Lyle D Isaacs

List of Publications by Citations

207 papers	15,641 citations	63 h-index	121 g-index
230 ext. papers	16,836 ext. citations	8.1 avg, IF	6.89 L-index

#	Paper	IF	Citations
207	The cucurbit[n]uril family. *Angewandte Chemie - International Edition*, **2005**, 44, 4844-70	16.4	2002
206	The cucurbit[n]uril family: prime components for self-sorting systems. *Journal of the American Chemical Society*, **2005**, 127, 15959-67	16.4	720
205	A strategy for the generation of surfaces presenting ligands for studies of binding based on an active ester as a common reactive intermediate: a surface plasmon resonance study. *Analytical Chemistry*, **1999**, 71, 777-90	7.8	538
204	A synthetic host-guest system achieves avidin-biotin affinity by overcoming enthalpy-entropy compensation. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 20737-42	11.5	476
203	Self-sorting: the exception or the rule?. *Journal of the American Chemical Society*, **2003**, 125, 4831-5	16.4	382
202	Die Cucurbit[n]uril-Familie. *Angewandte Chemie*, **2005**, 117, 4922-4949	3.6	381
201	Stimuli responsive systems constructed using cucurbit[n]uril-type molecular containers. *Accounts of Chemical Research*, **2014**, 47, 2052-62	24.3	370
200	Cucurbit[n]urils: from mechanism to structure and function. *Chemical Communications*, **2009**, 619-29	5.8	348
199	Acyclic cucurbit[n]uril molecular containers enhance the solubility and bioactivity of poorly soluble pharmaceuticals. *Nature Chemistry*, **2012**, 4, 503-10	17.6	313
198	Cucurbit[7]uril?guest pair with an attomolar dissociation constant. *Angewandte Chemie - International Edition*, **2014**, 53, 988-93	16.4	289
197	A trivalent system from vancomycin.D-ala-D-Ala with higher affinity than avidin.biotin. *Science*, **1998**, 280, 708-11	33.3	287
196	Recognition-mediated activation of therapeutic gold nanoparticles inside living cells. *Nature Chemistry*, **2010**, 2, 962-6	17.6	265
195	Cucurbit[10]uril. *Journal of the American Chemical Society*, **2005**, 127, 16798-9	16.4	265
194	Improved Purification of C60 and Formation of □and □Homoaromatic methano-bridged fullerenes by reaction with alkyl diazoacetates. *Helvetica Chimica Acta*, **1993**, 76, 1231-1250	2	263
193	Syntheses, structures, and properties of methanofullerenes. *Chemical Society Reviews*, **1994**, 23, 243	58.5	238
192	Toxicology and drug delivery by cucurbit[n]uril type molecular containers. *PLoS ONE*, **2010**, 5, e10514	3.7	199
191	High fidelity kinetic self-sorting in multi-component systems based on guests with multiple binding epitopes. *Journal of the American Chemical Society*, **2006**, 128, 14093-102	16.4	179

