Sheng-Hsien Chiu

List of Publications by Year
in descending order

88 papers	4,171 citations	81743 39 h-index	118652 62 g-index
101 all docs	101 docs citations	101 times ranked	3200 citing authors

#	Article	IF	Citations
1	Metal-Ion-Induced Mechanical Chirality: Achiral Rotaxane as the Only Ligand in Chiral Palladium(II)â€“N-Heterocyclic Carbene Complexes. Organic Letters, 2022, 24, 1996-2001.	2.4	1
2	Using Slippage to Construct a Prototypical Molecular â€œLock & Lockâ€•Box. Organic Letters, 2021, 23, 5787-5792.	2.4	4
3	Complementarity of 2,6-Dimethanolpyridine and Di(ethylene glycol) in the Complexation of Na+ Ions: Attaching Multiple Copies of [2]Catenane Branches to Isophthalaldehyde-Containing Cores. Journal of Organic Chemistry, 2021, 86, 13491-13502.	1.7	1
4	Interlocking increases the persistence of N-heterocyclic carbenes in solution. Chemical Communications, 2020, 56, 4773-4776.	2.2	6
5	Nâ€Heterocyclic Carbene Copper(I) Rotaxanes Mediate Sequential Click Ligations with All Reagents Premixed. Angewandte Chemie - International Edition, 2020, 59, 11278-11282.	7.2	20
6	Nâ€Heterocyclic Carbene Copper(I) Rotaxanes Mediate Sequential Click Ligations with All Reagents Premixed. Angewandte Chemie, 2020, 132, 11374-11378.	1.6	13
7	Absolute Configurations of Topologically Chiral [2]Catenanes and the Acid/Base-Flippable Directions of Their Optical Rotations. Organic Letters, 2019, 21, 5708-5712.	2.4	13
8	Solventâ€free synthesis of rotaxanes. Journal of the Chinese Chemical Society, 2019, 66, 134-145.	0.8	6
9	Synthesis of Oxygen-Free [2]Rotaxanes: Recognition of Diarylguanidinium Ions by Tetraazacyclophanes. Organic Letters, 2018, 20, 2416-2419.	2.4	8
10	[2]Catenanes Displaying Switchable Gin-Trap-Like Motion. Journal of Organic Chemistry, 2018, 83, 5619-5628.	1.7	7
11	Interlocked Photoâ€degradable Macrocycles Allow Oneâ€Off Photoâ€triggerable Gelation of Organoâ€•and Hydrogelators. Chemistry - A European Journal, 2018, 24, 1522-1527.	1.7	13
12	Using Alkali Metal Ions To Template the Synthesis of Interlocked Molecules. Accounts of Chemical Research, 2018, 51, 1324-1337.	7.6	59
13	Na⁺ Ions Induce the Pirouetting Motion and Catalytic Activity of [2]Rotaxanes. Chemistry - A European Journal, 2017, 23, 9756-9760.	1.7	36
14	Mechanically interlocked daisy-chain-like structures as multidimensional molecular muscles. Nature Chemistry, 2017, 9, 128-134.	6.6	82
15	Incarceration of Higherâ€Order Fullerenes within Cyclotriveratryleneâ€Based Hemicarcerands Allows Selective Isolation of C₇₆, C₇₈, and C₈₄ from a Commercial Fullerene Mixture. Chemistry - A European Journal, 2016, 22, 17468-17476.	1.7	5
16	Size effects in the alkali metal ion-templated formation of oligo(ethylene glycol)-containing [2]catenanes. Organic and Biomolecular Chemistry, 2016, 14, 1153-1160.	1.5	17
17	RÃ¼cktitelbild: Cyclic [2]Catenane Dimers, Trimers, and Tetramers (Angew. Chem. 40/2015). Angewandte Chemie, 2015, 127, 12044-12044.	1.6	0
18	Cyclic [2]Catenane Dimers, Trimers, and Tetramers. Angewandte Chemie - International Edition, 2015, 54, 11745-11749.	7.2	25

