

Daniel J Savage

List of Publications by Year in descending order

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18
papers

565
citations

687363

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940533

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19
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19
times ranked

331
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical response, twinning, and texture evolution of WE43 magnesium-rare earth alloy as a function of strain rate: Experiments and multi-level crystal plasticity modeling. <i>International Journal of Plasticity</i> , 2019, 120, 180-204.	8.8	88
2	A high-performance computational framework for fast crystal plasticity simulations. <i>Computational Materials Science</i> , 2014, 83, 101-106.	3.0	81
3	The plasticity of highly oriented nano-layered Zr/Nb composites. <i>Acta Materialia</i> , 2016, 115, 189-203.	7.9	60
4	Microstructure and texture evolution in Mg/Nb layered materials made by accumulative roll bonding. <i>International Journal of Plasticity</i> , 2020, 125, 1-26.	8.8	50
5	Computer implementations of iterative and non-iterative crystal plasticity solvers on high performance graphics hardware. <i>Computational Mechanics</i> , 2015, 56, 677-690.	4.0	41
6	Coupled texture and non-Schmid effects on yield surfaces of body-centered cubic polycrystals predicted by a crystal plasticity finite element approach. <i>International Journal of Solids and Structures</i> , 2017, 109, 22-32.	2.7	39
7	A crystal plasticity finite element model embedding strain-rate sensitivities inherent to deformation mechanisms: Application to alloy AZ31. <i>International Journal of Plasticity</i> , 2021, 143, 103031.	8.8	35
8	An automated procedure for geometry creation and finite element mesh generation: Application to explicit grain structure models and machining distortion. <i>Computational Materials Science</i> , 2018, 141, 269-281.	3.0	34
9	Identification of crystal plasticity model parameters by multi-objective optimization integrating microstructural evolution and mechanical data. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 379, 113747.	6.6	31
10	Non-acid, alcohol-based electropolishing enables high-quality electron backscatter diffraction characterization of titanium and its alloys: Application to pure Ti and Ti-6Al-4V. <i>Materials Characterization</i> , 2020, 166, 110406.	4.4	28
11	Mechanical behavior and texture evolution of WE43 magnesium-rare earth alloy in Split-Hopkinson Pressure Bar and Taylor Impact Cylinder Testing. <i>International Journal of Impact Engineering</i> , 2020, 143, 103589.	5.0	19
12	In-situ high-energy X-ray diffraction and crystal plasticity modeling to predict the evolution of texture, twinning, lattice strains and strength during loading and reloading of beryllium. <i>International Journal of Plasticity</i> , 2022, 150, 103217.	8.8	19
13	Validation of recent analytical dilatational models for porous polycrystals using crystal plasticity finite element models with Schmid and non-Schmid activation laws. <i>Mechanics of Materials</i> , 2018, 126, 148-162.	3.2	16
14	Processing of Dilute Mg-Zn-Mn-Ca Alloy/Nb Multilayers by Accumulative Roll Bonding. <i>Advanced Engineering Materials</i> , 2020, 22, 1900673.	3.5	11
15	Dilatational Response of Voided Polycrystals. <i>Jom</i> , 2017, 69, 942-947.	1.9	6
16	An automated procedure built on MTEX for reconstructing deformation twin hierarchies from electron backscattered diffraction datasets of heavily twinned microstructures. <i>Materials Characterization</i> , 2021, 171, 110808.	4.4	6
17	Towards Computationally Tractable Simulations of Metal Forming Processes With Evolving Microstructures. , 2014, , .		1
18	Through-Thickness Microstructure Characterization in a Centrifugally Cast Austenitic Stainless Steel Nuclear Reactor Primary Loop Pipe Using Time-of-Flight Neutron Diffraction. <i>Quantum Beam Science</i> , 2021, 5, 12.	1.2	0