190	Synthesis and self-assembly processes of monofunctionalized cucurbit[7]uril. *Journal of the American Chemical Society*, **2012**, 134, 13133-40	16.4	177
189	Social self-sorting in aqueous solution. *Journal of Organic Chemistry*, **2004**, 69, 6157-64	4.2	173
188	Tether-Directed Remote Functionalization of Buckminsterfullerene: Regiospecific Hexaadduct Formation. *Angewandte Chemie International Edition in English*, **1994**, 33, 2339-2342		170
187	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	9.6	160
186	The inverted cucurbit[n]uril family. *Journal of the American Chemical Society*, **2005**, 127, 18000-1	16.4	143
185	Nor-seco-cucurbit[10]uril exhibits homotropic allosterism. *Journal of the American Chemical Society*, **2006**, 128, 14744-5	16.4	138
184	Synthetic mimics of biotin/(strept)avidin. *Chemical Society Reviews*, **2017**, 46, 2391-2403	58.5	134
183	Cucurbit[n]uril-polyoxoanion hybrids. *Journal of the American Chemical Society*, **2009**, 131, 432-3	16.4	134
182	Cucurbit[7]uril containers for targeted delivery of oxaliplatin to cancer cells. *Angewandte Chemie - International Edition*, **2013**, 52, 12033-7	16.4	131
181	Shape-Controllable and Fluorescent Supramolecular Organic Frameworks Through Aqueous Host-Guest Complexation. *Angewandte Chemie - International Edition*, **2018**, 57, 729-733	16.4	124
180	Structures and Chemistry of Methanofullerenes: A Versatile Route into N-[(Methanofullerene)carbonyl]-Substituted Amino Acids. *Helvetica Chimica Acta*, **1993**, 76, 2454-2464	2	122
179	Biospecific Binding of Carbonic Anhydrase to Mixed SAMs Presenting Benzenesulfonamide Ligands:´A Model System for Studying Lateral Steric Effects. *Langmuir*, **1999**, 15, 7186-7198	4	121
178	Supramolecular PEGylation of biopharmaceuticals. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 14189-14194	11.5	121
177	Templated synthesis of glycoluril hexamer and monofunctionalized cucurbit[6]uril derivatives. *Journal of the American Chemical Society*, **2011**, 133, 17966-76	16.4	119
176	Chiral recognition inside a chiral cucurbituril. *Angewandte Chemie - International Edition*, **2007**, 46, 7425-7	16.4	118
175	Acyclic cucurbit[n]uril-type molecular containers bind neuromuscular blocking agents in vitro and reverse neuromuscular block in vivo. *Angewandte Chemie - International Edition*, **2012**, 51, 11358-62	16.4	114
174	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	16.4	113
173	Metal-Organic Polyhedron Capped with Cucurbit[8]uril Delivers Doxorubicin to Cancer Cells. *Journal of the American Chemical Society*, **2016**, 138, 14488-14496	16.4	112

172	Supramolecular sensor for cancer-associated nitrosamines. *Journal of the American Chemical Society* , **2012**, 134, 20021-4	16.4	111
171	Biological catalysis regulated by cucurbit[7]uril molecular containers. *Journal of the American Chemical Society*, **2010**, 132, 4445-54	16.4	110
170	Magnetic iron oxide nanoparticles for biorecognition: evaluation of surface coverage and activity. *Journal of Physical Chemistry B*, **2006**, 110, 1553-8	3.4	106
169	Multianalyte sensing of addictive over-the-counter (OTC) drugs. *Journal of the American Chemical Society*, **2013**, 135, 15238-43	16.4	102
168	Acyclic cucurbit[n]uril congeners are high affinity hosts. *Journal of Organic Chemistry*, **2010**, 75, 4786-95	4.2	102
167	"Turn-on" fluorescent sensor array for basic amino acids in water. *Chemical Communications*, **2014**, 50, 61-3	5.8	101
166	Blind prediction of host-guest binding affinities: a new SAMPL3 challenge. *Journal of Computer-Aided Molecular Design*, **2012**, 26, 475-87	4.2	101
165	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	2	99
164	Molecular clips that undergo heterochiral aggregation and self-sorting. *Angewandte Chemie - International Edition*, **2002**, 41, 4028-31	16.4	99
163	Cucurbit[n]uril analogues. *Organic Letters*, **2003**, 5, 3745-7	6.2	99
162	Methylene-bridged glycoluril dimers: synthetic methods. *Journal of Organic Chemistry*, **2002**, 67, 5817-30	4.2	96
161	Electrochemistry of Mono- through Hexakis-adducts of C60. *Helvetica Chimica Acta*, **1995**, 78, 1334-1344	2	96
160	Ternary complexes comprising cucurbit[10]uril, porphyrins, and guests. *Angewandte Chemie - International Edition*, **2008**, 47, 2657-60	16.4	92
159	Cucurbit[n]uril formation proceeds by step-growth cyclo-oligomerization. *Journal of the American Chemical Society*, **2008**, 130, 8446-54	16.4	88
158	Cucurbit[7]uril complexation drives thermal trans-cis-azobenzene isomerization and enables colorimetric amine detection. *Chemistry - A European Journal*, **2009**, 15, 11675-80	4.8	84
157	Molecular-recognition properties of a water-soluble cucurbit[6]uril analogue. *Journal of Organic Chemistry*, **2006**, 71, 1181-90	4.2	83
156	Diastereoselective formation of glycoluril dimers: isomerization mechanism and implications for cucurbit[n]uril synthesis. *Journal of the American Chemical Society*, **2002**, 124, 8297-306	16.4	83
155	The neurotoxic, myotoxic and cardiotoxic activity of cucurbituril-based macrocyclic drug delivery vehicles. *Toxicology Research*, **2014**, 3, 447-455	2.6	82

