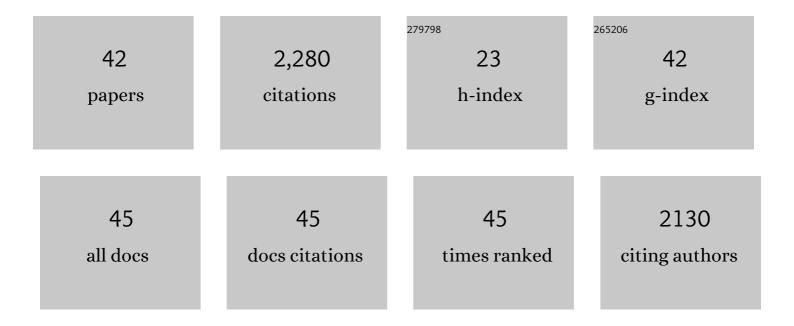
Kipton Barros

List of Publications by Year in descending order

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KIDTON RADDOS

#	Article	IF	CITATIONS
1	Approaching coupled cluster accuracy with a general-purpose neural network potential through transfer learning. Nature Communications, 2019, 10, 2903.	12.8	399
2	Machine Learning Predicts Laboratory Earthquakes. Geophysical Research Letters, 2017, 44, 9276-9282.	4.0	272
3	Hierarchical modeling of molecular energies using a deep neural network. Journal of Chemical Physics, 2018, 148, 241715.	3.0	221
4	Extending the Applicability of the ANI Deep Learning Molecular Potential to Sulfur and Halogens. Journal of Chemical Theory and Computation, 2020, 16, 4192-4202.	5.3	160
5	The ANI-1ccx and ANI-1x data sets, coupled-cluster and density functional theory properties for molecules. Scientific Data, 2020, 7, 134.	5.3	104
6	Dielectric Effects in the Self-Assembly of Binary Colloidal Aggregates. Physical Review Letters, 2014, 113, 017801.	7.8	100
7	Discovering a Transferable Charge Assignment Model Using Machine Learning. Journal of Physical Chemistry Letters, 2018, 9, 4495-4501.	4.6	88
8	Vortex Crystals with Chiral Stripes in Itinerant Magnets. Journal of the Physical Society of Japan, 2016, 85, 103703.	1.6	85
9	Transferable Dynamic Molecular Charge Assignment Using Deep Neural Networks. Journal of Chemical Theory and Computation, 2018, 14, 4687-4698.	5.3	81
10	Efficient and accurate simulation of dynamic dielectric objects. Journal of Chemical Physics, 2014, 140, 064903.	3.0	63
11	Efficient Langevin simulation of coupled classical fields and fermions. Physical Review B, 2013, 88, .	3.2	56
12	Exotic magnetic orderings in the kagome Kondo-lattice model. Physical Review B, 2014, 90, .	3.2	52
13	Learning molecular energies using localized graph kernels. Journal of Chemical Physics, 2017, 146, 114107.	3.0	48
14	Automated discovery of a robust interatomic potential for aluminum. Nature Communications, 2021, 12, 1257.	12.8	47
15	Optimisation of GaN LEDs and the reduction of efficiency droop using active machine learning. Scientific Reports, 2016, 6, 24862.	3.3	43
16	Earthquake Catalogâ€Based Machine Learning Identification of Laboratory Fault States and the Effects of Magnitude of Completeness. Geophysical Research Letters, 2018, 45, 13,269.	4.0	39
17	The Rise of Neural Networks for Materials and Chemical Dynamics. Journal of Physical Chemistry Letters, 2021, 12, 6227-6243.	4.6	39
18	Resistivity Minimum in Highly Frustrated Itinerant Magnets. Physical Review Letters, 2016, 117, 206601.	7.8	33

KIPTON BARROS

#	Article	IF	CITATIONS
19	Semiclassical dynamics of spin density waves. Physical Review B, 2018, 97, .	3.2	27
20	Machine learned Hückel theory: Interfacing physics and deep neural networks. Journal of Chemical Physics, 2021, 154, 244108.	3.0	25
21	Gradient-based stochastic estimation of the density matrix. Journal of Chemical Physics, 2018, 148, .	3.0	24
22	Spatial adaptive sampling in multiscale simulation. Computer Physics Communications, 2014, 185, 1857-1864.	7.5	23
23	Comparison of efficient techniques for the simulation of dielectric objects in electrolytes. Journal of Computational Physics, 2015, 291, 317-333.	3.8	23
24	Distributed Database Kriging for Adaptive Sampling (D2KAS). Computer Physics Communications, 2015, 192, 138-147.	7.5	23
25	Machine learning approaches for structural and thermodynamic properties of a Lennard-Jones fluid. Journal of Chemical Physics, 2020, 153, 104502.	3.0	22
26	Machine learning for molecular dynamics with strongly correlated electrons. Physical Review B, 2019, 99, .	3.2	20
27	Deep learning of dynamically responsive chemical Hamiltonians with semiempirical quantum mechanics. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119,	7.1	19
28	Langevin simulations of the half-filled cubic Holstein model. Physical Review B, 2020, 102, .	3.2	18
29	Magnetic-field-induced phases in anisotropic triangular antiferromagnets: Application to <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:msub> <mml:mi>CuCrO</mml:mi> <mml:mn>2Physical Review B, 2014, 89, .</mml:mn></mml:msub></mml:math 	nml::מתפח > ו</td <td>mmılamsub><</td>	mm ıla msub><
30	Predicting phosphorescence energies and inferring wavefunction localization with machine learning. Chemical Science, 2021, 12, 10207-10217.	7.4	14
31	Shape of magnetic domain walls formed by coupling to mobile charges. Physical Review B, 2017, 96, .	3.2	13
32	Anomalous magnetoresistance due to longitudinal spin fluctuations in a Jeff = 1/2 Mott semiconductor. Nature Communications, 2019, 10, 5301.	12.8	12
33	Liquid to solid nucleation via onion structure droplets. Journal of Chemical Physics, 2013, 139, 174505.	3.0	10
34	Mott Transition in a Metallic Liquid: Gutzwiller Molecular Dynamics Simulations. Physical Review Letters, 2017, 118, 226401.	7.8	10
35	Automatized convergence of optoelectronic simulations using active machine learning. Applied Physics Letters, 2017, 111, .	3.3	9
36	Fast and scalable quantum Monte Carlo simulations of electron-phonon models. Physical Review E, 2022, 105, .	2.1	8

KIPTON BARROS

#	Article	IF	CITATIONS
37	<i>Ex Machina</i> Determination of Structural Correlation Functions. Journal of Physical Chemistry Letters, 2020, 11, 4372-4378.	4.6	7
38	Machine learning of consistent thermodynamic models using automatic differentiation. Physical Review E, 2022, 105, 045301.	2.1	7
39	Physics-based statistical learning approach to mesoscopic model selection. Physical Review E, 2015, 92, 053301.	2.1	6
40	Dynamical tuning of the chemical potential to achieve a target particle number in grand canonical Monte Carlo simulations. Physical Review E, 2022, 105, 045311.	2.1	6
41	Nonequilibrium dynamics of superconductivity in the attractive Hubbard model. Physical Review B, 2019, 99, .	3.2	3
42	Phase diagram of a spin-ice Kondo lattice model in a breathing pyrochlore lattice. Physical Review B, 2020, 102, .	3.2	2