Andrea Secchi

List of Publications by Year
in descending order

92	3,095	159585 30	168389 53
papers	citations	h-index	g-index

96	96	96	2543
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Calix[4]arenes Blocked in a Rigid Cone Conformation by Selective Functionalization at the Lower Rim. Journal of Organic Chemistry, 1995, 60, 1454-1457.	3.2	198
2	Completing the uric acid degradation pathway through phylogenetic comparison of whole genomes. Nature Chemical Biology, 2006, 2, 144-148.	8.0	197
3	A Simple Molecular Machine Operated by Photoinduced Proton Transfer. Journal of the American Chemical Society, 2007, 129, 13378-13379.	13.7	195
4	Viologen-Calix[6]arene Pseudorotaxanes. Ion-Pair Recognition and Threading/Dethreading Molecular Motions. Journal of Organic Chemistry, 2004, 69, 5881-5887.	3.2	143
5	Calix[6]arene as a Wheel for Rotaxane Synthesis. Angewandte Chemie - International Edition, 2000, 39, 3453-3456.	13.8	114
6	Unidirectional Threading of Triphenylureidocalix[6]arene-Based Wheels: Oriented Pseudorotaxane Synthesis. Chemistry - A European Journal, 2003, 9, 793-799.	3.3	98
7	Rigid cone calix[4]arenes as Ï€-donor systems: complexation of organic molecules and ammonium ions in organic media. Journal of the Chemical Society Perkin Transactions II, 1996, , 839-846.	0.9	94
8	Anion Allosteric Effect in the Recognition of Tetramethylammonium Salts by Calix[4]areneConeConformers. Journal of Organic Chemistry, 2001, 66, 8302-8308.	3.2	91
9	Toward Directionally Controlled Molecular Motions and Kinetic Intra- and Intermolecular Self-Sorting: Threading Processes of Nonsymmetric Wheel and Axle Components. Journal of the American Chemical Society, 2013, 135, 9924-9930.	13.7	91
10	Recognition of quaternary ammonium cations by calix[4]arene derivatives supported on gold nanoparticles. Chemical Communications, 2005, , 645.	4.1	88
11	Selective Synthesis of Two Constitutionally Isomeric Oriented Calix[6]arene-Based Rotaxanes. Angewandte Chemie - International Edition, 2005, 44, 278-281.	13.8	87
12	Molecular Recognition by Calix[4]arene-Modified Gold Nanoparticles in Aqueous Solution. Angewandte Chemie - International Edition, 2005, 44, 2913-2916.	13.8	76
13	Anion Effects on the Recognition of Ion Pairs by Calix[4]arene-Based Heteroditopic Receptors. Journal of Organic Chemistry, 2002, 67, 6188-6194.	3.2	74
14	Rigid Calix[4]arene as a Building Block for the Synthesis of New Quaternary Ammonium Cation Receptors. European Journal of Organic Chemistry, 2000, 2000, 2325-2334.	2.4	70
15	Towards Controlling the Threading Direction of a Calix[6]arene Wheel by Using Nonsymmetric Axles. Chemistry - A European Journal, 2009, 15, 3230-3242.	3.3	70
16	Synthesis of 1,2-bridged calix[4]arene-biscrowns in the 1,2-alternate conformation. Tetrahedron, 1997, 53, 3767-3776.	1.9	65
17	Monotopic and heteroditopic calix[4]arene receptors as hosts for pyridinium and viologen ion pairs: a solution and solid-state study. Organic and Biomolecular Chemistry, 2009, 7, 3698.	2.8	62
18	Self-Assembled Hydrogen-Bonded Molecular Cages of Calix[6]arenetricarboxylic Acid Derivatives. Journal of Organic Chemistry, 1997, 62, 7866-7868.	3.2	59

