A Gilad Kusne

List of Publications by Year
in descending order

17	1,313	840585 11	940416 16
papers	citations	h-index	g-index

17	17	17	1617
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Application of Bayesian Optimization and Regression Analysis to Ferromagnetic Materials Development. IEEE Transactions on Magnetics, 2022, 58, 1-8.	1.2	4
2	Physics in the Machine: Integrating Physical Knowledge in Autonomous Phase-Mapping. Frontiers in Physics, 2022, 10, .	1.0	6
3	Graph neural network predictions of metal organic framework CO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e488" altimg="si38.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math> adsorption properties. Computational Materials Science, 2022, 210, 111388.	1.4	19
4	On-the-fly autonomous control of neutron diffraction via physics-informed Bayesian active learning. Applied Physics Reviews, 2022, 9, 021408.	5.5	25
5	Application of machine learning to reflection high-energy electron diffraction images for automated structural phase mapping. Physical Review Materials, 2022, 6, .	0.9	6
6	Benchmarking active learning strategies for materials optimization and discovery. Oxford Open Materials Science, 2022, 2, .	0.5	5
7	Autonomous experimentation systems for materials development: A community perspective. Matter, 2021, 4, 2702-2726.	5.0	143
8	Artificial intelligence for search and discovery of quantum materials. Communications Materials, 2021, 2, .	2.9	29
9	On-the-fly closed-loop materials discovery via Bayesian active learning. Nature Communications, 2020, 11, 5966.	5.8	167
10	The joint automated repository for various integrated simulations (JARVIS) for data-driven materials design. Npj Computational Materials, 2020, 6, .	3.5	181
11	Machine-learning guided discovery of a new thermoelectric material. Scientific Reports, 2019, 9, 2751.	1.6	74
12	Machine learning modeling of superconducting critical temperature. Npj Computational Materials, 2018, 4, .	3.5	274
13	Unsupervised phase mapping of X-ray diffraction data by nonnegative matrix factorization integrated with custom clustering. Npj Computational Materials, 2018, 4, .	3.5	70
14	Perspective: Compositionâ€“structureâ€“property mapping in high-throughput experiments: Turning data into knowledge. APL Materials, 2016, 4, .	2.2	87
15	On-the-fly machine-learning for high-throughput experiments: search for rare-earth-free permanent magnets. Scientific Reports, 2014, 4, 6367.	1.6	212
16	Generalized Analytical Solution and Study of Conductive Ellipsoidal Field Emitters. IEEE Transactions on Electron Devices, 2010, 57, 712-719.	1.6	11
17	Analytic Assessment of the Significant Emission Area and Integrated Enhancement Factor for Ellipsoidal Electron Field Emitters. IEEE Transactions on Electron Devices, 2010, 57, 3491-3499.	1.6	0