Lyle D Isaacs

List of Publications by Year
in descending order

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205 papers	18,270 citations	14124 69 h-index	14779 131 g-index
230 all docs	230 docs citations	230 times ranked	10872 citing authors

#	Article	IF	Citations
1	The Cucurbit[n]uril Family. Angewandte Chemie - International Edition, 2005, 44, 4844-4870.	7.2	2,218
2	The Cucurbit[n]uril Family:Â Prime Components for Self-Sorting Systems. Journal of the American Chemical Society, 2005, 127, 15959-15967.	6.6	786
3	A Strategy for the Generation of Surfaces Presenting Ligands for Studies of Binding Based on an Active Ester as a Common Reactive Intermediate:ÂA Surface Plasmon Resonance Study. Analytical Chemistry, 1999, 71, 777-790.	3.2	582
4	A synthetic host-guest system achieves avidin-biotin affinity by overcoming enthalpyâ€“entropy compensation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20737-20742.	3.3	534
5	Stimuli Responsive Systems Constructed Using Cucurbit[n]uril-Type Molecular Containers. Accounts of Chemical Research, 2014, 47, 2052-2062.	7.6	431
6	Self-Sorting:â€‰ The Exception or the Rule?. Journal of the American Chemical Society, 2003, 125, 4831-4835.	6.6	425
7	Cucurbit[n]urils: from mechanism to structure and function. Chemical Communications, 2009, , 619-629.	2.2	381
8	Acyclic cucurbit[n]uril molecular containers enhance the solubility and bioactivity of poorly soluble pharmaceuticals. Nature Chemistry, 2012, 4, 503-510.	6.6	372
9	Cucurbit[7]urilâ‹…Guest Pair with an Attomolar Dissociation Constant. Angewandte Chemie - International Edition, 2014, 53, 988-993.	7.2	356
10	A Trivalent System from VancomycinÂ·D-Ala-D-Ala with Higher Affinity Than AvidinÂ·Biotin. Science, 1998, 280, 708-711.	6.0	323
11	Improved Purification of C60 and Formation of ?- and ?-Homoaromatic methano-bridged fullerenes by reaction with alkyl diazoacetates. Helvetica Chimica Acta, 1993, 76, 1231-1250.	1.0	312
12	Cucurbit[10]uril. Journal of the American Chemical Society, 2005, 127, 16798-16799.	6.6	298
13	Recognition-mediated activation of therapeutic gold nanoparticles inside living cells. Nature Chemistry, 2010, 2, 962-966.	6.6	295
14	Syntheses, structures, and properties of methanofullerenes. Chemical Society Reviews, 1994, 23, 243.	18.7	274
15	Toxicology and Drug Delivery by Cucurbit[n]uril Type Molecular Containers. PLoS ONE, 2010, 5, e10514.	1.1	224
16	Synthesis and Self-Assembly Processes of Monofunctionalized Cucurbit[7]uril. Journal of the American Chemical Society, 2012, 134, 13133-13140.	6.6	212
17	Tether-Directed Remote Functionalization of Buckminsterfullerene: Regiospecific Hexaadduct Formation. Angewandte Chemie International Edition in English, 1994, 33, 2339-2342.	4.4	203
18	High Fidelity Kinetic Self-Sorting in Multi-Component Systems Based on Guests with Multiple Binding Epitopes. Journal of the American Chemical Society, 2006, 128, 14093-14102.	6.6	190

#	Article	IF	Citations
19	Social Self-Sorting in Aqueous Solution. Journal of Organic Chemistry, 2004, 69, 6157-6164.	1.7	184
20	Mesoporous Silica Nanoparticles Coated by Layer-by-Layer Self-assembly Using Cucurbit[7]uril for in Vitro and in Vivo Anticancer Drug Release. Chemistry of Materials, 2014, 26, 6418-6431.	3.2	183
21	Synthetic mimics of biotin/(strept)avidin. Chemical Society Reviews, 2017, 46, 2391-2403.	18.7	174
22	Supramolecular PEGylation of biopharmaceuticals. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14189-14194.	3.3	171
23	Nor-Seco-Cucurbit[10]uril Exhibits Homotropic Allosterism. Journal of the American Chemical Society, 2006, 128, 14744-14745.	6.6	167