#	Article	IF	Citations
19	Solventâ€•and Lightâ€Controlled Unidirectional Transit of a Nonsymmetric Molecular Axle Through a Nonsymmetric Molecular Wheel. Chemistry - A European Journal, 2012, 18, 16203-16213.	3.3	53
20	Interactions of the aromatic cavity of rigid calix[4]arene cone conformers with acid CH3 and CH2 containing guests in apolar solvents. Tetrahedron, 2001, 57, 2411-2417.	1.9	47
21	Selfâ€Assembly of a Double Calix[6]arene Pseudorotaxane in Oriented Channels. Chemistry - A European Journal, 2008, 14, 98-106.	3.3	46
22	Host-guest chemistry in the gas phase and at the gas-solid interface: Fundamental aspects and practical applications. Pure and Applied Chemistry, 1995, 67, 1075-1084.	1.9	43
23	CH/Ï€ interaction between benzene and model neutral organic molecules bearing acid CH groups. New Journal of Chemistry, 2002, 26, 1718-1723.	2.8	43
24	Gas-phase complexation of neutral molecules by upper rim bridged calix[4]arenes. Tetrahedron, 1995, 51, 599-606.	1.9	40
25	New Upper Rim Pyridine-Bridged Calix[4]arenes:â€‰ Synthesis and Complexation Properties toward Neutral Molecules and Ammonium Ions in Organic Media. Journal of Organic Chemistry, 1996, 61, 6881-6887.	3.2	40
26	Novel coating for solid-phase microextraction: Electropolymerization of a molecular receptor functionalized with 2,2â€²-bithiophene for the determination of environmental pollutants at trace levels. Journal of Chromatography A, 2009, 1216, 3725-3730.	3.7	40
27	Rotaxanes with a calix[6]arene wheel and axles of different length. Synthesis, characterization, and photophysical and electrochemical properties. Tetrahedron, 2008, 64, 8279-8286.	1.9	39
28	New calix[4]arenes having electron donating groups at the upper rim as molecular platforms and host molecules. Tetrahedron, 1996, 52, 6011-6018.	1.9	33
29	Luminescence quenching in supramolecular assemblies of quantum dots and bipyridinium dications. Journal of Materials Chemistry, 2008, 18, 2022.	6.7	32
30	Guest Controlled Assembly of Gold Nanoparticles Coated with Calix[4]arene Hosts. Journal of Physical Chemistry C, 2010, 114, 13601-13607.	3.1	30
31	Calix[4]Arene Cavitands: A Solid State Study on the Interactions of their Aromatic Cavity with Neutral Organic Guests Characterised by Acid CH₃ or CH₂ Groups. Supramolecular Chemistry, 2000, 12, 273-291.	1.2	28
32	An integrated approach to the study of the recognition of guests containing CH3 and CH2 acidic groups by differently rigidified cone p-tert-butylcalix[4]arene derivativesElectronic supplementary information (ESI) available: experimental conditions used for calorimetric measurements. See http://www.rsc.org/suppdata/nj/b3/b308996g/. New Journal of Chemistry, 2004, 28, 56.	2.8	27
33	Selfâ€Assembly of Calix[6]areneâ€“Diazapyrenium Pseudorotaxanes: Interplay of Molecular Recognition and Ionâ€Pairing Effects. Chemistry - A European Journal, 2010, 16, 3467-3475.	3.3	27
34	Synthesis of Cavity Extended Cyclotriveratrylenes. Journal of Organic Chemistry, 2004, 69, 1386-1388.	3.2	26
35	Calix[6]arene-based pseudorotaxanes: a solid state structural investigation. CrystEngComm, 2004, 6, 227.	2.6	24
36	Design, Synthesis and Recognition Properties of Ureaâ€Type Anion Receptors in Low Polar Media. European Journal of Organic Chemistry, 2008, 2008, 109-120.	2.4	23

