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	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
2	Emergence of Hemicryptophanes: From Synthesis to Applications for Recognition, Molecular Machines, and Supramolecular Catalysis. Chemical Reviews, 2017, 117, 4900-4942.	23.0	160
3	Selective Anion Extraction and Recovery Using a Fe^{II}₄L₄ Cage. Angewandte Chemie - International Edition, 2018, 57, 3717-3721.	7.2	117
4	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
5	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
6	Combined Cationâ€“Ï€ and Anionâ€“Ï€ Interactions for Zwitterion Recognition. Angewandte Chemie - International Edition, 2012, 51, 504-508.	7.2	76
7	Oxidation of cycloalkanes by H2O2 using a copperâ€“hemicryptophane complex as a catalyst. Chemical Communications, 2013, 49, 1288.	2.2	67
8	The Cooperative Effect in Ionâ€Pair Recognition by a Ditopic Hemicryptophane Host. Chemistry - A European Journal, 2011, 17, 4177-4182.	1.7	61
9	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
10	Encaging the Verkadeâ€™s Superbases: Thermodynamic and Kinetic Consequences. Journal of the American Chemical Society, 2011, 133, 2157-2159.	6.6	59
11	Hemicryptophaneâ€“oxidovanadium(V) complexes: Lead of a new class of efficient supramolecular catalysts. Journal of Catalysis, 2009, 267, 188-192.	3.1	55
12	Exclusive enantioselective recognition of glucopyranosides by inherently chiral hemicryptophanes. Chemical Communications, 2011, 47, 5861.	2.2	52
13	Azaphosphatrane Organocatalysts in Confined Space: Cage Effect in CO₂ Conversion. Chemistry - A European Journal, 2014, 20, 8571-8574.	1.7	52
14	Selective Anion Extraction and Recovery Using a Fe^{II}₄L₄ Cage. Angewandte Chemie, 2018, 130, 3779-3783.	1.6	45
15	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
16	A New Class of C3-Symmetrical Hemicryptophane Hosts: Triamide- and Tren-hemicryptophanes. Journal of Organic Chemistry, 2010, 75, 2099-2102.	1.7	41
17	Shorter and Modular Synthesis of Hemicryptophane-tren Derivatives. Organic Letters, 2011, 13, 3706-3709.	2.4	41
18	Bioinspired Oxidation of Methane in the Confined Spaces of Molecular Cages. Inorganic Chemistry, 2019, 58, 7220-7228.	1.9	38

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19	A Designed Cavity for Zwitterionic Species: Selective Recognition of Taurine in Aqueous Media. Chemistry - A European Journal, 2011, 17, 13405-13408.	1.7	36
20	Tailored oxido-vanadium(V) cage complexes for selective sulfoxidation in confined spaces. Chemical Science, 2017, 8, 789-794.	3.7	36
21	Zincâ€“Azatrane Complexes as Efficient Catalysts for the Conversion of Carbon Dioxide into Cyclic Carbonates. ChemCatChem, 2018, 10, 843-848.	1.8	35
22	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
23	A fluorescent heteroditopic hemicryptophane cage for the selective recognition of choline phosphate. Chemical Communications, 2015, 51, 2679-2682.	2.2	33
24	Helical Chirality Induces a Substrate-Selectivity Switch in Carbohydrates Recognitions. Journal of Organic Chemistry, 2018, 83, 6301-6306.	1.7	32
25	Resolution and absolute configuration assignment of a chiral hemicryptophane molecular cage. Chirality, 2010, 22, 885-888.	1.3	28
26	Enantiopure Supramolecular Cages: Synthesis and Chiral Recognition Properties. Topics in Current Chemistry, 2013, 341, 177-230.	4.0	28
27	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
28	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
29	Improved hemicryptophane hosts for the stereoselective recognition of glucopyranosides. Organic and Biomolecular Chemistry, 2014, 12, 4211-4217.	1.5	26
30	Chiral Discrimination of Ammonium Neurotransmitters by C₃â€Symmetric Enantiopure Hemicryptophane Hosts. Chirality, 2013, 25, 475-479.	1.3	25
31	Sulfoxidation inside a <i>C</i>₃-Vanadium(V) Bowl-Shaped Catalyst. ACS Catalysis, 2017, 7, 7340-7345.	5.5	25
32	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
33	A curved host and second guest cooperatively inhibit the dynamic motion of corannulene. Nature Communications, 2021, 12, 4079.	5.8	24
34	Hemicryptophanehost as efficient primary alkylammonium ion receptor. Organic and Biomolecular Chemistry, 2012, 10, 1056-1059.	1.5	23
35	Hemicryptophane-assisted electron transfer: a structural and electronic study. Dalton Transactions, 2013, 42, 1530-1535.	1.6	23
36	Synthesis of the First Water-Soluble Hemicryptophane Host: Selective Recognition of Choline in Aqueous Medium. Organic Letters, 2014, 16, 2374-2377.	2.4	23

