Jorge A R Navarro

List of Publications by Citations

85 papers	5,188 citations	40 h-index	71 g-index
88 ext. papers	5,751 ext. citations	9 avg, IF	5.67 L-index

#	Paper	IF	Citations
85	Toxic gas removal--metal-organic frameworks for the capture and degradation of toxic gases and vapours. *Chemical Society Reviews*, **2014**, 43, 5419-30	58.5	715
84	Capture of nerve agents and mustard gas analogues by hydrophobic robust MOF-5 type metal-organic frameworks. *Journal of the American Chemical Society*, **2011**, 133, 11888-91	16.4	235
83	Textile/metal-organic-framework composites as self-detoxifying filters for chemical-warfare agents. *Angewandte Chemie - International Edition*, **2015**, 54, 6790-4	16.4	234
82	Cooperative Guest Inclusion by a Zeolite Analogue Coordination Polymer. Sorption Behavior with Gases and Amine and Group 1 Metal Salts. *Journal of the American Chemical Society*, **2001**, 123, 383-387	16.4	230
81	Highly hydrophobic isoreticular porous metal-organic frameworks for the capture of harmful volatile organic compounds. *Angewandte Chemie - International Edition*, **2013**, 52, 8290-4	16.4	205
80	Data-driven design of metal-organic frameworks for wet flue gas CO capture. *Nature*, **2019**, 576, 253-256	50.4	192
79	Tuning the adsorption properties of isoreticular pyrazolate-based metal-organic frameworks through ligand modification. *Journal of the American Chemical Society*, **2012**, 134, 12830-43	16.4	167
78	Cation-exchange porosity tuning in anionic metal-organic frameworks for the selective separation of gases and vapors and for catalysis. *Angewandte Chemie - International Edition*, **2010**, 49, 7308-11	16.4	145
77	H2, N2, CO, and CO2 sorption properties of a series of robust sodalite-type microporous coordination polymers. *Inorganic Chemistry*, **2006**, 45, 2397-9	5.1	144
76	Guest-induced modification of a magnetically active ultramicroporous, gismondine-like, copper(II) coordination network. *Journal of the American Chemical Society*, **2008**, 130, 3978-84	16.4	140
75	Ionic Conductivity and Potential Application for Fuel Cell of a Modified Imine-Based Covalent Organic Framework. *Journal of the American Chemical Society*, **2017**, 139, 10079-10086	16.4	135
74	Nanoscaled Zinc Pyrazolate Metal-Organic Frameworks as Drug-Delivery Systems. *Inorganic Chemistry*, **2016**, 55, 2650-63	5.1	116
73	Functionalisation of MOF open metal sites with pendant amines for CO2 capture. *Journal of Materials Chemistry*, **2012**, 22, 10155		105
72	Tetranuclear coordination assemblies based on half-sandwich ruthenium(II) complexes: noncovalent binding to DNA and cytotoxicity. *Inorganic Chemistry*, **2009**, 48, 7413-20	5.1	105
71	Selective sulfur dioxide adsorption on crystal defect sites on an isoreticular metal organic framework series. *Nature Communications*, **2017**, 8, 14457	17.4	101
70	Polymorphic coordination networks responsive to CO2, moisture, and thermal stimuli: porous cobalt(II) and zinc(II) fluoropyrimidinolates. *Chemistry - A European Journal*, **2008**, 14, 9890-901	4.8	82
69	First Example of Equatorial−Equatorial Disposition of End-to-End Thiocyanate Bridges in a Polynuclear Copper(II) Complex and Its Relation to the Very Efficient Transmission of the Magnetic Interaction. *Inorganic Chemistry*, **1997**, 36, 4988-4991	5.1	79

