Alexandre Martinez

List of Publications by Year
in descending order

95 papers	2,435 citations	201575 27 h-index	233338 45 g-index
97 all docs	97 docs citations	97 times ranked	2222 citing authors

#	Article	IF	Citations
1	Frustrated behavior of Lewis/BrÃ¸nsted pairs inside molecular cages. Organic Chemistry Frontiers, 2022, 9, 1826-1836.	2.3	5
2	Access to the <i>Syn</i> diastereomers of cryptophane cages using HFIP. Chemical Communications, 2022, 58, 3330-3333.	2.2	4
3	Synthesis, Characterizations and Applications of Fluoroazaphosphatranes. Chemistry - an Asian Journal, 2022, , e202200115.	1.7	0
4	A caged tris(2-pyridylmethyl)amine ligand equipped with a C_{triazole}-H hydrogen bonding cavity.. Dalton Transactions, 2022, , .	1.6	2
5	A tris(benzyltriazolemethyl)amine-based cage as a CuAAC ligand tolerant to exogeneous bulky nucleophiles. Chemical Communications, 2021, 57, 2281-2284.	2.2	12
6	Rationalization of chirality transfer and fast conformational changes in a tris(2-pyridylmethyl)amine-based cage. RSC Advances, 2021, 11, 13763-13768.	1.7	2
7	A curved host and second guest cooperatively inhibit the dynamic motion of corannulene. Nature Communications, 2021, 12, 4079.	5.8	24
8	The Chloroazaphosphatrane Motif for Halogen Bonding in Solution. Inorganic Chemistry, 2021, 60, 11964-11973.	1.9	3
9	Hemicryptophane Cages with a <i>C</i>₁-Symmetric Cyclotriveratrylene Unit. Journal of Organic Chemistry, 2021, 86, 15055-15062.	1.7	3
10	Enantiopure encaged Verkade's superbases: Synthesis, chiroptical properties, and use as chiral derivatizing agent. Chirality, 2020, 32, 139-146.	1.3	2
11	Azaphosphatranes Catalyzed Strecker Reaction in the Presence of Water. ChemistrySelect, 2020, 5, 14764-14767.	0.7	3
12	Control and Transfer of Chirality Within Well-Defined Tripodal Supramolecular Cages. Frontiers in Chemistry, 2020, 8, 599893.	1.8	4
13	Encapsulation of Azaphosphatranes and Proazaphosphatranes in Confined Spaces. ChemPlusChem, 2020, 85, 977-984.	1.3	3
14	A new fluorescent hemicryptophane for acetylcholine recognition with an unusual recognition mode. New Journal of Chemistry, 2020, 44, 11853-11860.	1.4	11
15	Highly Selective Fluoride Recognition by a Small Tris-Urea Covalent Cage. Journal of Organic Chemistry, 2020, 85, 4706-4711.	1.7	21
16	Enantio- and Substrate-Selective Recognition of Chiral Neurotransmitters with <i>C</i>₃-Symmetric Switchable Receptors. Organic Letters, 2020, 22, 891-895.	2.4	17
17	Controlling the Length of Cooperative Supramolecular Polymers with Chain Cappers. Chemistry - A European Journal, 2020, 26, 9964-9970.	1.7	18
18	Hemicryptophanes with Improved Fluorescent Properties for the Selective Recognition of Acetylcholine over Choline. Journal of Organic Chemistry, 2020, 85, 6400-6407.	1.7	7

