

Miguel I Gonzalez

List of Publications by Year in descending order

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papers

5,135
citations

126708

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docs citations

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times ranked

6250
citing authors

#	ARTICLE	IF	CITATIONS
1	Taming the Chlorine Radical: Enforcing Steric Control over Chlorine-Radical-Mediated C-H Activation. <i>Journal of the American Chemical Society</i> , 2022, 144, 1464-1472.	6.6	62
2	Fluoroarene Separations in Metal-Organic Frameworks with Two Proximal Mg ²⁺ Coordination Sites. <i>Journal of the American Chemical Society</i> , 2021, 143, 1948-1958.	6.6	15
3	Network-Forming Liquids from Metal-Bis(acetamide) Frameworks with Low Melting Temperatures. <i>Journal of the American Chemical Society</i> , 2021, 143, 2801-2811.	6.6	60
4	Capturing the Complete Reaction Profile of a C-H Bond Activation. <i>Journal of the American Chemical Society</i> , 2021, 143, 6060-6064.	6.6	21
5	How Radical Are σ -Radical-Photocatalysts? A Closed-Shell Meisenheimer Complex Is Identified as a Super-Reducing Photoreagent. <i>Journal of the American Chemical Society</i> , 2021, 143, 14352-14359.	6.6	53
6	Templated Growth of a Spin-Frustrated Cluster Fragment of MnBr ₂ in a Metal-Organic Framework. <i>Inorganic Chemistry</i> , 2021, 60, 16103-16110.	1.9	0
7	Confinement of atomically defined metal halide sheets in a metal-organic framework. <i>Nature</i> , 2020, 577, 64-68.	13.7	84
8	Substituent Effects on Exchange Coupling and Magnetic Relaxation in 2,2'-Bipyrimidine Radical-Bridged Dilanthanide Complexes. <i>Journal of the American Chemical Society</i> , 2020, 142, 21197-21209.	6.6	86
9	Metal-Organic Phase-Change Materials for Thermal Energy Storage. <i>Journal of the American Chemical Society</i> , 2020, 142, 19170-19180.	6.6	42
10	Crystallographic characterization of the metal-organic framework Fe ₂ (bdc) ₃ upon reductive cation insertion. <i>Chemical Science</i> , 2020, 11, 9173-9180.	3.7	7
11	Multielectron C-H photoactivation with an Sb(V) oxo corrole. <i>Chemical Communications</i> , 2020, 56, 5247-5250.	2.2	14
12	Double Hangman Iron Porphyrin and the Effect of Electrostatic Nonbonding Interactions on Carbon Dioxide Reduction. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1890-1895.	2.1	42
13	Influence of Pore Size on Carbon Dioxide Diffusion in Two Isostructural Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2020, 32, 3570-3576.	3.2	29
14	Thermodynamic Separation of 1-Butene from 2-Butene in Metal-Organic Frameworks with Open Metal Sites. <i>Journal of the American Chemical Society</i> , 2019, 141, 18325-18333.	6.6	39
15	Recent Progress Towards Light Hydrocarbon Separations Using Metal-Organic Frameworks. <i>Trends in Chemistry</i> , 2019, 1, 159-171.	4.4	141
16	Separation of Xylene Isomers through Multiple Metal Site Interactions in Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2018, 140, 3412-3422.	6.6	150
17	A Terminal Fluoride Ligand Generates Axial Magnetic Anisotropy in Dysprosium Complexes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 1933-1938.	7.2	78
18	A Terminal Fluoride Ligand Generates Axial Magnetic Anisotropy in Dysprosium Complexes. <i>Angewandte Chemie</i> , 2018, 130, 1951-1956.	1.6	23