68	Chemical Warfare Agents Detoxification Properties of Zirconium Metal-Organic Frameworks by Synergistic Incorporation of Nucleophilic and Basic Sites. *ACS Applied Materials & Interfaces*, **2017**, 9, 23967-23973	9.5	76
67	cis-[PtCl2(4,7-H-5-methyl-7-oxo[1,2,4]triazolo[1,5-a]pyrimidine)2]: a sterically restrictive new cisplatin analogue. Reaction kinetics with model nucleobases, DNA interaction studies, antitumor activity, and structure-activity relationships. *Journal of Medicinal Chemistry*, **1998**, 41, 332-8	8.3	76
66	Crystalline fibres of a covalent organic framework through bottom-up microfluidic synthesis. *Chemical Communications*, **2016**, 52, 9212-5	5.8	73
65	Mineralomimetic sodalite- and muscovite-type coordination frameworks. Dynamic crystal-to-crystal interconversion processes sensitive to ion pair recognition. *Journal of the American Chemical Society*, **2004**, 126, 3014-5	16.4	69
64	Chiral pyrimidine metallacalixarenes: synthesis, structure and host-guest chemistry. *Chemistry - A European Journal*, **2003**, 9, 4414-21	4.8	67
63	A soft copper(II) porous coordination polymer with unprecedented aqua bridge and selective adsorption properties. *Chemistry - A European Journal*, **2012**, 18, 13117-25	4.8	62
62	Study of the biological effects and DNA damage exerted by a new dipalladium-Hmtpo complex on human cancer cells. *Journal of Inorganic Biochemistry*, **2002**, 90, 51-60	4.2	61
61	Improved CO2 Capture from Flue Gas by Basic Sites, Charge Gradients, and Missing Linker Defects on Nickel Face Cubic Centered MOFs. *Advanced Functional Materials*, **2014**, 24, 6130-6135	15.6	59
60	[(Ethylenediamine)Pt(uracilate)](4), a Metal Analogue of Calix[4]arene. Coordination and Anion Host-Guest Chemistry Related to Its Conformational Dynamics. *Inorganic Chemistry*, **1999**, 38, 426-432	5.1	56
59	1D-2D-3D Transformation Synthesis of Hierarchical Metal-Organic Framework Adsorbent for Multicomponent Alkane Separation. *Journal of the American Chemical Society*, **2017**, 139, 819-828	16.4	54
58	Binuclear Platinum(II) Triazolopyrimidine Bridged Complexes. Preparation, Crystal Structure, NMR Spectroscopy, and ab Initio MO Investigation on the Bonding Nature of the Pt(II)□□Pt(II) Interaction in the Model Compound {Pt2[NHCHN(C(CH2)(CH3))]4}. *Inorganic Chemistry*, **1996**, 35, 7829-7835	5.1	52
57	Highly Hydrophobic Isoreticular Porous Metal□Organic Frameworks for the Capture of Harmful Volatile Organic Compounds. *Angewandte Chemie*, **2013**, 125, 8448-8452	3.6	49
56	Design and non-covalent DNA binding of platinum(II) metallacalix[4]arenes. *Chemistry - A European Journal*, **2007**, 13, 5075-81	4.8	49
55	Self-assembly of palladium(II) and platinum(II) complexes of 2-hydroxypyrimidine to novel metallacalix[4]arenes. Receptor properties through multiple H-bonding interactions. *Inorganic Chemistry*, **2000**, 39, 2301-5	5.1	48
54	Study of the incorporation and release of the non-conventional half-sandwich ruthenium(II) metallodrug RAPTA-C on a robust MOF. *Chemical Communications*, **2011**, 47, 11751-3	5.8	47
53	Manganese(II) pyrimidine-4,6-dicarboxylates: synthetic, structural, magnetic, and adsorption insights. *Inorganic Chemistry*, **2008**, 47, 5267-77	5.1	45
52	Borderline microporous□ultramicroporous palladium(II) coordination polymer networks. Effect of pore functionalisation on gas adsorption properties. *Journal of Materials Chemistry*, **2007**, 17, 1939-1946		45
51	A flexible pro-porous coordination polymer: non-conventional synthesis and separation properties towards CO(2)/CH(4) mixtures. *Chemistry - A European Journal*, **2010**, 16, 931-7	4.8	44