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19	Positive Cooperative Effect in Ionâ€Pair Recognition by a Trisâ€urea Hemicryptophane Cage. Chemistry - A European Journal, 2019, 25, 3337-3342.	1.7	11
20	Synthesis, resolution, and chiroptical properties of hemicryptophane cage controlling the chirality of propeller arrangement of a C 3 triamide unit. Chirality, 2019, 31, 910-916.	1.3	9
21	Recognition of the persistent organic pollutant chlordecone by a hemicryptophane cage. New Journal of Chemistry, 2019, 43, 10222-10226.	1.4	11
22	Investigating the role of SBA-15 silica on the activity of quaternary ammonium halides in the coupling of epoxides and CO2. Journal of CO2 Utilization, 2019, 34, 34-39.	3.3	24
23	Selective recognition of acetylcholine over choline by a fluorescent cage. Organic and Biomolecular Chemistry, 2019, 17, 5253-5257.	1.5	7
24	Bioinspired Oxidation of Methane in the Confined Spaces of Molecular Cages. Inorganic Chemistry, 2019, 58, 7220-7228.	1.9	38
25	Different Strategies for Obtaining Enantiopure Hemicryptophanes. Synthesis, 2019, 51, 2081-2099.	1.2	5
26	High-Relaxivity Gd(III)â€“Hemicryptophane Complex. Organic Letters, 2019, 21, 1999-2003.	2.4	12
27	Investigation of activation energies for dissociation of hostâ€guest complexes in the gas phase using lowâ€energy collision induced dissociation. Journal of Mass Spectrometry, 2019, 54, 437-448.	0.7	7
28	Chirality transfer in a cage controls the clockwise/anticlockwise propeller arrangement of the tris(2-pyridylmethyl)amine ligand. Chemical Communications, 2019, 55, 14158-14161.	2.2	9
29	Platinumâ€“(phosphinitoâ€“phosphinous acid) complexes as bi-talented catalysts for oxidative fragmentation of piperidinols: an entry to primary amines. RSC Advances, 2019, 9, 37825-37829.	1.7	4
30	General methodology for the chemoselective N-alkylation of (2,2,6,6)-tetramethylpiperidin-4-ol: Contribution of microwave irradiation. Tetrahedron Letters, 2019, 60, 240-243.	0.7	5
31	Enantiopure <i>C</i>₁-Cyclotriveratrylene with a Reversed Spatial Arrangement of the Substituents. Organic Letters, 2019, 21, 160-165.	2.4	11
32	Investigation of Hemicryptophane Host-Guest Binding Energies Using High-Pressure Collision-Induced Dissociation in Combination with RRKM Modeling. Journal of the American Society for Mass Spectrometry, 2019, 30, 509-518.	1.2	2
33	Selective Anion Extraction and Recovery Using a Fe^{II}₄L₄ Cage. Angewandte Chemie - International Edition, 2018, 57, 3717-3721.	7.2	117
34	Selective Anion Extraction and Recovery Using a Fe^{II}₄L₄ Cage. Angewandte Chemie, 2018, 130, 3779-3783.	1.6	45
35	Zincâ€“Azatrane Complexes as Efficient Catalysts for the Conversion of Carbon Dioxide into Cyclic Carbonates. ChemCatChem, 2018, 10, 843-848.	1.8	35
36	Verkade's Superbase as an Organocatalyst for the Strecker Reaction. European Journal of Organic Chemistry, 2018, 2018, 6328-6332.	1.2	17

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37	A hemicryptophane with a triple-stranded helical structure. Beilstein Journal of Organic Chemistry, 2018, 14, 1885-1889.	1.3	4
38	Phosphinous Acid Platinum Complex as Robust Catalyst for Oxidation: Comparison with Palladium and Mechanistic Investigations. European Journal of Organic Chemistry, 2018, 2018, 5427-5434.	1.2	5
39	Covalent Cages with Inwardly Directed Reactive Centers as Confined Metal and Organocatalysts. European Journal of Organic Chemistry, 2018, 2018, 5618-5628.	1.2	16
40	A new heterogeneous hostâ€“guest catalytic system as an eco-friendly approach for the synthesis of cyclic carbonates from CO₂ and epoxides. New Journal of Chemistry, 2018, 42, 16863-16874.	1.4	12
41	Endohedral Functionalized Cage as a Tool to Create Frustrated Lewis Pairs. Angewandte Chemie - International Edition, 2018, 57, 14212-14215.	7.2	21
42	Endohedral Functionalized Cage as a Tool to Create Frustrated Lewis Pairs. Angewandte Chemie, 2018, 130, 14408-14411.	1.6	7
43	Synthesis of chiral supramolecular bisphosphinite palladacycles through hydrogen transfer-promoted self-assembly process. Chemical Communications, 2018, 54, 10132-10135.	2.2	7
44	Helical Chirality Induces a Substrate-Selectivity Switch in Carbohydrates Recognitions. Journal of Organic Chemistry, 2018, 83, 6301-6306.	1.7	32
45	Merging host-guest chemistry and organocatalysis for the chemical valorization of CO2. Catalysis Today, 2017, 281, 387-391.	2.2	13
46	â€œBreathingâ€•Motion of a Modulable Molecular Cavity. Chemistry - A European Journal, 2017, 23, 6495-6498.	1.7	20
47	Emergence of Hemicryptophanes: From Synthesis to Applications for Recognition, Molecular Machines, and Supramolecular Catalysis. Chemical Reviews, 2017, 117, 4900-4942.	23.0	160
48	Synthesis, Resolution, and Absolute Configuration of Chiral Tris(2-pyridylmethyl)amine-Based Hemicryptophane Molecular Cages. Journal of Organic Chemistry, 2017, 82, 6082-6088.	1.7	18
49	Anion Binding in Water Drives Structural Adaptation in an Azaphosphatrane-Functionalized Fe^{II}₄L₄ Tetrahedron. Journal of the American Chemical Society, 2017, 139, 6574-6577.	6.6	94
50	Synthesis of Gold(I) Complexes Bearing Verkade's Superbases. European Journal of Inorganic Chemistry, 2017, 2017, 4311-4316.	1.0	14
51	Sulfoxidation inside a <i>C</i>₃-Vanadium(V) Bowl-Shaped Catalyst. ACS Catalysis, 2017, 7, 7340-7345.	5.5	25
52	Tailored oxido-vanadium(V) cage complexes for selective sulfoxidation in confined spaces. Chemical Science, 2017, 8, 789-794.	3.7	36
53	Endohedral Functionalization of Molecular Cavities for Catalysis in Confined Spaces. Fundamental and Applied Catalysis, 2017, , 1-15.	0.9	1
54	Azaphosphatranes as Hydrogenâ€Bonding Organocatalysts for the Activation of Carbonyl Groups: Investigation of Lactide Ringâ€Opening Polymerization. European Journal of Organic Chemistry, 2016, 2016, 1619-1624.	1.2	10