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19	A Redox-Controllable Molecular Switch Based on Weak Recognition of BPX26C6 at a Diphenylurea Station. Molecules, 2015, 20, 1775-1787.	1.7	2
20	Synthesizing [2]Rotaxanes and [2]Catenanes through Na⁺-Templated Clipping of Macrocycles around Oligo(ethylene glycol) Units. Organic Letters, 2015, 17, 2158-2161.	2.4	17
21	Rotaxanes Synthesized Through Sodiumâ€Ionâ€Templated Clipping of Macrocycles Around Nonconjugated Amide and Urea Functionalities. Chemistry - A European Journal, 2014, 20, 4563-4567.	1.7	16
22	Five additional macrocycles that allow Na⁺ ion-templated threading of guest units featuring a single urea or amide functionality. Organic and Biomolecular Chemistry, 2014, 12, 2907-2917.	1.5	6
23	Hemicarceplex formation allows ready identification of the isomers of the metallofullerene Sc₃N@C₈₀using¹H and¹³C NMR spectroscopy. Chemical Communications, 2014, 50, 11709-11712.	2.2	20
24	Na⁺ Ion Templated Threading of Oligo(ethylene glycol) Chains through BPX26C6 Allows Synthesis of [2]Rotaxanes under Solvent-Free Conditions. Organic Letters, 2014, 16, 1068-1071.	2.4	24
25	Hemicarceplexes Modify the Solubility and Reduction Potentials of C₆₀. Journal of Organic Chemistry, 2014, 79, 3581-3586.	1.7	12
26	Sodium Ions Template the Formation of Rotaxanes from BPX26C6 and Nonconjugated Amide and Urea Functionalities. Angewandte Chemie, 2013, 125, 10421-10426.	1.6	10
27	Sodium Ions Template the Formation of Rotaxanes from BPX26C6 and Nonconjugated Amide and Urea Functionalities. Angewandte Chemie - International Edition, 2013, 52, 10231-10236.	7.2	34
28	Molecular Switch Based on Very Weak Association between BPX26C6 and Two Recognition Units. Organic Letters, 2013, 15, 5742-5745.	2.4	21
29	Observation of face-to-face hostâ€"guest associated states prior to threading of dialkylammonium ions into the DB24C8-like openings of a molecular cage. Chemical Communications, 2013, 49, 4199-4201.	2.2	6
30	Using â€œThreading Followed by Shrinkingâ€• to Synthesize Highly Stable Dialkylammoniumâ€Ionâ€Based Rotaxanes. Chemistry - A European Journal, 2013, 19, 8850-8860.	1.7	18
31	Synthesis of a [2]Catenane from the Sodium Ion Templated Orthogonal Arrangement of Two Diethylene Glycol Chains. Angewandte Chemie - International Edition, 2013, 52, 13269-13272.	7.2	49
32	Hemicarceplex Formation With a Cyclotriveratrylene-Based Molecular Cage Allows Isolation of High-Purity (â‰¥99.0%) C₇₀ Directly from Fullerene Extracts. Organic Letters, 2012, 14, 6146-6149.	2.4	46
33	A Twoâ€Stage Molecular Retractable Cable Featuring Pushâ€Button and Rotary Twoâ€Way Switching Modes. Chemistry - A European Journal, 2012, 18, 16698-16707.	1.7	10
34	Using Hostâ€"Guest Complexation to Fold a Flexible Linear Organic String: Kinetically Controlled Syntheses of [3]Catenanes and a Fiveâ€Membered Molecular Necklace. Angewandte Chemie - International Edition, 2012, 51, 10094-10098.	7.2	24
35	Using Oppositely Charged Ions To Operate a Three-Station [2]Rotaxane in Two Different Switching Modes. Organic Letters, 2012, 14, 1046-1049.	2.4	40
36	Serotonin accumulation in transgenic rice by over-expressing tryptophan decarboxlyase results in a dark brown phenotype and stunted growth. Plant Molecular Biology, 2012, 78, 525-543.	2.0	56

