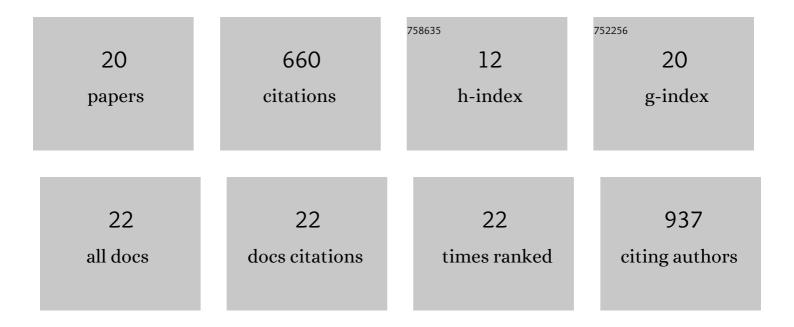
## Brandon J Bocklund

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Thermodynamic properties of the Nd-Bi system via emf measurements, DFT calculations, machine learning, and CALPHAD modeling. Acta Materialia, 2022, 223, 117448.	3.8	10
2	Thermodynamic modeling of the Al-Co-Cr-Fe-Ni high entropy alloys supported by key experiments. Journal of Alloys and Compounds, 2022, 897, 162722.	2.8	10
3	Design of an additively manufactured functionally graded material of 316 stainless steel and Ti-6Al-4V with Ni-20Cr, Cr, and V intermediate compositions. Additive Manufacturing, 2022, 51, 102649.	1.7	7
4	Adsorption-controlled growth of Ga2O3 by suboxide molecular-beam epitaxy. APL Materials, 2021, 9, .	2.2	38
5	Understanding the Effect of Oxygen on the Glass-Forming Ability of Zr55Cu55Al9Be9 Bulk Metallic Glass by ab initio Molecular Dynamics Simulations. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 2501-2511.	1.1	6
6	Tensile behavior of stainless steel 304L to Ni-20Cr functionally graded material: Experimental characterization and computational simulations. Materialia, 2021, 18, 101151.	1.3	14
7	Sensitivity estimation for calculated phase equilibria. Journal of Materials Research, 2021, 36, 140-150.	1.2	11
8	Sensitivity estimation for calculated phase equilibria. Journal of Materials Research, 2021, 36, 1-11.	1.2	1
9	DFTTK: Density Functional Theory ToolKit for high-throughput lattice dynamics calculations. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2021, 75, 102355.	0.7	17
10	Analysis of formation and growth of the ${}^{ }f$ phase in additively manufactured functionally graded materials. Journal of Alloys and Compounds, 2020, 814, 151729.	2.8	28
11	Statistical approach for automated weighting of datasets: Application to heat capacity data. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2020, 71, 101994.	0.7	7
12	Suitability of binary oxides for molecular-beam epitaxy source materials: A comprehensive thermodynamic analysis. APL Materials, 2020, 8, .	2.2	28
13	Experimental validation of Scheil–Gulliver simulations for gradient path planning in additively manufactured functionally graded materials. Materialia, 2020, 11, 100689.	1.3	36
14	ESPEI for efficient thermodynamic database development, modification, and uncertainty quantification: application to Cu–Mg. MRS Communications, 2019, 9, 618-627.	0.8	49
15	Quantified uncertainty in thermodynamic modeling for materials design. Acta Materialia, 2019, 174, 9-15.	3.8	40
16	Characterization of a functionally graded material of Ti-6Al-4V to 304L stainless steel with an intermediate V section. Journal of Alloys and Compounds, 2018, 742, 1031-1036.	2.8	89
17	First-principles thermodynamic theory of Seebeck coefficients. Physical Review B, 2018, 98, .	1.1	25
18	Experimental analysis and thermodynamic calculations of an additively manufactured functionally graded material of V to Invar 36. Journal of Materials Research, 2018, 33, 1642-1649.	1.2	20

#	Article	IF	CITATIONS
19	Atomate: A high-level interface to generate, execute, and analyze computational materials science workflows. Computational Materials Science, 2017, 139, 140-152.	1.4	223
20	Analysis of Formation and Growth of the δ Phase in Additively Manufactured Functionally Graded Materials. SSRN Electronic Journal, 0, , .	0.4	0