Miguel I Gonzalez

List of Publications by Year
in descending order

48 papers	5,135 citations	126907 33 h-index	214800 47 g-index
49 all docs	49 docs citations	49 times ranked	6250 citing authors

#	Article	IF	Citations
1	Methane storage in flexible metalâ€“organic frameworks with intrinsic thermal management. Nature, 2015, 527, 357-361.	27.8	817
2	Comprehensive study of carbon dioxide adsorption in the metalâ€“organic frameworks M₂(dobdc) (M = Mg, Mn, Fe, Co, Ni, Cu, Zn). Chemical Science, 2014, 5, 4569-4581.	7.4	342
3	Electronic Conductivity, Ferrimagnetic Ordering, and Reductive Insertion Mediated by Organic Mixed-Valence in a Ferric Semiquinoid Metalâ€“Organic Framework. Journal of the American Chemical Society, 2015, 137, 15703-15711.	13.7	329
4	Giant coercivity and high magnetic blocking temperatures for N2 3â^' radical-bridged dilanthanide complexes upon ligand dissociation. Nature Communications, 2017, 8, 2144.	12.8	273
5	A Diaminopropane-Appended Metalâ€“Organic Framework Enabling Efficient CO₂ Capture from Coal Flue Gas via a Mixed Adsorption Mechanism. Journal of the American Chemical Society, 2017, 139, 13541-13553.	13.7	206
6	Controlling Cooperative CO₂ Adsorption in Diamine-Appended Mg₂(dobpdc) Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2017, 139, 10526-10538.	13.7	205
7	Tristability in a Light-Actuated Single-Molecule Magnet. Journal of the American Chemical Society, 2013, 135, 15880-15884.	13.7	178
8	M₂(m-dobdc) (M = Mn, Fe, Co, Ni) Metalâ€“Organic Frameworks as Highly Selective, High-Capacity Adsorbents for Olefin/Paraffin Separations. Journal of the American Chemical Society, 2017, 139, 15363-15370.	13.7	178
9	Hydrogen Storage in the Expanded Pore Metalâ€“Organic Frameworks M₂(dobpdc) (M = Mg,) Tj ETQq1 1 0.784314 rgB	6.7	171
10	Single-Crystal-to-Single-Crystal Metalation of a Metalâ€“Organic Framework: A Route toward Structurally Well-Defined Catalysts. Inorganic Chemistry, 2015, 54, 2995-3005.	4.0	161
11	Exchange coupling and magnetic blocking in dilanthanide complexes bridged by the multi-electron redox-active ligand 2,3,5,6-tetra(2-pyridyl)pyrazine. Chemical Science, 2014, 5, 4701-4711.	7.4	151
12	Separation of Xylene Isomers through Multiple Metal Site Interactions in Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 3412-3422.	13.7	150
13	Reversible CO Scavenging via Adsorbate-Dependent Spin State Transitions in an Iron(II)â€“Triazolate Metalâ€“Organic Framework. Journal of the American Chemical Society, 2016, 138, 5594-5602.	13.7	141
14	Recent Progress Towards Light Hydrocarbon Separations Using Metalâ€“Organic Frameworks. Trends in Chemistry, 2019, 1, 159-171.	8.5	141
15	A Trinuclear Radicalâ€Bridged Lanthanide Singleâ€Molecule Magnet. Angewandte Chemie - International Edition, 2017, 56, 10103-10107.	13.8	127
16	Tuning the Adsorption-Induced Phase Change in the Flexible Metalâ€“Organic Framework Co(bdp). Journal of the American Chemical Society, 2016, 138, 15019-15026.	13.7	123
17	Elucidating CO₂ Chemisorption in Diamine-Appended Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 18016-18031.	13.7	107
18	Selective, Tunable O₂ Binding in Cobalt(II)â€“Triazolate/Pyrazolate Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2016, 138, 7161-7170.	13.7	101

