

Ben Trump

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,057
citations

471061

17
h-index

454577

30
g-index

35
all docs

35
docs citations

35
times ranked

1690
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient and tunable one-dimensional charge transport in layered lanthanide metal-organic frameworks. <i>Nature Chemistry</i> , 2020, 12, 131-136.	6.6	214
2	Methane Storage in Paddlewheel-Based Porous Coordination Cages. <i>Journal of the American Chemical Society</i> , 2018, 140, 11153-11157.	6.6	84
3	Disordered Route to the Coulomb Quantum Spin Liquid: Random Transverse Fields on Spin Ice in $\text{Pr}_2\text{Zr}_2\text{O}_7$. <i>Physical Review Letters</i> , 2017, 118, 107206.	6.6	83
4	Understanding Gas Storage in Cuboctahedral Porous Coordination Cages. <i>Journal of the American Chemical Society</i> , 2019, 141, 12128-12138.	6.6	73
5	Selective Gas Adsorption in Highly Porous Chromium(II)-Based Metal-Organic Polyhedra. <i>Chemistry of Materials</i> , 2017, 29, 8583-8587.	3.2	68
6	Impact of stoichiometry of Yb_2O_7 on its physical properties. <i>Physical Review B</i> , 2017, 95, .	1.1	64
7	Universal geometric frustration in pyrochlores. <i>Nature Communications</i> , 2018, 9, 2619.	5.8	64
8	Synthesis, floating zone crystal growth and characterization of the quantum spin ice $\text{Pr}_2\text{Zr}_2\text{O}_7$ pyrochlore. <i>Journal of Crystal Growth</i> , 2014, 402, 291-298.	0.7	46
9	Molecular Insight into Fluorocarbon Adsorption in Pore Expanded Metal-Organic Framework Analogs. <i>Journal of the American Chemical Society</i> , 2020, 142, 3002-3012.	6.6	44
10	Observation of an Intermediate to H_2 Binding in a Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2021, 143, 14884-14894.	6.6	32
11	Single-crystal growth of Cu_4O and universal behavior in quantum spin liquid candidates synthetic barlowite and herbertsmithite. <i>Physical Review Materials</i> , 2018, 2, .	0.9	31
12	Rearrangement of van der Waals stacking and formation of a singlet state at $T = 90$ K in a cluster magnet. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 481-490.	3.0	28
13	Ballistic magnon heat conduction and possible Poiseuille flow in the helimagnetic insulator Cu_2O . <i>Physical Review B</i> , 2017, 95, .	1.1	25
14	Self-adjusting binding pockets enhance H_2 and CH_4 adsorption in a uranium-based metal-organic framework. <i>Chemical Science</i> , 2020, 11, 6709-6716.	3.7	25
15	Structural and Dynamical Properties of Potassium Dodecahydro-monocarba-closo-dodecaborate: $\text{KCB}_{11}\text{H}_{12}$. <i>Journal of Physical Chemistry C</i> , 2020, 124, 17992-18002.	1.5	24
16	The new misfit compound $(\text{BiSe})_{1.15}(\text{TiSe}_2)_2$ and the role of dimensionality in the $\text{Cu}_x(\text{BiSe})_{1+\hat{1}}(\text{TiSe}_2)_n$ series. <i>Journal of Solid State Chemistry</i> , 2014, 209, 6-12.	1.4	20
17	Gas adsorption in an isostructural series of pillared coordination cages. <i>Chemical Communications</i> , 2018, 54, 6392-6395.	2.2	19
18	Porous Covalent Organic Polymers for Efficient Fluorocarbon-Based Adsorption Cooling. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18037-18043.	7.2	16

#	ARTICLE	IF	CITATIONS
19	Seeded Chemical Vapor Transport Growth of Cu_2OSeO_3 . Crystal Growth and Design, 2017, 17, 4944-4948.	1.4	10
20	Enhancing superconductivity of LuMn_2O_7 by atomic disorder. Physical Review B, 2021, 103, .	1.5	10
21	Growth and characterization of iron scandium sulfide (FeSc_2S_4). Journal of Crystal Growth, 2016, 454, 128-133.	0.7	9
22	Low-energy magnon dynamics and magneto-optics of the skyrmionic Mott insulator Cu_2OSeO_3 . Physical Review B, 2017, 95, .	1.1	9
23	Nature of Decahydro-closo-decaborate Anion Reorientations in an Ordered Alkali-Metal Salt: $\text{Rb}_2\text{B}_{10}\text{H}_{10}$. Journal of Physical Chemistry C, 2018, 122, 15198-15207.	1.5	9
24	Elucidating the Structure of the Metal-Organic Framework Ru-HKUST-1. Chemistry of Materials, 2020, 32, 7710-7715.	3.2	9
25	Structure, properties, and disorder in the new distorted-Hollandite PbIr_4Se_8 . Journal of Solid State Chemistry, 2016, 242, 112-119.	1.4	7
26	Spin Seebeck effect in CuMn_2O_7 : Test of bulk magnon spin current theory. Physical Review B, 2020, 101, .	1.2	6
27	Low-energy magnons in the chiral ferrimagnet Cu_2OSeO_3 : A coarse-grained approach. Physical Review B, 2020, 101, .	1.1	6
28	Neutron scattering studies of materials for hydrogen storage. , 2021, , .		6
29	Neutron Scattering Investigations of the Global and Local Structures of Ammine Yttrium Borohydrides. Journal of Physical Chemistry C, 2021, 125, 15415-15423.	1.5	6
30	Anion-Anion Bonding and Topology in Ternary Iridium Seleno-Stannides. Inorganic Chemistry, 2015, 54, 11993-12001.	1.9	5
31	Spin phases of the helimagnetic insulator CuMn_2O_7 probed by magnon heat conduction. Physical Review B, 2019, 99, .	1.2	4