

Brandon J Bocklund

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

660
citations

758635

12
h-index

752256

20
g-index

22
all docs

22
docs citations

22
times ranked

937
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomate: A high-level interface to generate, execute, and analyze computational materials science workflows. <i>Computational Materials Science</i> , 2017, 139, 140-152.	1.4	223
2	Characterization of a functionally graded material of Ti-6Al-4V to 304L stainless steel with an intermediate V section. <i>Journal of Alloys and Compounds</i> , 2018, 742, 1031-1036.	2.8	89
3	ESPEI for efficient thermodynamic database development, modification, and uncertainty quantification: application to Cu-Mg. <i>MRS Communications</i> , 2019, 9, 618-627.	0.8	49
4	Quantified uncertainty in thermodynamic modeling for materials design. <i>Acta Materialia</i> , 2019, 174, 9-15.	3.8	40
5	Adsorption-controlled growth of Ga ₂ O ₃ by suboxide molecular-beam epitaxy. <i>APL Materials</i> , 2021, 9, .	2.2	38
6	Experimental validation of Scheil-Gulliver simulations for gradient path planning in additively manufactured functionally graded materials. <i>Materialia</i> , 2020, 11, 100689.	1.3	36
7	Analysis of formation and growth of the β phase in additively manufactured functionally graded materials. <i>Journal of Alloys and Compounds</i> , 2020, 814, 151729.	2.8	28
8	Suitability of binary oxides for molecular-beam epitaxy source materials: A comprehensive thermodynamic analysis. <i>APL Materials</i> , 2020, 8, .	2.2	28
9	First-principles thermodynamic theory of Seebeck coefficients. <i>Physical Review B</i> , 2018, 98, .	1.1	25
10	Experimental analysis and thermodynamic calculations of an additively manufactured functionally graded material of V to Invar 36. <i>Journal of Materials Research</i> , 2018, 33, 1642-1649.	1.2	20
11	DFTTK: Density Functional Theory ToolKit for high-throughput lattice dynamics calculations. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2021, 75, 102355.	0.7	17
12	Tensile behavior of stainless steel 304L to Ni-20Cr functionally graded material: Experimental characterization and computational simulations. <i>Materialia</i> , 2021, 18, 101151.	1.3	14
13	Sensitivity estimation for calculated phase equilibria. <i>Journal of Materials Research</i> , 2021, 36, 140-150.	1.2	11
14	Thermodynamic properties of the Nd-Bi system via emf measurements, DFT calculations, machine learning, and CALPHAD modeling. <i>Acta Materialia</i> , 2022, 223, 117448.	3.8	10
15	Thermodynamic modeling of the Al-Co-Cr-Fe-Ni high entropy alloys supported by key experiments. <i>Journal of Alloys and Compounds</i> , 2022, 897, 162722.	2.8	10
16	Statistical approach for automated weighting of datasets: Application to heat capacity data. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2020, 71, 101994.	0.7	7
17	Design of an additively manufactured functionally graded material of 316 stainless steel and Ti-6Al-4V with Ni-20Cr, Cr, and V intermediate compositions. <i>Additive Manufacturing</i> , 2022, 51, 102649.	1.7	7
18	Understanding the Effect of Oxygen on the Glass-Forming Ability of Zr ₅₅ Cu ₅₅ Al ₉ Be ₉ Bulk Metallic Glass by ab initio Molecular Dynamics Simulations. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021, 52, 2501-2511.	1.1	6

#	ARTICLE	IF	CITATIONS
19	Sensitivity estimation for calculated phase equilibria. Journal of Materials Research, 2021, 36, 1-11.	1.2	1
20	Analysis of Formation and Growth of the $\hat{\Gamma}$ Phase in Additively Manufactured Functionally Graded Materials. SSRN Electronic Journal, 0, , .	0.4	0