

Aaron E Tallman

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Gaussian-Process-Driven Adaptive Sampling for Reduced-Order Modeling of Texture Effects in Polycrystalline Alpha-Ti. <i>Jom</i> , 2019, 71, 2646-2656.	1.9	15
2	Uncertainty propagation in reduced order models based on crystal plasticity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 365, 113009.	6.6	13
3	RECONCILED TOP-DOWN AND BOTTOM-UP HIERARCHICAL MULTISCALE CALIBRATION OF BCC FE CRYSTAL PLASTICITY. <i>International Journal for Multiscale Computational Engineering</i> , 2017, 15, 505-523.	1.2	12
4	A mechanistic model for creep lifetime of ferritic steels: Application to Grade 91. <i>International Journal of Plasticity</i> , 2021, 147, 103086.	8.8	11
5	Virtual diffraction analysis of dislocations and dislocation networks in discrete dislocation dynamics simulations. <i>Computational Materials Science</i> , 2020, 174, 109473.	3.0	7
6	Surrogate Modeling of Viscoplasticity in Steels: Application to Thermal, Irradiation Creep and Transient Loading in HT-9 Cladding. <i>Jom</i> , 2021, 73, 126-137.	1.9	6
7	Data-Driven Constitutive Model for the Inelastic Response of Metals: Application to 316H Steel. <i>Integrating Materials and Manufacturing Innovation</i> , 2020, 9, 339-357.	2.6	5
8	Hierarchical top-down bottom-up calibration with consideration for uncertainty and inter-scale discrepancy of Peierls stress of bcc Fe. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019, 27, 064004.	2.0	4
9	Hierarchical multiscale model calibration and validation for materials applications. , 2020, , 449-471.		4
10	Uncertainty Quantification of a High-Throughput Profilometry-Based Indentation Plasticity Test of Al 7075 T6 Alloy. <i>Frontiers in Materials</i> , 0, 9, .	2.4	1
11	Data-driven analysis of neutron diffraction line profiles: application to plastically deformed Ta. <i>Scientific Reports</i> , 2022, 12, 5628.	3.3	0