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37	New selective gas sensor based on piezoelectric quartz crystal modified by electropolymerization of a molecular receptor functionalised with 2,2â€²-bithiophene. Sensors and Actuators B: Chemical, 2006, 115, 62-68.	7.8	22
38	Recognition of Amides by New Rigid Calix[4]arene-Based Cavitands. Journal of Organic Chemistry, 2000, 65, 9085-9091.	3.2	21
39	Recognition of guests bearing donor and acceptor hydrogen bonding groups by heteroditopic calix[4]arene receptors. Tetrahedron, 2003, 59, 7587-7594.	1.9	20
40	A new macrocavitand from the head to tail four-point capping of p-tert-butylcalix[8]arene with a calix[4]arene. Journal of the Chemical Society Chemical Communications, 1995, , 879.	2.0	18
41	Energetics of the Inclusion of Organic Molecules by Rigidified Cone Calix[4]arenes in Carbon Tetrachloride. Supramolecular Chemistry, 2001, 13, 379-386.	1.2	16
42	Lorentz microscopy sheds light on the role of dipolar interactions in magnetic hyperthermia. Nanoscale, 2015, 7, 7717-7725.	5.6	16
43	Synthesis and Characterization of Constitutionally Isomeric Oriented Calix[6]areneâ€Based Rotaxanes. European Journal of Organic Chemistry, 2016, 2016, 1033-1042.	2.4	16
44	Insights into teichoic acid biosynthesis byBifidobacterium bifidumPRL2010. FEMS Microbiology Letters, 2015, 362, fnv141.	1.8	15
45	Synthesis of Upper Rim Covalently Linked Double Calix[6]arenes. Tetrahedron, 2000, 56, 8573-8577.	1.9	14
46	Self-assembly of heteroditopic calix[4]arene capsules through ion-pair recognition. CrystEngComm, 2009, 11, 239-241.	2.6	14
47	Ion-Pair Selective Conformational Rearrangement of Sulfonamide Calix[6]arene-Based Pseudorotaxanes. Organic Letters, 2020, 22, 3702-3705.	4.6	14
48	Synthesis of Polyaromatic Hydrocarbons with a Central Rotor. European Journal of Organic Chemistry, 2002, 2002, 4185-4189.	2.4	13
49	The Effect of Ligand Denticity in Sizeâ€Selective Synthesis of Calix[n]areneâ€Stabilized Gold Nanoparticles: A Multitechnique Approach. Chemistry - A European Journal, 2010, 16, 11089-11099.	3.3	13
50	Hierarchical self-assembly of amphiphilic calix[6]arene wheels and viologen axles in water. Organic and Biomolecular Chemistry, 2013, 11, 5944.	2.8	13
51	Incorporation of Calix[6]Arene Macrocycles and (Pseudo)Rotaxanes in Bilayer Membranes: Towards Controllable Artificial Liposomal Channels. Asian Journal of Organic Chemistry, 2015, 4, 262-270.	2.7	13
52	Efficient active-template synthesis of calix[6]arene-based oriented pseudorotaxanes and rotaxanes. Organic and Biomolecular Chemistry, 2017, 15, 6753-6763.	2.8	13
53	Heteroditopic Calix[6]arene Based Intervowen and Interlocked Molecular Devices. Chemical Record, 2021, 21, 1161-1181.	5.8	13
54	Non-Bonded Water Molecules Confined Into a Self-Assembled Calixarene Cage. Journal of Supramolecular Chemistry, 2002, 2, 85-88.	0.4	12

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55	Preparation, reactivity and controlled release of SAMs of calix[4,6]arenes and calix[6]arene-based rotaxanes and pseudorotaxanes formed on polycrystalline Cu. Physical Chemistry Chemical Physics, 2011, 13, 4452.	2.8	12
56	Covalent capture of oriented calix[6]arene rotaxanes by a metal-free active template approach. Chemical Communications, 2017, 53, 6172-6174.	4.1	12
57	Redoxâ€Switchable Calix[6]areneâ€Based Isomeric Rotaxanes. Chemistry - A European Journal, 2018, 24, 12370-12382.	3.3	12
58	Photoinduced electron transfer from [Ru(bpy)3]2+ to a calix[6]arene-encapsulated viologen electron acceptor. Inorganica Chimica Acta, 2014, 417, 258-262.	2.4	11
59	Tuning the Fluorescence Through Reorientation of the Axle in Calix[6]areneâ€Based Pseudorotaxanes. Chemistry - A European Journal, 2020, 26, 3022-3025.	3.3	11
60	Calixarene Threading by Viologen-Based Axles. , 2016, , 761-781.		10
61	New Geometries for Calix[6]areneâ€Based Rotaxanes. European Journal of Organic Chemistry, 2019, 2019, 3513-3524.	2.4	10
62	Synthesis and properties of a redox-switchable calix[6]arene-based molecular lasso. Organic Chemistry Frontiers, 2020, 7, 648-659.	4.5	10
63	Surface grafting and reactivity of calixarene-based receptors and pseudorotaxanes on Si(100). Physical Chemistry Chemical Physics, 2011, 13, 4444.	2.8	9
64	Structural electronic study via XPS and TEM of subnanometric gold particles protected by calixarenes for silicon surface anchoring. Surface and Interface Analysis, 2012, 44, 1086-1090.	1.8	9
65	Synthesis by ring closing metathesis and properties of an electroactive calix[6]arene [2]catenane. Supramolecular Chemistry, 2016, 28, 427-435.	1.2	9
66	Electrochemically Triggered Co-Conformational Switching in a [2]catenane Comprising a Non-Symmetric Calix[6]arene Wheel and a Two-Station Oriented Macrocycle. Molecules, 2018, 23, 1156.	3.8	9
67	Organic guests inclusion by tungsten-calix[4]arene hosts. New Journal of Chemistry, 2006, 30, 952.	2.8	8
68	Assembly of Gold Nanoparticles on Functionalized Si(100) Surfaces through Pseudorotaxane Formation. Chemistry - A European Journal, 2013, 19, 7999-8006.	3.3	8
69	Tuning morphology and magnetism of magnetite nanoparticles by calix[8]arene-induced oriented aggregation. CrystEngComm, 2016, 18, 8591-8598.	2.6	8
70	Colloidal Au/iron oxide nanocrystal heterostructures: magnetic, plasmonic and magnetic hyperthermia properties. Journal of Materials Chemistry C, 2018, 6, 12329-12340.	5.5	8
71	Calix[4]areneâ€Functionalised Silver Nanoparticles as Hosts for Pyridiniumâ€Loaded Gold Nanoparticles as Guests. Chemistry - A European Journal, 2015, 21, 15428-15438.	3.3	7
72	The Structure and Function of a Microbial Allantoin Racemase Reveal the Origin and Conservation of a Catalytic Mechanism. Biochemistry, 2016, 55, 6421-6432.	2.5	7

