

Jorge A R Navarro

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Layer-by-Layer Integration of Zirconium Metal-Organic Frameworks onto Activated Carbon Spheres and Fabrics with Model Nerve Agent Detoxification Properties. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 50491-50496	9.5	3
84	Impact of Pore Size and Defects on the Selective Adsorption of Acetylene in Alkyne-Functionalized Nickel(II)-Pyrazolate-Based MOFs. <i>Chemistry - A European Journal</i> , 2021 , 27, 11837-11844	4.8	5
83	Efficient hexane isomers separation in isorecticular bipyrazolate metal-organic frameworks: The role of pore functionalization. <i>Nano Research</i> , 2021 , 14, 532-540	10	2
82	Metal-organic frameworks for the removal of the emerging contaminant atenolol under real conditions. <i>Dalton Transactions</i> , 2021 , 50, 2493-2500	4.3	5
81	Multifunctionality in an Ion-Exchanged Porous Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2021 , 143, 1365-1376	16.4	13
80	Mixed-Metal Cerium/Zirconium MOFs with Improved Nerve Agent Detoxification Properties. <i>Inorganic Chemistry</i> , 2020 , 59, 16160-16167	5.1	9
79	A Highly Water-Stable -Carborane-Based Copper Metal-Organic Framework for Efficient High-Temperature Butanol Separation. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8299-8311	16.4	27
78	Diffusion Control in Single-Site Zinc Reticular Amination Catalysts. <i>Inorganic Chemistry</i> , 2020 , 59, 18168-18173	11.7	1
77	Biomimetic 1-Aminocyclopropane-1-Carboxylic Acid Oxidase Ethylene Production by MIL-100(Fe)-Based Materials. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 34053-34058	9.5	3
76	BioMOF@cellulose fabric composites for bioactive molecule delivery. <i>Journal of Inorganic Biochemistry</i> , 2019 , 201, 110818	4.2	13
75	Catalytically Active Imine-based Covalent Organic Frameworks for Detoxification of Nerve Agent Simulants in Aqueous Media. <i>Materials</i> , 2019 , 12,	3.5	11
74	Magnesium Exchanged Zirconium Metal-Organic Frameworks with Improved Detoxification Properties of Nerve Agents. <i>Journal of the American Chemical Society</i> , 2019 , 141, 11801-11805	16.4	30
73	Data-driven design of metal-organic frameworks for wet flue gas CO capture. <i>Nature</i> , 2019 , 576, 253-256	50.4	192
72	MOFs for the Capture and Degradation of Chemical Warfare Agents 2018 , 199-221		2
71	The Carbonation of Wollastonite: A Model Reaction to Test Natural and Biomimetic Catalysts for Enhanced CO ₂ Sequestration. <i>Minerals (Basel, Switzerland)</i> , 2018 , 8, 209	2.4	19
70	Discovery of an Optimal Porous Crystalline Material for the Capture of Chemical Warfare Agents. <i>Chemistry of Materials</i> , 2018 , 30, 4571-4579	9.6	43
69	Biporous Metal-Organic Framework with Tunable CO/CH Separation Performance Facilitated by Intrinsic Flexibility. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 36144-36156	9.5	26

68	Impact of Defects on Pyrazolate Based Metal Organic Frameworks. <i>Israel Journal of Chemistry</i> , 2018 , 58, 1112-1118	3.4	4
67	Rational Design of Noncovalent Diamondoid Microporous Materials for Low-Energy Separation of C-Hydrocarbons. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15031-15037	16.4	23
66	The dynamic art of growing COF crystals. <i>Science</i> , 2018 , 361, 35	33.3	15
65	Selective sulfur dioxide adsorption on crystal defect sites on an isorecticular metal organic framework series. <i>Nature Communications</i> , 2017 , 8, 14457	17.4	101
64	Selective One-Pot Two-Step C-C Bond Formation using Metal-Organic Frameworks with Mild Basicity as Heterogeneous Catalysts. <i>ChemCatChem</i> , 2017 , 9, 4019-4023	5.2	26
63	1D-2D-3D Transformation Synthesis of Hierarchical Metal-Organic Framework Adsorbent for Multicomponent Alkane Separation. <i>Journal of the American Chemical Society</i> , 2017 , 139, 819-828	16.4	54
