

Frank Stein

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

3,029
citations

201674

27
h-index

197818

49
g-index

68
all docs

68
docs citations

68
times ranked

3736
citing authors

#	ARTICLE	IF	CITATIONS
1	High-throughput functional characterization of protein phosphorylation sites in yeast. <i>Nature Biotechnology</i> , 2022, 40, 382-390.	17.5	24
2	Dendritic autophagy degrades postsynaptic proteins and is required for long-term synaptic depression in mice. <i>Nature Communications</i> , 2022, 13, 680.	12.8	41
3	Microstructure Evolution of a New Precipitation-Strengthened Fe-Al-Ni-Ti Alloy down to Atomic Scale. <i>Metals</i> , 2022, 12, 906.	2.3	1
4	Bacterial retrons encode phage-defending tripartite toxin-antitoxin systems. <i>Nature</i> , 2022, 609, 144-150.	27.8	52
5	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
6	SARS-CoV-2 infection remodels the host protein thermal stability landscape. <i>Molecular Systems Biology</i> , 2021, 17, e10188.	7.2	17
7	Development of new Fe-Al-Nb(B) alloys for structural applications at high temperatures. <i>MRS Advances</i> , 2021, 6, 176-182.	0.9	7
8	Identification of dynamic RNA-binding proteins uncovers a Cpeb4-controlled regulatory cascade during pathological cell growth of cardiomyocytes. <i>Cell Reports</i> , 2021, 35, 109100.	6.4	19
9	Increased levels of mitochondrial import factor Mia40 prevent the aggregation of polyQ proteins in the cytosol. <i>EMBO Journal</i> , 2021, 40, e107913.	7.8	18
10	Global mapping of <i>Salmonella enterica</i> -host protein-protein interactions during infection. <i>Cell Host and Microbe</i> , 2021, 29, 1316-1332.e12.	11.0	39
11	An integrated multiomic and quantitative label-free microscopy-based approach to study pro-fibrotic signalling in <i>ex vivo</i> human precision-cut lung slices. <i>European Respiratory Journal</i> , 2021, 58, 2000221.	6.7	21
12	CaMKK2 facilitates Golgi-associated vesicle trafficking to sustain cancer cell proliferation. <i>Cell Death and Disease</i> , 2021, 12, 1040.	6.3	9
13	Solid-Solid Phase Transformations and Their Kinetics in Ti-Al-Nb Alloys. <i>Metals</i> , 2021, 11, 1991.	2.3	7
14	The functional landscape of the human phosphoproteome. <i>Nature Biotechnology</i> , 2020, 38, 365-373.	17.5	273
15	Effect of Oxygen on High-temperature Phase Equilibria in Ternary Ti-Al-Nb Alloys. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2020, 646, 1151-1156.	1.2	26
16	The functional proteome landscape of <i>Escherichia coli</i> . <i>Nature</i> , 2020, 588, 473-478.	27.8	58
17	ACLY is the novel signaling target of PIP2/PIP3 and Lyn in acute myeloid leukemia. <i>Heliyon</i> , 2020, 6, e03910.	3.2	15
18	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

