

Phillip Michael Maffettone

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1040282/publications.pdf>

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11
papers

1,012
citations

1163117

8
h-index

1474206

9
g-index

11
all docs

11
docs citations

11
times ranked

1493
citing authors

#	ARTICLE	IF	CITATIONS
1	A mobile robotic chemist. Nature, 2020, 583, 237-241.	27.8	645
2	On-Demand Hydrogen Generation using Nanosilicon: Splitting Water without Light, Heat, or Electricity. Nano Letters, 2013, 13, 451-456.	9.1	154
3	Combining machine learning and high-throughput experimentation to discover photocatalytically active organic molecules. Chemical Science, 2021, 12, 10742-10754.	7.4	52
4	Creating Ligand-Free Silicon Germanium Alloy Nanocrystal Inks. ACS Nano, 2011, 5, 7950-7959.	14.6	40
5	Crystallography companion agent for high-throughput materials discovery. Nature Computational Science, 2021, 1, 290-297.	8.0	38
6	Deep learning for visualization and novelty detection in large X-ray diffraction datasets. Npj Computational Materials, 2021, 7, .	8.7	28
7	Negative Hydration Expansion in ZrW_2O_8 : Microscopic Mechanism, Spaghetti Dynamics, and Negative Thermal Expansion. Physical Review Letters, 2010, 100, 265501.	7.8	1
8	Constrained non-negative matrix factorization enabling real-time insights of <i>in situ</i> and high-throughput experiments. Applied Physics Reviews, 2021, 8, .	11.3	15
9	Machine learning enabling high-throughput and remote operations at large-scale user facilities. , 2022, 1, 413-426.		10
10	Gaming the beamlinesâ€”employing reinforcement learning to maximize scientific outcomes at large-scale user facilities. Machine Learning: Science and Technology, 2021, 2, 025025.	5.0	8
11	Optimizing High- Throughput Capabilities by Leveraging Reinforcement Learning Methods with the Bluesky Suite. , 2021, , .		1