50	Discovery of an Optimal Porous Crystalline Material for the Capture of Chemical Warfare Agents. *Chemistry of Materials*, **2018**, 30, 4571-4579	9.6	43
49	Molecular architecture of redox-active half-sandwich Ru(II) cyclic assemblies. Interactions with biomolecules and anticancer activity. *CrystEngComm*, **2010**, 12, 2343	3.3	43
48	A palladium metallacalix[4]arene capped with a gadolinium atom. *Chemical Communications*, **2000**, 235-236	5.6	43
47	Metal-Organic Frameworks Containing Missing-Linker Defects Leading to High Hydroxide-Ion Conductivity. *Chemistry - A European Journal*, **2016**, 22, 1646-51	4.8	41
46	Formation of heterotopic metallacalix[n]arenes (n=3, 4, 6) containing ethylenediaminepalladium(II) metal fragments and 4,7-phenanthroline and 2-pyrimidinolate bridges. Synthesis, structure and host-guest chemistry. *Dalton Transactions*, **2004**, 2780-5	4.3	41
45	A Recyclable Metal-Organic Framework as a Dual Detector and Adsorbent for Ammonia. *Chemistry - A European Journal*, **2017**, 23, 13602-13606	4.8	40
44	Rich Structural and Magnetic Chemistry of Cobalt(II) Pyrimidin-2-olate and Pyrimidin-4-olate Complexes. Synthesis, X-ray Powder Diffraction Studies, and Thermal Behavior. *Chemistry of Materials*, **2003**, 15, 2153-2160	9.6	39
43	Influence of anions and crystallisation conditions on the solid-state structure of some binuclear silver(I) complexes supported by triazolopyrimidine bridges. *Journal of the Chemical Society Dalton Transactions*, **1998**, 901-904		36
42	Kinetically and Thermodynamically Controlled Formation of Homo- and Heterobinuclear Platinum(II) and Palladium(II) Complexes Supported by Bidentate Triazolopyrimidine Ligands. *Inorganic Chemistry*, **1997**, 36, 3277-3283	5.1	34
41	Textile/Metal□rganic-Framework Composites as Self-Detoxifying Filters for Chemical-Warfare Agents. *Angewandte Chemie*, **2015**, 127, 6894-6898	3.6	33
40	Mononucleotide recognition by cyclic trinuclear palladium(II) complexes containing 4,7-phenanthroline N,N bridges. *Dalton Transactions*, **2004**, 1563-6	4.3	33
39	[(Ethylenediamine)Pt(uracilate)]4 □A Metal Analogue of Calix[4]arene: Coordination Chemistry of Its 1,3-Alternate Conformer towards First-Row Transition-Metal Ions **2000**, 2000, 147-151		33
38	Tuning the structural and magnetic properties of thermally robust coordination polymers. *Inorganic Chemistry*, **2006**, 45, 7612-20	5.1	31
37	Magnesium Exchanged Zirconium Metal-Organic Frameworks with Improved Detoxification Properties of Nerve Agents. *Journal of the American Chemical Society*, **2019**, 141, 11801-11805	16.4	30
36	Preparation and structural characterization of a series of ternarypalladium(II) binuclear complexes containingtriazolopyrimidinate bridges. *Journal of the Chemical Society Dalton Transactions*, **1997**, 1001-1006		29
35	A Highly Water-Stable -Carborane-Based Copper Metal-Organic Framework for Efficient High-Temperature Butanol Separation. *Journal of the American Chemical Society*, **2020**, 142, 8299-8311	16.4	27
34	Selective One-Pot Two-Step C□ Bond Formation using Metal□rganic Frameworks with Mild Basicity as Heterogeneous Catalysts. *ChemCatChem*, **2017**, 9, 4019-4023	5.2	26
33	Thermally induced interconversions of metal-pyrimidine-4,6-dicarboxylate polymers: a structural, spectroscopic, and magnetic study. *Inorganic Chemistry*, **2009**, 48, 3087-94	5.1	26

32	Biporous Metal-Organic Framework with Tunable CO/CH Separation Performance Facilitated by Intrinsic Flexibility. *ACS Applied Materials & Interfaces*, **2018**, 10, 36144-36156	9.5	26
31	Cation Exchange Strategy for the Encapsulation of a Photoactive CO-Releasing Organometallic Molecule into Anionic Porous Frameworks. *Inorganic Chemistry*, **2016**, 55, 6525-31	5.1	25
30	Cation-Exchange Porosity Tuning in Anionic Metal Organic Frameworks for the Selective Separation of Gases and Vapors and for Catalysis. *Angewandte Chemie*, **2010**, 122, 7466-7469	3.6	25
29	Variation of Structures of Coordination Polymers of Ca(II), Sr(II), and Ba(II) with a Tripodal Ligand: Synthesis, Structural, and Gas Adsorption Studies. *Crystal Growth and Design*, **2008**, 8, 1554-1558	3.5	23
28	From simple trans-[a2Pt(2-hydroxypyrimidine)2]2+ (a = NH3, CH3NH2) complexes to structures of higher complexity. Molecular recognition of 2-aminopyrimidine by hydrogen bond formation and reactivity toward additional metal ions. *Inorganic Chemistry*, **2000**, 39, 1059-65	5.1	23
27	Rational Design of Noncovalent Diamondoid Microporous Materials for Low-Energy Separation of C-Hydrocarbons. *Journal of the American Chemical Society*, **2018**, 140, 15031-15037	16.4	23
26	RAPTA-C incorporation and controlled delivery from MIL-100(Fe) nanoparticles. *New Journal of Chemistry*, **2016**, 40, 5690-5694	3.6	22
25	Coordination frameworks containing the pyrimidin-4-olate ligand. Synthesis, thermal, magnetic, and ab initio XRPD structural characterization of nickel and zinc derivatives. *Inorganic Chemistry*, **2004**, 43, 473-81	5.1	22
24	The Carbonation of Wollastonite: A Model Reaction to Test Natural and Biomimetic Catalysts for Enhanced CO2 Sequestration. *Minerals (Basel, Switzerland)*, **2018**, 8, 209	2.4	19
23	Aluminum Doped MCM-41 Nanoparticles as Platforms for the Dual Encapsulation of a CO-Releasing Molecule and Cisplatin. *Inorganic Chemistry*, **2017**, 56, 10474-10480	5.1	19
22	Electrochemically and photochemically active Palladium(II) heterotopic metallacalix[3]arenes. *Chemical Communications*, **2008**, 3735-7	5.8	16
21	Structural and magnetic properties of layered copper(II) coordination polymers intercalating s and f metal ions. *Inorganic Chemistry*, **2007**, 46, 2988-97	5.1	15
20	Heteroleptic pyrimidine-2-olate and 4,4[prime or minute]-bipyridine copper(II) layered metal-organic frameworks with swelling properties. *Dalton Transactions*, **2005**, 1743-6	4.3	15
19	The dynamic art of growing COF crystals. *Science*, **2018**, 361, 35	33.3	15
18	Structure, spectroscopic properties, and reversible solid-to-solid reactions of metal complexes of 5-nitro-pyrimidin-2-olate. *Inorganic Chemistry*, **2005**, 44, 1472-81	5.1	14
17	BioMOF@cellulose fabric composites for bioactive molecule delivery. *Journal of Inorganic Biochemistry*, **2019**, 201, 110818	4.2	13
16	Multifunctionality in an Ion-Exchanged Porous Metal-Organic Framework. *Journal of the American Chemical Society*, **2021**, 143, 1365-1376	16.4	13
15	Catalytically Active Imine-based Covalent Organic Frameworks for Detoxification of Nerve Agent Simulants in Aqueous Media. *Materials*, **2019**, 12,	3.5	11