62	Aluminum Doped MCM-41 Nanoparticles as Platforms for the Dual Encapsulation of a CO-Releasing Molecule and Cisplatin. <i>Inorganic Chemistry</i> , 2017 , 56, 10474-10480	5.1	19
61	A Recyclable Metal-Organic Framework as a Dual Detector and Adsorbent for Ammonia. <i>Chemistry - A European Journal</i> , 2017 , 23, 13602-13606	4.8	40
60	Chemical Warfare Agents Detoxification Properties of Zirconium Metal-Organic Frameworks by Synergistic Incorporation of Nucleophilic and Basic Sites. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 23967-23973	9.5	76
59	Ionic Conductivity and Potential Application for Fuel Cell of a Modified Imine-Based Covalent Organic Framework. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10079-10086	16.4	135
58	Platinum Group Metal-Organic Frameworks 2016 , 203-230		
57	Crystalline fibres of a covalent organic framework through bottom-up microfluidic synthesis. <i>Chemical Communications</i> , 2016 , 52, 9212-5	5.8	73
56	Cation Exchange Strategy for the Encapsulation of a Photoactive CO-Releasing Organometallic Molecule into Anionic Porous Frameworks. <i>Inorganic Chemistry</i> , 2016 , 55, 6525-31	5.1	25
55	Metal-Organic Frameworks Containing Missing-Linker Defects Leading to High Hydroxide-Ion Conductivity. <i>Chemistry - A European Journal</i> , 2016 , 22, 1646-51	4.8	41
54	Nanoscaled Zinc Pyrazolate Metal-Organic Frameworks as Drug-Delivery Systems. <i>Inorganic Chemistry</i> , 2016 , 55, 2650-63	5.1	116
53	RAPTA-C incorporation and controlled delivery from MIL-100(Fe) nanoparticles. <i>New Journal of Chemistry</i> , 2016 , 40, 5690-5694	3.6	22
52	Textile/metal-organic-framework composites as self-detoxifying filters for chemical-warfare agents. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 6790-4	16.4	234
51	Textile/Metal-Organic-Framework Composites as Self-Detoxifying Filters for Chemical-Warfare Agents. <i>Angewandte Chemie</i> , 2015 , 127, 6894-6898	3.6	33

50	Toxic gas removal--metal-organic frameworks for the capture and degradation of toxic gases and vapours. <i>Chemical Society Reviews</i> , 2014 , 43, 5419-30	58.5	715
49	Improved CO ₂ Capture from Flue Gas by Basic Sites, Charge Gradients, and Missing Linker Defects on Nickel Face Cubic Centered MOFs. <i>Advanced Functional Materials</i> , 2014 , 24, 6130-6135	15.6	59
48	A highly porous interpenetrated MOF-5-type network based on bipyrazolate linkers. <i>CrystEngComm</i> , 2013 , 15, 9352	3.3	9
47	Highly hydrophobic isorecticular porous metal-organic frameworks for the capture of harmful volatile organic compounds. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8290-4	16.4	205
46	Highly Hydrophobic Isorecticular Porous Metal-Organic Frameworks for the Capture of Harmful Volatile Organic Compounds. <i>Angewandte Chemie</i> , 2013 , 125, 8448-8452	3.6	49
45	A soft copper(II) porous coordination polymer with unprecedented aqua bridge and selective adsorption properties. <i>Chemistry - A European Journal</i> , 2012 , 18, 13117-25	4.8	62
44	Tuning the adsorption properties of isorecticular pyrazolate-based metal-organic frameworks through ligand modification. <i>Journal of the American Chemical Society</i> , 2012 , 134, 12830-43	16.4	167
43	Functionalisation of MOF open metal sites with pendant amines for CO ₂ capture. <i>Journal of Materials Chemistry</i> , 2012 , 22, 10155		105
42	Capture of nerve agents and mustard gas analogues by hydrophobic robust MOF-5 type metal-organic frameworks. <i>Journal of the American Chemical Society</i> , 2011 , 133, 11888-91	16.4	235
