

# Jeffrey T Culp

## List of Publications by Year in descending order

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41  
papers

1,757  
citations

279798

23  
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302126

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43  
docs citations

43  
times ranked

2343  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Guest@MOF Interaction via Stepwise Thermal Annealing: TCNQ@Cu <sub>3</sub> (BTC) <sub>2</sub> . Crystal Growth and Design, 2021, 21, 817-828.	3.0	5
2	Synthesis of High-Quality Mg-MOF-74 Thin Films <i>via</i> Vapor-Assisted Crystallization. ACS Applied Materials & Interfaces, 2021, 13, 35223-35231.	8.0	23
3	Density Functional Theory Study of the Structure of the Pillared Hofmann Compound Ni(3-Methyl-4,4'-bipyridine)[Ni(CN) <sub>4</sub> ] (Ni-BpyMe or PICNIC-21). Journal of Physical Chemistry C, 2021, 125, 15882-15889.	3.1	3
4	Metal-organic framework functionalized polymer coating for fiber optical methane sensors. Sensors and Actuators B: Chemical, 2020, 324, 128627.	7.8	43
5	Quantifying pore scale and matrix interactions of SCCO <sub>2</sub> with the Marcellus shale. Fuel, 2020, 266, 116928.	6.4	31
6	State-of-the-art of methane sensing materials: A review and perspectives. TrAC - Trends in Analytical Chemistry, 2020, 125, 115820.	11.4	29
7	Alkylamine-Integrated Metal-Organic Framework-Based Waveguide Sensors for Efficient Detection of Carbon Dioxide from Humid Gas Streams. ACS Applied Materials & Interfaces, 2019, 11, 33489-33496.	8.0	32
8	Structural Basis of CO <sub>2</sub> Adsorption in a Flexible Metal-Organic Framework Material. Nanomaterials, 2019, 9, 354.	4.1	10
9	Quantifying dry supercritical CO <sub>2</sub> -induced changes of the Utica Shale. Fuel, 2018, 226, 54-64.	6.4	61
10	Metal-Organic Framework Thin Film Coated Optical Fiber Sensors: A Novel Waveguide-Based Chemical Sensing Platform. ACS Sensors, 2018, 3, 386-394.	7.8	134
11	Zeolitic imidazolate framework-coated acoustic sensors for room temperature detection of carbon dioxide and methane. Nanoscale, 2018, 10, 8075-8087.	5.6	84
12	Electronic structure, pore size distribution, and sorption characterization of an unusual MOF, {[Ni(dpbz)][Ni(CN) <sub>4</sub> ]} <sub>n</sub> , dpbz = 1,4-bis(4-pyridyl)benzene. Journal of Applied Physics, 2018, 123, 245105.	2.5	9
13	Simple Fabrication Method for Mixed Matrix Membranes with in Situ MOF Growth for Gas Separation. ACS Applied Materials & Interfaces, 2018, 10, 24784-24790.	8.0	77
14	Active Response of Six-Coordinate Cu <sup>2+</sup> on CO <sub>2</sub> Uptake in Cu(dpa) <sub>2</sub> ·SiF <sub>6</sub> · <i>n</i> H <sub>2</sub> O from <i>in Situ</i> X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2017, 121, 11519-11523.	3.1	3
15	Crystallography of Representative MOFs Based on Pillared Cyanonickelate (PICNIC) Architecture. Crystals, 2016, 6, 108.	2.2	8
16	Synthesis and structural characterization of a flexible metal organic framework Sciences, 2016, 52, 1-9.	3.2	9
17	Flexible Solid Sorbents for CO <sub>2</sub> Capture and Separation. , 2015, , 149-176.		2
18	Carbon dioxide (CO <sub>2</sub> ) absorption behavior of mixed matrix polymer composites containing a flexible coordination polymer. Journal of Colloid and Interface Science, 2013, 393, 278-285.	9.4	26

