

Jorge A R Navarro

List of Publications by Year in descending order

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papers

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66234

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88
all docs

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docs citations

88
times ranked

7163
citing authors

#	ARTICLE	IF	CITATIONS
1	Toxic gas removal of metal-organic frameworks for the capture and degradation of toxic gases and vapours. <i>Chemical Society Reviews</i> , 2014, 43, 5419-5430.	18.7	838
2	Data-driven design of metal-organic frameworks for wet flue gas CO ₂ capture. <i>Nature</i> , 2019, 576, 253-256.	13.7	438
3	Textile/Metal-Organic Framework Composites as Self-Detoxifying Filters for Chemical Warfare Agents. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6790-6794.	7.2	291
4	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, 11888-11891.	6.6	270
5	Highly Hydrophobic Isoreticular Porous Metal-Organic Frameworks for the Capture of Harmful Volatile Organic Compounds. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8290-8294.	7.2	264
6	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.	6.6	252
7	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.	6.6	198
8	Tuning the Adsorption Properties of Isoreticular Pyrazolate-Based Metal-Organic Frameworks through Ligand Modification. <i>Journal of the American Chemical Society</i> , 2012, 134, 12830-12843.	6.6	184
9	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, 2397-2399.	1.9	158
10	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, 7308-7311.	7.2	152
11	Guest-Induced Modification of a Magnetically Active Ultramicroporous, Gismondine-like, Copper(II) Coordination Network. <i>Journal of the American Chemical Society</i> , 2008, 130, 3978-3984.	6.6	149
12	Nanoscaled Zinc Pyrazolate Metal-Organic Frameworks as Drug-Delivery Systems. <i>Inorganic Chemistry</i> , 2016, 55, 2650-2663.	1.9	147
13	Selective sulfur dioxide adsorption on crystal defect sites on an isoreticular metal organic framework series. <i>Nature Communications</i> , 2017, 8, 14457.	5.8	133
14	Tetranuclear Coordination Assemblies Based on Half-Sandwich Ruthenium(II) Complexes: Noncovalent Binding to DNA and Cytotoxicity. <i>Inorganic Chemistry</i> , 2009, 48, 7413-7420.	1.9	110
15	Functionalisation of MOF open metal sites with pendant amines for CO ₂ capture. <i>Journal of Materials Chemistry</i> , 2012, 22, 10155.	6.7	110
16	Crystalline fibres of a covalent organic framework through bottom-up microfluidic synthesis. <i>Chemical Communications</i> , 2016, 52, 9212-9215.	2.2	109
17	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.	4.0	100
18	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.	1.9	90

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19	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, 332-338.	2.9	86
20	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, 9890-9901.	1.7	84
21	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, 3014-3015.	6.6	76
22	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.	7.8	72
23	Chiral Pyrimidine Metallacalixarenes: Synthesis, Structure and Host-Guest Chemistry. <i>Chemistry - A European Journal</i> , 2003, 9, 4414-4421.	1.7	70
24	A Soft Copper(II) Porous Coordination Polymer with Unprecedented Aqua Bridge and Selective Adsorption Properties. <i>Chemistry - A European Journal</i> , 2012, 18, 13117-13125.	1.7	69
25	[(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.	1.9	66
26	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.	6.6	62
27	Discovery of an Optimal Porous Crystalline Material for the Capture of Chemical Warfare Agents. <i>Chemistry of Materials</i> , 2018, 30, 4571-4579.	3.2	62
28	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.	1.5	61
29	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.	1.9	60
30	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, 2301-2305.	1.9	56
31	A Highly Water-Stable <i>meta</i> -Carborane-Based Copper Metal-Organic Framework for Efficient High-Temperature Butanol Separation. <i>Journal of the American Chemical Society</i> , 2020, 142, 8299-8311.	6.6	54
32	Design and Non-Covalent DNA Binding of Platinum(II) Metallacalix[4]arenes. <i>Chemistry - A European Journal</i> , 2007, 13, 5075-5081.	1.7	53
33	A Recyclable Metal-Organic Framework as a Dual Detector and Adsorbent for Ammonia. <i>Chemistry - A European Journal</i> , 2017, 23, 13602-13606.	1.7	52
34	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.	2.2	51
35	Metal-Organic Frameworks Containing Missing Linker Defects Leading to High Hydroxide Conductivity. <i>Chemistry - A European Journal</i> , 2016, 22, 1646-1651.	1.7	48
36	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.	6.6	48

