

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	The Al-Rich Part of the Fe-Al Phase Diagram. Journal of Phase Equilibria and Diffusion, 2016, 37, 162-173.	1.4	194
2	Laves phases: a review of their functional and structural applications and an improved fundamental understanding of stability and properties. Journal of Materials Science, 2021, 56, 5321-5427.	3.7	186
3	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
4	Thermal proteome profiling in bacteria: probing protein state <i>in vivo</i> . Molecular Systems Biology, 2018, 14, e8242.	7.2	130
5	Iron Aluminides. Annual Review of Materials Research, 2019, 49, 297-326.	9.3	71
6	A Scheil-Gulliver model dedicated to the solidification of steel. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2015, 48, 184-188.	1.6	60
7	On the reaction scheme and liquidus surface in the ternary system Fe-Si-Ti. Intermetallics, 2008, 16, 273-282.	3.9	57
8	Thermodynamic description of the systems Co-Nb, Al-Nb and Co-Al-Nb. Journal of Alloys and Compounds, 2015, 637, 361-375.	5.5	55
9	Elemental partitioning and site-occupancy in β forming Co-Ti-Mo and Co-Ti-Cr alloys. Scripta Materialia, 2018, 154, 159-162.	5.2	44
10	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
11	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
12	Composition dependence of hardness and elastic modulus of the cubic and hexagonal $NbCo_2$ Laves phase polytypes studied by nanoindentation. Journal of Materials Research, 2020, 35, 185-195.	2.6	15
13	Thermodynamic Assessment of the Fe-Al-Nb System with Updated Fe-Nb Description. Journal of Phase Equilibria and Diffusion, 2017, 38, 771-787.	1.4	13
14	The Ternary System Nickel/Silicon/Titanium Revisited. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2010, 636, 982-990.	1.2	12
15	Microstructures of Ternary Eutectic Refractory Me-Si-B (Me = Mo, V) Alloy Systems. Materials Science Forum, 0, 941, 827-832.	0.3	12
16	The effect of the ternary elements B, Ti, Cr, Cu, and Mo on fully lamellar FeAl ₃ +FeAl ₂ alloys. Journal of Alloys and Compounds, 2017, 722, 219-228.	5.5	11
17	Thermodynamic assessment of the Cr-Al-Nb system. International Journal of Materials Research, 2010, 101, 1369-1375.	0.3	10
18	The Co-Ti system revisited: About the cubic-to-hexagonal Laves phase transformation and other controversial features of the phase diagram. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2019, 67, 101681.	1.6	10

#	ARTICLE	IF	CITATIONS
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	Development of new Fe-Al-Nb(B) alloys for structural applications at high temperatures. MRS Advances, 2021, 6, 176-182.	0.9	7
21	Solid-Solid Phase Transformations and Their Kinetics in Ti-Al-Nb Alloys. Metals, 2021, 11, 1991.	2.3	7
22	Constitution of the ternary system Co-Si-Ti. Intermetallics, 2013, 38, 92-101.	3.9	4
23	Nb-Based Nb-Al-Fe Alloys: Solidification Behavior and High-Temperature Phase Equilibria. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 752-762.	2.2	4
24	Thermodynamic Re-Assessment of the Co-Nb System. Materials Research Society Symposia Proceedings, 2008, 1128, 53001.	0.1	3
25	Microstructure and Phase Transformation Temperatures of Two-Phase FeAl (B2) + FeAl ₂ Alloys. Materials Research Society Symposia Proceedings, 2014, 1760, 55.	0.1	3
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	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
28	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
29	Iron-Based Intermetallics. , 2021, , 423-458.		1
30	The Effect of Li on Intermetallic Fe-Al Alloys. Materials Research Society Symposia Proceedings, 2012, 1516, 263-268.	0.1	0