24	Metalâ€“Organic Polyhedron Capped with Cucurbit[8]uril Delivers Doxorubicin to Cancer Cells. Journal of the American Chemical Society, 2016, 138, 14488-14496.	6.6	164
25	The Inverted Cucurbit[n]uril Family. Journal of the American Chemical Society, 2005, 127, 18000-18001.	6.6	162
26	Shapeâ€Controllable and Fluorescent Supramolecular Organic Frameworks Through Aqueous Hostâ€“Guest Complexation. Angewandte Chemie - International Edition, 2018, 57, 729-733.	7.2	161
27	Templated Synthesis of Glycoluril Hexamer and Monofunctionalized Cucurbit[6]uril Derivatives. Journal of the American Chemical Society, 2011, 133, 17966-17976.	6.6	159
28	Cucurbit[7]uril Enables Multi-Stimuli-Responsive Release from the Self-Assembled Hydrophobic Phase of a Metal Organic Polyhedron. Journal of the American Chemical Society, 2017, 139, 9066-9074.	6.6	156
29	Cucurbit[n]urilâ^'Polyoxoanion Hybrids. Journal of the American Chemical Society, 2009, 131, 432-433.	6.6	154
30	Cucurbit[7]uril Containers for Targeted Delivery of Oxaliplatin to Cancer Cells. Angewandte Chemie - International Edition, 2013, 52, 12033-12037.	7.2	149
31	Structures and Chemistry of Methanofullerenes: A Versatile Route intoN-[(Methanofullerene)carbonyl]-Substituted Amino Acids. Helvetica Chimica Acta, 1993, 76, 2454-2464.	1.0	144
32	Supramolecular Sensor for Cancer-Associated Nitrosamines. Journal of the American Chemical Society, 2012, 134, 20021-20024.	6.6	143
33	Acyclic Cucurbit[n]urilâ€Type Molecular Containers Bind Neuromuscular Blocking Agents Inâ€...Vitro and Reverse Neuromuscular Block Inâ€...Vivo. Angewandte Chemie - International Edition, 2012, 51, 11358-11362.	7.2	138
34	Chiral Recognition inside a Chiral Cucurbituril. Angewandte Chemie - International Edition, 2007, 46, 7425-7427.	7.2	131
35	Biospecific Binding of Carbonic Anhydrase to Mixed SAMs Presenting Benzenesulfonamide Ligands:Â A Model System for Studying Lateral Steric Effects. Langmuir, 1999, 15, 7186-7198.	1.6	130
36	â€œTurn-onâ€•fluorescent sensor array for basic amino acids in water. Chemical Communications, 2014, 50, 61-63.	2.2	122

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37	Magnetic Iron Oxide Nanoparticles for Biorecognition:Â Evaluation of Surface Coverage and Activity. Journal of Physical Chemistry B, 2006, 110, 1553-1558.	1.2	121
38	Bis- through Tetrakis-Adducts of C60 by Reversible Tether-Directed Remote Functionalization and systematic investigation of the changes in fullerene properties as a function of degree, pattern, and nature of functionalization. Helvetica Chimica Acta, 1997, 80, 343-371.	1.0	120
39	Acyclic Cucurbit[n]uril Congeners Are High Affinity Hosts. Journal of Organic Chemistry, 2010, 75, 4786-4795.	1.7	119
40	Electrochemistry of Mono- through Hexakis-adducts of C60. Helvetica Chimica Acta, 1995, 78, 1334-1344.	1.0	117
41	Biological Catalysis Regulated by Cucurbit[7]uril Molecular Containers. Journal of the American Chemical Society, 2010, 132, 4445-4454.	6.6	117
42	Blind prediction of hostâ€“guest binding affinities: a new SAMPL3 challenge. Journal of Computer-Aided Molecular Design, 2012, 26, 475-487.	1.3	117
43	Multianalyte Sensing of Addictive Over-the-Counter (OTC) Drugs. Journal of the American Chemical Society, 2013, 135, 15238-15243.	6.6	116
44	Molecular Clips that Undergo Heterochiral Aggregation and Self-Sorting. Angewandte Chemie - International Edition, 2002, 41, 4028-4031.	7.2	111
45	Cucurbit[n]uril Analogues. Organic Letters, 2003, 5, 3745-3747.	2.4	108
46	Overview of the SAMPL6 hostâ€“guest binding affinity prediction challenge. Journal of Computer-Aided Molecular Design, 2018, 32, 937-963.	1.3	106