#	Article	IF	Citations
19	Force Field Development from Periodic Density Functional Theory Calculations for Gas Separation Applications Using Metalâ€“Organic Frameworks. Journal of Physical Chemistry C, 2016, 120, 12590-12604.	3.1	95
20	Substituent Effects on Exchange Coupling and Magnetic Relaxation in 2,2â€²-Bipyrimidine Radical-Bridged Dilanthanide Complexes. Journal of the American Chemical Society, 2020, 142, 21197-21209.	13.7	86
21	Confinement of atomically defined metal halide sheets in a metalâ€“organic framework. Nature, 2020, 577, 64-68.	27.8	84
22	Enantioselective Recognition of Ammonium Carbamates in a Chiral Metalâ€“Organic Framework. Journal of the American Chemical Society, 2017, 139, 16000-16012.	13.7	82
23	Structural characterization of frameworkâ€“gas interactions in the metalâ€“organic framework Co₂(dobdc) by in situ single-crystal X-ray diffraction. Chemical Science, 2017, 8, 4387-4398.	7.4	80
24	A Terminal Fluoride Ligand Generates Axial Magnetic Anisotropy in Dysprosium Complexes. Angewandte Chemie - International Edition, 2018, 57, 1933-1938.	13.8	78
25	Ruthenium Metalâ€“Organic Frameworks with Different Defect Types: Influence on Porosity, Sorption, and Catalytic Properties. Chemistry - A European Journal, 2016, 22, 14297-14307.	3.3	72
26	Unexpected Diffusion Anisotropy of Carbon Dioxide in the Metalâ€“Organic Framework Zn₂(dobpdc). Journal of the American Chemical Society, 2018, 140, 1663-1673.	13.7	64
27	Taming the Chlorine Radical: Enforcing Steric Control over Chlorine-Radical-Mediated Câ€“H Activation. Journal of the American Chemical Society, 2022, 144, 1464-1472.	13.7	62
28	Network-Forming Liquids from Metalâ€“Bis(acetamide) Frameworks with Low Melting Temperatures. Journal of the American Chemical Society, 2021, 143, 2801-2811.	13.7	60
29	How Radical Are â€œRadicalâ€•Photocatalysts? A Closed-Shell Meisenheimer Complex Is Identified as a Super-Reducing Photoreagent. Journal of the American Chemical Society, 2021, 143, 14352-14359.	13.7	53
30	Metalâ€“Organic Phase-Change Materials for Thermal Energy Storage. Journal of the American Chemical Society, 2020, 142, 19170-19180.	13.7	42
31	Double Hangman Iron Porphyrin and the Effect of Electrostatic Nonbonding Interactions on Carbon Dioxide Reduction. Journal of Physical Chemistry Letters, 2020, 11, 1890-1895.	4.6	42
32	Thermodynamic Separation of 1-Butene from 2-Butene in Metalâ€“Organic Frameworks with Open Metal Sites. Journal of the American Chemical Society, 2019, 141, 18325-18333.	13.7	39
33	Ethylene oligomerization in metalâ€“organic frameworks bearing nickel(ii) 2,2â€²-bipyridine complexes. Faraday Discussions, 2017, 201, 351-367.	3.2	35
34	Slow Magnetic Relaxation in a Dysprosium Ammonia Metallocene Complex. Inorganic Chemistry, 2017, 56, 15049-15056.	4.0	35
35	A Trinuclear Radicalâ€Bridged Lanthanide Singleâ€Molecule Magnet. Angewandte Chemie, 2017, 129, 10237-10241.	2.0	31
36	Influence of Pore Size on Carbon Dioxide Diffusion in Two Isoreticular Metalâ€“Organic Frameworks. Chemistry of Materials, 2020, 32, 3570-3576.	6.7	29

#	Article	IF	Citations
37	Cooperative adsorption of carbon disulfide in diamine-appended metalâ€“organic frameworks. Nature Communications, 2018, 9, 5133.	12.8	28
38	A Terminal Fluoride Ligand Generates Axial Magnetic Anisotropy in Dysprosium Complexes. Angewandte Chemie, 2018, 130, 1951-1956.	2.0	23
39	A computational study of CH₄ storage in porous framework materials with metalated linkers: connecting the atomistic character of CH₄ binding sites to usable capacity. Chemical Science, 2016, 7, 4503-4518.	7.4	21
40	Capturing the Complete Reaction Profile of a Câ€“H Bond Activation. Journal of the American Chemical Society, 2021, 143, 6060-6064.	13.7	21
41	Separation of Xenon and Krypton in the Metalâ€“Organic Frameworks M₂(mâ€dobdc) (M=Co,) Tj ETQq1 1 0.784314 rgBT	2.3	16
42	Fluoroarene Separations in Metalâ€“Organic Frameworks with Two Proximal Mg²⁺ Coordination Sites. Journal of the American Chemical Society, 2021, 143, 1948-1958.	13.7	15
43	Multielectron Câ€“H photoactivation with an Sb(v) oxo corrole. Chemical Communications, 2020, 56, 5247-5250.	4.1	14
44	Metal Insertion in a Methylamine-Functionalized Zirconium Metalâ€“Organic Framework for Enhanced Carbon Dioxide Capture. Inorganic Chemistry, 2017, 56, 4308-4316.	4.0	11
45	Crystallographic characterization of the metalâ€“organic framework Fe₂(bdp)₃ upon reductive cation insertion. Chemical Science, 2020, 11, 9173-9180.	7.4	7
46	Calcium Coordination Solids for pHâ€Triggered Release of Olsalazine. ChemMedChem, 2017, 12, 1739-1742.	3.2	5
47	Synthesis and Characterization of a Tetrapodal NO₄^{4â€“} Ligand and Its Transition Metal Complexes. Inorganic Chemistry, 2016, 55, 7527-7534.	4.0	4
48	Templated Growth of a Spin-Frustrated Cluster Fragment of MnBr2 in a Metalâ€“Organic Framework. Inorganic Chemistry, 2021, 60, 16103-16110.	4.0	0