

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 | Computational scanning tunneling microscope image database. Scientific Data, 2021, 8, 57. | 5.3 | 15 |
| 3 | High-throughput search for magnetic topological materials using spin-orbit spillage, machine learning, and experiments. Physical Review B, 2021, 103, . | 3.2 | 22 |
| 4 | Predicting anomalous quantum confinement effect in van der Waals materials. Physical Review Materials, 2021, 5, . | 2.4 | 10 |
| 5 | Uncertainty Prediction for Machine Learning Models of Material Properties. ACS Omega, 2021, 6, 32431-32440. | 3.5 | 21 |
| 6 | Cross-property deep transfer learning framework for enhanced predictive analytics on small materials data. Nature Communications, 2021, 12, 6595. | 12.8 | 55 |
| 7 | The joint automated repository for various integrated simulations (JARVIS) for data-driven materials design. Npj Computational Materials, 2020, 6, . | 8.7 | 181 |
| 8 | Computational search for magnetic and non-magnetic 2D topological materials using unified spin-orbit spillage screening. Npj Computational Materials, 2020, 6, . | 8.7 | 32 |
| 9 | High-throughput density functional perturbation theory and machine learning predictions of infrared, piezoelectric, and dielectric responses. Npj Computational Materials, 2020, 6, . | 8.7 | 60 |
| 10 | Data-driven discovery of 3D and 2D thermoelectric materials. Journal of Physics Condensed Matter, 2020, 32, 475501. | 1.8 | 42 |
| 11 | Accelerated Discovery of Efficient Solar Cell Materials Using Quantum and Machine-Learning Methods. Chemistry of Materials, 2019, 31, 5900-5908. | 6.7 | 87 |
| 12 | 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 |
| 13 | High-throughput Discovery of Topologically Non-trivial Materials using Spin-orbit Spillage. Scientific Reports, 2019, 9, 8534. | 3.3 | 36 |
| 14 | 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 |
| 15 | Enhancing materials property prediction by leveraging computational and experimental data using deep transfer learning. Nature Communications, 2019, 10, 5316. | 12.8 | 160 |
| 16 | Computational screening of high-performance optoelectronic materials using OptB88vdW and TB-mBJ formalisms. Scientific Data, 2018, 5, 180082. | 5.3 | 79 |
| 17 | Elastic properties of bulk and low-dimensional materials using van der Waals density functional. Physical Review B, 2018, 98, . | 3.2 | 88 |
| 18 | Machine learning with force-field-inspired descriptors for materials: Fast screening and mapping energy landscape. Physical Review Materials, 2018, 2, . | 2.4 | 90 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Evaluation and comparison of classical interatomic potentials through a user-friendly interactive web-interface. <i>Scientific Data</i> , 2017, 4, 160125. | 5.3 | 18 |
| 20 | High-throughput Identification and Characterization of Two-dimensional Materials using Density functional theory. <i>Scientific Reports</i> , 2017, 7, 5179. | 3.3 | 173 |
| 21 | Genetic algorithm prediction of two-dimensional group-IV dioxides for dielectrics. <i>Physical Review B</i> , 2017, 95, . | 3.2 | 23 |
| 22 | Atom Probe Tomography Analysis of Ag Doping in 2D Layered Material (PbSe) ₅ (Bi ₂ Se ₃) ₃ . <i>Nano Letters</i> , 2016, 16, 6064-6069. | 9.1 | 8 |
| 23 | MPInterfaces: A Materials Project based Python tool for high-throughput computational screening of interfacial systems. <i>Computational Materials Science</i> , 2016, 122, 183-190. | 3.0 | 95 |