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37	Weakly Associated TFPB Anions Are Superior to PF₆ Anions When Preparing (Pseudo)Rotaxanes from Crown Ethers and Secondary Dialkylammonium Ions. Chemistry - A European Journal, 2012, 18, 1896-1900.	1.7	27
38	Self-Sorting under Solvent-Free Conditions: One-Pot Synthesis of a Hetero[3]rotaxane. Organic Letters, 2011, 13, 4660-4663.	2.4	45
39	Controlling the rotation of a complexed guest within a molecular cage. Dalton Transactions, 2011, 40, 2163-2166.	1.6	8
40	A Metalâ€•Free â€œThreadingâ€•Followedâ€•byâ€•Shrinkingâ€• Protocol for Rotaxane Synthesis. Angewandte Chemie - International Edition, 2011, 50, 6643-6646.	7.2	34
41	Squaraineâ€•Based [2]Rotaxanes that Function as Visibly Active Molecular Switches. Chemistry - A European Journal, 2010, 16, 2997-3000.	1.7	41
42	Using a Threadingâ€•Followedâ€•byâ€•Swelling Approach to Synthesize [2]Rotaxanes. Chemistry - A European Journal, 2010, 16, 6950-6960.	1.7	17
43	Acid/Baseâ€• and Anionâ€•Controllable Organogels Formed From a Ureaâ€•Based Molecular Switch. Angewandte Chemie - International Edition, 2010, 49, 9170-9173.	7.2	104
44	Using Dielsâ€“Alder reactions to synthesize [2]rotaxanes under solvent-free conditions. Tetrahedron, 2009, 65, 2824-2829.	1.0	30
45	Two [2]pseudorotaxane-like complexes and their corresponding [2]rotaxanes stabilized via interactions on opposite ends of the same macrocycle. Tetrahedron Letters, 2009, 50, 267-270.	0.7	16
46	A Molecular Cage-Based [2]Rotaxane That Behaves as a Molecular Muscle. Organic Letters, 2009, 11, 385-388.	2.4	98
47	A Guanidinium Ion-Based Anion- and Solvent Polarity-Controllable Molecular Switch. Organic Letters, 2009, 11, 613-616.	2.4	65
48	A Molecular Cage That Selectively Complexes Three Different Guests in Solution. Organic Letters, 2009, 11, 4604-4607.	2.4	14
49	Two guest complexation modes in a cyclotriveratrylene-based molecular container. Chemical Communications, 2009, , 5814.	2.2	13
50	Parking and Restarting a Molecular Shuttle In Situ. Chemistry - A European Journal, 2008, 14, 2904-2908.	1.7	40
51	Direct Observation of Mixedâ€•Valence and Radical Cation Dimer States of Tetrathiafulvalene in Solution at Room Temperature: Association and Dissociation of Molecular Clip Dimers Under Oxidative Control. Chemistry - A European Journal, 2008, 14, 6546-6552.	1.7	76
52	Efficient Solventâ€•Free Syntheses of [2]â€• and [4]Rotaxanes. Angewandte Chemie - International Edition, 2008, 47, 4436-4439.	7.2	63
53	Solventâ€•Free Synthesis of the Smallest Rotaxane Prepared to Date. Angewandte Chemie - International Edition, 2008, 47, 7475-7478.	7.2	75
54	Bis-p-xylyl[26]crown-6/pyridinium ion recognition: one-pot synthesis of molecular shuttles. Tetrahedron Letters, 2008, 49, 1665-1669.	0.7	17

