

Shuaihua Lu

List of Publications by Year in descending order

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Version: 2024-02-01

12
papers

853
citations

1040056

9
h-index

1281871

11
g-index

12
all docs

12
docs citations

12
times ranked

1000
citing authors

#	ARTICLE	IF	CITATIONS
1	Accelerated discovery of stable lead-free hybrid organic-inorganic perovskites via machine learning. Nature Communications, 2018, 9, 3405.	12.8	442
2	Coupling a Crystal Graph Multilayer Descriptor to Active Learning for Rapid Discovery of 2D Ferromagnetic Semiconductors/Half-Metals/Metals. Advanced Materials, 2020, 32, e2002658.	21.0	86
3	Rapid Discovery of Ferroelectric Photovoltaic Perovskites and Material Descriptors via Machine Learning. Small Methods, 2019, 3, 1900360.	8.6	76
4	Property-Oriented Material Design Based on a Data-Driven Machine Learning Technique. Journal of Physical Chemistry Letters, 2020, 11, 3920-3927.	4.6	54
5	Perspective on theoretical methods and modeling relating to electro-catalysis processes. Chemical Communications, 2020, 56, 9937-9949.	4.1	52
6	A Universal Descriptor for Complicated Interfacial Effects on Electrochemical Reduction Reactions. Journal of the American Chemical Society, 2022, 144, 12874-12883.	13.7	49
7	On-the-fly interpretable machine learning for rapid discovery of two-dimensional ferromagnets with high Curie temperature. Chem, 2022, 8, 769-783.	11.7	38
8	Accelerated Discovery of Single-Atom Catalysts for Nitrogen Fixation via Machine Learning. Energy and Environmental Materials, 2023, 6, .	12.8	26
9	Accelerated design of promising mixed lead-free double halide organic-inorganic perovskites for photovoltaics using machine learning. Nanoscale, 2021, 13, 12250-12259.	5.6	21
10	Inverse design with deep generative models: next step in materials discovery. National Science Review, 2022, 9, .	9.5	5
11	Coexistence of Semiconducting Ferromagnetics and Piezoelectrics down 2D Limit from Non van der Waals Antiferromagnetic LiNbO_3 -Type FeTiO_3 . Journal of Physical Chemistry Letters, 2022, 13, 1991-1999.	4.6	4
12	Machine Learning Accelerated Insights of Perovskite Materials. Springer Series in Materials Science, 2021, , 197-223.	0.6	0