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73	Trisulfonamide calix[6]arene-catalysed Michael addition to nitroalkenes. Organic and Biomolecular Chemistry, 2020, 18, 6241-6246.	2.8	7
74	Selective access to constitutionally identical, orientationally isomeric calix[6]arene-based [3]rotaxanes by an active template approach. Chemical Science, 2021, 12, 6419-6428.	7.4	7
75	Merging Molecular Recognition and Gold(I) Catalysis with Triphoscalix[6]arene Ligands. Chemistry - A European Journal, 2021, 27, 10261-10266.	3.3	7
76	Communication between Components in Metalâ€Directed Assemblies of Oriented Calix[6]areneâ€Based Pseudorotaxanes and Rotaxanes. European Journal of Organic Chemistry, 2012, 2012, 1033-1038.	2.4	6
77	Synthesis and recognition properties of calix[4]arene semitubes as ditopic hosts for N-alkylpyridinium ion pairs. CrystEngComm, 2016, 18, 5017-5027.	2.6	6
78	Calix[6]arene-based BrÃ¸nsted acids for molecular recognition and catalysis. Organic and Biomolecular Chemistry, 2021, 19, 1546-1554.	2.8	5
79	A thiourea calix[6]arene-based synthon that generates a supramolecular porous crystal structure. Supramolecular Chemistry, 2013, 25, 703-708.	1.2	4
80	Plugging a Bipyridinium Axle into Multichromophoric Calix[6]arene Wheels Bearing Naphthyl Units at Different Rims. ChemistryOpen, 2017, 6, 64-72.	1.9	4
81	Diametric calix[6]arene-based phosphine gold(I) cavitands. Beilstein Journal of Organic Chemistry, 2022, 18, 190-196.	2.2	4
82	Thioureidocalix[6]arenes Pseudorotaxanes. European Journal of Organic Chemistry, 2021, 2021, 5788-5798.	2.4	3
83	Calixarene-based artificial ionophores for chloride transport across natural liposomal bilayer: Synthesis, structure-function relationships, and computational study. Biochimica Et Biophysica Acta - Biomembranes, 2021, 1863, 183667.	2.6	3
84	Recognition of Neutral Molecules. , 2001, , 457-475.		2
85	Chlorosulfonation of 2-acylthiophenes: an examination on the reaction regiochemistry. Tetrahedron Letters, 2003, 44, 5755-5757.	1.4	2
86	Negatively Charged Gold Atoms in Subnanometric Particles: Experimental Evidence from an X-Ray Photoelectron Spectroscopy Study. Journal of Nanoscience and Nanotechnology, 2012, 12, 8851-8855.	0.9	2
87	Electrochemical Response of the Threading/de-threading Process of Calix[6]arene-based Pseudorotaxanes Anchored on Glassy Carbon Electrodes. Electrochimica Acta, 2017, 227, 391-400.	5.2	2
88	Synthesis of New Calix[4]arene-Based Ionophores. Collection of Czechoslovak Chemical Communications, 2004, 69, 1309-1324.	1.0	2
89	Molecular Landers as Probes for Molecular Device-Metal Surface Interactions. Annals of the New York Academy of Sciences, 2003, 1006, 82-93.	3.8	1
90	Calixarenes and Nanoparticles. , 2016, , 941-963.		1

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91	Molecular Machines and Nanodevices. , 2007, , 63-88.		0
92	Selective Assembling of Calixarenes and Pseudorotaxanes on Si(100) and Polycrystalline Copper. Journal of Nanoscience and Nanotechnology, 2011, 11, 9333-9339.	0.9	0