Leopold Talirz

List of Publications by Year
in descending order

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Version: 2024-02-01

26	3,970	430442	642321
papers	citations	18	23
		h-index	g-index

28	28	28	4602
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On-surface synthesis of graphene nanoribbons with zigzag edge topology. Nature, 2016, 531, 489-492.	13.7	1,154
2	Graphene nanoribbon heterojunctions. Nature Nanotechnology, 2014, 9, 896-900.	15.6	528
3	Onâ€Surface Synthesis of Atomically Precise Graphene Nanoribbons. Advanced Materials, 2016, 28, 6222-6231.	11.1	410
4	On-Surface Synthesis and Characterization of 9-Atom Wide Armchair Graphene Nanoribbons. ACS Nano, 2017, 11, 1380-1388.	7.3	270
5	Termini of Bottom-Up Fabricated Graphene Nanoribbons. Journal of the American Chemical Society, 2013, 135, 2060-2063.	6.6	214
6	Giant edge state splitting at atomically precise graphene zigzag edges. Nature Communications, 2016, 7, 11507.	5.8	207
7	Materials Cloud, a platform for open computational science. Scientific Data, 2020, 7, 299.	2.4	189
8	Capturing chemical intuition in synthesis of metal-organic frameworks. Nature Communications, 2019, 10, 539.	5.8	153
9	AiiDA 1.0, a scalable computational infrastructure for automated reproducible workflows and data provenance. Scientific Data, 2020, 7, 300.	2.4	142
10	Toward GW Calculations on Thousands of Atoms. Journal of Physical Chemistry Letters, 2018, 9, 306-312.	2.1	104
11	In Silico Design of 2D and 3D Covalent Organic Frameworks for Methane Storage Applications. Chemistry of Materials, 2018, 30, 5069-5086.	3.2	101
12	Building a Consistent and Reproducible Database for Adsorption Evaluation in Covalentâ€“Organic Frameworks. ACS Central Science, 2019, 5, 1663-1675.	5.3	89
13	Electronic band dispersion of graphene nanoribbons via Fourier-transformed scanning tunneling spectroscopy. Physical Review B, 2015, 91, .	1.1	85
14	On-Surface Synthesis of BN-Substituted Heteroaromatic Networks. ACS Nano, 2015, 9, 9228-9235.	7.3	78
15	Too Many Materials and Too Many Applications: An Experimental Problem Waiting for a Computational Solution. ACS Central Science, 2020, 6, 1890-1900.	5.3	63
16	OPTIMADE, an API for exchanging materials data. Scientific Data, 2021, 8, 217.	2.4	49
17	In Silico Discovery of Covalent Organic Frameworks for Carbon Capture. ACS Applied Materials & Interfaces, 2020, 12, 21559-21568.	4.0	43
18	AiiDAlab â€“ an ecosystem for developing, executing, and sharing scientific workflows. Computational Materials Science, 2021, 188, 110165.	1.4	40

#	Article	IF	Citations
19	Band Gap of Atomically Precise Graphene Nanoribbons as a Function of Ribbon Length and Termination. ChemPhysChem, 2019, 20, 2348-2353.	1.0	17
20	Virtual Computational Chemistry Teaching Laboratoriesâ€"Hands-On at a Distance. Journal of Chemical Education, 2021, 98, 3163-3171.	1.1	15
21	Trends in atomistic simulation software usage [Article v1.0]. Living Journal of Computational Molecular Science, 2021, 3, .	2.2	7
22	Data-Driven Matching of Experimental Crystal Structures and Gas Adsorption Isotherms of Metalâ€"Organic Frameworks. Journal of Chemical & Engineering Data, 2022, 67, 1743-1756.	1.0	6
23	Synthesis of Atomically Precise Graphene-Based Nanostructures: A Simulation Point of View. Advances in Atom and Single Molecule Machines, 2016, , 237-268.	0.0	5
24	Electronic Structure of Atomically Precise Graphene Nanoribbons. , 2018, , 1-35.		1
25	Electronic Structure of Atomically Precise Graphene Nanoribbons. , 2019, , 1-35.		0
26	Electronic Structure of Atomically Precise Graphene Nanoribbons. , 2020, , 685-719.		0