14	Mixed-Metal Cerium/Zirconium MOFs with Improved Nerve Agent Detoxification Properties. *Inorganic Chemistry*, **2020**, 59, 16160-16167	5.1	9
13	A highly porous interpenetrated MOF-5-type network based on bipyrazolate linkers. *CrystEngComm* , **2013**, 15, 9352	3.3	9
12	Cyclic tetranuclear half-sandwich ruthenium(II) complexes with 4,7-phenanthroline and hydroxo bridges: crystal structure, solution behaviour and binding to nucleosides. *Journal of Inorganic Biochemistry*, **2008**, 102, 1025-32	4.2	8
11	Impact of Pore Size and Defects on the Selective Adsorption of Acetylene in Alkyne-Functionalized Nickel(II)-Pyrazolate-Based MOFs. *Chemistry - A European Journal*, **2021**, 27, 11837-11844	4.8	5
10	Metal-organic frameworks for the removal of the emerging contaminant atenolol under real conditions. *Dalton Transactions*, **2021**, 50, 2493-2500	4.3	5
9	Impact of Defects on Pyrazolate Based Metal Organic Frameworks. *Israel Journal of Chemistry*, **2018** , 58, 1112-1118	3.4	4
8	Biomimetic 1-Aminocyclopropane-1-Carboxylic Acid Oxidase Ethylene Production by MIL-100(Fe)-Based Materials. *ACS Applied Materials & Interfaces*, **2019**, 11, 34053-34058	9.5	3
7	Layer-by-Layer Integration of Zirconium Metal-Organic Frameworks onto Activated Carbon Spheres and Fabrics with Model Nerve Agent Detoxification Properties. *ACS Applied Materials & Interfaces*, **2021**, 13, 50491-50496	9.5	3
6	MOFs for the Capture and Degradation of Chemical Warfare Agents **2018**, 199-221		2
5	HKUST-1 Metal□Organic Framework Nanoparticle/Graphene Oxide Nanocomposite Aerogels for CO2 and CH4 Adsorption and Separation. *ACS Applied Nano Materials*,	5.6	2
4	Efficient hexane isomers separation in isoreticular bipyrazolate metal-organic frameworks: The role of pore functionalization. *Nano Research*, **2021**, 14, 532-540	10	2
3	Preparation and Characterization of Solid Co(II) Pyrimidinolates in a Multifaceted Undergraduate Laboratory Experiment. *Journal of Chemical Education*, **2008**, 85, 422	2.4	1
2	Diffusion Control in Single-Site Zinc Reticular Amination Catalysts. *Inorganic Chemistry*, **2020**, 59, 18168-18173	5.1	1
1	Platinum Group Metal□Organic Frameworks **2016**, 203-230		