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55	Helical, Axial, and Central Chirality Combined in a Single Cage: Synthesis, Absolute Configuration, and Recognition Properties. Chemistry - A European Journal, 2016, 22, 8038-8042.	1.7	27
56	Closed vs Openâ€Shell CTV Based Host Compounds: A Direct Comparison. ChemistrySelect, 2016, 1, 6316-6320.	0.7	4
57	Water-Soluble Cryptophanes: Design and Properties. , 2016, , 525-557.		9
58	Largeâ€Scale Synthesis of Enantiopure Molecular Cages: Chiroptical and Recognition Properties. Chemistry - A European Journal, 2016, 22, 2068-2074.	1.7	23
59	Synthesis and Structural Studies of Gallium(III) and Iron(III) Hemicryptophane Complexes. Inorganic Chemistry, 2016, 55, 1011-1013.	1.9	10
60	Cyclotriveratrylene-BINOL-Based Host Compounds: Synthesis, Absolute Configuration Assignment, and Recognition Properties. Journal of Organic Chemistry, 2016, 81, 3199-3205.	1.7	13
61	Insights into the Complexity of Weak Intermolecular Interactions Interfering in Hostâ€"Guest Systems. ChemPhysChem, 2015, 16, 2931-2935.	1.0	6
62	Remote Control of Helical Chirality: Thermodynamic Resolution of a Racemic Mixture of CTV Units by Remote Stereogenic Centers. Organic Letters, 2015, 17, 500-503.	2.4	16
63	A fluorescent heteroditopic hemicryptophane cage for the selective recognition of choline phosphate. Chemical Communications, 2015, 51, 2679-2682.	2.2	33
64	Diastereoselective recognition of Î±-mannoside by hemicryptophane receptors. New Journal of Chemistry, 2015, 39, 1749-1753.	1.4	11
65	Investigating Hostâ€"Guest Complexes in the Catalytic Synthesis of Cyclic Carbonates from Styrene Oxide and CO₂. ACS Catalysis, 2015, 5, 6748-6752.	5.5	60
66	Synthesis and physico-chemical properties of the first water soluble Cu(<scp>ii</scp>)@hemicryptophane complex. Organic and Biomolecular Chemistry, 2015, 13, 2157-2161.	1.5	11
67	Nâ€Heterocyclic Carbene Formation Induced Fluorescent and Colorimetric Sensing of Fluoride Using Perimidinium Derivatives. Chemistry - A European Journal, 2014, 20, 17161-17167.	1.7	17
68	Role of pre-organization around the azaphosphatrane catalyst's active site in the conversion of CO2 to cyclic carbonates. Catalysis Communications, 2014, 52, 26-30.	1.6	19
69	Improved hemicryptophane hosts for the stereoselective recognition of glucopyranosides. Organic and Biomolecular Chemistry, 2014, 12, 4211-4217.	1.5	26
70	Immobilization of a N-substituted azaphosphatrane in nanopores of SBA-15 silica for the production of cyclic carbonates. Journal of Materials Chemistry A, 2014, 2, 14164-14172.	5.2	20
71	Catalytic Activity of an Encaged Verkadeâ€™s Superbase in a Base-Catalyzed Dielsâ€"Alder Reaction. Journal of Organic Chemistry, 2014, 79, 8684-8688.	1.7	27
72	Azaphosphatrane Organocatalysts in Confined Space: Cage Effect in CO₂ Conversion. Chemistry - A European Journal, 2014, 20, 8571-8574.	1.7	52

