

# Antonio Caballero

## List of Publications by Citations

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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.

62 papers	3,630 citations	32 h-index	60 g-index
66 ext. papers	3,831 ext. citations	6.9 avg, IF	5.37 L-index

#	Paper	IF	Citations
62	Highly selective chromogenic and redox or fluorescent sensors of Hg <sup>2+</sup> in aqueous environment based on 1,4-disubstituted azines. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 15666-7	16.4	438
61	Anion Recognition Strategies Based on Combined Noncovalent Interactions. <i>Chemical Reviews</i> , <b>2017</b> , 117, 9907-9972	68.1	218
60	2-Aza-1,3-butadiene derivatives featuring an anthracene or pyrene unit: highly selective colorimetric and fluorescent signaling of Cu <sup>2+</sup> cation. <i>Organic Letters</i> , <b>2006</b> , 8, 3235-8	6.2	195
59	Fluorescent charge-assisted halogen-bonding macrocyclic halo-imidazolium receptors for anion recognition and sensing in aqueous media. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 11533-41	16.4	186
58	A halogen-bonding catenane for anion recognition and sensing. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 1876-80	16.4	179
57	Cation coordination induced modulation of the anion sensing properties of a ferrocene-imidazophenanthroline dyad: multichannel recognition from phosphate-related to chloride anions. <i>Journal of Organic Chemistry</i> , <b>2008</b> , 73, 4034-44	4.2	157
56	A bidentate halogen-bonding bromoimidazoliophane receptor for bromide ion recognition in aqueous media. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 1845-8	16.4	155
55	Ferrocene-Based Small Molecules for Multichannel Molecular Recognition of Cations and Anions. <i>European Journal of Inorganic Chemistry</i> , <b>2008</b> , 2008, 3401-3417	2.3	154
54	A click-generated triazole tethered ferrocene-pyrene dyad for dual-mode recognition of the pyrophosphate anion. <i>Organic Letters</i> , <b>2009</b> , 11, 3466-9	6.2	128
53	Interlocked host molecules for anion recognition and sensing. <i>Coordination Chemistry Reviews</i> , <b>2013</b> , 257, 2434-2455	23.2	126
52	Imidazole-annelated ferrocene derivatives as highly selective and sensitive multichannel chemical probes for Pb(II) cations. <i>Journal of Organic Chemistry</i> , <b>2009</b> , 74, 4787-96	4.2	89
51	Triple channel sensing of Pb(II) ions by a simple multiresponsive ferrocene receptor having a 1-deazapurine backbone. <i>Organic Letters</i> , <b>2008</b> , 10, 41-4	6.2	87
50	A simple but effective ferrocene derivative as a redox, colorimetric, and fluorescent receptor for highly selective recognition of Zn <sup>2+</sup> ions. <i>Organic Letters</i> , <b>2007</b> , 9, 2385-8	6.2	80
49	A catenane assembled through a single charge-assisted halogen bond. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 4356-60	16.4	77
48	Open bis(triazolium) structural motifs as a benchmark to study combined hydrogen- and halogen-bonding interactions in oxoanion recognition processes. <i>Journal of Organic Chemistry</i> , <b>2014</b> , 79, 6959-69	4.2	72
47	Electroactive thiazole derivatives capped with ferrocenyl units showing charge-transfer transition and selective ion-sensing properties: a combined experimental and theoretical study. <i>Inorganic Chemistry</i> , <b>2007</b> , 46, 825-38	5.1	68
46	Ferrocene-substituted nitrogen-rich ring systems as multichannel molecular chemosensors for anions in aqueous environment. <i>Journal of Organic Chemistry</i> , <b>2010</b> , 75, 162-9	4.2	67

