Antonio Caballero

List of Publications by Year in Descending Order

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	Selective fluorescence sensing of HPO by the anion induced formation of self-assembled supramolecular polymers. *Organic and Biomolecular Chemistry*, **2020**, 18, 3858-3866	3.9	9
61	Anion Recognition by Neutral Chalcogen Bonding Receptors: Experimental and Theoretical Investigations. *Chemistry - A European Journal*, **2020**, 26, 4706-4713	4.8	32
60	Anion Recognition by Neutral Chalcogen Bonding Receptors: Experimental and Theoretical Investigation. *Chemistry - A European Journal*, **2020**, 26, 4644	4.8	0
59	Formation of self-assembled supramolecular polymers by anti-electrostatic anion-anion and halogen bonding interactions. *Chemical Communications*, **2020**, 56, 7084-7087	5.8	12
58	Exploiting 1,4-naphthoquinone and 3-iodo-1,4-naphthoquinone motifs as anion binding sites by hydrogen or halogen-bonding interactions. *Dalton Transactions*, **2019**, 48, 11813-11821	4.3	3
57	Triazole-Containing [FeFe] Hydrogenase Mimics: Synthesis and Electrocatalytic Behavior. *Inorganic Chemistry*, **2019**, 58, 16267-16278	5.1	7
56	Synthesis, Structure and Anion Sensing Properties of a Dicationic Bis(imidazolium)-Based Cyclophane. *ChemistrySelect*, **2018**, 3, 3855-3859	1.8	5
55	Interlocked Supramolecular Polymers Created by Combination of Halogen- and Hydrogen-Bonding Interactions through Anion-Template Self-Assembly. *Journal of the American Chemical Society*, **2018**, 140, 2041-2045	16.4	45
54	Enhancement of anion recognition exhibited by a zinc-imidazole-based ion-pair receptor composed of C-H hydrogen- and halogen-bond donor groups. *Dalton Transactions*, **2018**, 47, 15941-15947	4.3	11
53	Anion Recognition Strategies Based on Combined Noncovalent Interactions. *Chemical Reviews*, **2017**, 117, 9907-9972	68.1	218
52	Ferrocene□triazole Combination as a Benchmark for the Electrochemical Detection of Noncovalent Halogen-Bonding Interactions. *European Journal of Inorganic Chemistry*, **2017**, 2017, 237-241	2.3	25
51	Modulation of the Selectivity in Anions Recognition Processes by Combining Hydrogen- and Halogen-Bonding Interactions. *Molecules*, **2017**, 22,	4.8	8
50	Host-Guest Chemistry: Oxoanion Recognition Based on Combined Charge-Assisted C-H or Halogen-Bonding Interactions and Anion???Anion Interactions Mediated by Hydrogen Bonds. *Chemistry - A European Journal*, **2016**, 22, 7533-44	4.8	37
49	2,4,5-Trimethylimidazolium Scaffold for Anion Recognition Receptors Acting Through Charge-Assisted Aliphatic and Aromatic C-H Interactions. *Journal of Organic Chemistry*, **2016**, 81, 3790-8	4.2	16
48	Comparative Study of Charge-Assisted Hydrogen- and Halogen-Bonding Capabilities in Solution of Two-Armed Imidazolium Receptors toward Oxoanions. *Journal of Organic Chemistry*, **2016**, 81, 7448-58	4.2	29
47	Pyrene-based dyad and triad leading to a reversible chemical and redox optical and magnetic switch. *Chemistry - A European Journal*, **2015**, 21, 5504-9	4.8	5
46	Dual Role of the 1,2,3-Triazolium Ring as a Hydrogen-Bond Donor and Anion-□Receptor in Anion-Recognition Processes. *Chemistry - A European Journal*, **2015**, 21, 9797-808	4.8	41

