

# Ben Trump

## List of Publications by Year in descending order

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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	Neutron scattering studies of materials for hydrogen storage. , 2021, , .		6
2	Enhancing superconductivity of $\text{Lu}_{1-x}\text{Ce}_x\text{Ni}_2\text{B}_2\text{C}$ by atomic disorder. Physical Review B, 2021, 103, .	15.10	
3	Porous Covalent Organic Polymers for Efficient Fluorocarbon-Based Adsorption Cooling. Angewandte Chemie - International Edition, 2021, 60, 18037-18043.	7.2	16
4	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
5	Observation of an Intermediate to $\text{H}_2$ Binding in a Metal-Organic Framework. Journal of the American Chemical Society, 2021, 143, 14884-14894.	6.6	32
6	Efficient and tunable one-dimensional charge transport in layered lanthanide metal-organic frameworks. Nature Chemistry, 2020, 12, 131-136.	6.6	214
7	Structural and Dynamical Properties of Potassium Dodecahydro-monocarbonyl-dodecaborate: $\text{KCB}_{11}\text{H}_{12}$ . Journal of Physical Chemistry C, 2020, 124, 17992-18002.	1.5	24
8	Elucidating the Structure of the Metal-Organic Framework Ru-HKUST-1. Chemistry of Materials, 2020, 32, 7710-7715.	3.2	9
9	Self-adjusting binding pockets enhance $\text{H}_2$ and $\text{CH}_4$ adsorption in a uranium-based metal-organic framework. Chemical Science, 2020, 11, 6709-6716.	3.7	25
10	Spin Seebeck effect in $\text{Cu}_{1-x}\text{Mn}_x$ : Test of bulk magnon spin current theory. Physical Review B, 2020, 101, .	12.1	
11	Molecular Insight into Fluorocarbon Adsorption in Pore Expanded Metal-Organic Framework Analogs. Journal of the American Chemical Society, 2020, 142, 3002-3012.	6.6	44
12	Low-energy magnons in the chiral ferrimagnet $\text{Cu}_2\text{OSeO}_3$ : A coarse-grained approach. Physical Review B, 2020, 101, .	1.1	6
13	Understanding Gas Storage in Cuboctahedral Porous Coordination Cages. Journal of the American Chemical Society, 2019, 141, 12128-12138.	6.6	73
14	Spin phases of the helimagnetic insulator $\text{Cu}_{1-x}\text{Mn}_x$ probed by magnon heat conduction. Physical Review B, 2019, 99, .	12.1	
15	Gas adsorption in an isostructural series of pillared coordination cages. Chemical Communications, 2018, 54, 6392-6395.	2.2	19
16	Universal geometric frustration in pyrochlores. Nature Communications, 2018, 9, 2619.	5.8	64
17	Methane Storage in Paddlewheel-Based Porous Coordination Cages. Journal of the American Chemical Society, 2018, 140, 11153-11157.	6.6	84
18	Nature of Decahydro-dodecaborate 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

#	ARTICLE	IF	CITATIONS
19	Single-crystal growth of $Cu_4O_7$ and universal behavior in quantum spin liquid candidates synthetic barlowite and herbertsmithite. <i>Physical Review Materials</i> , 2018, 2, .	0.9	31
20	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
21	Disordered Route to the Coulomb Quantum Spin Liquid: Random Transverse Fields on Spin Ice in $Pr_2O_7$ . <i>Physical Review Letters</i> , 2017, 118, 107206.	3.3	18
22	Impact of stoichiometry of $Yb_2O_7$ on its physical properties. <i>Physical Review B</i> , 2017, 95, .	1.1	64
23	Selective Gas Adsorption in Highly Porous Chromium(II)-Based Metal-Organic Polyhedra. <i>Chemistry of Materials</i> , 2017, 29, 8583-8587.	3.2	68
24	Seeded Chemical Vapor Transport Growth of $Cu_2OSeO_3$ . <i>Crystal Growth and Design</i> , 2017, 17, 4944-4948.	1.4	10
25	Ballistic magnon heat conduction and possible Poiseuille flow in the helimagnetic insulator $Cu_2OSeO_3$ . <i>Physical Review B</i> , 2017, 95, .	1.1	25
26	Low-energy magnon dynamics and magneto-optics of the skyrmionic Mott insulator $Cu_2OSeO_3$ . <i>Physical Review B</i> , 2017, 95, .	1.1	9
27	Structure, properties, and disorder in the new distorted-Hollandite $PbIr_4Se_8$ . <i>Journal of Solid State Chemistry</i> , 2016, 242, 112-119.	1.4	7
28	Growth and characterization of iron scandium sulfide ( $FeSc_2S_4$ ). <i>Journal of Crystal Growth</i> , 2016, 454, 128-133.	0.7	9
29	Anion-Anion Bonding and Topology in Ternary Iridium Seleno-Stannides. <i>Inorganic Chemistry</i> , 2015, 54, 11993-12001.	1.9	5
30	The new misfit compound $(BiSe)_{1.15}(TiSe_2)_2$ and the role of dimensionality in the $Cu_x(BiSe)_{1+\delta}(TiSe_2)_n$ series. <i>Journal of Solid State Chemistry</i> , 2014, 209, 6-12.	1.4	20
31	Synthesis, floating zone crystal growth and characterization of the quantum spin ice $Pr_2Zr_2O_7$ pyrochlore. <i>Journal of Crystal Growth</i> , 2014, 402, 291-298.	0.7	46