

Antek G Wong-Foy

List of Publications by Year in descending order

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53
papers

8,797
citations

81743

39
h-index

161609

54
g-index

54
all docs

54
docs citations

54
times ranked

8746
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimation of system-level hydrogen storage for metal-organic frameworks with high volumetric storage density. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 15135-15145.	3.8	53
2	Exceptional hydrogen storage achieved by screening nearly half a million metal-organic frameworks. <i>Nature Communications</i> , 2019, 10, 1568.	5.8	278
3	Structure activity relationships in metal-organic framework catalysts for the continuous flow synthesis of propylene carbonate from CO ₂ and propylene oxide. <i>RSC Advances</i> , 2018, 8, 2132-2137.	1.7	32
4	The Metal-Organic Framework Collapse Continuum: Insights from Two-Dimensional Powder X-ray Diffraction. <i>Chemistry of Materials</i> , 2018, 30, 6559-6565.	3.2	64
5	Rapid Guest Exchange and Ultra-Low Surface Tension Solvents Optimize Metal-Organic Framework Activation. <i>Angewandte Chemie</i> , 2017, 129, 14810-14813.	1.6	26
6	Rapid Guest Exchange and Ultra-Low Surface Tension Solvents Optimize Metal-Organic Framework Activation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14618-14621.	7.2	93
7	Balancing gravimetric and volumetric hydrogen density in MOFs. <i>Energy and Environmental Science</i> , 2017, 10, 2459-2471.	15.6	127
8	Core-Shell Structures Arise Naturally During Ligand Exchange in Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017, 139, 14841-14844.	6.6	115
9	Rhodium Hydrogenation Catalysts Supported in Metal Organic Frameworks: Influence of the Framework on Catalytic Activity and Selectivity. <i>ACS Catalysis</i> , 2016, 6, 3569-3574.	5.5	65
10	Purification of Chloromethane by Selective Adsorption of Dimethyl Ether on Microporous Coordination Polymers. <i>Langmuir</i> , 2016, 32, 9743-9747.	1.6	4
11	A Perylene-Based Microporous Coordination Polymer Interacts Selectively with Electron-Poor Aromatics. <i>Chemistry - A European Journal</i> , 2016, 22, 5509-5513.	1.7	22
12	Predicting Methane Storage in Open-Metal-Site Metal-Organic Frameworks. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13451-13458.	1.5	62
13	Porous Solids Arising from Synergistic and Competing Modes of Assembly: Combining Coordination Chemistry and Covalent Bond Formation. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3983-3987.	7.2	30
14	Water Sensitivity in Zn ₄ O-Based MOFs is Structure and History Dependent. <i>Journal of the American Chemical Society</i> , 2015, 137, 2651-2657.	6.6	94
15	Filling Pore Space in a Microporous Coordination Polymer to Improve Methane Storage Performance. <i>Langmuir</i> , 2015, 31, 2211-2217.	1.6	39
16	A non-regular layer arrangement of a pillared-layer coordination polymer: avoiding interpenetration via symmetry breaking at nodes. <i>Chemical Communications</i> , 2015, 51, 13611-13614.	2.2	9
17	Polymer@MOF@MOF: α -grafting from α -atom transfer radical polymerization for the synthesis of hybrid porous solids. <i>Chemical Communications</i> , 2015, 51, 11994-11996.	2.2	100
18	The Role of Modulators in Controlling Layer Spacings in a Tritopic Linker Based Zirconium 2D Microporous Coordination Polymer. <i>Inorganic Chemistry</i> , 2015, 54, 4591-4593.	1.9	62

