## Linfeng Zhang

List of Publications by Year in descending order

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218677 223800 4,297 48 26 46 citations g-index h-index papers 48 48 48 2334 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Neural network representation of electronic structure from ab initio molecular dynamics. Science Bulletin, 2022, 67, 29-37.	9.0	5
2	The chemical origin of temperature-dependent lithium-ion concerted diffusion in sulfide solid electrolyte Li10GeP2S12. Journal of Energy Chemistry, 2022, 70, 59-66.	12.9	22
3	Efficient sampling of high-dimensional free energy landscapes using adaptive reinforced dynamics. Nature Computational Science, 2022, 2, 20-29.	8.0	18
4	A deep potential model with long-range electrostatic interactions. Journal of Chemical Physics, 2022, 156, 124107.	3.0	57
5	Extending the limit of molecular dynamics with <i>ab initio</i> accuracy to 10 billion atoms., 2022,,.		8
6	A generalizable machine learning potential of Ag–Au nanoalloys and its application to surface reconstruction, segregation and diffusion. Modelling and Simulation in Materials Science and Engineering, 2022, 30, 025003.	2.0	8
7	Deep potentials for materials science. Materials Futures, 2022, 1, 022601.	8.4	61
8	Structural phase transitions in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>SrTi</mml:mi><mml:msub><mml:mathvariant="normal">O<mml:mn>3</mml:mn></mml:mathvariant="normal"></mml:msub></mml:mrow></mml:math> from deep potential molecular dynamics. Physical Review B, 2022, 105, .	<sup>1i</sup> 3.2	25
9	Universal approximation of symmetric and anti-symmetric functions. Communications in Mathematical Sciences, 2022, 20, 1397-1408.	1.0	4
10	Combined Deep Learning and Classical Potential Approach for Modeling Diffusion in UiO-66. Journal of Chemical Theory and Computation, 2022, 18, 3593-3606.	5.3	19
11	Viscosity in water from first-principles and deep-neural-network simulations. Npj Computational Materials, 2022, 8, .	8.7	23
12	86 PFLOPS Deep Potential Molecular Dynamics simulation of 100 million atoms with ab initio accuracy. Computer Physics Communications, 2021, 259, 107624.	7.5	100
13	DeePKS: A Comprehensive Data-Driven Approach toward Chemically Accurate Density Functional Theory. Journal of Chemical Theory and Computation, 2021, 17, 170-181.	5.3	40
14	Exploring the Chemical Space of Linear Alkane Pyrolysis via Deep Potential GENerator. Energy & Samp; Fuels, 2021, 35, 762-769.	5.1	22
15	Deep learning of accurate force field of ferroelectric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>HfO</mml:mi><td>m<b>8:22</b>w&gt;<m< td=""><td>ın<b>sl</b>9mn&gt;2∢/n</td></m<></td></mml:mrow></mml:msub></mml:math>	m <b>8:22</b> w> <m< td=""><td>ın<b>sl</b>9mn&gt;2∢/n</td></m<>	ın <b>sl</b> 9mn>2∢/n
16	When do short-range atomistic machine-learning models fall short?. Journal of Chemical Physics, 2021, 154, 034111.	3.0	61
17	Deep potential generation scheme and simulation protocol for the Li10GeP2S12-type superionic conductors. Journal of Chemical Physics, 2021, 154, 094703.	3.0	49
18	Accurate Deep Potential model for the Al–Cu–Mg alloy in the full concentration space*. Chinese Physics B, 2021, 30, 050706.	1.4	25

