

Francesca Tavazza

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,681
citations

430874

18
h-index

610901

24
g-index

24
all docs

24
docs citations

24
times ranked

1833
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances and applications of deep learning methods in materials science. Npj Computational Materials, 2022, 8, .	8.7	207
2	The joint automated repository for various integrated simulations (JARVIS) for data-driven materials design. Npj Computational Materials, 2020, 6, .	8.7	181
3	High-throughput Identification and Characterization of Two-dimensional Materials using Density functional theory. Scientific Reports, 2017, 7, 5179.	3.3	173
4	Enhancing materials property prediction by leveraging computational and experimental data using deep transfer learning. Nature Communications, 2019, 10, 5316.	12.8	160
5	Materials science in the artificial intelligence age: high-throughput library generation, machine learning, and a pathway from correlations to the underpinning physics. MRS Communications, 2019, 9, 821-838.	1.8	109
6	MPInterfaces: A Materials Project based Python tool for high-throughput computational screening of interfacial systems. Computational Materials Science, 2016, 122, 183-190.	3.0	95
7	Machine learning with force-field-inspired descriptors for materials: Fast screening and mapping energy landscape. Physical Review Materials, 2018, 2, .	2.4	90
8	Elastic properties of bulk and low-dimensional materials using van der Waals density functional. Physical Review B, 2018, 98, .	3.2	88
9	Accelerated Discovery of Efficient Solar Cell Materials Using Quantum and Machine-Learning Methods. Chemistry of Materials, 2019, 31, 5900-5908.	6.7	87
10	Computational screening of high-performance optoelectronic materials using OptB88vdW and TB-mBJ formalisms. Scientific Data, 2018, 5, 180082.	5.3	79
11	Convergence and machine learning predictions of Monkhorst-Pack k-points and plane-wave cut-off in high-throughput DFT calculations. Computational Materials Science, 2019, 161, 300-308.	3.0	68
12	High-throughput density functional perturbation theory and machine learning predictions of infrared, piezoelectric, and dielectric responses. Npj Computational Materials, 2020, 6, .	8.7	60
13	Cross-property deep transfer learning framework for enhanced predictive analytics on small materials data. Nature Communications, 2021, 12, 6595.	12.8	55
14	Data-driven discovery of 3D and 2D thermoelectric materials. Journal of Physics Condensed Matter, 2020, 32, 475501.	1.8	42
15	High-throughput Discovery of Topologically Non-trivial Materials using Spin-orbit Spillage. Scientific Reports, 2019, 9, 8534.	3.3	36
16	Computational search for magnetic and non-magnetic 2D topological materials using unified spin-orbit spillage screening. Npj Computational Materials, 2020, 6, .	8.7	32
17	Genetic algorithm prediction of two-dimensional group-IV dioxides for dielectrics. Physical Review B, 2017, 95, .	3.2	23
18	High-throughput search for magnetic topological materials using spin-orbit spillage, machine learning, and experiments. Physical Review B, 2021, 103, .	3.2	22

#	ARTICLE	IF	CITATIONS
19	Uncertainty Prediction for Machine Learning Models of Material Properties. ACS Omega, 2021, 6, 32431-32440.	3.5	21
20	Evaluation and comparison of classical interatomic potentials through a user-friendly interactive web-interface. Scientific Data, 2017, 4, 160125.	5.3	18
21	Computational scanning tunneling microscope image database. Scientific Data, 2021, 8, 57.	5.3	15
22	Predicting anomalous quantum confinement effect in van der Waals materials. Physical Review Materials, 2021, 5, .	2.4	10
23	Atom Probe Tomography Analysis of Ag Doping in 2D Layered Material (PbSe) ₅ (Bi ₂ Se ₃) ₃ . Nano Letters, 2016, 16, 6064-6069.	9.1	8