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55	Capturing a [c2]daisy chain using the threading-followed-by-swelling approach. Chemical Communications, 2008, , 817-819.	2.2	34
56	A [2]rotaxane-based 1H NMR spectroscopic probe for the simultaneous identification of physiologically important metal ions in solution. Chemical Communications, 2007, , 4122.	2.2	44
57	Protecting a Squaraine near-IR Dye through Its Incorporation in a Slippage-Derived [2]Rotaxane. Organic Letters, 2007, 9, 4523-4526.	2.4	63
58	â€œThreading-Followed-by-Swellingâ€: A New Protocol for Rotaxane Synthesis. Journal of the American Chemical Society, 2007, 129, 3500-3501.	6.6	68
59	Use of Anions To Allow Translational Isomerism of a [2]Rotaxane. Chemistry - A European Journal, 2007, 13, 4350-4355.	1.7	76
60	Highly Selective Na+-Templated Formation of [2]Pseudorotaxanes Exhibiting Significant Optical Outputs. Angewandte Chemie - International Edition, 2007, 46, 2013-2017.	7.2	48
61	Using Acetate Anions To Induce Translational Isomerization in a Neutral Ureaâ€Based Molecular Switch. Angewandte Chemie - International Edition, 2007, 46, 6629-6633.	7.2	119
62	Aptamer-Functionalized Gold Nanoparticles for Turn-On Light Switch Detection of Platelet-Derived Growth Factor. Analytical Chemistry, 2007, 79, 4798-4804.	3.2	159
63	Reading the operation of an acid/base-controllable molecular switch by naked eye. Chemical Communications, 2006, , 2854.	2.2	63
64	Is [N+â˜HÂ·Â·Â·O] Hydrogen Bonding the Most Important Noncovalent Interaction in Macrocycleâ˜Dibenzylammonium Ion Complexes?. Journal of Organic Chemistry, 2006, 71, 2373-2383.	1.7	40
65	[3]Pseudorotaxane-Like Complexes Formed between Bipyridinium Dications and Bis-p-xylyl[26]crown-6. Organic Letters, 2006, 8, 435-438.	2.4	37
66	Dual-Action Acid/Base- and Base/Acid-Controllable Molecular Switch. Organic Letters, 2006, 8, 3223-3226.	2.4	20
67	A Macrocycle/Molecular-Clip Complex that Functions as a Quadruply Controllable Molecular Switch. Chemistry - A European Journal, 2006, 12, 865-876.	1.7	60
68	An Extremely Stable Hostâ€“Guest Complex That Functions as a Fluorescence Probe for Calcium Ions. Chemistry - A European Journal, 2006, 12, 4594-4599.	1.7	40
69	Precise Facial Control in Threading Guests into a Molecular Cage and the Formation of a Turtlelike Supramolecular Complex. Angewandte Chemie - International Edition, 2006, 45, 3176-3181.	7.2	32
70	A new macrocycle that forms pseudorotaxane-like complexes with dibenzylammonium ions. Tetrahedron Letters, 2005, 46, 4239-4242.	0.7	19
71	A switchable macrocycleâ€“clip complex that functions as a NOR logic gate. Chemical Communications, 2005, , 1285-1287.	2.2	40
72	Substituent effects in the binding of bis(4-fluorobenzyl)ammonium ions by dianilino[24]crown-8. Tetrahedron Letters, 2004, 45, 213-216.	0.7	22

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73	Polyvalent Interactions in Unnatural Recognition Processes. Journal of Organic Chemistry, 2004, 69, 4390-4402.	1.7	26
74	Molecular Borromean Rings. Science, 2004, 304, 1308-1312.	6.0	757
75	Mild and High-Yielding Syntheses of Diethyl Phosphoramidate-Stoppered [2]Rotaxanesâ€. Organic Letters, 2004, 6, 4183-4186.	2.4	42
76	Post-Assembly Processing of [2]Rotaxanes.. ChemInform, 2003, 34, no.	0.1	0
77	Self-Assembly of Dendrimers by Slippage. Organic Letters, 2002, 4, 3565-3568.	2.4	55
78	Reversing a Rotaxane Recognition Motif:Â Threading Oligoethylene Glycol Derivatives through a Dicationic Cyclophane. Journal of the American Chemical Society, 2002, 124, 4174-4175.	6.6	33
79	An Acidâ˘'Base Switchable [2]Rotaxane. Journal of Organic Chemistry, 2002, 67, 9175-9181.	1.7	143
80	Translational Isomerism in a [3]Catenane and a [3]Rotaxane. Organic Letters, 2002, 4, 3561-3564.	2.4	44
81	Dendrimer with Rotaxane-Like Mechanical Branching. Organic Letters, 2002, 4, 679-682.	2.4	65
82	An hermaphroditic [c2]daisy chain. Chemical Communications, 2002, , 2948-2949.	2.2	48
83	Post-Assembly Processing of [2]Rotaxanes. Chemistry - A European Journal, 2002, 8, 5170-5183.	1.7	60
84	A Ring-in-Ring Complex We thank Dr. Peter T. Glink, Dr. M. Jane Strouse, and Dr. Ping Yang for useful discussions and both the National Science Foundation and the Petroleum Research Fund, administered by the American Chemical Society, for generous financial support.. Angewandte Chemie - International Edition, 2002, 41, 270.	7.2	74
85	Making molecular-necklaces from rotaxanes. Tetrahedron, 2002, 58, 807-814.	1.0	44
86	A Rotaxane-Like Complex with Controlled-Release Characteristics. Organic Letters, 2000, 2, 3631-3634.	2.4	56
87	Novel Ether-Linked Secondary Face-to-Face 2â˘'2â€˘ and 3â˘'3â€˘ Î²-Cyclodextrin Dimers. Journal of Organic Chemistry, 2000, 65, 2792-2796.	1.7	52
88	Efficient Monomodification of the Secondary Hydroxy Groups of Î²-Cyclodextrin. Journal of Organic Chemistry, 1999, 64, 332-333.	1.7	13