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37	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.	6.7	47
38	A palladium metallacalix[4]arene capped with a gadolinium atom. <i>Chemical Communications</i> , 2000, , 235-236.	2.2	45
39	Manganese(II) Pyrimidine-4,6-dicarboxylates: Synthetic, Structural, Magnetic, and Adsorption Insights. <i>Inorganic Chemistry</i> , 2008, 47, 5267-5277.	1.9	45
40	A Flexible Porous Coordination Polymer: Non-conventional Synthesis and Separation Properties Towards CO ₂ /CH ₄ Mixtures. <i>Chemistry - A European Journal</i> , 2010, 16, 931-937.	1.7	45
41	Molecular architecture of redox-active half-sandwich Ru(ii) cyclic assemblies. Interactions with biomolecules and anticancer activity. <i>CrystEngComm</i> , 2010, 12, 2343.	1.3	45
42	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, , 2780-2785.	1.6	42
43	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.	1.1	39
44	[(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.		39
45	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.	3.2	39
46	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.	1.9	35
47	Mononucleotide recognition by cyclic trinuclear palladium(ii) complexes containing 4,7-phenanthroline N,N bridges. <i>Dalton Transactions</i> , 2004, , 1563-1566.	1.6	34
48	Rational Design of Noncovalent Diamondoid Microporous Materials for Low-Energy Separation of C ₆ -Hydrocarbons. <i>Journal of the American Chemical Society</i> , 2018, 140, 15031-15037.	6.6	34
49	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.	0.8	34
50	Biporous Metal-Organic Framework with Tunable CO ₂ /CH ₄ Separation Performance Facilitated by Intrinsic Flexibility. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36144-36156.	4.0	33
51	Cation Exchange Strategy for the Encapsulation of a Photoactive CO-Releasing Organometallic Molecule into Anionic Porous Frameworks. <i>Inorganic Chemistry</i> , 2016, 55, 6525-6531.	1.9	32
52	Tuning the Structural and Magnetic Properties of Thermally Robust Coordination Polymers. <i>Inorganic Chemistry</i> , 2006, 45, 7612-7620.	1.9	31
53	Multifunctionality in an Ion-Exchanged Porous Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2021, 143, 1365-1376.	6.6	31
54	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.	1.8	30

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55	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.	1.1	29
56	Thermally Induced Interconversions of Metal ^{II} -Pyrimidine-4,6-dicarboxylate Polymers: A Structural, Spectroscopic, and Magnetic Study. <i>Inorganic Chemistry</i> , 2009, 48, 3087-3094.	1.9	27
57	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.	1.9	27
58	From Simpletrans-[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, 1059-1065.	1.9	25
59	BioMOF@cellulose fabric composites for bioactive molecule delivery. <i>Journal of Inorganic Biochemistry</i> , 2019, 201, 110818.	1.5	24
60	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.	1.4	23
61	RAPTA-C incorporation and controlled delivery from MIL-100(Fe) nanoparticles. <i>New Journal of Chemistry</i> , 2016, 40, 5690-5694.	1.4	23
62	Green synthesis of zirconium MOF-808 for simultaneous phosphate recovery and organophosphorus pesticide detoxification in wastewater. <i>Journal of Materials Chemistry A</i> , 2022, 10, 19606-19611.	5.2	23
63	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, 473-481.	1.9	22
64	The dynamic art of growing COF crystals. <i>Science</i> , 2018, 361, 35-35.	6.0	22
65	Catalytically Active Imine-based Covalent Organic Frameworks for Detoxification of Nerve Agent Simulants in Aqueous Media. <i>Materials</i> , 2019, 12, 1974.	1.3	20
66	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.	4.0	20
67	Electrochemically and photochemically active Palladium(II) heterotopic metallacalix[3]arenes. <i>Chemical Communications</i> , 2008, , 3735.	2.2	19
68	Mixed-Metal Cerium/Zirconium MOFs with Improved Nerve Agent Detoxification Properties. <i>Inorganic Chemistry</i> , 2020, 59, 16160-16167.	1.9	19
69	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> , 2021, 4, 12712-12725.	2.4	19
70	Heteroleptic pyrimidine-2-olate and 4,4'-bipyridine copper(II) layered metal-organic frameworks with swelling properties. <i>Dalton Transactions</i> , 2005, , 1743-1746.	1.6	16
71	Structural and Magnetic Properties of Layered Copper(II) Coordination Polymers Intercalating s and f Metal Ions. <i>Inorganic Chemistry</i> , 2007, 46, 2988-2997.	1.9	16
72	Structure, Spectroscopic Properties, and Reversible Solid-to-Solid Reactions of Metal Complexes of 5-Nitro-pyrimidin-2-olate. <i>Inorganic Chemistry</i> , 2005, 44, 1472-1481.	1.9	14

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73	Metal-organic frameworks for the removal of the emerging contaminant atenolol under real conditions. Dalton Transactions, 2021, 50, 2493-2500.	1.6	11
74	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.	1.7	10
75	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, 1025-1032.	1.5	9
76	A highly porous interpenetrated MOF-5-type network based on bipyrzolate linkers. CrystEngComm, 2013, 15, 9352.	1.3	9
77	Biomimetic 1-Aminocyclopropane-1-Carboxylic Acid Oxidase Ethylene Production by MIL-100(Fe)-Based Materials. ACS Applied Materials & Interfaces, 2019, 11, 34053-34058.	4.0	9
78	Zirconium Metal-Organic Polyhedra with Dual Behavior for Organophosphate Poisoning Treatment. ACS Applied Materials & Interfaces, 2022, 14, 26501-26506.	4.0	9
79	Efficient hexane isomers separation in isorecticular bipyrzolate metal-organic frameworks: The role of pore functionalization. Nano Research, 2021, 14, 532-540.	5.8	8
80	Impact of Defects on Pyrazolate Based Metal Organic Frameworks. Israel Journal of Chemistry, 2018, 58, 1112-1118.	1.0	4
81	Diffusion Control in Single-Site Zinc Reticular Amination Catalysts. Inorganic Chemistry, 2020, 59, 18168-18173.	1.9	2
82	Preparation and Characterization of Solid Co(II) Pyrimidinolates in a Multifaceted Undergraduate Laboratory Experiment. Journal of Chemical Education, 2008, 85, 422.	1.1	1
83	Platinum Group Metal-Organic Frameworks. , 0, , 203-230.		0