{Sr}_{0.245}\text{Bi}_{0.07}\text{TiO}_3$ Pb-free bulk ceramics. <i>Ceramics International</i> , 2019, 45, 21544-21556.	4.8	34
5	A detailed study of kinking in indium-catalyzed silicon nanowires. <i>CrystEngComm</i> , 2015, 17, 6286-6296.	2.6	21
6	Direct evidence of 2H hexagonal Si in Si nanowires. <i>Nanoscale</i> , 2019, 11, 4846-4853.	5.6	19
7	New type of Al-based decagonal quasicrystal in $\text{Al}_{60}\text{Cr}_{20}\text{Fe}_{10}\text{Si}_{10}$ alloy. <i>Scientific Reports</i> , 2016, 6, 22337.	3.3	14
8	Enhanced energy storage properties of ZrO ₂ -doped $(\text{Na}_{0.5}\text{Bi}_{0.5})_{0.4}\text{Sr}_{0.6}\text{TiO}_3$ Pb-free relaxor ferroelectric ceramics. <i>Ceramics International</i> , 2021, 47, 8545-8554.	4.8	12
9	Approximants of Al-Cr-Fe-Si decagonal quasicrystals described by single structural block. <i>Journal of Alloys and Compounds</i> , 2015, 647, 797-801.	5.5	10
10	Near-equiatomic high-entropy decagonal quasicrystal in $\text{Al}_{20}\text{Si}_{20}\text{Mn}_{20}\text{Fe}_{20}\text{Ga}_{20}$. <i>Science China Materials</i> , 2021, 64, 440-447.	6.3	9
11	Multiple quasicrystal approximants with the same lattice parameters in Al-Cr-Fe-Si alloys. <i>Scientific Reports</i> , 2017, 7, 40510.	3.3	8
12	Porous $\text{Al}_{63}\text{Cu}_{25}\text{Fe}_{12}$ quasicrystals covered with $(\text{Al}_{11.5}\text{Fe}_{13.9}\text{Cu}_{19.7})\text{O}_{54.9}$ nanosheets. <i>Materials Characterization</i> , 2019, 147, 165-172.	4.4	8
13	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
14	Exceptionally large areas of local tenfold symmetry in decagonal $\text{Al}_{59}\text{Cr}_{21}\text{Fe}_{10}\text{Si}_{10}$. <i>Journal of Alloys and Compounds</i> , 2018, 765, 753-756.	5.5	7
15	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
16	Novel kind of decagonal ordering in $\text{Al}_{74}\text{Cr}_{15}\text{Fe}_{11}$. <i>Nature Communications</i> , 2020, 11, 6209.	12.8	6
17	Stable quaternary $\text{Al}_{59}\text{Cr}_{23}\text{Fe}_8\text{Si}_{10}$ decagonal quasicrystal. <i>Materials Characterization</i> , 2020, 166, 110424.	4.4	5
18	Atomic-scale configurations of variant twin boundaries of a pseudo-decagonal quasicrystal approximant in $\text{Al}_{60}\text{Cr}_{20}\text{Fe}_{10}\text{Si}_{10}$ alloy. <i>Journal of Alloys and Compounds</i> , 2017, 723, 736-742.	5.5	4

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19	Tunable Giant Anomalous Hall Angle in Perpendicular Multilayers by Interfacial Orbital Hybridization. ACS Applied Materials & Interfaces, 2019, 11, 24751-24756.	8.0	3
20	Hexagonal structural block consisting of 2â€nm decagonal clusters in Al ₆₀ Cr ₂₀ Fe ₁₀ Si ₁₀ alloy. Journal of Alloys and Compounds, 2019, 788, 685-689.	5.5	3
21	Experimental observation of carousel-like phason flips in the decagonal quasicrystal Al ₆₀ Cr ₂₀ Fe ₁₀ Si ₁₀ . Acta Crystallographica Section A: Foundations and Advances, 2021, 77, 355-361.	0.1	3
22	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. Journal of Alloys and Compounds, 2022, 910, 164867.	5.5	2
23	180Â° domain related to structurally complex crystals in Al ₆₀ Cr ₂₀ Fe ₁₀ Si ₁₀ . Materials Characterization, 2019, 158, 109947.	4.4	1