#	Article	IF	CITATIONS
19	Machine learning phase space quantum dynamics approaches. Journal of Chemical Physics, 2021, 154, 184104.	3.0	10
20	Phase Diagram of a Deep Potential Water Model. Physical Review Letters, 2021, 126, 236001.	7.8	140
21	Efficiently Trained Deep Learning Potential for Graphane. Journal of Physical Chemistry C, 2021, 125, 14874-14882.	3.1	18
22	Machine-learning-assisted modeling. Physics Today, 2021, 74, 36-41.	0.3	11
23	Modeling Liquid Water by Climbing up Jacob's Ladder in Density Functional Theory Facilitated by Using Deep Neural Network Potentials. Journal of Physical Chemistry B, 2021, 125, 11444-11456.	2.6	40
24	Deep Density: Circumventing the Kohn-Sham equations via symmetry preserving neural networks. Journal of Computational Physics, 2021, 443, 110523.	3.8	11
25	Heat transport in liquid water from first-principles and deep neural network simulations. Physical Review B, 2021, 104, .	3.2	29
26	Specialising neural network potentials for accurate properties and application to the mechanical response of titanium. Npj Computational Materials, 2021, 7, .	8.7	26
27	Signatures of a liquid–liquid transition in an ab initio deep neural network model for water. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26040-26046.	7.1	112
28	Crystal Structure Prediction of Binary Alloys via Deep Potential. Frontiers in Chemistry, 2020, 8, 589795.	3.6	11
29	Deep neural network for the dielectric response of insulators. Physical Review B, 2020, 102, .	3.2	60
30	Ground State Energy Functional with Hartree–Fock Efficiency and Chemical Accuracy. Journal of Physical Chemistry A, 2020, 124, 7155-7165.	2.5	42
31	Isotope effects in x-ray absorption spectra of liquid water. Physical Review B, 2020, 102, .	3.2	6
32	Raman spectrum and polarizability of liquid water from deep neural networks. Physical Chemistry Chemical Physics, 2020, 22, 10592-10602.	2.8	80
33	Free energy of proton transfer at the water–TiO <sub>2</sub> interface from <i>ab initio</i> deep potential molecular dynamics. Chemical Science, 2020, 11, 2335-2341.	7.4	134
34	DP-GEN: A concurrent learning platform for the generation of reliable deep learning based potential energy models. Computer Physics Communications, 2020, 253, 107206.	7.5	271
35	Neural Canonical Transformation with Symplectic Flows. Physical Review X, 2020, 10, .	8.9	13
36	Warm dense matter simulation via electron temperature dependent deep potential molecular dynamics. Physics of Plasmas, 2020, 27, .	1.9	19

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37	Isotope effects in molecular structures and electronic properties of liquid water via deep potential molecular dynamics based on the SCAN functional. Physical Review B, 2020, 102, .	3.2	22
38	Pushing the Limit of Molecular Dynamics with Ab Initio Accuracy to 100 Million Atoms with Machine Learning. , 2020, , .		69
39	Deep learning inter-atomic potential model for accurate irradiation damage simulations. Applied Physics Letters, 2019, 114, .	3.3	31
40	Solving many-electron Schr $\tilde{A}\P$ dinger equation using deep neural networks. Journal of Computational Physics, 2019, 399, 108929.	3.8	108
41	Isotope effects in liquid water via deep potential molecular dynamics. Molecular Physics, 2019, 117, 3269-3281.	1.7	52
42	Active learning of uniformly accurate interatomic potentials for materials simulation. Physical Review Materials, $2019, 3, .$	2.4	299
43	Deep Potential Molecular Dynamics: A Scalable Model with the Accuracy of Quantum Mechanics. Physical Review Letters, 2018, 120, 143001.	7.8	1,006
44	Reinforced dynamics for enhanced sampling in large atomic and molecular systems. Journal of Chemical Physics, 2018, 148, 124113.	3.0	48
45	DeePMD-kit: A deep learning package for many-body potential energy representation and molecular dynamics. Computer Physics Communications, 2018, 228, 178-184.	7.5	727
46	Adaptive coupling of a deep neural network potential to a classical force field. Journal of Chemical Physics, 2018, 149, 154107.	3.0	11
47	DeePCG: Constructing coarse-grained models via deep neural networks. Journal of Chemical Physics, 2018, 149, 034101.	3.0	141
48	Deep Potential: A General Representation of a Many-Body Potential Energy Surface. Communications in Computational Physics, 2018, 23, .	1.7	164