

Elisa Barea

List of Publications by Year in descending order

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60
papers

4,577
citations

126858

33
h-index

123376

61
g-index

68
all docs

68
docs citations

68
times ranked

5629
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	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
3	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
4	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
5	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
6	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
7	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
8	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
9	Nanoscaled Zinc Pyrazolate Metal-Organic Frameworks as Drug-Delivery Systems. <i>Inorganic Chemistry</i> , 2016, 55, 2650-2663.	1.9	147
10	Adsorption of Harmful Organic Vapors by Flexible Hydrophobic Bis-pyrazolate Based MOFs. <i>Chemistry of Materials</i> , 2010, 22, 1664-1672.	3.2	138
11	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
12	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
13	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
14	Adsorptive capturing and storing greenhouse gases such as sulfur hexafluoride and carbon tetrafluoride using metal-organic frameworks. <i>Microporous and Mesoporous Materials</i> , 2012, 156, 115-120.	2.2	92
15	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
16	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
17	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
18	Chiral Pyrimidine Metallacalixarenes: Synthesis, Structure and Host-Guest Chemistry. <i>Chemistry - A European Journal</i> , 2003, 9, 4414-4421.	1.7	70

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19	Metal-organic frameworks as potential multi-carriers of drugs. <i>CrystEngComm</i> , 2013, 15, 9364.	1.3	70
20	Soft functional polynuclear coordination compounds containing pyrimidine bridges. <i>Journal of Solid State Chemistry</i> , 2005, 178, 2436-2451.	1.4	69
21	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
22	Diamondoid Three-Dimensional Metal-Organic Framework Showing Structural Transformation with Guest Molecules. <i>Crystal Growth and Design</i> , 2009, 9, 4480-4486.	1.4	52
23	Study of the incorporation and release of the non-conventional half-sandwich ruthenium(ii) metallodrug RAPTAC on a robust MOF. <i>Chemical Communications</i> , 2011, 47, 11751.	2.2	51
24	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
25	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
26	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
27	Influence of pseudohalide ligands on the structural versatility and properties of novel ternary metal complexes with 1,2,4-triazolo[1,5-a]pyrimidine. <i>CrystEngComm</i> , 2010, 12, 3038.	1.3	44
28	In vitro and in vivo antiparasital activity against <i>Trypanosoma cruzi</i> of three novel 5-methyl-1,2,4-triazolo[1,5-a]pyrimidin-7(4H)-one-based complexes. <i>Journal of Inorganic Biochemistry</i> , 2011, 105, 770-776.	1.5	43
29	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
30	Biophysical characterisation, antitumor activity and MOF encapsulation of a half-sandwich ruthenium(mitoxantrone) system. <i>Journal of Materials Chemistry B</i> , 2014, 2, 2473-2477.	2.9	36
31	Biological activity of three novel complexes with the ligand 5-methyl-1,2,4-triazolo[1,5-a]pyrimidin-7(4H)-one against <i>Leishmania</i> spp.. <i>Journal of Antimicrobial Chemotherapy</i> , 2011, 66, 813-819.	1.3	35
32	[Cu(4-oxopyrimidinate) ₂ ·nH ₂ O] _n : a robust sodalite type metal-organic framework exhibiting a rich host-guest chemistry. <i>Polyhedron</i> , 2003, 22, 3051-3057.	1.0	32
33	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
34	Tuning the Structural and Magnetic Properties of Thermally Robust Coordination Polymers. <i>Inorganic Chemistry</i> , 2006, 45, 7612-7620.	1.9	31
35	Coordination Modulation Method To Prepare New Metal-Organic Framework-Based CO-Releasing Materials. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31158-31167.	4.0	31
36	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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37	Thermally Induced Interconversions of Metal-Organic Pyrimidine-4,6-dicarboxylate Polymers: A Structural, Spectroscopic, and Magnetic Study. <i>Inorganic Chemistry</i> , 2009, 48, 3087-3094.	1.9	27
38	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
39	Structural and magnetic properties of three novel complexes with the versatile ligand 5-methyl-1,2,4-triazolo[1,5-a]pyrimidin-7(4H)-one. <i>Dalton Transactions</i> , 2011, 40, 5180.	1.6	24
40	Metalorganic frameworks based on the 1,4-bis(5-tetrazolyl) benzene ligand: The Ag and Cu derivatives. <i>Inorganica Chimica Acta</i> , 2009, 362, 4340-4346.	1.2	23
41	RAPTA-C incorporation and controlled delivery from MIL-100(Fe) nanoparticles. <i>New Journal of Chemistry</i> , 2016, 40, 5690-5694.	1.4	23
42	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
43	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
44	Quest for Second-Harmonic-Generation-Active Coordination Polymers: Synthesis and Properties of Silver(I) Pyrimidinolates. <i>Chemistry of Materials</i> , 2005, 17, 4815-4824.	3.2	22
45	One-pot preparation of a novel CO-releasing material based on a CO-releasing molecule-metal-organic framework system. <i>Chemical Communications</i> , 2017, 53, 6581-6584.	2.2	21
46	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
47	Inorganic mesoporous silicas as vehicles of two novel anthracene-based ruthenium metalloarenes. <i>Journal of Inorganic Biochemistry</i> , 2017, 166, 87-93.	1.5	18
48	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
49	Structural and Magnetic Properties of Layered Copper(II) Coordination Polymers Intercalating π and σ Metal Ions. <i>Inorganic Chemistry</i> , 2007, 46, 2988-2997.	1.9	16
50	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
51	A highly porous interpenetrated MOF-5-type network based on bipyrazolate linkers. <i>CrystEngComm</i> , 2013, 15, 9352.	1.3	9
52	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.	4.0	9
53	Dual removal and selective recovery of phosphate and an organophosphorus pesticide from water by a Zr-based metal-organic framework. <i>Materials Today Chemistry</i> , 2021, 22, 100596.	1.7	9
54	From 1D homoleptic to 2D heteroleptic pillared coordination polymers containing oxonato bridges. <i>Inorganica Chimica Acta</i> , 2011, 371, 79-87.	1.2	7

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55	[Re ₂ (μ-1,2,4-triazolate) ₂ (μ-OH)(CO) ₆] ⁺ : a novel metalloligand for the construction of flexible porous coordination networks. Dalton Transactions, 2008, , 1825.	1.6	6
56	Silk fibroin nanoparticles as biocompatible nanocarriers of a novel light-responsive CO-prodrug. Dalton Transactions, 2018, 47, 10434-10438.	1.6	5
57	Preparation and Characterization of Solid Co(II) Pyrimidinolates in a Multifaceted Undergraduate Laboratory Experiment. Journal of Chemical Education, 2008, 85, 422.	1.1	1
58	Soft Porous Coordination Polymers. , 2013, , 73-102.		1
59	catena-Poly[[[triaquamanganese(II)] _{1/4} -4,4'-bipyridine-2N:N'-[triaquamanganese(II)] _{1/4} -pyrimidine-4,6-dicarboxylato] ₄ N ₁ O ₆ S ₃ sulfate trihydrate]. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, m86-m87.	0.2	0
60	Innentitelbild: Textile/Metal-Organic-Framework Composites as Self-Detoxifying Filters for Chemical-Warfare Agents (Angew. Chem. 23/2015). Angewandte Chemie, 2015, 127, 6754-6754.	1.6	0