41	Study of the incorporation and release of the non-conventional half-sandwich ruthenium(II) metallodrug RAPTA-C on a robust MOF. <i>Chemical Communications</i> , 2011 , 47, 11751-3	5.8	47
40	Molecular architecture of redox-active half-sandwich Ru(II) cyclic assemblies. Interactions with biomolecules and anticancer activity. <i>CrystEngComm</i> , 2010 , 12, 2343	3.3	43
39	A flexible pro-porous coordination polymer: non-conventional synthesis and separation properties towards CO ₂ /CH ₄ mixtures. <i>Chemistry - A European Journal</i> , 2010 , 16, 931-7	4.8	44
38	Cation-Exchange Porosity Tuning in Anionic Metal-Organic Frameworks for the Selective Separation of Gases and Vapors and for Catalysis. <i>Angewandte Chemie</i> , 2010 , 122, 7466-7469	3.6	25
37	Cation-exchange porosity tuning in anionic metal-organic frameworks for the selective separation of gases and vapors and for catalysis. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7308-11	16.4	145
36	Tetranuclear coordination assemblies based on half-sandwich ruthenium(II) complexes: noncovalent binding to DNA and cytotoxicity. <i>Inorganic Chemistry</i> , 2009 , 48, 7413-20	5.1	105
35	Thermally induced interconversions of metal-pyrimidine-4,6-dicarboxylate polymers: a structural, spectroscopic, and magnetic study. <i>Inorganic Chemistry</i> , 2009 , 48, 3087-94	5.1	26
34	Guest-induced modification of a magnetically active ultramicroporous, gismondine-like, copper(II) coordination network. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3978-84	16.4	140
33	Electrochemically and photochemically active Palladium(II) heterotopic metallacalix[3]arenes. <i>Chemical Communications</i> , 2008 , 3735-7	5.8	16

32	Manganese(II) pyrimidine-4,6-dicarboxylates: synthetic, structural, magnetic, and adsorption insights. <i>Inorganic Chemistry</i> , 2008 , 47, 5267-77	5.1	45
31	Variation of Structures of Coordination Polymers of Ca(II), Sr(II), and Ba(II) with a Tripodal Ligand: Synthesis, Structural, and Gas Adsorption Studies. <i>Crystal Growth and Design</i> , 2008 , 8, 1554-1558	3.5	23
30	Preparation and Characterization of Solid Co(II) Pyrimidinolates in a Multifaceted Undergraduate Laboratory Experiment. <i>Journal of Chemical Education</i> , 2008 , 85, 422	2.4	1
29	Polymorphic coordination networks responsive to CO ₂ , moisture, and thermal stimuli: porous cobalt(II) and zinc(II) fluoropyrimidinolates. <i>Chemistry - A European Journal</i> , 2008 , 14, 9890-901	4.8	82
28	Cyclic tetranuclear half-sandwich ruthenium(II) complexes with 4,7-phenanthroline and hydroxo bridges: crystal structure, solution behaviour and binding to nucleosides. <i>Journal of Inorganic Biochemistry</i> , 2008 , 102, 1025-32	4.2	8
27	Structural and magnetic properties of layered copper(II) coordination polymers intercalating s and f metal ions. <i>Inorganic Chemistry</i> , 2007 , 46, 2988-97	5.1	15
26	Borderline microporous/ultramicroporous palladium(II) coordination polymer networks. Effect of pore functionalisation on gas adsorption properties. <i>Journal of Materials Chemistry</i> , 2007 , 17, 1939-1946		45
25	Design and non-covalent DNA binding of platinum(II) metallacalix[4]arenes. <i>Chemistry - A European Journal</i> , 2007 , 13, 5075-81	4.8	49
24	Tuning the structural and magnetic properties of thermally robust coordination polymers. <i>Inorganic Chemistry</i> , 2006 , 45, 7612-20	5.1	31
23	H ₂ , N ₂ , CO, and CO ₂ sorption properties of a series of robust sodalite-type microporous coordination polymers. <i>Inorganic Chemistry</i> , 2006 , 45, 2397-9	5.1	144
22	Structure, spectroscopic properties, and reversible solid-to-solid reactions of metal complexes of 5-nitro-pyrimidin-2-olate. <i>Inorganic Chemistry</i> , 2005 , 44, 1472-81	5.1	14
