

# Kyle E Cordova

## List of Publications by Year in descending order

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Version: 2024-02-01

48  
papers

18,673  
citations

172207

29  
h-index

214527

47  
g-index

53  
all docs

53  
docs citations

53  
times ranked

20131  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Chemistry and Applications of Metal-Organic Frameworks. <i>Science</i> , 2013, 341, 1230444.	6.0	12,032
2	Large-Pore Apertures in a Series of Metal-Organic Frameworks. <i>Science</i> , 2012, 336, 1018-1023.	6.0	1,729
3	The chemistry of metal-organic frameworks for CO <sub>2</sub> capture, regeneration and conversion. <i>Nature Reviews Materials</i> , 2017, 2, .	23.3	1,075
4	The role of reticular chemistry in the design of CO <sub>2</sub> reduction catalysts. <i>Nature Materials</i> , 2018, 17, 301-307.	13.3	552
5	Synthesis and Characterization of Metal-Organic Framework-74 Containing 2, 4, 6, 8, and 10 Different Metals. <i>Inorganic Chemistry</i> , 2014, 53, 5881-5883.	1.9	397
6	Introduction of Functionality, Selection of Topology, and Enhancement of Gas Adsorption in Multivariate Metal-Organic Framework-177. <i>Journal of the American Chemical Society</i> , 2015, 137, 2641-2650.	6.6	339
7	Three-Dimensional Metal-Catecholate Frameworks and Their Ultrahigh Proton Conductivity. <i>Journal of the American Chemical Society</i> , 2015, 137, 15394-15397.	6.6	274
8	A Titanium-Organic Framework as an Exemplar of Combining the Chemistry of Metal- and Covalent-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2016, 138, 4330-4333.	6.6	260
9	Selective Capture of Carbon Dioxide under Humid Conditions by Hydrophobic Chabazite-Type Zeolitic Imidazolate Frameworks. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10645-10648.	7.2	225
10	Secondary Organic Aerosol-Forming Reactions of Glyoxal with Amino Acids. <i>Environmental Science &amp; Technology</i> , 2009, 43, 2818-2824.	4.6	206
11	New Metal-Organic Frameworks for Chemical Fixation of CO <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 733-744.	4.0	192
12	Multivariate metal-organic frameworks. <i>National Science Review</i> , 2017, 4, 296-298.	4.6	148
13	A significant enhancement of water vapour uptake at low pressure by amine-functionalization of UiO-67. <i>Dalton Transactions</i> , 2015, 44, 2047-2051.	1.6	109
14	Tailoring the water adsorption properties of MIL-101 metal-organic frameworks by partial functionalization. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2057-2064.	5.2	105
15	Designing bipyridine-functionalized zirconium metal-organic frameworks as a platform for clean energy and other emerging applications. <i>Coordination Chemistry Reviews</i> , 2018, 364, 33-50.	9.5	105
16	High proton conductivity at low relative humidity in an anionic Fe-based metal-organic framework. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3638-3641.	5.2	87
17	Tuning the Interplay between Selectivity and Permeability of ZIF-7 Mixed Matrix Membranes. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 33401-33407.	4.0	74
18	Tailoring the Optical Absorption of Water-Stable Zr <sup>IV</sup> - and Hf <sup>IV</sup> -Based Metal-Organic Framework Photocatalysts. <i>Chemistry - an Asian Journal</i> , 2015, 10, 2660-2668.	1.7	62

