John J Perry Iv

List of Publications by Year
in descending order

35 papers	4,386 citations	230014 27 h-index	388640 36 g-index
37 all docs	37 docs citations	37 times ranked	5388 citing authors

#	Article	IF	Citations
1	Metalâ€“Organic Material Polymer Coatings for Enhanced Gas Sorption Performance and Hydrolytic Stability under Humid Conditions. ACS Applied Materials & Interfaces, 2020, 12, 33759-33764.	4.0	22
2	Highly selective CO₂ removal for one-step liquefied natural gas processing by physisorbents. Chemical Communications, 2019, 55, 3219-3222.	2.2	31
3	Reversible Switching between Highly Porous and Nonporous Phases of an Interpenetrated Diamondoid Coordination Network That Exhibits Gateâ€Opening at Methane Storage Pressures. Angewandte Chemie - International Edition, 2018, 57, 5684-5689.	7.2	161
4	Reversible Switching between Highly Porous and Nonporous Phases of an Interpenetrated Diamondoid Coordination Network That Exhibits Gateâ€Opening at Methane Storage Pressures. Angewandte Chemie, 2018, 130, 5786-5791.	1.6	27
5	Highly Selective Separation of C₂H₂ from CO₂ by a New Dichromate-Based Hybrid Ultramicroporous Material. ACS Applied Materials & Interfaces, 2017, 9, 33395-33400.	4.0	116
6	Hybrid ultramicroporous materials (HUMs) with enhanced stability and trace carbon capture performance. Chemical Communications, 2017, 53, 5946-5949.	2.2	99
7	Flue-gas and direct-air capture of CO ₂ by porous metalâ€“organic materials. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160025.	1.6	80
8	Enhanced Stability toward Humidity in a Family of Hybrid Ultramicroporous Materials Incorporating Cr₂O₇^{2â€“} Pillars. Crystal Growth and Design, 2017, 17, 1933-1937.	1.4	12
9	The effect of centred versus offset interpenetration on C₂H₂ sorption in hybrid ultramicroporous materials. Chemical Communications, 2017, 53, 11592-11595.	2.2	40
10	Controlling the Uptake and Regulating the Release of Nitric Oxide in Microporous Solids. ACS Applied Materials & Interfaces, 2017, 9, 43520-43528.	4.0	15
11	Crystal engineering of a family of hybrid ultramicroporous materials based upon interpenetration and dichromate linkers. Chemical Science, 2016, 7, 5470-5476.	3.7	66
12	Tuning Pore Size in Squareâ€Lattice Coordination Networks for Sizeâ€Selective Sieving of CO₂. Angewandte Chemie, 2016, 128, 10424-10428.	1.6	43
13	Tuning Pore Size in Squareâ€Lattice Coordination Networks for Sizeâ€Selective Sieving of CO₂. Angewandte Chemie - International Edition, 2016, 55, 10268-10272.	7.2	237
14	Network diversity through two-step crystal engineering of a decorated 6-connected primary molecular building block. CrystEngComm, 2016, 18, 8578-8581.	1.3	14
15	Theoretical Optimization of Pore Size and Chemistry in SIFSIX-3-M Hybrid Ultramicroporous Materials. Crystal Growth and Design, 2016, 16, 3890-3897.	1.4	37
16	A rare cationic building block that generates a new type of polyhedral network with â€œcross-linkedâ€• pto topology. Chemical Communications, 2016, 52, 4160-4162.	2.2	18
17	Direct Air Capture of CO₂ by Physisorbent Materials. Angewandte Chemie - International Edition, 2015, 54, 14372-14377.	7.2	382
18	Zero-periodic metalâ€“organic material, organic polymer composites: tuning properties of methacrylate polymers via dispersion of dodecyloxy-decorated Cu-BDC nanoballs. Journal of Materials Chemistry A, 2015, 3, 13215-13225.	5.2	7

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19	Double-walled pyr topology networks from a novel fluoride-bridged heptanuclear metal cluster. Chemical Science, 2015, 6, 4784-4789.	3.7	38
20	DFT-based force field development for noble gas adsorption in metal organic frameworks. Journal of Materials Chemistry A, 2015, 3, 23539-23548.	5.2	33
21	Novel mode of 2-fold interpenetration observed in a primitive cubic network of formula [Ni(1,2-bis(4-pyridyl)acetylene)₂(Cr₂O₇)]_n. Chemical Communications, 2015, 51, 14832-14835.	2.2	47
22	Noble Gas Adsorption in Metalâ€“Organic Frameworks Containing Open Metal Sites. Journal of Physical Chemistry C, 2014, 118, 11685-11698.	1.5	165
23	Screening metalâ€“organic frameworks for selective noble gas adsorption in air: effect of pore size and framework topology. Physical Chemistry Chemical Physics, 2013, 15, 9093.	1.3	92
24	Connecting structure with function in metalâ€“organic frameworks to design novel photo- and radioluminescent materials. Journal of Materials Chemistry, 2012, 22, 10235.	6.7	105
25	Effects of Polarizability on the Adsorption of Noble Gases at Low Pressures in Monohalogenated Isoreticular Metalâ€“Organic Frameworks. Journal of Physical Chemistry C, 2012, 116, 19765-19772.	1.5	99
26	Solid State Structural Characterization and Solution Spectroscopy of a Dodecyloxy Copper Nanoball. Crystal Growth and Design, 2011, 11, 3183-3189.	1.4	18
27	Complete Series of Monohalogenated Isoreticular Metalâ€“Organic Frameworks: Synthesis and the Importance of Activation Method. Crystal Growth and Design, 2011, 11, 4309-4312.	1.4	53
28	Study of Polymeric Interactions of Copolymers: 2-Hydroxyethyl Methacrylate (HEMA) and 2,3-Dihydroxypropyl Methacrylate (DHPMA) with Copper Hydroxylated Nanoballs. Journal of Nanoscience and Nanotechnology, 2010, 10, 5557-5569.	0.9	2
29	Assessing the Purity of Metalâ^'Organic Frameworks Using Photoluminescence: MOF-5, ZnO Quantum Dots, and Framework Decomposition. Journal of the American Chemical Society, 2010, 132, 15487-15489.	6.6	140
30	Design and synthesis of metalâ€“organic frameworks using metalâ€“organic polyhedra as supermolecular building blocks. Chemical Society Reviews, 2009, 38, 1400.	18.7	1,630
31	Exciplex Fluorescence as a Diagnostic Probe of Structure in Coordination Polymers of Zn2+and 4,4â€˜-Bipyridine Containing Intercalated Pyrene and Enclathrated Aromatic Solvent Guests. Journal of the American Chemical Society, 2007, 129, 9094-9101.	6.6	156
32	Bottom up Synthesis That Does Not Start at the Bottom:â€‰ Quadruple Covalent Cross-Linking of Nanoscale Faceted Polyhedra. Journal of the American Chemical Society, 2007, 129, 10076-10077.	6.6	203
33	Spectroscopic Characterization of Hydroxylated Nanoballs in Methanol. Inorganic Chemistry, 2007, 46, 5904-5910.	1.9	30
34	4-Methoxypyridine-(pyridine-2,6-dicarboxylato-N,O,O?) copper(II). Journal of Chemical Crystallography, 2004, 34, 877-881.	0.5	12
35	Sextuplet phenyl embrace in a metalâ€“organic KagomÃ© lattice. Chemical Communications, 2004, , 2534-2535.	2.2	107