47	Methylene-Bridged Glycoluril Dimers:Â Synthetic Methods. Journal of Organic Chemistry, 2002, 67, 5817-5830.	1.7	102
48	The ex vivo neurotoxic, myotoxic and cardiotoxic activity of cucurbituril-based macrocyclic drug delivery vehicles. Toxicology Research, 2014, 3, 447-455.	0.9	100
49	Cucurbit[n]uril Formation Proceeds by Step-Growth Cyclo-oligomerization. Journal of the American Chemical Society, 2008, 130, 8446-8454.	6.6	98
50	Cucurbit[7]uril Complexation Drives Thermal transâ€“cisâ€Azobenzene Isomerization and Enables Colorimetric Amine Detection. Chemistry - A European Journal, 2009, 15, 11675-11680.	1.7	98
51	Ternary Complexes Comprising Cucurbit[10]uril, Porphyrins, and Guests. Angewandte Chemie - International Edition, 2008, 47, 2657-2660.	7.2	97
52	Synthesis of a Fullerene[60] Cryptate and Systematic Langmuirâ€Blodgett and Thinâ€Film Investigations of Amphiphilic Fullerene Derivatives. Chemistry - A European Journal, 1995, 1, 243-251.	1.7	94
53	Acyclic Cucurbit[n]uril-type Molecular Containers: Influence of Aromatic Walls on their Function as Solubilizing Excipients for Insoluble Drugs. Journal of Medicinal Chemistry, 2014, 57, 9554-9563.	2.9	94
54	Molecular-Recognition Properties of a Water-Soluble Cucurbit[6]uril Analogue. Journal of Organic Chemistry, 2006, 71, 1181-1190.	1.7	92

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55	Diastereoselective Formation of Glycoluril Dimers:Â Isomerization Mechanism and Implications for Cucurbit[n]uril Synthesis. Journal of the American Chemical Society, 2002, 124, 8297-8306.	6.6	91
56	Multiple Adducts of C60 by Tether-Directed Remote Functionalization and synthesis of soluble derivatives of new carbon allotropes Cn(60+5). Helvetica Chimica Acta, 1997, 80, 317-342.	1.0	90
57	Cucurbit[7]urilâ€"Tetramethylrhodamine Conjugate for Direct Sensing and Cellular Imaging. Journal of the American Chemical Society, 2016, 138, 16549-16552.	6.6	85
58	Solubilized Derivatives of C195 and C260: The First Members of a New Class of Carbon Allotropes Cn(60+ 5). Angewandte Chemie International Edition in English, 1995, 34, 1466-1469.	4.4	83
59	Cucurbit[n]uril Analogues:Â Synthetic and Mechanistic Studies. Journal of Organic Chemistry, 2005, 70, 10381-10392.	1.7	83
60	Spacerâ€kontrollierte Fernfunktionalisierung von Buckminsterfulleren: regiospezifische Bildung eines Hexaadduktes. Angewandte Chemie, 1994, 106, 2434-2437.	1.6	82
61	Daisy Chain Assembly Formed from a Cucurbit[6]uril Derivative. Organic Letters, 2012, 14, 3072-3075.	2.4	82
62	A Cucurbit[6]uril Analogue:Â Host Properties Monitored by Fluorescence Spectroscopy. Journal of Physical Chemistry B, 2005, 109, 7686-7691.	1.2	81
63	Supramolecular Sensors for Opiates and Their Metabolites. Journal of the American Chemical Society, 2017, 139, 14954-14960.	6.6	76
64	Valence isomerism and rearrangements in methanofullerenes. Journal of the Chemical Society Perkin Transactions II, 1994, , 391.	0.9	74
65	Metastable single-chain polymer nanoparticles prepared by dynamic cross-linking with nor-seco-cucurbit[10]uril. Chemical Science, 2012, 3, 2278.	3.7	74
66	Calabadion. Anesthesiology, 2013, 119, 317-325.	1.3	74
67	Supramolecular hosts as in vivo sequestration agents for pharmaceuticals and toxins. Chemical Society Reviews, 2020, 49, 7516-7532.	18.7	73
68	Hostâ€"Guest Tethered DNA Transducer: ATP Fueled Release of a Protein Inhibitor from Cucurbit[7]uril. Journal of the American Chemical Society, 2017, 139, 13916-13921.	6.6	72
