

Jeffrey T Culp

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Experimental and Theoretical Studies of Gas Adsorption in Cu ₃ (BTC) ₂ : An Effective Activation Procedure. <i>Journal of Physical Chemistry C</i> , 2007, 111, 9305-9313.	3.1	250
2	Hysteresis in the Physisorption of CO ₂ and N ₂ in a Flexible Pillared Layer Nickel Cyanide. <i>Journal of the American Chemical Society</i> , 2008, 130, 12427-12434.	13.7	139
3	Metal-Organic Framework Thin Film Coated Optical Fiber Sensors: A Novel Waveguide-Based Chemical Sensing Platform. <i>ACS Sensors</i> , 2018, 3, 386-394.	7.8	134
4	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
5	Adsorption Properties of Hydrogen and Carbon Dioxide in Prussian Blue Analogues M ₃ [Co(CN) ₆] ₂ , M = Co, Zn. <i>Journal of Physical Chemistry C</i> , 2007, 111, 1055-1060.	3.1	84
6	Zeolitic imidazolate framework-coated acoustic sensors for room temperature detection of carbon dioxide and methane. <i>Nanoscale</i> , 2018, 10, 8075-8087.	5.6	84
7	Simple Fabrication Method for Mixed Matrix Membranes with in Situ MOF Growth for Gas Separation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24784-24790.	8.0	77
8	Hydrogen Storage Properties of Rigid Three-Dimensional Hofmann Clathrate Derivatives: The Effects of Pore Size. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7079-7083.	3.1	67
9	Magnetism of metal cyanide networks assembled at interfaces. <i>Coordination Chemistry Reviews</i> , 2005, 249, 2642-2648.	18.8	63
10	Hydrogen Storage Properties of Metal Nitroprussides M[Fe(CN) ₅ NO], (M = Co, Ni). <i>Journal of Physical Chemistry B</i> , 2006, 110, 8325-8328.	2.6	61
11	Screening Hofmann Compounds as CO ₂ 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
12	Quantifying dry supercritical CO ₂ -induced changes of the Utica Shale. <i>Fuel</i> , 2018, 226, 54-64.	6.4	61
13	Monolayer, Bilayer, Multilayers: Evolving Magnetic Behavior in Langmuir-Blodgett Films Containing a Two-Dimensional Iron-Nickel Cyanide Square Grid Network. <i>Inorganic Chemistry</i> , 2003, 42, 2842-2848.	4.0	53
14	FT-IR Study of CO ₂ Adsorption in a Dynamic Copper(II) Benzoate-Pyrazine Host with CO ₂ Interactions in the Adsorbed State. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1857-1866.	3.1	52
15	Selective Adsorption of CO ₂ 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
16	Sequential Assembly of Homogeneous Magnetic Prussian Blue Films on Templated Surfaces. <i>Chemistry of Materials</i> , 2003, 15, 3431-3436.	6.7	50
17	Metal-organic framework functionalized polymer coating for fiber optical methane sensors. <i>Sensors and Actuators B: Chemical</i> , 2020, 324, 128627.	7.8	43
18	Mechanism for the Dynamic Adsorption of CO ₂ and CH ₄ 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

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19	Alkylamine-Integrated Metal-Organic Framework-Based Waveguide Sensors for Efficient Detection of Carbon Dioxide from Humid Gas Streams. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33489-33496.	8.0	32
20	Quantifying pore scale and matrix interactions of SCCO ₂ with the Marcellus shale. <i>Fuel</i> , 2020, 266, 116928.	6.4	31
21	State-of-the-art of methane sensing materials: A review and perspectives. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 125, 115820.	11.4	29
22	Carbon dioxide (CO ₂) absorption behavior of mixed matrix polymer composites containing a flexible coordination polymer. <i>Journal of Colloid and Interface Science</i> , 2013, 393, 278-285.	9.4	26
23	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
24	Synthesis of High-Quality Mg-MOF-74 Thin Films <i>via</i> Vapor-Assisted Crystallization. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35223-35231.	8.0	23
25	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
26	Effect of Spin-Crossover-Induced Pore Contraction on CO ₂ -Host Interactions in the Porous Coordination Polymers [Fe(pyrazine) ₂ (CN) ₄] _n (M = Ni, Pt). <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 511-519.	2.0	15
27	Layered Mixed-Metal Phenylphosphonates, M _n Co _{1-x} (O ₃ PC ₆ H ₅) ₂ ·xH ₂ O: Structure and Magnetic Properties. <i>Journal of Solid State Chemistry</i> , 2001, 159, 362-370.	2.9	11
28	Interface directed assembly of cyanide-bridged Fe-Co and Fe-Mn square grid networks. <i>Polyhedron</i> , 2003, 22, 3059-3064.	2.2	10
29	Structural Basis of CO ₂ Adsorption in a Flexible Metal-Organic Framework Material. <i>Nanomaterials</i> , 2019, 9, 354.	4.1	10
30	Synthesis and structural characterization of a flexible metal organic framework <i>Sciences</i> , 2016, 52, 1-9.	3.2	9
31	Electronic structure, pore size distribution, and sorption characterization of an unusual MOF, {[Ni(dpbz)][Ni(CN) ₄]} _n , dpbz = 1,4-bis(4-pyridyl)benzene. <i>Journal of Applied Physics</i> , 2018, 123, 245105.	2.5	9
32	Crystallography of Representative MOFs Based on Pillared Cyanonickelate (PICNIC) Architecture. <i>Crystals</i> , 2016, 6, 108.	2.2	8
33	Grazing Incidence Synchrotron X-ray Diffraction of Polymerizing Langmuir Monolayers. <i>Langmuir</i> , 2003, 19, 10514-10522.	3.5	7
34	Enhanced Guest@MOF Interaction via Stepwise Thermal Annealing: TCNQ@Cu ₃ (BTC) ₂ . <i>Crystal Growth and Design</i> , 2021, 21, 817-828.	3.0	5
35	Active Response of Six-Coordinate Cu ₂₊ on CO ₂ Uptake in Cu(dpa) ₂ ·SiF ₆ from <i>in situ</i> X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 11519-11523.	3.1	3
36	Density Functional Theory Study of the Structure of the Pillared Hofmann Compound Ni(3-Methyl-4,4'-bipyridine)[Ni(CN) ₄] (Ni-BpyMe or PICNIC-21). <i>Journal of Physical Chemistry C</i> , 2021, 125, 15882-15889.	3.1	3

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37	Structural Characterization of Metal Phosphonate Langmuir-Blodgett Films by Grazing Incidence X-ray Diffraction. Langmuir, 2002, 18, 8260-8262.	3.5	2
38	Kinetics of desorption of hexane from the microporous metal organic framework RPM-1. Microporous and Mesoporous Materials, 2007, 106, 115-121.	4.4	2
39	Flexible Solid Sorbents for CO2 Capture and Separation. , 2015, , 149-176.		2
40	Metal Cyanide Networks Formed at an Air-Water Interface: Structure and Magnetic Properties. Materials Research Society Symposia Proceedings, 2000, 658, 521.	0.1	0
41	Assembly of a Two-dimensional Cobalt-iron Cyanide Grid Network at an Air-water Interface. Molecular Crystals and Liquid Crystals, 2002, 376, 383-388.	0.9	0