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37	Largeâ€Scale Synthesis of Enantiopure Molecular Cages: Chiroptical and Recognition Properties. Chemistry - A European Journal, 2016, 22, 2068-2074.	1.7	23
38	Endohedral Functionalized Cage as a Tool to Create Frustrated Lewis Pairs. Angewandte Chemie - International Edition, 2018, 57, 14212-14215.	7.2	21
39	Highly Selective Fluoride Recognition by a Small Tris-Urea Covalent Cage. Journal of Organic Chemistry, 2020, 85, 4706-4711.	1.7	21
40	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
41	â€œBreathingâ€•Motion of a Modulable Molecular Cavity. Chemistry - A European Journal, 2017, 23, 6495-6498.	1.7	20
42	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
43	Absolute Configuration and Enantiodifferentiation of a Hemicryptophane Incorporating an Azaphosphatrane Moiety. Chirality, 2012, 24, 1077-1081.	1.3	19
44	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
45	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
46	Controlling the Length of Cooperative Supramolecular Polymers with Chain Cappers. Chemistry - A European Journal, 2020, 26, 9964-9970.	1.7	18
47	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
48	Verkade's Superbase as an Organocatalyst for the Strecker Reaction. European Journal of Organic Chemistry, 2018, 2018, 6328-6332.	1.2	17
49	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
50	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
51	Covalent Cages with Inwardly Directed Reactive Centers as Confined Metal and Organocatalysts. European Journal of Organic Chemistry, 2018, 2018, 5618-5628.	1.2	16
52	Synthesis of Gold(I) Complexes Bearing Verkade's Superbases. European Journal of Inorganic Chemistry, 2017, 2017, 4311-4316.	1.0	14
53	Cyclotriveratrylene-BINOL-Based Host Compounds: Synthesis, Absolute Configuration Assignment, and Recognition Properties. Journal of Organic Chemistry, 2016, 81, 3199-3205.	1.7	13
54	Merging host-guest chemistry and organocatalysis for the chemical valorization of CO2. Catalysis Today, 2017, 281, 387-391.	2.2	13

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55	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
56	High-Relaxivity Gd(III)â€“Hemicryptophane Complex. Organic Letters, 2019, 21, 1999-2003.	2.4	12
57	A tris(benzyltriazolemethyl)amine-based cage as a CuAAC ligand tolerant to exogeneous bulky nucleophiles. Chemical Communications, 2021, 57, 2281-2284.	2.2	12
58	Diastereoselective recognition of Î±-mannoside by hemicryptophane receptors. New Journal of Chemistry, 2015, 39, 1749-1753.	1.4	11
59	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
60	Positive Cooperative Effect in Ionâ€Pair Recognition by a Trisâ€urea Hemicryptophane Cage. Chemistry - A European Journal, 2019, 25, 3337-3342.	1.7	11
61	Recognition of the persistent organic pollutant chlordecone by a hemicryptophane cage. New Journal of Chemistry, 2019, 43, 10222-10226.	1.4	11
62	Enantiopure <i>C</i>₁-Cyclotriveratrylene with a Reversed Spatial Arrangement of the Substituents. Organic Letters, 2019, 21, 160-165.	2.4	11
63	A new fluorescent hemicryptophane for acetylcholine recognition with an unusual recognition mode. New Journal of Chemistry, 2020, 44, 11853-11860.	1.4	11
64	Homogeneous and silica-supported azidoproazaphosphatranes as efficient catalysts for the synthesis of substituted coumarins. Catalysis Communications, 2012, 28, 1-4.	1.6	10
65	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
66	Synthesis and Structural Studies of Gallium(III) and Iron(III) Hemicryptophane Complexes. Inorganic Chemistry, 2016, 55, 1011-1013.	1.9	10
67	Water-Soluble Cryptophanes: Design and Properties. , 2016, , 525-557.		9
68	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
69	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
70	Azaphosphatrane Cations: Weak Acids, Robust Phaseâ€transfer Catalysts. ChemCatChem, 2012, 4, 2045-2049.	1.8	7
71	Endohedral Functionalized Cage as a Tool to Create Frustrated Lewis Pairs. Angewandte Chemie, 2018, 130, 14408-14411.	1.6	7
72	Synthesis of chiral supramolecular bisphosphinite palladacycles through hydrogen transfer-promoted self-assembly process. Chemical Communications, 2018, 54, 10132-10135.	2.2	7