45	A halogen- and hydrogen-bonding [2]catenane for anion recognition and sensing. *RSC Advances*, **2015**, 5, 9298-9306	3.7	23
44	A case of oxoanion recognition based on combined cationic and neutral C-H hydrogen bond interactions. *Organic and Biomolecular Chemistry*, **2015**, 13, 1339-46	3.9	20
43	Open bis(triazolium) structural motifs as a benchmark to study combined hydrogen- and halogen-bonding interactions in oxoanion recognition processes. *Journal of Organic Chemistry*, **2014**, 79, 6959-69	4.2	72
42	Observation of strong halogen bonds in the solid state structures of bis-haloimidazolium macrocycles. *CrystEngComm*, **2014**, 16, 3722-3729	3.3	13
41	Discovery of anion-π interactions in the recognition mechanism of inorganic anions by 1,2,3-triazolium rings. *Chemical Communications*, **2014**, 50, 4680-2	5.8	26
40	Iodide-induced shuttling of a halogen- and hydrogen-bonding two-station rotaxane. *Angewandte Chemie - International Edition*, **2014**, 53, 11854-8	16.4	44
39	A ferrocene imidazolium-based macrocycle as an electrochemical chemosensor for halide anions. *CrystEngComm*, **2014**, 16, 3694-3698	3.3	18
38	Iodide-Induced Shuttling of a Halogen- and Hydrogen-Bonding Two-Station Rotaxane. *Angewandte Chemie*, **2014**, 126, 12048-12052	3.6	16
37	PDMS based photonic lab-on-a-chip for the selective optical detection of heavy metal ions. *Analyst, The*, **2013**, 138, 839-44	5	21
36	Interlocked host molecules for anion recognition and sensing. *Coordination Chemistry Reviews*, **2013**, 257, 2434-2455	23.2	126
35	Iodo-imidazolium salts: halogen bonding in crystals and anion-templated pseudorotaxanes. *CrystEngComm*, **2013**, 15, 3076-3081	3.3	25
34	A catenane assembled through a single charge-assisted halogen bond. *Angewandte Chemie - International Edition*, **2013**, 52, 4356-60	16.4	77
33	A Catenane Assembled through a Single Charge-Assisted Halogen Bond. *Angewandte Chemie*, **2013**, 125, 4452-4456	3.6	27
32	A halogen-bonding catenane for anion recognition and sensing. *Angewandte Chemie - International Edition*, **2012**, 51, 1876-80	16.4	179
31	A Halogen-Bonding Catenane for Anion Recognition and Sensing. *Angewandte Chemie*, **2012**, 124, 1912-1916	3.6	48
30	Fluorescent charge-assisted halogen-bonding macrocyclic halo-imidazolium receptors for anion recognition and sensing in aqueous media. *Journal of the American Chemical Society*, **2012**, 134, 11533-41	16.4	186
29	A Bidentate Halogen-Bonding Bromoimidazoliophane Receptor for Bromide Ion Recognition in Aqueous Media. *Angewandte Chemie*, **2011**, 123, 1885-1888	3.6	37
28	A bidentate halogen-bonding bromoimidazoliophane receptor for bromide ion recognition in aqueous media. *Angewandte Chemie - International Edition*, **2011**, 50, 1845-8	16.4	155