154	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, 9554-63	8.3	80
153	Cucurbit[n]uril analogues: synthetic and mechanistic studies. *Journal of Organic Chemistry*, **2005**, 70, 10381-92	4.2	79
152	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	2	77
151	Overview of the SAMPL6 host-guest binding affinity prediction challenge. *Journal of Computer-Aided Molecular Design*, **2018**, 32, 937-963	4.2	77
150	A cucurbit[6]uril analogue: host properties monitored by fluorescence spectroscopy. *Journal of Physical Chemistry B*, **2005**, 109, 7686-91	3.4	76
149	Synthesis of a Fullerene[60] Cryptate and Systematic Langmuir-Blodgett and Thin-Film Investigations of Amphiphilic Fullerene Derivatives. *Chemistry - A European Journal*, **1995**, 1, 243-251	4.8	75
148	Spacer-kontrollierte Fernfunktionalisierung von Buckminsterfulleren: regiospezifische Bildung eines Hexaadduktes. *Angewandte Chemie*, **1994**, 106, 2434-2437	3.6	70
147	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		70
146	Valence isomerism and rearrangements in methanofullerenes. *Journal of the Chemical Society Perkin Transactions II*, **1994**, 391		68
145	Daisy chain assembly formed from a cucurbit[6]uril derivative. *Organic Letters*, **2012**, 14, 3072-5	6.2	64
144	Calabadion: A new agent to reverse the effects of benzylisoquinoline and steroidal neuromuscular-blocking agents. *Anesthesiology*, **2013**, 119, 317-25	4.3	62
143	Formation of Protein Charge Ladders by Acylation of Amino Groups on Proteins. *Journal of the American Chemical Society*, **1997**, 119, 12701-12709	16.4	62
142	Self-sorting molecular clips. *Journal of Organic Chemistry*, **2008**, 73, 5915-25	4.2	61
141	Cucurbit[7]uril-Tetramethylrhodamine Conjugate for Direct Sensing and Cellular Imaging. *Journal of the American Chemical Society*, **2016**, 138, 16549-16552	16.4	61
140	Folding of long-chain alkanediammonium ions promoted by a cucurbituril derivative. *Organic Letters*, **2008**, 10, 2577-80	6.2	60
139	Substituent effects control the self-association of molecular clips in the crystalline state. *Journal of Organic Chemistry*, **2006**, 71, 4502-8	4.2	59
138	Molecular clips form isostructural dimeric aggregates from benzene to water. *Journal of the American Chemical Society*, **2004**, 126, 10035-43	16.4	59
137	Glycoluril derivatives form hydrogen bonded tapes rather than cucurbit[n]uril congeners. *Tetrahedron*, **2002**, 58, 9769-9777	2.4	59