21	Heteroleptic pyrimidine-2-olate and 4,4[prime or minute]-bipyridine copper(II) layered metal-organic frameworks with swelling properties. <i>Dalton Transactions</i> , 2005 , 1743-6	4.3	15
20	Coordination frameworks containing the pyrimidin-4-olate ligand. Synthesis, thermal, magnetic, and ab initio XRPD structural characterization of nickel and zinc derivatives. <i>Inorganic Chemistry</i> , 2004 , 43, 473-81	5.1	22
19	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. <i>Dalton Transactions</i> , 2004 , 2780-5	4.3	41
18	Mononucleotide recognition by cyclic trinuclear palladium(II) complexes containing 4,7-phenanthroline N,N bridges. <i>Dalton Transactions</i> , 2004 , 1563-6	4.3	33
17	Mineralomimetic sodalite- and muscovite-type coordination frameworks. Dynamic crystal-to-crystal interconversion processes sensitive to ion pair recognition. <i>Journal of the American Chemical Society</i> , 2004 , 126, 3014-5	16.4	69
16	Chiral pyrimidine metallacalixarenes: synthesis, structure and host-guest chemistry. <i>Chemistry - A European Journal</i> , 2003 , 9, 4414-21	4.8	67
15	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. <i>Chemistry of Materials</i> , 2003 , 15, 2153-2160	9.6	39

14	Study of the biological effects and DNA damage exerted by a new dipalladium-Hmtpo complex on human cancer cells. <i>Journal of Inorganic Biochemistry</i> , 2002 , 90, 51-60	4.2	61
13	Cooperative Guest Inclusion by a Zeolite Analogue Coordination Polymer. Sorption Behavior with Gases and Amine and Group 1 Metal Salts. <i>Journal of the American Chemical Society</i> , 2001 , 123, 383-387	16.4	230
12	[(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
11	A palladium metallacalix[4]arene capped with a gadolinium atom. <i>Chemical Communications</i> , 2000 , 235-236	5.3	43
10	From simple trans-[a ₂ Pt(2-hydroxypyrimidine) ₂] ₂ ⁺ (a = NH ₃ , CH ₃ NH ₂) complexes to structures of higher complexity. Molecular recognition of 2-aminopyrimidine by hydrogen bond formation and reactivity toward additional metal ions. <i>Inorganic Chemistry</i> , 2000 , 39, 1059-65	5.1	23
9	Self-assembly of palladium(II) and platinum(II) complexes of 2-hydroxypyrimidine to novel metallacalix[4]arenes. Receptor properties through multiple H-bonding interactions. <i>Inorganic Chemistry</i> , 2000 , 39, 2301-5	5.1	48
8	[(Ethylenediamine)Pt(uracilate)] ₄ , a Metal Analogue of Calix[4]arene. Coordination and Anion Host-Guest Chemistry Related to Its Conformational Dynamics. <i>Inorganic Chemistry</i> , 1999 , 38, 426-432	5.1	56
7	Influence of anions and crystallisation conditions on the solid-state structure of some binuclear silver(I) complexes supported by triazolopyrimidine bridges. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998 , 901-904		36
6	cis-[PtCl ₂ (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. <i>Journal of Medicinal Chemistry</i> , 1998 , 41, 332-8	8.3	76
5	Preparation and structural characterization of a series of ternary palladium(II) binuclear complexes containing triazolopyrimidinate bridges. <i>Journal of the Chemical Society Dalton Transactions</i> , 1997 , 1001-1006		29
4	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. <i>Inorganic Chemistry</i> , 1997 , 36, 4988-4991	5.1	79
3	Kinetically and Thermodynamically Controlled Formation of Homo- and Heterobinuclear Platinum(II) and Palladium(II) Complexes Supported by Bidentate Triazolopyrimidine Ligands. <i>Inorganic Chemistry</i> , 1997 , 36, 3277-3283	5.1	34
2	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 {Pt ₂ [NHCHN(C(CH ₂)(CH ₃))] ₄ }. <i>Inorganic Chemistry</i> , 1996 , 35, 7829-7835	5.1	52
1	HKUST-1 Metal-Organic Framework Nanoparticle/Graphene Oxide Nanocomposite Aerogels for CO ₂ and CH ₄ Adsorption and Separation. <i>ACS Applied Nano Materials</i> ,	5.6	2