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19	Unexpected Diffusion Anisotropy of Carbon Dioxide in the Metal-Organic Framework Zn ₂ (dobpdc). Journal of the American Chemical Society, 2018, 140, 1663-1673.	6.6	64
20	Elucidating CO ₂ Chemisorption in Diamine-Appended Metal-Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 18016-18031.	6.6	107
21	Cooperative adsorption of carbon disulfide in diamine-appended metal-organic frameworks. Nature Communications, 2018, 9, 5133.	5.8	28
22	Separation of Xenon and Krypton in the Metal-Organic Frameworks M ₂ (dobdc) (M=Co, Ni) by Overloading. Journal of the American Chemical Society, 2018, 140, 18016-18031.	1.0	16
23	A Trinuclear Radical-Bridged Lanthanide Single-Molecule Magnet. Angewandte Chemie - International Edition, 2017, 56, 10103-10107.	7.2	127
24	A Trinuclear Radical-Bridged Lanthanide Single-Molecule Magnet. Angewandte Chemie, 2017, 129, 10237-10241.	1.6	31
25	Structural characterization of framework-gas interactions in the metal-organic framework Co ₂ (dobdc) by in situ single-crystal X-ray diffraction. Chemical Science, 2017, 8, 4387-4398.	3.7	80
26	Metal Insertion in a Methylamine-Functionalized Zirconium Metal-Organic Framework for Enhanced Carbon Dioxide Capture. Inorganic Chemistry, 2017, 56, 4308-4316.	1.9	11
27	Ethylene oligomerization in metal-organic frameworks bearing nickel(ii) 2,2'-bipyridine complexes. Faraday Discussions, 2017, 201, 351-367.	1.6	35
28	M ₂ (<i>m</i> -dobdc) (M = Mn, Fe, Co, Ni) Metal-Organic Frameworks as Highly Selective, High-Capacity Adsorbents for Olefin/Paraffin Separations. Journal of the American Chemical Society, 2017, 139, 15363-15370.	6.6	178
29	Enantioselective Recognition of Ammonium Carbamates in a Chiral Metal-Organic Framework. Journal of the American Chemical Society, 2017, 139, 16000-16012.	6.6	82
30	Calcium Coordination Solids for pH-Triggered Release of Olsalazine. ChemMedChem, 2017, 12, 1739-1742.	1.6	5
31	A Diaminopropane-Appended Metal-Organic Framework Enabling Efficient CO ₂ Capture from Coal Flue Gas via a Mixed Adsorption Mechanism. Journal of the American Chemical Society, 2017, 139, 13541-13553.	6.6	206
32	Giant coercivity and high magnetic blocking temperatures for N ₂ 3d ^π radical-bridged dilanthanide complexes upon ligand dissociation. Nature Communications, 2017, 8, 2144.	5.8	273
33	Slow Magnetic Relaxation in a Dysprosium Ammonia Metallocene Complex. Inorganic Chemistry, 2017, 56, 15049-15056.	1.9	35
34	Controlling Cooperative CO ₂ Adsorption in Diamine-Appended Mg ₂ (dobpdc) Metal-Organic Frameworks. Journal of the American Chemical Society, 2017, 139, 10526-10538.	6.6	205
35	Synthesis and Characterization of a Tetrapodal NO ₄ ⁴⁻ Ligand and Its Transition Metal Complexes. Inorganic Chemistry, 2016, 55, 7527-7534.	1.9	4
36	A computational study of CH ₄ storage in porous framework materials with metalated linkers: connecting the atomistic character of CH ₄ binding sites to usable capacity. Chemical Science, 2016, 7, 4503-4518.	3.7	21

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37	Force Field Development from Periodic Density Functional Theory Calculations for Gas Separation Applications Using Metal-Organic Frameworks. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12590-12604.	1.5	95
38	Selective, Tunable O ₂ Binding in Cobalt(II)-Triazolate/Pyrazolate Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2016, 138, 7161-7170.	6.6	101
39	Reversible CO Scavenging via Adsorbate-Dependent Spin State Transitions in an Iron(II)-Triazolate Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2016, 138, 5594-5602.	6.6	141
40	Ruthenium Metal-Organic Frameworks with Different Defect Types: Influence on Porosity, Sorption, and Catalytic Properties. <i>Chemistry - A European Journal</i> , 2016, 22, 14297-14307.	1.7	72
41	Tuning the Adsorption-Induced Phase Change in the Flexible Metal-Organic Framework Co(bdp). <i>Journal of the American Chemical Society</i> , 2016, 138, 15019-15026.	6.6	123
42	Hydrogen Storage in the Expanded Pore Metal-Organic Frameworks M ₂ (dobpdc) (M = Mg, Ni, Co, Zn). <i>Journal of the American Chemical Society</i> , 2015, 137, 15703-15711.	3.2	171
43	Electronic Conductivity, Ferrimagnetic Ordering, and Reductive Insertion Mediated by Organic Mixed-Valence in a Ferric Semiquinoid Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2015, 137, 15703-15711.	6.6	329
44	Single-Crystal-to-Single-Crystal Metalation of a Metal-Organic Framework: A Route toward Structurally Well-Defined Catalysts. <i>Inorganic Chemistry</i> , 2015, 54, 2995-3005.	1.9	161
45	Methane storage in flexible metal-organic frameworks with intrinsic thermal management. <i>Nature</i> , 2015, 527, 357-361.	13.7	817
46	Exchange coupling and magnetic blocking in dilanthanide complexes bridged by the multi-electron redox-active ligand 2,3,5,6-tetra(2-pyridyl)pyrazine. <i>Chemical Science</i> , 2014, 5, 4701-4711.	3.7	151
47	Comprehensive study of carbon dioxide adsorption in the metal-organic frameworks M ₂ (dobdc) (M = Mg, Mn, Fe, Co, Ni, Cu, Zn). <i>Chemical Science</i> , 2014, 5, 4569-4581.	3.7	342
48	Tristability in a Light-Actuated Single-Molecule Magnet. <i>Journal of the American Chemical Society</i> , 2013, 135, 15880-15884.	6.6	178