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19	An azobenzene-containing metal-organic framework as an efficient heterogeneous catalyst for direct amidation of benzoic acids: synthesis of bioactive compounds. <i>Chemical Communications</i> , 2015, 51, 17132-17135.	2.2	59
20	Synthesis and Selective CO <sub>2</sub> Capture Properties of a Series of Hexatopic Linker-Based Metal-Organic Frameworks. <i>Inorganic Chemistry</i> , 2015, 54, 10065-10072.	1.9	57
21	Mixed-Metal Zeolitic Imidazolate Frameworks and their Selective Capture of Wet Carbon Dioxide over Methane. <i>Inorganic Chemistry</i> , 2016, 55, 6201-6207.	1.9	52
22	The "folklore" and reality of reticular chemistry. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1304-1309.	3.2	47
23	High Methanol Uptake Capacity in Two New Series of Metal-Organic Frameworks: Promising Materials for Adsorption-Driven Heat Pump Applications. <i>Chemistry of Materials</i> , 2016, 28, 6243-6249.	3.2	44
24	An Ultrasensitive and Selective Metal-Organic Framework Chemosensor for Palladium Detection in Water. <i>Inorganic Chemistry</i> , 2019, 58, 1738-1741.	1.9	42
25	Carbon dioxide capture in the presence of water by an amine-based crosslinked porous polymer. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6455-6462.	5.2	39
26	Facilitating Laboratory Research Experience Using Reticular Chemistry. <i>Journal of Chemical Education</i> , 2018, 95, 1512-1519.	1.1	38
27	Defect-engineering a metal-organic framework for CO <sub>2</sub> fixation in the synthesis of bioactive oxazolidinones. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 3571-3577.	3.0	33
28	A complex metal-organic framework catalyst for microwave-assisted radical polymerization. <i>Communications Chemistry</i> , 2018, 1, .	2.0	31
29	A Microporous Organic Copolymer for Selective CO <sub>2</sub> Capture under Humid Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 13941-13948.	3.2	29
30	Novel Porous Organic Polymer for the Concurrent and Selective Removal of Hydrogen Sulfide and Carbon Dioxide from Natural Gas Streams. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 47984-47992.	4.0	29
31	Unraveling the Structural Dynamics of an Enzyme Encapsulated within a Metal-Organic Framework. <i>Journal of Physical Chemistry B</i> , 2020, 124, 3678-3685.	1.2	18
32	Can rapid loss and high variability of Martian methane be explained by surface H <sub>2</sub> O <sub>2</sub> ?. <i>Planetary and Space Science</i> , 2011, 59, 238-246.	0.9	17
33	Flexible Metal-Organic Frameworks as CO <sub>2</sub> Adsorbents en Route to Energy-Efficient Carbon Capture. <i>Small Structures</i> , 2022, 3, .	6.9	15
34	Control over interpenetration for boosting methane storage capacity in metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24857-24862.	5.2	14
35	The chemistry of metal-organic frameworks with face-centered cubic topology. <i>Coordination Chemistry Reviews</i> , 2022, 468, 214644.	9.5	14
36	Zeolite NPO-type Azolate Frameworks. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	11

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37	Diamidato-bis(diphenylphosphino) platinum(II) complexes: Synthesis, characterization, and reactivity in the presence of acid. <i>Inorganica Chimica Acta</i> , 2011, 368, 74-83.	1.2	10
38	The Development of Global Science. <i>ACS Central Science</i> , 2015, 1, 18-23.	5.3	9
39	Dissolution and Biological Assessment of Cancer-Targeting Nano-ZIF-8 in Zebrafish Embryos. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 2445-2454.	2.6	8
40	Selectively capturing carbon dioxide from mixed gas streams using a new microporous organic copolymer. <i>Microporous and Mesoporous Materials</i> , 2020, 305, 110391.	2.2	6
41	Surface peptide functionalization of zeolitic imidazolate framework-8 for autonomous homing and enhanced delivery of chemotherapeutic agent to lung tumor cells. <i>Dalton Transactions</i> , 2021, 50, 2375-2386.	1.6	6
42	Metal Organic Frameworks as Emerging Photocatalysts. , 0, , .		5
43	Building a Global Culture of Scienceâ€”The Vietnam Experience. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1552-1560.	7.2	5
44	Robust Barium Phosphonate Metalâ€”Organic Frameworks Synthesized under Aqueous Conditions. , 2021, 3, 1010-1015.		3
45	Metal nitrosyl chemistry: Interesting oxidation and nitrosylation of a metal-bound ligand framework in a diamido-bis(phosphine) ruthenium(II) complex. <i>Inorganica Chimica Acta</i> , 2016, 450, 236-242.	1.2	2
46	Aufbau einer globalen Wissenschaftskultur â€” die Vietnamâ€”Erfahrung. <i>Angewandte Chemie</i> , 2019, 131, 1566-1575.	1.6	2
47	Zeolite NPOâ€”Type Azolate Frameworks. <i>Angewandte Chemie</i> , 0, , .	1.6	1
48	Å½cktitelbild: Selective Capture of Carbon Dioxide under Humid Conditions by Hydrophobic Chabazite-Type Zeolitic Imidazolate Frameworks ( <i>Angew. Chem.</i> 40/2014). <i>Angewandte Chemie</i> , 2014, 126, 11004-11004.	1.6	0