# Brandon J Bocklund

List of Publications by Year
in descending order

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|---|---|---|---|
| 20 papers | 660 citations | 758635<br>12 h-index | 752256<br>20 g-index |
| 22 all docs | 22 docs citations | 22 times ranked | 937 citing authors |

| # | 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 $\ddot{I}f$ 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 Scheilâ€"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 Cuâ€"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 Î´ Phase in Additively Manufactured Functionally Graded Materials. SSRN Electronic Journal, 0, , . | 0.4 | 0 |