69	Comparative Effectiveness of Calabadion and Sugammadex to Reverse Non-depolarizing Neuromuscular-blocking Agents. Anesthesiology, 2015, 123, 1337-1349.	1.3	71
70	Glycoluril derivatives form hydrogen bonded tapes rather than cucurbit[n]uril congeners. Tetrahedron, 2002, 58, 9769-9777.	1.0	69
71	Self-Sorting Molecular Clips. Journal of Organic Chemistry, 2008, 73, 5915-5925.	1.7	67
72	Unraveling the Structureâ€"Affinity Relationship between Cucurbit[n]urils (n = 7, 8) and Cationic Diamondoids. Journal of the American Chemical Society, 2017, 139, 3249-3258.	6.6	66

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73	Predictive recognition of native proteins by cucurbit[7]uril in a complex mixture. Chemical Communications, 2016, 52, 8537-8540.	2.2	65
74	Formation of Protein Charge Ladders by Acylation of Amino Groups on Proteins. Journal of the American Chemical Society, 1997, 119, 12701-12709.	6.6	64
75	Folding of Long-Chain Alkanediammonium Ions Promoted by a Cucurbituril Derivative. Organic Letters, 2008, 10, 2577-2580.	2.4	63
76	Molecular Clips Form Isostructural Dimeric Aggregates from Benzene to Water. Journal of the American Chemical Society, 2004, 126, 10035-10043.	6.6	62
77	Acyclic Congener of Cucurbituril:Â Synthesis and Recognition Properties. Journal of Organic Chemistry, 2003, 68, 6184-6191.	1.7	61
78	Substituent Effects Control the Self-Association of Molecular Clips in the Crystalline State. Journal of Organic Chemistry, 2006, 71, 4502-4508.	1.7	61
79	Acyclic Cucurbit[n]urilâ€type Receptors: Preparation, Molecular Recognition Properties and Biological Applications. Israel Journal of Chemistry, 2018, 58, 250-263.	1.0	61
80	Refolding Foldamers:Â Triazene-Arylene Oligomers That Change Shape with Chemical Stimuli. Journal of the American Chemical Society, 2007, 129, 11232-11241.	6.6	58
81	Supramolecular Ladders from Dimeric Cucurbit[6]uril. Angewandte Chemie - International Edition, 2013, 52, 3690-3694.	7.2	58
82	Biomedical applications of metal organic polygons and polyhedra (MOPs). Coordination Chemistry Reviews, 2020, 410, 213181.	9.5	58
83	Preparation of glycoluril monomers for expanded cucurbit[n]uril synthesis. Tetrahedron, 2003, 59, 1961-1970.	1.0	56
84	Pillar[n]MaxQ: A New High Affinity Host Family for Sequestration in Water. Angewandte Chemie - International Edition, 2020, 59, 13313-13319.	7.2	55
85	Toward supramolecular polymers incorporating double cavity cucurbituril hosts. Tetrahedron, 2009, 65, 7249-7258.	1.0	54
86	Acyclic Cucurbit[n]uril Molecular Containers Selectively Solubilize Single-Walled Carbon Nanotubes in Water. Journal of the American Chemical Society, 2012, 134, 7254-7257.	6.6	54
87	Molecular Containers Bind Drugs of Abuse in Vitro and Reverse the Hyperlocomotive Effect of Methamphetamine in Rats. ChemBioChem, 2017, 18, 1583-1588.	1.3	54
88	Diastereoselective Formation of Methylene-Bridged Glycoluril Dimers. Organic Letters, 2000, 2, 755-758.	2.4	53
89	Acyclic cucurbit[n]uril-type molecular containers: influence of glycoluril oligomer length on their function as solubilizing agents. Organic and Biomolecular Chemistry, 2015, 13, 4041-4050.	1.5	52
90	Fullerene formation in sputtering and electron beam evaporation processes. The Journal of Physical Chemistry, 1992, 96, 6866-6869.	2.9	51

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91	Reconfigurable Four-Component Molecular Switch Based on pH-Controlled Guest Swapping. Organic Letters, 2007, 9, 2349-2352.	2.4	50
92	Absolute and relative binding affinity of cucurbit[7]uril towards a series of cationic guests. Supramolecular Chemistry, 2014, 26, 251-258.	1.5	50
