

# 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	The functional landscape of the human phosphoproteome. <i>Nature Biotechnology</i> , 2020, 38, 365-373.	17.5	273
2	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
3	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
4	Pervasive Protein Thermal Stability Variation during the Cell Cycle. <i>Cell</i> , 2018, 173, 1495-1507.e18.	28.9	183
5	Thermal proteome profiling for interrogating protein interactions. <i>Molecular Systems Biology</i> , 2020, 16, e9232.	7.2	150
6	Mitochondrial protein-induced stress triggers a global adaptive transcriptional programme. <i>Nature Cell Biology</i> , 2019, 21, 442-451.	10.3	146
7	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
8	Re-determination of transition temperatures in the Fe-Al system by differential thermal analysis. <i>International Journal of Materials Research</i> , 2007, 98, 580-588.	0.3	136
9	Thermal proteome profiling in bacteria: probing protein state <i>in vivo</i> . <i>Molecular Systems Biology</i> , 2018, 14, e8242.	7.2	130
10	Trifunctional lipid probes for comprehensive studies of single lipid species in living cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1566-1571.	7.1	100
11	Bifunctional Sphingosine for Cell-Based Analysis of Protein-Sphingolipid Interactions. <i>ACS Chemical Biology</i> , 2016, 11, 222-230.	3.4	99
12	Computationally-driven engineering of sublattice ordering in a hexagonal AlHfScTiZr high entropy alloy. <i>Scientific Reports</i> , 2017, 7, 2209.	3.3	71
13	Iron Aluminides. <i>Annual Review of Materials Research</i> , 2019, 49, 297-326.	9.3	71
14	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
15	Exclusive photorelease of signalling lipids at the plasma membrane. <i>Nature Communications</i> , 2015, 6, 10056.	12.8	67
16	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
17	The functional proteome landscape of <i>Escherichia coli</i> . <i>Nature</i> , 2020, 588, 473-478.	27.8	58
18	On the reaction scheme and liquidus surface in the ternary system Fe-Si-Ti. <i>Intermetallics</i> , 2008, 16, 273-282.	3.9	57

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19	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
20	Structural analysis of human ARS2 as a platform for co-transcriptional RNA sorting. <i>Nature Communications</i> , 2018, 9, 1701.	12.8	53
21	Bacterial retrons encode phage-defending tripartite toxin-antitoxin systems. <i>Nature</i> , 2022, 609, 144-150.	27.8	52
22	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
23	Elemental partitioning and site-occupancy in $\beta$ forming Co-Ti-Mo and Co-Ti-Cr alloys. <i>Scripta Materialia</i> , 2018, 154, 159-162.	5.2	44
24	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
25	Plasticity of nuclear and cytoplasmic stress responses of RNA-binding proteins. <i>Nucleic Acids Research</i> , 2020, 48, 4725-4740.	14.5	40
26	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
27	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
28	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
29	Investigation of the $\mu$ phase in the Fe-Al system by high-temperature neutron diffraction. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 99, 607-611.	2.3	25
30	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
31	Aggregation and disaggregation features of the human proteome. <i>Molecular Systems Biology</i> , 2020, 16, e9500.	7.2	25
32	High-throughput functional characterization of protein phosphorylation sites in yeast. <i>Nature Biotechnology</i> , 2022, 40, 382-390.	17.5	24
33	Preparation, phase stability and structure of the C36 Laves phase Nb <sub>1-x</sub> Co <sub>2+x</sub> . <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2006, 221, .	0.8	23
34	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
35	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
36	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

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37	SARS-CoV-2 infection remodels the host protein thermal stability landscape. <i>Molecular Systems Biology</i> , 2021, 17, e10188.	7.2	17
38	A Bifunctional Noncanonical Amino Acid: Synthesis, Expression, and Residue-Specific Proteome-wide Incorporation. <i>Biochemistry</i> , 2018, 57, 4747-4752.	2.5	16
39	ACLY is the novel signaling target of PIP2/PIP3 and Lyn in acute myeloid leukemia. <i>Heliyon</i> , 2020, 6, e03910.	3.2	15
40	Composition dependence of hardness and elastic modulus of the cubic and hexagonal NbCo <sub>2</sub> Laves phase polytypes studied by nanoindentation. <i>Journal of Materials Research</i> , 2020, 35, 185-195.	2.6	15
41	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
42	The Ternary System Nickel/Silicon/Titanium Revisited. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2010, 636, 982-990.	1.2	12
43	Microstructures of Ternary Eutectic Refractory Me-Si-B (Me = Mo, V) Alloy Systems. <i>Materials Science Forum</i> , 0, 941, 827-832.	0.3	12
44	The effect of the ternary elements B, Ti, Cr, Cu, and Mo on fully lamellar FeAl <sub>3</sub> +FeAl <sub>2</sub> alloys. <i>Journal of Alloys and Compounds</i> , 2017, 722, 219-228.	5.5	11
45	Thermodynamic assessment of the Cr-Al-Nb system. <i>International Journal of Materials Research</i> , 2010, 101, 1369-1375.	0.3	10
46	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
47	Effect of Sec61 interaction with Mpd1 on endoplasmic reticulum-associated degradation. <i>PLoS ONE</i> , 2019, 14, e0211180.	2.5	10
48	CaMKK2 facilitates Golgi-associated vesicle trafficking to sustain cancer cell proliferation. <i>Cell Death and Disease</i> , 2021, 12, 1040.	6.3	9
49	Compositional Dependence of the Compressive Yield Strength of Fe-Nb(-Al) and Co-Nb Laves Phases. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1295, 311.	0.1	7
50	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
51	Solid-Solid Phase Transformations and Their Kinetics in Ti-Al-Nb Alloys. <i>Metals</i> , 2021, 11, 1991.	2.3	7
52	Target-Activated Prodrugs (TAPs) for the Autoregulated Inhibition of MMP12. <i>ACS Medicinal Chemistry Letters</i> , 2012, 3, 653-657.	2.8	4
53	Constitution of the ternary system Co-Si-Ti. <i>Intermetallics</i> , 2013, 38, 92-101.	3.9	4
54	A single-cell model of PIP3 dynamics using chemical dimerization. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 2868-2876.	3.0	4

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55	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
56	Creep strength of a binary Al <sub>62</sub> Ti <sub>38</sub> alloy. International Journal of Materials Research, 2010, 101, 676-679.	0.3	3
57	Microstructure Evolution of a New Precipitation-Strengthened Fe-Al-Ni-Ti Alloy down to Atomic Scale. Metals, 2022, 12, 906.	2.3	1
58	The Effect of Li on Intermetallic Fe-Al Alloys. Materials Research Society Symposia Proceedings, 2012, 1516, 263-268.	0.1	0