Oliver K Johnson

List of Publications by Year
in descending order

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26	205	1039880 9	1125617 13
papers	citations	h-index	g-index

26	26	26	220
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Determining Grain Boundary Position and Geometry from EBSD Data: Limits of Accuracy. Microscopy and Microanalysis, 2022, 28, 96-108.	0.2	3
2	Use of simulation and wear prediction to explore design improvements to the cup seal in the India Mark II/III hand pump system. Development Engineering, 2022, 7, 100092.	1.4	1
3	Computationally efficient barycentric interpolation of large grain boundary octonion point sets. MethodsX, 2022, 9, 101731.	0.7	0
4	Nitrile cup seal robustness in the India Mark II/III hand pump system. Development Engineering, 2021, 6, 100060.	1.4	4
5	Grain boundary structure-property model inference using polycrystals: The underdetermined case. Acta Materialia, 2021, 209, 116769.	3.8	4
6	Measuring simulated hydrogen diffusion in symmetric tilt nickel grain boundaries and examining the relevance of the Borisov relationship for individual boundary diffusion. Acta Materialia, 2021, 212, 116882.	3.8	14
7	Inference and uncertainty propagation of GB structure-property models: H diffusivity in [100] tilt GBs in Ni. Acta Materialia, 2021, 215, 116967.	3.8	5
8	Five degree-of-freedom property interpolation of arbitrary grain boundaries via Voronoi fundamental zone framework. Computational Materials Science, 2021, 200, 110756.	1.4	9
9	Grain boundary structureâ€“property model inference using polycrystals: the overdetermined case. Journal of Materials Science, 2020, 55, 1562-1576.	1.7	4
10	Representative and statistical volume elements for grain boundary networks: A stereological approach. Acta Materialia, 2020, 188, 166-180.	3.8	6
11	A Simple Approach to Atomic Structure Characterization for Machine Learning of Grain Boundary Structure-Property Models. Frontiers in Materials, 2019, 6, .	1.2	7
12	Establishing Baseline Performance for Off-the-Shelf Nitrile Seals for the India Mark II Hand Pump System. , 2019, , .		0
13	An efficient algorithm for generating diverse microstructure sets and delineating properties closures. Acta Materialia, 2018, 147, 313-321.	3.8	9
14	Spectral graph theory for characterization and homogenization of grain boundary networks. Acta Materialia, 2018, 146, 42-54.	3.8	13
15	Texture mediated grain boundary network design in three dimensions. Mechanics of Materials, 2018, 118, 94-105.	1.7	8
16	Quantifying and connecting atomic and crystallographic grain boundary structure using local environment representation and dimensionality reduction techniques. Acta Materialia, 2018, 161, 431-443.	3.8	26
17	Texture mediated grain boundary network design in two dimensions. Journal of Materials Research, 2016, 31, 1171-1184.	1.2	5
18	Inferring grain boundary structureâ€“property relations from effective property measurements. Journal of Materials Science, 2015, 50, 6907-6919.	1.7	13

#	Article	IF	Citations
19	The triple junction hull: Tools for grain boundary network design. Journal of the Mechanics and Physics of Solids, 2014, 69, 2-13.	2.3	12
20	Statistics of twin-related domains and the grain boundary network. Acta Materialia, 2013, 61, 6524-6532.	3.8	12
21	The uncorrelated triple junction distribution function: Towards grain boundary network design. Acta Materialia, 2013, 61, 2863-2873.	3.8	20
22	Convergence of the hyperspherical harmonic expansion for crystallographic texture. Journal of Applied Crystallography, 2013, 46, 1722-1728.	1.9	0
23	Multiscale Model for the Extreme Piezoresistivity in Silicone/Nickel Nanostrand Nanocomposites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 3898-3906.	1.1	9
24	Optimization of nickel nanocomposite for large strain sensing applications. Sensors and Actuators A: Physical, 2011, 166, 40-47.	2.0	15
25	Nano-composite Sensors for Wide Range Measurement of Ligament Strain. Conference Proceedings of the Society for Experimental Mechanics, 2011, , 359-364.	0.3	0
26	Ion-Solvent Interaction and Individual Properties of Electrolytes. Transactions of the Electrochemical Society, 1942, 82, 273.	0.0	6