45	Ferrocene-based small molecules for dual-channel sensing of heavy- and transition-metal cations. <i>Journal of Organic Chemistry</i> , <b>2008</b> , 73, 5489-97	4.2	62
44	Selective fluorescence sensing of Li <sup>+</sup> in an aqueous environment by a ferrocene-anthracene-linked dyad. <i>Organic Letters</i> , <b>2004</b> , 6, 4599-602	6.2	51
43	A selective redox and chromogenic probe for Hg(II) in aqueous environment based on a ferrocene-azaquinoxaline dyad. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 11566-75	5.1	50
42	A Halogen-Bonding Catenane for Anion Recognition and Sensing. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 1912-1916	5.1	48
41	Synthesis and Characterization of Radical Cations Derived from Mono- and Biferrocenyl-Substituted 2-Aza-1,3-butadienes: A Study of the Influence of an Asymmetric and Oxidizable Bridge on Intramolecular Electron Transfer. <i>European Journal of Inorganic Chemistry</i> , <b>2005</b> , 2005, 2436-2450	2.3	46
40	Interlocked Supramolecular Polymers Created by Combination of Halogen- and Hydrogen-Bonding Interactions through Anion-Template Self-Assembly. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 2041-2045	16.4	45
39	Iodide-induced shuttling of a halogen- and hydrogen-bonding two-station rotaxane. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 11854-8	16.4	44
38	Naked-eye and Selective Detection of Mercury (II) Ions in Mixed Aqueous Media Using a Cellulose-based Support. <i>Sensors</i> , <b>2007</b> , 7, 3481-3488	3.8	44
37	Dual Role of the 1,2,3-Triazolium Ring as a Hydrogen-Bond Donor and Anion-Receptor in Anion-Recognition Processes. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 9797-808	4.8	41
36	An electroactive nitrogen-rich [4.4]ferrocenophane displaying redox-switchable behavior: selective sensing, complexation, and decomplexation of Mg <sup>2+</sup> ions. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 1977-81	16.4	38
35	A Bidentate Halogen-Bonding Bromimidazoliophane Receptor for Bromide Ion Recognition in Aqueous Media. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 1885-1888	3.6	37
34	A multiresponsive two-arm ferrocene-based chemosensor molecule for selective detection of mercury. <i>Dalton Transactions</i> , <b>2009</b> , 2121-9	4.3	37
33	Host-Guest Chemistry: Oxoanion Recognition Based on Combined Charge-Assisted C-H or Halogen-Bonding Interactions and Anion-Anion Interactions Mediated by Hydrogen Bonds. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 7533-44	4.8	37
32	Anion Recognition by Neutral Chalcogen Bonding Receptors: Experimental and Theoretical Investigations. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 4706-4713	4.8	32
31	Multifunctional linear triferrocene derivatives linked by oxidizable bridges: optical, electronic, and cation sensing properties. <i>Organic Letters</i> , <b>2005</b> , 7, 3171-4	6.2	32
30	A ferrocene-quinoxaline derivative as a highly selective probe for colorimetric and redox sensing of toxic mercury(II) cations. <i>Sensors</i> , <b>2010</b> , 10, 11311-21	3.8	31
29	Heteroditopic ligands based on ferrocenyl benzimidazoles fused to an additional diaza heterocyclic ring system. <i>Dalton Transactions</i> , <b>2009</b> , 9653-8	4.3	31
28	Comparative Study of Charge-Assisted Hydrogen- and Halogen-Bonding Capabilities in Solution of Two-Armed Imidazolium Receptors toward Oxoanions. <i>Journal of Organic Chemistry</i> , <b>2016</b> , 81, 7448-58	4.2	29

