

Frank Stein

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,136
citations

759233

12
h-index

552781

26
g-index

33
all docs

33
docs citations

33
times ranked

1155
citing authors

#	ARTICLE	IF	CITATIONS
1	Laves phases: a review of their functional and structural applications and an improved fundamental understanding of stability and properties. <i>Journal of Materials Science</i> , 2021, 56, 5321-5427.	3.7	186
2	Development of new Fe-Al-Nb alloys for structural applications at high temperatures. <i>MRS Advances</i> , 2021, 6, 176-182.	0.9	7
3	Iron-Based Intermetallics. , 2021, , 423-458.		1
4	Solid-Solid Phase Transformations and Their Kinetics in Ti-Al-Nb Alloys. <i>Metals</i> , 2021, 11, 1991.	2.3	7
5	Composition dependence of hardness and elastic modulus of the cubic and hexagonal NbCo ₂ Laves phase polytypes studied by nanoindentation. <i>Journal of Materials Research</i> , 2020, 35, 185-195.	2.6	15
6	The Co-Ti system revisited: About the cubic-to-hexagonal Laves phase transformation and other controversial features of the phase diagram. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2019, 67, 101681.	1.6	10
7	Iron Aluminides. <i>Annual Review of Materials Research</i> , 2019, 49, 297-326.	9.3	71
8	Nb-Based Nb-Al-Fe Alloys: Solidification Behavior and High-Temperature Phase Equilibria. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 752-762.	2.2	4
9	Elemental partitioning and site-occupancy in β/β' forming Co-Ti-Mo and Co-Ti-Cr alloys. <i>Scripta Materialia</i> , 2018, 154, 159-162.	5.2	44
10	Thermal proteome profiling in bacteria: probing protein state <i>in vivo</i> . <i>Molecular Systems Biology</i> , 2018, 14, e8242.	7.2	130
11	The effect of the ternary elements B, Ti, Cr, Cu, and Mo on fully lamellar FeAl ₃ +FeAl ₂ alloys. <i>Journal of Alloys and Compounds</i> , 2017, 722, 219-228.	5.5	11
12	Thermodynamic Assessment of the Fe-Al-Nb System with Updated Fe-Nb Description. <i>Journal of Phase Equilibria and Diffusion</i> , 2017, 38, 771-787.	1.4	13
13	The Al-Rich Part of the Fe-Al Phase Diagram. <i>Journal of Phase Equilibria and Diffusion</i> , 2016, 37, 162-173.	1.4	194
14	A Scheil-Gulliver model dedicated to the solidification of steel. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2015, 48, 184-188.	1.6	60
15	Thermodynamic description of the systems Co-Nb, Al-Nb and Co-Al-Nb. <i>Journal of Alloys and Compounds</i> , 2015, 637, 361-375.	5.5	55
16	Microstructure and Phase Transformation Temperatures of Two-Phase FeAl (B ₂) + FeAl ₂ Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1760, 55.	0.1	3
17	Constitution of the ternary system Co-Si-Ti. <i>Intermetallics</i> , 2013, 38, 92-101.	3.9	4
18	The Effect of Li on Intermetallic Fe-Al Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1516, 263-268.	0.1	0

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19	Compositional Dependence of the Compressive Yield Strength of Fe-Nb(-Al) and Co-Nb Laves Phases. Materials Research Society Symposia Proceedings, 2011, 1295, 311.	0.1	7
20	Investigation of the μ phase in the Fe-Al system by high-temperature neutron diffraction. Applied Physics A: Materials Science and Processing, 2010, 99, 607-611.	2.3	25
21	The Ternary System Nickel/Silicon/Titanium Revisited. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2010, 636, 982-990.	1.2	12
22	Thermodynamic assessment of the Cr-Al-Nb system. International Journal of Materials Research, 2010, 101, 1369-1375.	0.3	10
23	Thermodynamic Re-Assessment of the Co-Nb System. Materials Research Society Symposia Proceedings, 2008, 1128, 53001.	0.1	3
24	On the reaction scheme and liquidus surface in the ternary system Fe-Si-Ti. Intermetallics, 2008, 16, 273-282.	3.9	57
25	Phase Equilibria in the Ternary Nb-Cr-Al System and Site Occupation in the Hexagonal C14 Laves Phase Nb(Al _x Cr _{1-x}) ₂ . Materials Research Society Symposia Proceedings, 2008, 1128, 81101.	0.1	1
26	Structure and Disorder of the Laves Phases in the Co-Nb System. Materials Research Society Symposia Proceedings, 2008, 1128, 80801.	0.1	2
27	An In-situ Electron Microscopy Study of Microstructural Evolution in a Co-NbCo ₂ Binary Alloy. Materials Research Society Symposia Proceedings, 2008, 1128, 80901.	0.1	1
28	Re-determination of transition temperatures in the Fe-Al system by differential thermal analysis. International Journal of Materials Research, 2007, 98, 580-588.	0.3	136
29	Preparation, phase stability and structure of the C36 Laves phase Nb _{1-x} Co _{2+x} . Zeitschrift Fur Kristallographie - Crystalline Materials, 2006, 221, .	0.8	23
30	Microstructures of Ternary Eutectic Refractory Me-Si-B (Me = Mo, V) Alloy Systems. Materials Science Forum, 0, 941, 827-832.	0.3	12