93	From Packed â€œSandwichâ€•to â€œRussian Dollâ€• Assembly by Chargeâ€Transfer Interactions in Cucurbit[10]uril. Chemistry - A European Journal, 2016, 22, 17612-17618.	1.7	50
94	The X-Ray Crystal Structure and Packing of a Hexakis-adduct of C60: Temperature dependence of weak C?H?O interactions. Helvetica Chimica Acta, 1996, 79, 1047-1058.	1.0	49
95	Acyclic Cucurbit[n]uril-Type Molecular Container Enables Systemic Delivery of Effective Doses of Albendazole for Treatment of SK-OV-3 Xenograft Tumors. Molecular Pharmaceutics, 2016, 13, 809-818.	2.3	49
96	Voltage-Gated Membranes Incorporating Cucurbit[n]uril Molecular Containers for Molecular Nanofiltration. Journal of the American Chemical Society, 2022, 144, 6483-6492.	6.6	49
97	Acyclic CB[n]-type molecular containers: effect of solubilizing group on their function as solubilizing excipients. Organic and Biomolecular Chemistry, 2014, 12, 2413-2422.	1.5	47
98	New Small-Molecule Inhibitors Effectively Blocking Picornavirus Replication. Journal of Virology, 2014, 88, 11091-11107.	1.5	46
99	LÃ¶sliche Derivate von C₁₉₅ und C₂₆₀: die ersten Verbindungen einer neuen Klasse von Kohlenstoffallotropen C_{n(60 + 5)}. Angewandte Chemie, 1995, 107, 1636-1639.	1.6	44
100	The Mechanism of Cucurbituril Formation. Israel Journal of Chemistry, 2011, 51, 578-591.	1.0	44
101	A clipped [3]rotaxane derived from bis-nor-seco-cucurbit[10]uril. Chemical Communications, 2011, 47, 9420.	2.2	42
102	Ï€â€Electron Ringâ€Current Effects in Multiple Adducts of ³He@C₆₀ and ³He@C₇₀: A ³He NMR Study. Chemistry - A European Journal, 1997, 3, 1071-1076.	1.7	40
103	Mechanism of the Conversion of Inverted CB[6] to CB[6]. Journal of Organic Chemistry, 2007, 72, 6840-6847.	1.7	40
104	Guest Editorial: Responsive Hostâ€“Guest Systems. Accounts of Chemical Research, 2014, 47, 1923-1924.	7.6	39
105	Stereoelectronic Effects on Product Formation from theE- andZ-Isomers of Î·1,Î·3-Vinyl Carbene Complexed Intermediates in the Reactions of Fischer Carbene Complexes with Alkynes. Organometallics, 1998, 17, 4298-4308.	1.1	38
106	Uptake of Hydrocarbons in Aqueous Solution by Encapsulation in Acyclic Cucurbit[n]urilâ€Type Molecular Containers. Angewandte Chemie - International Edition, 2016, 55, 8076-8080.	7.2	38
107	Self-Assembly of Zinc Porphyrins around the Periphery of Hydrogen-Bonded Aggregates That Bear Imidazole Groups. Journal of Organic Chemistry, 1997, 62, 8994-9000.	1.7	37
108	Self-Association of Facially Amphiphilic Methylene Bridged Glycoluril Dimers. Organic Letters, 2001, 3, 3221-3224.	2.4	35

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109	Enantiomeric Self-Recognition of a Facial Amphiphile Triggered by [{Pd(ONO2)(en)}2] We thank the NIH (GM61854) and the University of Maryland for generous financial support. We thank Professor Dorothy Beckett and Dr. Peter Schuck for assistance with the analytical ultracentrifuge and Professor Sandra Greer for access to the density meter. L.I. is a Cottrell Scholar of Research Corporation. en=1,2-ethylenediamine. Angewandte Chemie - International Edition, 2002, 41, 1905.	7.2	35
110	Chiral Molecular Clips Control Orthogonal Crystalline Organization. Organic Letters, 2007, 9, 1899-1902.	2.4	35
111	Regiospecific templated synthesis of D 2h-symmetrical tetrakis-adduct C64(COOEt)8 by reversible tether-directed remote functionalization of C60. Chemical Communications, 1996, , 797.	2.2	33
112	Synthesis and Recognition Properties of Cucurbit[8]uril Derivatives. Organic Letters, 2015, 17, 5068-5071.	2.4	33
113	Cucurbit[7]uril Complexes of Crown-Ether Derived Styryl and (Bis)styryl Dyes. Journal of Physical Chemistry B, 2009, 113, 10149-10158.	1.2	32