27	A Catenane Assembled through a Single Charge-Assisted Halogen Bond. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 4452-4456	3.6	27
26	A multifaceted ferrocene-benzobisimidazole derivative: fluorogenic probe for Pb(2+) and Zn(2+) cations and unconventional fluorescence behaviour towards Cu(2+) metal cations. <i>Dalton Transactions</i> , <b>2010</b> , 39, 5429-31	4.3	27
25	Discovery of anion-π interactions in the recognition mechanism of inorganic anions by 1,2,3-triazolium rings. <i>Chemical Communications</i> , <b>2014</b> , 50, 4680-2	5.8	26
24	Ferrocene-π triazole Combination as a Benchmark for the Electrochemical Detection of Noncovalent Halogen-Bonding Interactions. <i>European Journal of Inorganic Chemistry</i> , <b>2017</b> , 2017, 237-241	2.3	25
23	Iodo-imidazolium salts: halogen bonding in crystals and anion-templated pseudorotaxanes. <i>CrystEngComm</i> , <b>2013</b> , 15, 3076-3081	3.3	25
22	A halogen- and hydrogen-bonding [2]catenane for anion recognition and sensing. <i>RSC Advances</i> , <b>2015</b> , 5, 9298-9306	3.7	23
21	Multifunctional ferrocene-ruthenocene dyads linked by single or double aza-containing bridges displaying metal-metal interactions and cation recognition properties. <i>Journal of Organic Chemistry</i> , <b>2007</b> , 72, 1161-73	4.2	22
20	PDMS based photonic lab-on-a-chip for the selective optical detection of heavy metal ions. <i>Analyst</i> , <b>2013</b> , 138, 839-44	5	21
19	Synthesis, electrochemical, and optical properties of linear homo- and heterometallocene triads. <i>Journal of Organic Chemistry</i> , <b>2007</b> , 72, 6924-37	4.2	21
18	A case of oxoanion recognition based on combined cationic and neutral C-H hydrogen bond interactions. <i>Organic and Biomolecular Chemistry</i> , <b>2015</b> , 13, 1339-46	3.9	20
17	A redox-fluorescent molecular switch based on a heterobimetallic Ir(III) complex with a ferrocenyl azaheterocycle as ancillary ligand. <i>Dalton Transactions</i> , <b>2009</b> , 3900-2	4.3	20
16	Ferrocene-thiophene dyads with azadiene spacers: electrochemical, electronic and cation sensing properties. <i>Dalton Transactions</i> , <b>2006</b> , 1390-8	4.3	20
15	A ferrocene imidazolium-based macrocycle as an electrochemical chemosensor for halide anions. <i>CrystEngComm</i> , <b>2014</b> , 16, 3694-3698	3.3	18
14	Iodide-Induced Shuttling of a Halogen- and Hydrogen-Bonding Two-Station Rotaxane. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 12048-12052	3.6	16
13	2,4,5-Trimethylimidazolium Scaffold for Anion Recognition Receptors Acting Through Charge-Assisted Aliphatic and Aromatic C-H Interactions. <i>Journal of Organic Chemistry</i> , <b>2016</b> , 81, 3790-8	4.2	16
12	Observation of strong halogen bonds in the solid state structures of bis-haloimidazolium macrocycles. <i>CrystEngComm</i> , <b>2014</b> , 16, 3722-3729	3.3	13
11	Formation of self-assembled supramolecular polymers by anti-electrostatic anion-anion and halogen bonding interactions. <i>Chemical Communications</i> , <b>2020</b> , 56, 7084-7087	5.8	12
10	Enhancement of anion recognition exhibited by a zinc-imidazole-based ion-pair receptor composed of C-H hydrogen- and halogen-bond donor groups. <i>Dalton Transactions</i> , <b>2018</b> , 47, 15941-15947	4.3	11

9	A Selective Chromogenic and Fluorescent Molecular Probe for YbIII Based on a Bichromophoric Azadiene. <i>European Journal of Inorganic Chemistry</i> , <b>2010</b> , 2010, 697-703	2.3	10
8	Selective fluorescence sensing of HPO by the anion induced formation of self-assembled supramolecular polymers. <i>Organic and Biomolecular Chemistry</i> , <b>2020</b> , 18, 3858-3866	3.9	9
7	Modulation of the Selectivity in Anions Recognition Processes by Combining Hydrogen- and Halogen-Bonding Interactions. <i>Molecules</i> , <b>2017</b> , 22,	4.8	8
6	An Electroactive Nitrogen-Rich [4.4]Ferrocenophane Displaying Redox-Switchable Behavior: Selective Sensing, Complexation, and Decomplexation of Mg <sup>2+</sup> ions. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 2013-2017	3.6	7
5	Triazole-Containing [FeFe] Hydrogenase Mimics: Synthesis and Electrocatalytic Behavior. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 16267-16278	5.1	7
4	Pyrene-based dyad and triad leading to a reversible chemical and redox optical and magnetic switch. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 5504-9	4.8	5
3	Synthesis, Structure and Anion Sensing Properties of a Dicationic Bis(imidazolium)-Based Cyclophane. <i>ChemistrySelect</i> , <b>2018</b> , 3, 3855-3859	1.8	5
2	Exploiting 1,4-naphthoquinone and 3-iodo-1,4-naphthoquinone motifs as anion binding sites by hydrogen or halogen-bonding interactions. <i>Dalton Transactions</i> , <b>2019</b> , 48, 11813-11821	4.3	3
1	Anion Recognition by Neutral Chalcogen Bonding Receptors: Experimental and Theoretical Investigation. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 4644	4.8	0