# Noah H Paulson

List of Publications by Year
in descending order



| 16 | 434 | 933447 10 | 940533 16 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 16 | 16 | 16 | 312 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Reduced-order structure-property linkages for polycrystalline microstructures based on 2-point statistics. Acta Materialia, 2017, 129, 428-438. | 7.9 | 123 |
| 2 | Data-driven reduced-order models for rank-ordering the high cycle fatigue performance of polycrystalline microstructures. Materials and Design, 2018, 154, 170-183. | 7.0 | 49 |
| 3 | Feature engineering for machine learning enabled early prediction of battery lifetime. Journal of Power Sources, 2022, 527, 231127. | 7.8 | 43 |
| 4 | Quantified uncertainty in thermodynamic modeling for materials design. Acta Materialia, 2019, 174, 9-15. | 7.9 | 40 |
| 5 | Strategies for rapid parametric assessment of microstructure-sensitive fatigue for HCP polycrystals. International Journal of Fatigue, 2017, 104, 231-242. | 5.7 | 37 |
| 6 | Reduced-order microstructure-sensitive protocols to rank-order the transition fatigue resistance of polycrystalline microstructures. International Journal of Fatigue, 2019, 119, 1-10. | 5.7 | 33 |
| 7 | Bayesian strategies for uncertainty quantification of the thermodynamic properties of materials. International Journal of Engineering Science, 2019, 142, 74-93. | 5.0 | 31 |
| 8 | Flame spray pyrolysis optimization via statistics and machine learning. Materials and Design, 2020, 196, 108972. | 7.0 | 19 |
| 9 | Comparison of statistically-based methods for automated weighting of experimental data in CALPHAD-type assessment. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2020, 68, 101728. | 1.6 | 14 |
| 10 | Thermodynamics of monoclinic and tetragonal hafnium dioxide (HfO2) at ambient pressure. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2021, 72, 102210. | 1.6 | 14 |
| 11 | Flame stability analysis of flame spray pyrolysis by artificial intelligence. International Journal of Advanced Manufacturing Technology, 2021, 114, 2215-2228. | 3.0 | 10 |
| 12 | Uncertainty Quantification in Atomistic Modeling of Metals and Its Effect on Mesoscale and Continuum Modeling: A Review. Jom, 2021, 73, 149-163. | 1.9 | 7 |
| 13 | Intelligent Agents for the Optimization of Atomic Layer Deposition. ACS Applied Materials & Interfaces, 2021, 13, 17022-17033. | 8.0 | 6 |
| 14 | Bayesian automated weighting of aggregated DFT, MD, and experimental data for candidate thermodynamic models of aluminum with uncertainty quantification. Materialia, 2021, 20, 101216. | 2.7 | 4 |
| 15 | Insights from Computational Studies on the Anisotropic Volume Change of Li<sub>x</sub>NiO<sub>2</sub> at High States of Charge (x < 0.25). Journal of Physical Chemistry C, 2021, 125, 27130-27139. | 3.1 | 3 |
| 16 | An efficient approximation of the supercell approach to the calculation of the full phonon spectrum. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2021, 72, 102215. | 1.6 | 1 |