

# Shuaihua Lu

## List of Publications by Year in descending order

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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 Single-Atom Catalysts for Nitrogen Fixation via Machine Learning. <i>Energy and Environmental Materials</i> , 2023, 6, .	12.8	26
2	On-the-fly interpretable machine learning for rapid discovery of two-dimensional ferromagnets with high Curie temperature. <i>CheM</i> , 2022, 8, 769-783.	11.7	38
3	Coexistence of Semiconducting Ferromagnetics and Piezoelectrics down 2D Limit from Non van der Waals Antiferromagnetic $\text{LiNbO}_3$ -Type $\text{FeTiO}_3$ . <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1991-1999.	4.6	4
4	A Universal Descriptor for Complicated Interfacial Effects on Electrochemical Reduction Reactions. <i>Journal of the American Chemical Society</i> , 2022, 144, 12874-12883.	13.7	49
5	Inverse design with deep generative models: next step in materials discovery. <i>National Science Review</i> , 2022, 9, .	9.5	5
6	Accelerated design of promising mixed lead-free double halide organic-inorganic perovskites for photovoltaics using machine learning. <i>Nanoscale</i> , 2021, 13, 12250-12259.	5.6	21
7	Machine Learning Accelerated Insights of Perovskite Materials. <i>Springer Series in Materials Science</i> , 2021, , 197-223.	0.6	0
8	Coupling a Crystal Graph Multilayer Descriptor to Active Learning for Rapid Discovery of 2D Ferromagnetic Semiconductors/Half-Metals/Metals. <i>Advanced Materials</i> , 2020, 32, e2002658.	21.0	86
9	Perspective on theoretical methods and modeling relating to electro-catalysis processes. <i>Chemical Communications</i> , 2020, 56, 9937-9949.	4.1	52
10	Property-Oriented Material Design Based on a Data-Driven Machine Learning Technique. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3920-3927.	4.6	54
11	Rapid Discovery of Ferroelectric Photovoltaic Perovskites and Material Descriptors via Machine Learning. <i>Small Methods</i> , 2019, 3, 1900360.	8.6	76
12	Accelerated discovery of stable lead-free hybrid organic-inorganic perovskites via machine learning. <i>Nature Communications</i> , 2018, 9, 3405.	12.8	442