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19	Thermal proteome profiling for interrogating protein interactions. <i>Molecular Systems Biology</i> , 2020, 16, e9232.	7.2	150
20	Plasticity of nuclear and cytoplasmic stress responses of RNA-binding proteins. <i>Nucleic Acids Research</i> , 2020, 48, 4725-4740.	14.5	40
21	Outer membrane lipoprotein NlpI scaffolds peptidoglycan hydrolases within multi-enzyme complexes in <i>Escherichia coli</i> . <i>EMBO Journal</i> , 2020, 39, e102246.	7.8	69
22	Aggregation and disaggregation features of the human proteome. <i>Molecular Systems Biology</i> , 2020, 16, e9500.	7.2	25
23	The Hsp90 isoforms from <i>S. cerevisiae</i> differ in structure, function and client range. <i>Nature Communications</i> , 2019, 10, 3626.	12.8	36
24	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
25	Effect of Sec61 interaction with Mpd1 on endoplasmic reticulum-associated degradation. <i>PLoS ONE</i> , 2019, 14, e0211180.	2.5	10
26	Iron Aluminides. <i>Annual Review of Materials Research</i> , 2019, 49, 297-326.	9.3	71
27	Mitochondrial protein-induced stress triggers a global adaptive transcriptional programme. <i>Nature Cell Biology</i> , 2019, 21, 442-451.	10.3	146
28	TRRAP is essential for regulating the accumulation of mutant and wild-type p53 in lymphoma. <i>Blood</i> , 2018, 131, 2789-2802.	1.4	25
29	Pervasive Protein Thermal Stability Variation during the Cell Cycle. <i>Cell</i> , 2018, 173, 1495-1507.e18.	28.9	183
30	Structural analysis of human ARS2 as a platform for co-transcriptional RNA sorting. <i>Nature Communications</i> , 2018, 9, 1701.	12.8	53
31	Laboratory evolution reveals regulatory and metabolic trade-offs of glycerol utilization in <i>Saccharomyces cerevisiae</i> . <i>Metabolic Engineering</i> , 2018, 47, 73-82.	7.0	47
32	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
33	Discovery of RNA-binding proteins and characterization of their dynamic responses by enhanced RNA interactome capture. <i>Nature Communications</i> , 2018, 9, 4408.	12.8	138
34	Elemental partitioning and site-occupancy in β forming Co-Ti-Mo and Co-Ti-Cr alloys. <i>Scripta Materialia</i> , 2018, 154, 159-162.	5.2	44
35	A Bifunctional Noncanonical Amino Acid: Synthesis, Expression, and Residue-Specific Proteome-wide Incorporation. <i>Biochemistry</i> , 2018, 57, 4747-4752.	2.5	16
36	Thermal proteome profiling in bacteria: probing protein state in vivo. <i>Molecular Systems Biology</i> , 2018, 14, e8242.	7.2	130

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37	Trifunctional lipid probes for comprehensive studies of single lipid species in living cells. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1566-1571.	7.1	100
38	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
39	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
40	Computationally-driven engineering of sublattice ordering in a hexagonal AlHfScTiZr high entropy alloy. Scientific Reports, 2017, 7, 2209.	3.3	71
41	The Al-Rich Part of the Fe-Al Phase Diagram. Journal of Phase Equilibria and Diffusion, 2016, 37, 162-173.	1.4	194
42	Bifunctional Sphingosine for Cell-Based Analysis of Protein-Sphingolipid Interactions. ACS Chemical Biology, 2016, 11, 222-230.	3.4	99
43	Exclusive photorelease of signalling lipids at the plasma membrane. Nature Communications, 2015, 6, 10056.	12.8	67
44	A single-cell model of PIP3 dynamics using chemical dimerization. Bioorganic and Medicinal Chemistry, 2015, 23, 2868-2876.	3.0	4
45	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
46	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
47	Constitution of the ternary system Co-Si-Ti. Intermetallics, 2013, 38, 92-101.	3.9	4
48	Target-Activated Prodrugs (TAPs) for the Autoregulated Inhibition of MMP12. ACS Medicinal Chemistry Letters, 2012, 3, 653-657.	2.8	4
49	The Effect of Li on Intermetallic Fe-Al Alloys. Materials Research Society Symposia Proceedings, 2012, 1516, 263-268.	0.1	0
50	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
51	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
52	The Ternary System Nickel/Silicon/Titanium Revisited. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2010, 636, 982-990.	1.2	12
53	Creep strength of a binary Al ₆₂ Ti ₃₈ alloy. International Journal of Materials Research, 2010, 101, 676-679.	0.3	3
54	Thermodynamic assessment of the Cr-Al-Nb system. International Journal of Materials Research, 2010, 101, 1369-1375.	0.3	10

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55	On the reaction scheme and liquidus surface in the ternary system Fe-Si-Ti. Intermetallics, 2008, 16, 273-282.	3.9	57
56	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
57	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
58	Microstructures of Ternary Eutectic Refractory Me-Si-B (Me = Mo, V) Alloy Systems. Materials Science Forum, 0, 941, 827-832.	0.3	12