

# Elisa Barea

## 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.

64  
papers

3,976  
citations

32  
h-index

63  
g-index

68  
ext. papers

4,282  
ext. citations

7.5  
avg, IF

5.28  
L-index

#	Paper	IF	Citations
64	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 &amp; Interfaces</i> , <b>2021</b> , 13, 50491-50496	9.5	3
63	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> , <b>2021</b> , 22, 100596	6.2	2
62	Biomimetic 1-Aminocyclopropane-1-Carboxylic Acid Oxidase Ethylene Production by MIL-100(Fe)-Based Materials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 34053-34058	9.5	3
61	MOFs for the Capture and Degradation of Chemical Warfare Agents <b>2018</b> , 199-221		2
60	Silk fibroin nanoparticles as biocompatible nanocarriers of a novel light-responsive CO-prodrug. <i>Dalton Transactions</i> , <b>2018</b> , 47, 10434-10438	4.3	4
59	Coordination Modulation Method To Prepare New Metal-Organic Framework-Based CO-Releasing Materials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 31158-31167	9.5	22
58	Selective One-Pot Two-Step C-C Bond Formation using Metal-Organic Frameworks with Mild Basicity as Heterogeneous Catalysts. <i>ChemCatChem</i> , <b>2017</b> , 9, 4019-4023	5.2	26
57	One-pot preparation of a novel CO-releasing material based on a CO-releasing molecule@metal-organic framework system. <i>Chemical Communications</i> , <b>2017</b> , 53, 6581-6584	5.8	14
56	Aluminum Doped MCM-41 Nanoparticles as Platforms for the Dual Encapsulation of a CO-Releasing Molecule and Cisplatin. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 10474-10480	5.1	19
55	Chemical Warfare Agents Detoxification Properties of Zirconium Metal-Organic Frameworks by Synergistic Incorporation of Nucleophilic and Basic Sites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 23967-23973	9.5	76
54	Inorganic mesoporous silicas as vehicles of two novel anthracene-based ruthenium metalloarenes. <i>Journal of Inorganic Biochemistry</i> , <b>2017</b> , 166, 87-93	4.2	12
53	Cation Exchange Strategy for the Encapsulation of a Photoactive CO-Releasing Organometallic Molecule into Anionic Porous Frameworks. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 6525-31	5.1	25
52	Nanoscaled Zinc Pyrazolate Metal-Organic Frameworks as Drug-Delivery Systems. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 2650-63	5.1	116
51	RAPTA-C incorporation and controlled delivery from MIL-100(Fe) nanoparticles. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 5690-5694	3.6	22
50	Textile/metal-organic-framework composites as self-detoxifying filters for chemical-warfare agents. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 6790-4	16.4	234
49	Innentitelbild: Textile/Metal-Organic-Framework Composites as Self-Detoxifying Filters for Chemical-Warfare Agents (Angew. Chem. 23/2015). <i>Angewandte Chemie</i> , <b>2015</b> , 127, 6754-6754	3.6	
48	Textile/Metal-Organic-Framework Composites as Self-Detoxifying Filters for Chemical-Warfare Agents. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 6894-6898	3.6	33

47	Toxic gas removal--metal-organic frameworks for the capture and degradation of toxic gases and vapours. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 5419-30	58.5	715
46	Biophysical characterisation, antitumor activity and MOF encapsulation of a half-sandwich ruthenium(ii) mitoxantronato system. <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 2473-2477	7.3	28
45	Improved CO <sub>2</sub> Capture from Flue Gas by Basic Sites, Charge Gradients, and Missing Linker Defects on Nickel Face Cubic Centered MOFs. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 6130-6135	15.6	59
44	Soft Porous Coordination Polymers <b>2013</b> , 73-102		1
43	A highly porous interpenetrated MOF-5-type network based on bipyrazolate linkers. <i>CrystEngComm</i> , <b>2013</b> , 15, 9352	3.3	9
42	Metal-organic frameworks as potential multi-carriers of drugs. <i>CrystEngComm</i> , <b>2013</b> , 15, 9364	3.3	61
41	Highly hydrophobic isorecticular porous metal-organic frameworks for the capture of harmful volatile organic compounds. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 8290-4	16.4	205
40	Highly Hydrophobic Isorecticular Porous Metal-Organic Frameworks for the Capture of Harmful Volatile Organic Compounds. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 8448-8452	3.6	49
39	Adsorptive capturing and storing greenhouse gases such as sulfur hexafluoride and carbon tetrafluoride using metal-organic frameworks. <i>Microporous and Mesoporous Materials</i> , <b>2012</b> , 156, 115-120	5.3	66
38	A soft copper(II) porous coordination polymer with unprecedented aqua bridge and selective adsorption properties. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 13117-25	4.8	62
37	Tuning the adsorption properties of isorecticular pyrazolate-based metal-organic frameworks through ligand modification. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 12830-43	16.4	167
36	Functionalisation of MOF open metal sites with pendant amines for CO <sub>2</sub> capture. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 10155		105
35	Separation and Purification of Gases by MOFs <b>2011</b> , 69-97		4
34	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> , <b>2011</b> , 133, 11888-91	16.4	235
33	Study of the incorporation and release of the non-conventional half-sandwich ruthenium(II) metallo-drug RAPTA-C on a robust MOF. <i>Chemical Communications</i> , <b>2011</b> , 47, 11751-3	5.8	47
32	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> , <b>2011</b> , 40, 5180-7	4.3	22
31	From 1D homoleptic to 2D heteroleptic pillared coordination polymers containing oxonato bridges. <i>Inorganica Chimica Acta</i> , <b>2011</b> , 371, 79-87	2.7	6
30	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> , <b>2011</b> , 105, 770-6	4.2	42