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73	Selective recognition of acetylcholine over choline by a fluorescent cage. Organic and Biomolecular Chemistry, 2019, 17, 5253-5257.	1.5	7
74	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
75	Hemicryptophanes with Improved Fluorescent Properties for the Selective Recognition of Acetylcholine over Choline. Journal of Organic Chemistry, 2020, 85, 6400-6407.	1.7	7
76	Insights into the Complexity of Weak Intermolecular Interactions Interfering in Hostâ€“Guest Systems. ChemPhysChem, 2015, 16, 2931-2935.	1.0	6
77	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
78	Different Strategies for Obtaining Enantiopure Hemicryptophanes. Synthesis, 2019, 51, 2081-2099.	1.2	5
79	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
80	Frustrated behavior of Lewis/BrÃ¸nsted pairs inside molecular cages. Organic Chemistry Frontiers, 2022, 9, 1826-1836.	2.3	5
81	Closed vs Openâ€Shell CTV Based Host Compounds: A Direct Comparison. ChemistrySelect, 2016, 1, 6316-6320.	0.7	4
82	A hemicryptophane with a triple-stranded helical structure. Beilstein Journal of Organic Chemistry, 2018, 14, 1885-1889.	1.3	4
83	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
84	Control and Transfer of Chirality Within Well-Defined Tripodal Supramolecular Cages. Frontiers in Chemistry, 2020, 8, 599893.	1.8	4
85	Access to the <i>Syn</i> diastereomers of cryptophane cages using HFIP. Chemical Communications, 2022, 58, 3330-3333.	2.2	4
86	Azaphosphatranes Catalyzed Strecker Reaction in the Presence of Water. ChemistrySelect, 2020, 5, 14764-14767.	0.7	3
87	Encapsulation of Azaphosphatranes and Proazaphosphatranes in Confined Spaces. ChemPlusChem, 2020, 85, 977-984.	1.3	3
88	The Chloroazaphosphatrane Motif for Halogen Bonding in Solution. Inorganic Chemistry, 2021, 60, 11964-11973.	1.9	3
89	Hemicryptophane Cages with a <i>C</i>₁-Symmetric Cyclotriveratrylene Unit. Journal of Organic Chemistry, 2021, 86, 15055-15062.	1.7	3
90	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

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91	Enantiopure encaged Verkade's superbases: Synthesis, chiroptical properties, and use as chiral derivatizing agent. Chirality, 2020, 32, 139-146.	1.3	2
92	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
93	A caged tris(2-pyridylmethyl)amine ligand equipped with a C_{triazole}-H hydrogen bonding cavity.. Dalton Transactions, 2022, , .	1.6	2
94	Endohedral Functionalization of Molecular Cavities for Catalysis in Confined Spaces. Fundamental and Applied Catalysis, 2017, , 1-15.	0.9	1
95	Synthesis, Characterizations and Applications of Fluoroazaphosphatranes. Chemistry - an Asian Journal, 2022, , e202200115.	1.7	0