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73	Synthesis of the First Water-Soluble Hemicryptophane Host: Selective Recognition of Choline in Aqueous Medium. Organic Letters, 2014, 16, 2374-2377.	2.4	23
74	Superbases in Confined Space: Control of the Basicity and Reactivity of the Proton Transfer. Journal of the American Chemical Society, 2013, 135, 18659-18664.	6.6	33
75	Hemicryptophane-assisted electron transfer: a structural and electronic study. Dalton Transactions, 2013, 42, 1530-1535.	1.6	23
76	Enantiopure Supramolecular Cages: Synthesis and Chiral Recognition Properties. Topics in Current Chemistry, 2013, 341, 177-230.	4.0	28
77	Oxidation of cycloalkanes by H2O2 using a copperâ€“hemicryptophane complex as a catalyst. Chemical Communications, 2013, 49, 1288.	2.2	67
78	Azaphosphatranes as Structurally Tunable Organocatalysts for Carbonate Synthesis from CO₂ and Epoxides. Journal of the American Chemical Society, 2013, 135, 5348-5351.	6.6	171
79	Chiral Discrimination of Ammonium Neurotransmitters by C₃â€Symmetric Enantiopure Hemicryptophane Hosts. Chirality, 2013, 25, 475-479.	1.3	25
80	Hemicryptophanehost as efficient primary alkylammonium ion receptor. Organic and Biomolecular Chemistry, 2012, 10, 1056-1059.	1.5	23
81	Azaphosphatrane Cations: Weak Acids, Robust Phaseâ€transfer Catalysts. ChemCatChem, 2012, 4, 2045-2049.	1.8	7
82	Homogeneous and silica-supported azidoproazaphosphatranes as efficient catalysts for the synthesis of substituted coumarins. Catalysis Communications, 2012, 28, 1-4.	1.6	10
83	Absolute Configuration and Enantiodifferentiation of a Hemicryptophane Incorporating an Azaphosphatrane Moiety. Chirality, 2012, 24, 1077-1081.	1.3	19
84	Combined Cationâ€“Ï€ and Anionâ€“Ï€ Interactions for Zwitterion Recognition. Angewandte Chemie - International Edition, 2012, 51, 504-508.	7.2	76
85	Exclusive enantioselective recognition of glucopyranosides by inherently chiral hemicryptophanes. Chemical Communications, 2011, 47, 5861.	2.2	52
86	Encaging the Verkadeâ€™s Superbases: Thermodynamic and Kinetic Consequences. Journal of the American Chemical Society, 2011, 133, 2157-2159.	6.6	59
87	Shorter and Modular Synthesis of Hemicryptophane-tren Derivatives. Organic Letters, 2011, 13, 3706-3709.	2.4	41
88	A New Step Towards Solid Base Catalysis: Azidoproazaphosphatranes Immobilized in Nanopores of Mesoporous Silica. Advanced Synthesis and Catalysis, 2011, 353, 2067-2077.	2.1	19
89	The Cooperative Effect in Ionâ€Pair Recognition by a Ditopic Hemicryptophane Host. Chemistry - A European Journal, 2011, 17, 4177-4182.	1.7	61
90	A Designed Cavity for Zwitterionic Species: Selective Recognition of Taurine in Aqueous Media. Chemistry - A European Journal, 2011, 17, 13405-13408.	1.7	36

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91	Resolution and absolute configuration assignment of a chiral hemicryptophane molecular cage. Chirality, 2010, 22, 885-888.	1.3	28
92	Controlling Helical Chirality in Atrane Structures: Solventâ€Dependent Chirality Sense in Hemicryptophaneâ€Oxidovanadium(V) Complexes. Chemistry - A European Journal, 2010, 16, 520-527.	1.7	44
93	Reversible, Solvent-Induced Chirality Switch in Atrane Structure: Control of the Unidirectional Motion of the Molecular Propeller. Journal of the American Chemical Society, 2010, 132, 16733-16734.	6.6	91
94	A New Class of C3-Symmetrical Hemicryptophane Hosts: Triamide- and Tren-hemicryptophanes. Journal of Organic Chemistry, 2010, 75, 2099-2102.	1.7	41
95	Hemicryptophaneâ€"oxidovanadium(V) complexes: Lead of a new class of efficient supramolecular catalysts. Journal of Catalysis, 2009, 267, 188-192.	3.1	55