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19	Shear-Triggered Crystallization and Light Emission of a Thermally Stable Organic Supercooled Liquid. ACS Central Science, 2015, 1, 94-102.	5.3	77
20	Porous Solids Arising from Synergistic and Competing Modes of Assembly: Combining Coordination Chemistry and Covalent Bond Formation. Angewandte Chemie, 2015, 127, 4055-4059.	1.6	7
21	Coordination copolymerization of three carboxylate linkers into a pillared layer framework. Chemical Science, 2014, 5, 3729.	3.7	53
22	Microporous Coordination Polymers as Efficient Sorbents for Air Dehumidification. Langmuir, 2014, 30, 1921-1925.	1.6	36
23	Heterogenization of Homogeneous Catalysts in Metal-Organic Frameworks via Cation Exchange. Journal of the American Chemical Society, 2013, 135, 10586-10589.	6.6	277
24	Theoretical Limits of Hydrogen Storage in Metal-Organic Frameworks: Opportunities and Trade-Offs. Chemistry of Materials, 2013, 25, 3373-3382.	3.2	211
25	Rapid and enhanced activation of microporous coordination polymers by flowing supercritical CO ₂ . Chemical Communications, 2013, 49, 1419.	2.2	63
26	Interpenetration, Porosity, and High-Pressure Gas Adsorption in Zn ₄ O(2,6-naphthalene) Tj ETQq0 0 0 r gBT /Overlock 10 Tf	1.6	36
27	Evidence of Positronium Bloch States in Porous Crystals of Zn ₄ O-Coordination Polymers. Physical Review Letters, 2013, 110, 197403.	2.9	23
28	Exceptional surface area from coordination copolymers derived from two linear linkers of differing lengths. Chemical Science, 2012, 3, 2429.	3.7	63
29	Non-interpenetrated IRMOF-8: synthesis, activation, and gas sorption. Chemical Communications, 2012, 48, 9828.	2.2	49
30	Nonlinear Properties in Coordination Copolymers Derived from Randomly Mixed Ligands. Crystal Growth and Design, 2011, 11, 2059-2063.	1.4	47
31	Gas and liquid phase adsorption in isostructural Cu ₃ [biaryltricarboxylate] ₂ microporous coordination polymers. Chemical Communications, 2011, 47, 1452-1454.	2.2	71
32	Effect of Humidity on the Performance of Microporous Coordination Polymers as Adsorbents for CO ₂ Capture. Langmuir, 2011, 27, 6368-6373.	1.6	409
33	Highly Dispersed Palladium(II) in a Defective Metal-Organic Framework: Application to C-H Activation and Functionalization. Journal of the American Chemical Society, 2011, 133, 20138-20141.	6.6	166
34	Evolution of Nanoscale Pore Structure in Coordination Polymers During Thermal and Chemical Exposure Revealed by Positron Annihilation. Advanced Materials, 2010, 22, 1598-1601.	11.1	56
35	Metal-Dependent Phase Selection in Coordination Polymers Derived from a C ₂ -Symmetric Tricarboxylate. Inorganic Chemistry, 2010, 49, 5271-5275.	1.9	53
36	Linker-Directed Vertex Desymmetrization for the Production of Coordination Polymers with High Porosity. Journal of the American Chemical Society, 2010, 132, 13941-13948.	6.6	184

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37	Coordination Copolymerization Mediated by $Zn_4O(CO_2R)_6$ Metal Clusters: a Balancing Act between Statistics and Geometry. <i>Journal of the American Chemical Society</i> , 2010, 132, 15005-15010.	6.6	140
38	A Porous Coordination Copolymer with over 5000 m^2/g BET Surface Area. <i>Journal of the American Chemical Society</i> , 2009, 131, 4184-4185.	6.6	446
39	Beryllium benzene dicarboxylate: the first beryllium microporous coordination polymer. <i>Journal of Materials Chemistry</i> , 2009, 19, 6489.	6.7	31
40	Microporous Coordination Polymers As Selective Sorbents for Liquid Chromatography. <i>Langmuir</i> , 2009, 25, 11977-11979.	1.6	170
41	Enabling Cleaner Fuels: Desulfurization by Adsorption to Microporous Coordination Polymers. <i>Journal of the American Chemical Society</i> , 2009, 131, 14538-14543.	6.6	236
42	MOF@MOF: microporous core-shell architectures. <i>Chemical Communications</i> , 2009, , 6162.	2.2	269
43	A Crystalline Mesoporous Coordination Copolymer with High Microporosity. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 677-680.	7.2	478
44	Dramatic Tuning of Carbon Dioxide Uptake via Metal Substitution in a Coordination Polymer with Cylindrical Pores. <i>Journal of the American Chemical Society</i> , 2008, 130, 10870-10871.	6.6	1,612
45	Phase Selection and Discovery among Five Assembly Modes in a Coordination Polymerization. <i>Inorganic Chemistry</i> , 2008, 47, 7751-7756.	1.9	80
46	Liquid Phase Adsorption by Microporous Coordination Polymers: Removal of Organosulfur Compounds. <i>Journal of the American Chemical Society</i> , 2008, 130, 6938-6939.	6.6	365
47	Porous Crystal Derived from a Tricarboxylate Linker with Two Distinct Binding Motifs. <i>Journal of the American Chemical Society</i> , 2007, 129, 15740-15741.	6.6	219
48	Raman Spectroscopic Investigation of CH_4 and N_2 Adsorption in Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2007, 19, 3681-3685.	3.2	93
49	Exceptional H_2 Saturation Uptake in Microporous Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2006, 128, 3494-3495.	6.6	1,172
50	A Metal-Organic Framework with a Hierarchical System of Pores and Tetrahedral Building Blocks. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2528-2533.	7.2	196
51	Alkane C-H Bond Activation by O-Donor Ir Complexes. <i>ACS Symposium Series</i> , 2004, , 105-115.	0.5	3
52	Alkane C-H Activation and Catalysis by an O-Donor Ligated Iridium Complex. <i>Journal of the American Chemical Society</i> , 2003, 125, 14292-14293.	6.6	64
53	Intramolecular C-H activation by dicationic Pt(II) complexes. <i>Journal of Molecular Catalysis A</i> , 2002, 189, 3-16.	4.8	38