27	A ferrocene-quinoxaline derivative as a highly selective probe for colorimetric and redox sensing of toxic mercury(II) cations. *Sensors*, **2010**, 10, 11311-21	3.8	31
26	Ferrocene-substituted nitrogen-rich ring systems as multichannel molecular chemosensors for anions in aqueous environment. *Journal of Organic Chemistry*, **2010**, 75, 162-9	4.2	67
25	A multifaceted ferrocene-benzobisimidazole derivative: fluorogenic probe for Pb(2+) and Zn(2+) cations and unconventional fluorescence behaviour towards Cu(2+) metal cations. *Dalton Transactions*, **2010**, 39, 5429-31	4.3	27
24	A Selective Chromogenic and Fluorescent Molecular Probe for YbIII Based on a Bichromophoric Azadiene. *European Journal of Inorganic Chemistry*, **2010**, 2010, 697-703	2.3	10
23	A click-generated triazole tethered ferrocene-pyrene dyad for dual-mode recognition of the pyrophosphate anion. *Organic Letters*, **2009**, 11, 3466-9	6.2	128
22	A selective redox and chromogenic probe for Hg(II) in aqueous environment based on a ferrocene-azaquinoxaline dyad. *Inorganic Chemistry*, **2009**, 48, 11566-75	5.1	50
21	A multiresponsive two-arm ferrocene-based chemosensor molecule for selective detection of mercury. *Dalton Transactions*, **2009**, 2121-9	4.3	37
20	A redox-fluorescent molecular switch based on a heterobimetallic Ir(iii) complex with a ferrocenyl azaheterocycle as ancillary ligand. *Dalton Transactions*, **2009**, 3900-2	4.3	20
19	Heteroditopic ligands based on ferrocenyl benzimidazoles fused to an additional diaza heterocyclic ring system. *Dalton Transactions*, **2009**, 9653-8	4.3	31
18	Imidazole-annelated ferrocene derivatives as highly selective and sensitive multichannel chemical probes for Pb(II) cations. *Journal of Organic Chemistry*, **2009**, 74, 4787-96	4.2	89
17	Ferrocene-based small molecules for dual-channel sensing of heavy- and transition-metal cations. *Journal of Organic Chemistry*, **2008**, 73, 5489-97	4.2	62
16	Triple channel sensing of Pb(II) ions by a simple multiresponsive ferrocene receptor having a 1-deazapurine backbone. *Organic Letters*, **2008**, 10, 41-4	6.2	87
15	Cation coordination induced modulation of the anion sensing properties of a ferrocene-imidazophenanthroline dyad: multichannel recognition from phosphate-related to chloride anions. *Journal of Organic Chemistry*, **2008**, 73, 4034-44	4.2	157
14	Ferrocene-Based Small Molecules for Multichannel Molecular Recognition of Cations and Anions. *European Journal of Inorganic Chemistry*, **2008**, 2008, 3401-3417	2.3	154
13	Synthesis, electrochemical, and optical properties of linear homo- and heterometallocene triads. *Journal of Organic Chemistry*, **2007**, 72, 6924-37	4.2	21
12	A simple but effective ferrocene derivative as a redox, colorimetric, and fluorescent receptor for highly selective recognition of Zn2+ ions. *Organic Letters*, **2007**, 9, 2385-8	6.2	80
11	Electroactive thiazole derivatives capped with ferrocenyl units showing charge-transfer transition and selective ion-sensing properties: a combined experimental and theoretical study. *Inorganic Chemistry*, **2007**, 46, 825-38	5.1	68
10	Naked-eye and Selective Detection of Mercury (II) Ions in Mixed Aqueous Media Using a Cellulose-based Support. *Sensors*, **2007**, 7, 3481-3488	3.8	44

9	Multifunctional ferrocene-ruthenocene dyads linked by single or double aza-containing bridges displaying metal-metal interactions and cation recognition properties. *Journal of Organic Chemistry*, **2007**, 72, 1161-73	4.2	22
8	Ferrocene-thiophene dyads with azadiene spacers: electrochemical, electronic and cation sensing properties. *Dalton Transactions*, **2006**, 1390-8	4.3	20
7	2-Aza-1,3-butadiene derivatives featuring an anthracene or pyrene unit: highly selective colorimetric and fluorescent signaling of Cu2+ cation. *Organic Letters*, **2006**, 8, 3235-8	6.2	195
6	Highly selective chromogenic and redox or fluorescent sensors of Hg2+ in aqueous environment based on 1,4-disubstituted azines. *Journal of the American Chemical Society*, **2005**, 127, 15666-7	16.4	438
5	Multifunctional linear triferrocene derivatives linked by oxidizable bridges: optical, electronic, and cation sensing properties. *Organic Letters*, **2005**, 7, 3171-4	6.2	32
4	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. *European Journal of Inorganic Chemistry*, **2005**, 2005, 2436-2450	2.3	46
3	An electroactive nitrogen-rich [4.4]ferrocenophane displaying redox-switchable behavior: selective sensing, complexation, and decomplexation of Mg2+ ions. *Angewandte Chemie - International Edition*, **2005**, 44, 1977-81	16.4	38
2	An Electroactive Nitrogen-Rich [4.4]Ferrocenophane Displaying Redox-Switchable Behavior: Selective Sensing, Complexation, and Decomplexation of Mg2+ ions. *Angewandte Chemie*, **2005**, 117, 2013-2017	3.6	7
1	Selective fluorescence sensing of Li+ in an aqueous environment by a ferrocene-anthracene-linked dyad. *Organic Letters*, **2004**, 6, 4599-602	6.2	51