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19	Effect of Spinâ€Crossoverâ€Induced Pore Contraction on CO <sub>2</sub> â€Host Interactions in the Porous Coordination Polymers [Fe(pyrazine)M(CN) <sub>4</sub> ] (M = Ni, Pt). <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 511-519.	2.0	15
20	Screening Hofmann Compounds as CO <sub>2</sub> Sorbents: Nontraditional Synthetic Route to Over 40 Different Pore-Functionalized and Flexible Pillared Cyanonickelates. <i>Inorganic Chemistry</i> , 2013, 52, 4205-4216.	4.0	61
21	FT-IR Study of CO <sub>2</sub> Adsorption in a Dynamic Copper(II) Benzoateâ€Pyrazine Host with CO <sub>2</sub> â€CO <sub>2</sub> Interactions in the Adsorbed State. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1857-1866.	3.1	52
22	Selective Adsorption of CO <sub>2</sub> from Light Gas Mixtures by Using a Structurally Dynamic Porous Coordination Polymer. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 10888-10892.	13.8	52
23	Mechanism for the Dynamic Adsorption of CO <sub>2</sub> and CH <sub>4</sub> in a Flexible Linear Chain Coordination Polymer as Determined from In Situ Infrared Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2184-2191.	3.1	37
24	Hydrogen Storage Properties of Rigid Three-Dimensional Hofmann Clathrate Derivatives:â€ The Effects of Pore Size. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7079-7083.	3.1	67
25	Hysteresis in the Physisorption of CO <sub>2</sub> and N <sub>2</sub> in a Flexible Pillared Layer Nickel Cyanide. <i>Journal of the American Chemical Society</i> , 2008, 130, 12427-12434.	13.7	139
26	Adsorption Properties of Hydrogen and Carbon Dioxide in Prussian Blue Analogues M <sub>3</sub> [Co(CN) <sub>6</sub> ] <sub>2</sub> , M = Co, Zn. <i>Journal of Physical Chemistry C</i> , 2007, 111, 1055-1060.	3.1	84
27	Experimental and Theoretical Studies of Gas Adsorption in Cu <sub>3</sub> (BTC) <sub>2</sub> :â€ An Effective Activation Procedure. <i>Journal of Physical Chemistry C</i> , 2007, 111, 9305-9313.	3.1	250
28	Kinetics of desorption of hexane from the microporous metal organic framework RPM-1. <i>Microporous and Mesoporous Materials</i> , 2007, 106, 115-121.	4.4	2
29	Hydrogen Storage Properties of Metal Nitroprussides M[Fe(CN) <sub>5</sub> NO], (M = Co, Ni). <i>Journal of Physical Chemistry B</i> , 2006, 110, 8325-8328.	2.6	61
30	Magnetism of metal cyanide networks assembled at interfaces. <i>Coordination Chemistry Reviews</i> , 2005, 249, 2642-2648.	18.8	63
31	Two applications of metal cyanide square grid monolayers: studies of evolving magnetic properties in layered films and templating Prussian blue family thin films. <i>Polyhedron</i> , 2003, 22, 2125-2131.	2.2	21
32	Interface directed assembly of cyanide-bridged Feâ€Co and Feâ€Mn square grid networks. <i>Polyhedron</i> , 2003, 22, 3059-3064.	2.2	10
33	Monolayer, Bilayer, Multilayers:â€ Evolving Magnetic Behavior in Langmuirâ€Blodgett Films Containing a Two-Dimensional Ironâ€Nickel Cyanide Square Grid Network. <i>Inorganic Chemistry</i> , 2003, 42, 2842-2848.	4.0	53
34	Grazing Incidence Synchrotron X-ray Diffraction of Polymerizing Langmuir Monolayers. <i>Langmuir</i> , 2003, 19, 10514-10522.	3.5	7
35	Sequential Assembly of Homogeneous Magnetic Prussian Blue Films on Templated Surfaces. <i>Chemistry of Materials</i> , 2003, 15, 3431-3436.	6.7	50
36	Assembly of a Two-dimensional Cobalt-iron Cyanide Grid Network at an Air-water Interface. <i>Molecular Crystals and Liquid Crystals</i> , 2002, 376, 383-388.	0.9	0

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37	Structural Characterization of Metal Phosphonate Langmuir-Blodgett Films by Grazing Incidence X-ray Diffraction. <i>Langmuir</i> , 2002, 18, 8260-8262.	3.5	2
38	Supramolecular Assembly at Interfaces: Formation of an Extended Two-Dimensional Coordinate Covalent Square Grid Network at the Air-Water Interface. <i>Journal of the American Chemical Society</i> , 2002, 124, 10083-10090.	13.7	104
39	Real-Time Grazing Incidence X-ray Diffraction Studies of Polymerizing n-Octadecyltrimethoxysilane Langmuir Monolayers at the Air/Water Interface. <i>Journal of the American Chemical Society</i> , 2001, 123, 767-768.	13.7	23
40	Layered Mixed-Metal Phenylphosphonates, $Mn_xCo_{1-x}(O_3PC_6H_5)_2 \cdot H_2O$ : Structure and Magnetic Properties. <i>Journal of Solid State Chemistry</i> , 2001, 159, 362-370.	2.9	11
41	Metal Cyanide Networks Formed at an Air-Water Interface: Structure and Magnetic Properties. <i>Materials Research Society Symposia Proceedings</i> , 2000, 658, 521.	0.1	0