

Hansheng Chen

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Effect of cyclic rapid thermal loadings on the microstructural evolution of a CrMnFeCoNi high-entropy alloy manufactured by selective laser melting. <i>Acta Materialia</i> , 2020, 196, 609-625.	3.8	89
2	Attractive-domain-wall-pinning controlled Sm-Co magnets overcome the coercivity-remanence trade-off. <i>Acta Materialia</i> , 2019, 164, 196-206.	3.8	87
3	Evolution of microstructure and mechanical properties in 2205 duplex stainless steels during additive manufacturing and heat treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 835, 142695.	2.6	53
4	Nanoscale pathways for human tooth decay – Central planar defect, organic-rich precipitate and high-angle grain boundary. <i>Biomaterials</i> , 2020, 235, 119748.	5.7	26
5	On the pitting corrosion of 2205 duplex stainless steel produced by laser powder bed fusion additive manufacturing in the as-built and post-processed conditions. <i>Materials and Design</i> , 2021, 212, 110260.	3.3	24
6	Grain size quantification by optical microscopy, electron backscatter diffraction, and magnetic force microscopy. <i>Micron</i> , 2017, 101, 41-47.	1.1	19
7	Merits of Pr ₈₀ Ga ₂₀ grain boundary diffusion process towards high coercivity/remanence synergy of Nd-La-Ce-Fe-B sintered magnet. <i>Acta Materialia</i> , 2022, 231, 117873.	3.8	18
8	An observation of the binder microstructure in WC-(Co+Ru) cemented carbides using transmission Kikuchi diffraction. <i>Scripta Materialia</i> , 2020, 183, 55-60.	2.6	16
9	3D Atomic-Scale Insights into Anisotropic Core-Shell-Structured InGaAs Nanowires Grown by Metal-Organic Chemical Vapor Deposition. <i>Advanced Materials</i> , 2017, 29, 1701888.	11.1	15
10	Microstructural and Texture Evolution of Strip Cast Nd-Fe-B Flake. <i>Crystal Growth and Design</i> , 2017, 17, 6550-6558.	1.4	14
11	Atomic scale insights into the segregation/partitioning behaviour in as-sintered multi-main-phase Nd-Ce-Fe-B permanent magnets. <i>Journal of Alloys and Compounds</i> , 2020, 846, 156248.	2.8	14
12	Direct Observation of Dopants Distribution and Diffusion in GaAs Planar Nanowires with Atom Probe Tomography. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 26244-26250.	4.0	11
13	Insights into the Silver Reflection Layer of a Vertical LED for Light Emission Optimization. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 24259-24272.	4.0	11
14	Intergranular precipitation and chemical fluctuations in an additively manufactured 2205 duplex stainless steel. <i>Scripta Materialia</i> , 2022, 219, 114894.	2.6	10
15	Quantifying the nucleation effect of correlated matrix grains in sintered Nd-Fe-B permanent magnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 498, 166099.	1.0	6
16	Solution Epitaxy of Halide Perovskite Thin Single Crystals for Stable Transistors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 37840-37848.	4.0	6
17	Enhancement of Anomalous Hall Effect via Interfacial Scattering in Metal-Organic Semiconductor Fe _x (C ₆₀) _{1-x} Granular Films Near the Metal-Insulator Transition. <i>Advanced Functional Materials</i> , 2019, 29, 1808747.	7.8	5
18	Non-destructive analysis on nano-textured surface of the vertical LED for light enhancement. <i>Ultramicroscopy</i> , 2019, 196, 1-9.	0.8	4

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19	Coercivity degradation caused by inhomogeneous grain boundaries in sintered Nd-Fe-B permanent magnets. <i>Physical Review Materials</i> , 2018, 2, .	0.9	3
20	Intragranular glass/crystal conjugated particles in strip cast Nd-Fe-B flakes. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 495, 165863.	1.0	2
21	Quantitative Determination of How Growth Conditions Affect the 3D Composition of InGaAs Nanowires. <i>Microscopy and Microanalysis</i> , 2019, 25, 524-531.	0.2	1
22	Graded Microstructure of Additive Manufactured Ti-6Al-4V via Electron Beam Melting. <i>Microscopy and Microanalysis</i> , 2019, 25, 498-499.	0.2	0