114	Glycolurilâ€Derived Molecular Clips are Potent and Selective Receptors for Cationic Dyes in Water. Chemistry - A European Journal, 2016, 22, 15270-15279.	1.7	32
115	Alkylations of â€œenolatesâ€•generated from amino carbene complexes of chromium. Tetrahedron Letters, 1989, 30, 4061-4064.	0.7	31
116	A Novel Strategy to Reverse General Anesthesia by Scavenging with the Acyclic Cucurbit[n]uril-type Molecular Container Calabadion 2. Anesthesiology, 2016, 125, 333-345.	1.3	31
117	Shapeâ€Controllable and Fluorescent Supramolecular Organic Frameworks Through Aqueous Hostâ€“Guest Complexation. Angewandte Chemie, 2018, 130, 737-741.	1.6	31
118	Metal-Ion-Induced Folding and Dimerization of a Glycoluril Decamer in Water. Organic Letters, 2009, 11, 3918-3921.	2.4	30
119	A Nexus between Theory and Experiment: Nonâ€Empirical Quantum Mechanical Computational Methodology Applied to Cucurbit[n]urilâ‹…Guest Binding Interactions. Chemistry - A European Journal, 2016, 22, 17226-17238.	1.7	29
120	In Vitro selectivity of an acyclic cucurbit[n]uril molecular container towards neuromuscular blocking agents relative to commonly used drugs. Organic and Biomolecular Chemistry, 2016, 14, 1277-1287.	1.5	29
121	Recognition Properties of Acyclic Glycoluril Oligomers. Organic Letters, 2011, 13, 4112-4115.	2.4	28
122	Hydrophobic monofunctionalized cucurbit[7]uril undergoes self-inclusion complexation and forms vesicle-type assemblies. Chemical Communications, 2015, 51, 3762-3765.	2.2	28
123	Molecular Clips that Undergo Heterochiral Aggregation and Self-Sorting. Angewandte Chemie, 2002, 114, 4200-4203.	1.6	27
124	Sensor for Nitrophenol Based on a Fluorescent Molecular Clip. Organic Letters, 2009, 11, 2603-2606.	2.4	27
125	Supramolecular Rhombic Grids Formed from Bimolecular Building Blocks. Journal of the American Chemical Society, 2009, 131, 11695-11697.	6.6	27
126	Self-assembly of a ternary architecture driven by cooperative Hg2+ ion binding between cucurbit[7]uril and crown ether macrocyclic hosts. Chemical Communications, 2012, 48, 7256.	2.2	27

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127	Acyclic cucurbituril congener binds to local anaesthetics. Supramolecular Chemistry, 2012, 24, 325-332.	1.5	25
128	Chaperone-Assisted Hostâ€“Guest Interactions Revealed by Single-Molecule Force Spectroscopy. Journal of the American Chemical Society, 2019, 141, 18385-18389.	6.6	24
129	Design, Synthesis, and Xâ€ray Structural Analyses of Diamantane Diammonium Salts: Guests for Cucurbit[n]uril (CB[n]) Hosts. European Journal of Organic Chemistry, 2014, 2014, 2533-2542.	1.2	22
130	Acyclic Cucurbit[n]urilâ€Type Molecular Containers: Influence of Linker Length on Their Function as Solubilizing Agents. ChemMedChem, 2016, 11, 980-989.	1.6	22
131	Directly Functionalized Cucurbit[7]uril as a Biosensor for the Selective Detection of Protein Interactions by ¹²⁹Xe hyperCESTâ€…NMR. Chemistry - A European Journal, 2019, 25, 6108-6112.	1.7	22
132	Polymer deaggregation and assembly controlled by a double cavity cucurbituril. Supramolecular Chemistry, 2010, 22, 683-690.	1.5	21
133	Calabadion 1 selectively reverses respiratory and central nervous system effects of fentanyl in a rat model. British Journal of Anaesthesia, 2020, 125, e140-e147.	1.5	21
134	A structurally biased combinatorial approach for discovering new anti-picornaviral compounds. Chemistry and Biology, 2001, 8, 33-45.	6.2	20
135	Metal Organic Polyhedra: A Clickâ€andâ€Clack Approach Toward Targeted Delivery. Helvetica Chimica Acta, 2018, 101, e1800057.	1.0	20