29	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> , <b>2011</b> , 66, 813-9	5.1	35
28	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> , <b>2010</b> , 12, 3038	3.3	41
27	Adsorption of Harmful Organic Vapors by Flexible Hydrophobic Bis-pyrazolate Based MOFs. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 1664-1672	9.6	128
26	Molecular architecture of redox-active half-sandwich Ru(II) cyclic assemblies. Interactions with biomolecules and anticancer activity. <i>CrystEngComm</i> , <b>2010</b> , 12, 2343	3.3	43
25	A flexible pro-porous coordination polymer: non-conventional synthesis and separation properties towards CO(2)/CH(4) mixtures. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 931-7	4.8	44
24	Cation-Exchange Porosity Tuning in Anionic Metal-Organic Frameworks for the Selective Separation of Gases and Vapors and for Catalysis. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 7466-7469	3.6	25
23	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> , <b>2010</b> , 49, 7308-11	16.4	145
22	catena-Poly[[[triacqua-manganese(II)]- $\mu_4,4'$ -bipyridine- $\mu_2$ :N $\mu$ ][triacqua-manganese(II)]- $\mu$ -pyrimidine-4,6-dicarboxylato- $\mu_2$ :N,O:O:O] sulfate trihydrate]. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2009</b> , 66, m86-7		
21	Metalorganic frameworks based on the 1,4-bis(5-tetrazolyl) benzene ligand: The Ag and Cu derivatives. <i>Inorganica Chimica Acta</i> , <b>2009</b> , 362, 4340-4346	2.7	22
20	Tetranuclear coordination assemblies based on half-sandwich ruthenium(II) complexes: noncovalent binding to DNA and cytotoxicity. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 7413-20	5.1	105
19	Diamondoid Three-Dimensional Metal-Organic Framework Showing Structural Transformation with Guest Molecules. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 4480-4486	3.5	49
18	Thermally induced interconversions of metal-pyrimidine-4,6-dicarboxylate polymers: a structural, spectroscopic, and magnetic study. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 3087-94	5.1	26
17	Guest-induced modification of a magnetically active ultramicroporous, gismondine-like, copper(II) coordination network. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 3978-84	16.4	140
16	[Re <sub>2</sub> (micro-1,2,4-triazolate) <sub>2</sub> (micro-OH)(CO) <sub>6</sub> ]-: a novel metalloligand for the construction of flexible porous coordination networks. <i>Dalton Transactions</i> , <b>2008</b> , 1825-7	4.3	6
15	Preparation and Characterization of Solid Co(II) Pyrimidinolates in a Multifaceted Undergraduate Laboratory Experiment. <i>Journal of Chemical Education</i> , <b>2008</b> , 85, 422	2.4	1
14	Polymorphic coordination networks responsive to CO <sub>2</sub> , moisture, and thermal stimuli: porous cobalt(II) and zinc(II) fluoropyrimidinolates. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 9890-901	4.8	82
13	Structural and magnetic properties of layered copper(II) coordination polymers intercalating s and f metal ions. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 2988-97	5.1	15
12	Borderline microporous-ultramicroporous palladium(II) coordination polymer networks. Effect of pore functionalisation on gas adsorption properties. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 1939-1946		45

11	Tuning the structural and magnetic properties of thermally robust coordination polymers. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 7612-20	5.1	31
10	H <sub>2</sub> , N <sub>2</sub> , CO, and CO <sub>2</sub> sorption properties of a series of robust sodalite-type microporous coordination polymers. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 2397-9	5.1	144
9	Structure, spectroscopic properties, and reversible solid-to-solid reactions of metal complexes of 5-nitro-pyrimidin-2-olate. <i>Inorganic Chemistry</i> , <b>2005</b> , 44, 1472-81	5.1	14
8	Heteroleptic pyrimidine-2-olate and 4,4[prime or minute]-bipyridine copper(II) layered metal-organic frameworks with swelling properties. <i>Dalton Transactions</i> , <b>2005</b> , 1743-6	4.3	15
7	Quest for Second-Harmonic-Generation-Active Coordination Polymers: Synthesis and Properties of Silver(I) Pyrimidinolates. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 4815-4824	9.6	22
6	Soft functional polynuclear coordination compounds containing pyrimidine bridges. <i>Journal of Solid State Chemistry</i> , <b>2005</b> , 178, 2436-2451	3.3	67
5	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> , <b>2004</b> , 43, 473-81	5.1	22
4	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> , <b>2004</b> , 126, 3014-5	16.4	69
3	Chiral pyrimidine metallacalixarenes: synthesis, structure and host-guest chemistry. <i>Chemistry - A European Journal</i> , <b>2003</b> , 9, 4414-21	4.8	67
2	[Cu(4-oxopyrimidinate) <sub>2</sub> · nH <sub>2</sub> O] <sub>n</sub> a robust sodalite type metal-organic framework exhibiting a rich host-guest chemistry. <i>Polyhedron</i> , <b>2003</b> , 22, 3051-3057	2.7	32
1	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> , <b>2003</b> , 15, 2153-2160	9.6	39