136	Reasons Why Aldehydes Do Not Generally Participate in Cucurbit[n]uril Forming Reactions. Journal of Organic Chemistry, 2010, 75, 2934-2941.	1.7	19
137	Differentially functionalized acyclic cucurbiturils: synthesis, self-assembly and CB[6]-induced allosteric guest binding. Chemical Communications, 2015, 51, 14620-14623.	2.2	19
138	Self-assembly of cucurbit[7]uril based triangular [4]molecular necklaces and their fluorescence properties. Chemical Communications, 2017, 53, 2756-2759.	2.2	19
139	Blurring the Lines between Host and Guest: A Chimeric Receptor Derived from Cucurbituril and Triptycene. Angewandte Chemie - International Edition, 2018, 57, 8073-8078.	7.2	19
140	Reassembly self-sorting triggered by heterodimerization. Chemical Communications, 2011, 47, 8548.	2.2	18
141	Cucurbit[6]urilâ€“cucurbit[7]uril heterodimer promotes controlled self-assembly of supramolecular networks and supramolecular micelles by self-sorting of amphiphilic guests. Chemical Communications, 2014, 50, 14756-14759.	2.2	18
142	Influence of hydrophobic residues on the binding of CB[7] toward diammonium ions of common ammoniumâ‹¯ammonium distance. Organic and Biomolecular Chemistry, 2015, 13, 6249-6254.	1.5	18
143	Cucurbit[8]urilâ€¢guest complexes: blinded dataset for the SAMPL6 challenge. Supramolecular Chemistry, 2019, 31, 150-158.	1.5	18
144	Design, synthesis and self-association behavior of water soluble self complementary facial amphiphiles. Chemical Communications, 1999, , 2549-2550.	2.2	16

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145	Homotropic Allosterism: Inâ€Depth Structural Analysis of the Gasâ€Phase Noncovalent Complexes Associating a Doubleâ€Cavity Cucurbit[n]urilâ€Type Host and Sizeâ€Selected Protonated Amino Compounds. ChemPlusChem, 2013, 78, 959-969.	1.3	16
146	Synthesis of a disulfonated derivative of cucurbit[7]uril and investigations of its ability to solubilise insoluble drugs. Supramolecular Chemistry, 2015, 27, 288-297.	1.5	16
147	Energy-resolved collision-induced dissociation of non-covalent ions: charge- and guest-dependence of decomplexation reaction efficiencies. Physical Chemistry Chemical Physics, 2016, 18, 12557-12568.	1.3	16
148	Adamantane/Cucurbituril: A Potential Pretargeted Imaging Strategy in Immuno-PET. Molecular Imaging, 2018, 17, 153601211879983.	0.7	15
149	Deconvolution of a multi-component interaction network using systems chemistry. Journal of Systems Chemistry, 2010, 1, .	1.7	14
150	Photoinduced guest transformation promotes translocation of guest from hydroxypropyl-Ï²-cyclodextrin to cucurbit[7]uril. Chemical Communications, 2015, 51, 1349-1352.	2.2	14
151	Molecular recognition properties of acyclic cucurbiturils toward amino acids, peptides, and a protein. Supramolecular Chemistry, 2019, 31, 432-441.	1.5	14
152	A synthetic transcription factor pair mimic for precise recruitment of an epigenetic modifier to the targeted DNA locus. Chemical Communications, 2020, 56, 2296-2299.	2.2	14
153	In Vitro and In Vivo Sequestration of Phencyclidine by Me₄Cucurbit[8]uril**. Chemistry - A European Journal, 2021, 27, 3098-3105.	1.7	14
154	Enantiomeric Self-Recognition of a Facial Amphiphile Triggered by [{Pd(ONO2)(en)}2] We thank the NIH (GM61854) and the University of Maryland for generous financial support. We thank Professor Dorothy Beckett and Dr. Peter Schuck for assistance with the analytical ultracentrifuge and Professor Sandra Greer for access to the density meter. L.I. is a Cottrell Scholar of Research Corporation. en=1,2-ethylenediamine. Angewandte Chemie, 2002, 114, 1985.	1.6	13
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