136	Comparative Effectiveness of Calabadion and Sugammadex to Reverse Non-depolarizing Neuromuscular-blocking Agents. *Anesthesiology*, **2015**, 123, 1337-49	4.3	58
135	Metastable single-chain polymer nanoparticles prepared by dynamic cross-linking with nor-seco-cucurbit[10]uril. *Chemical Science*, **2012**, 3, 2278	9.4	58
134	Refolding foldamers: triazene-arylene oligomers that change shape with chemical stimuli. *Journal of the American Chemical Society*, **2007**, 129, 11232-41	16.4	57
133	Host-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	16.4	56
132	Predictive recognition of native proteins by cucurbit[7]uril in a complex mixture. *Chemical Communications*, **2016**, 52, 8537-40	5.8	55
131	Supramolecular ladders from dimeric cucurbit[6]uril. *Angewandte Chemie - International Edition*, **2013**, 52, 3690-4	16.4	53
130	Supramolecular Sensors for Opiates and Their Metabolites. *Journal of the American Chemical Society*, **2017**, 139, 14954-14960	16.4	53
129	Cucurbit[7]uril?Guest Pair with an Attomolar Dissociation Constant. *Angewandte Chemie*, **2014**, 126, 1006-1011	9.6	52
128	Preparation of glycoluril monomers for expanded cucurbit[n]uril synthesis. *Tetrahedron*, **2003**, 59, 1961-1970	2.7	51
127	Diastereoselective Formation of Methylene-Bridged Glycoluril Dimers. *Organic Letters*, **2000**, 2, 755-758	6.2	51
126	Acyclic congener of cucurbituril: synthesis and recognition properties. *Journal of Organic Chemistry*, **2003**, 68, 6184-91	4.2	50
125	Acyclic cucurbit[n]uril molecular containers selectively solubilize single-walled carbon nanotubes in water. *Journal of the American Chemical Society*, **2012**, 134, 7254-7	16.4	49
124	Fullerene formation in sputtering and electron beam evaporation processes. *The Journal of Physical Chemistry*, **1992**, 96, 6866-6869		48
123	Unraveling the Structure-Affinity Relationship between Cucurbit[n]urils (n = 7, 8) and Cationic Diamondoids. *Journal of the American Chemical Society*, **2017**, 139, 3249-3258	16.4	47
122	Reconfigurable four-component molecular switch based on pH-controlled guest swapping. *Organic Letters*, **2007**, 9, 2349-52	6.2	46
121	Absolute and relative binding affinity of cucurbit[7]uril towards a series of cationic guests. *Supramolecular Chemistry*, **2014**, 26, 251-258	1.8	43
120	Toward supramolecular polymers incorporating double cavity cucurbituril hosts. *Tetrahedron*, **2009**, 65, 7249-7258	2.4	43
119	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	2	43

118	Acyclic Cucurbit[n]uril-type Receptors: Preparation, Molecular Recognition Properties and Biological Applications. *Israel Journal of Chemistry*, **2018**, 58, 250-263	3.4	42
117	Molecular Containers Bind Drugs of Abuse in Vitro and Reverse the Hyperlocomotive Effect of Methamphetamine in Rats. *ChemBioChem*, **2017**, 18, 1583-1588	3.8	41
116	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, 809-18	5.6	41
115	Acyclic cucurbit[n]uril-type molecular containers: influence of glycoluril oligomer length on their function as solubilizing agents. *Organic and Biomolecular Chemistry*, **2015**, 13, 4041-50	3.9	40
114	The Mechanism of Cucurbituril Formation. *Israel Journal of Chemistry*, **2011**, 51, 578-591	3.4	39
113	New small-molecule inhibitors effectively blocking picornavirus replication. *Journal of Virology*, **2014**, 88, 11091-107	6.6	38
112	Mechanism of the conversion of inverted CB[6] to CB[6]. *Journal of Organic Chemistry*, **2007**, 72, 6840-7	4.2	38
111	Stereoelectronic Effects on Product Formation from the E- and Z-Isomers of □,□-Vinyl Carbene Complexed Intermediates in the Reactions of Fischer Carbene Complexes with Alkynes. *Organometallics*, **1998**, 17, 4298-4308	3.8	37
110	Acyclic CB[n]-type molecular containers: effect of solubilizing group on their function as solubilizing excipients. *Organic and Biomolecular Chemistry*, **2014**, 12, 2413-22	3.9	36
109	□Electron Ring-Current Effects in Multiple Adducts of 3He@C60 and 3He@C70: A 3He NMR Study. *Chemistry - A European Journal*, **1997**, 3, 1071-1076	4.8	36
108	Self-Assembly of Zinc Porphyrins around the Periphery of Hydrogen-Bonded Aggregates That Bear Imidazole Groups. *Journal of Organic Chemistry*, **1997**, 62, 8994-9000	4.2	35
107	Chiral molecular clips control orthogonal crystalline organization. *Organic Letters*, **2007**, 9, 1899-902	6.2	35
106	Enantiomeric Self-Recognition of a Facial Amphiphile Triggered by [{Pd(ONO2)(en)}2]. *Angewandte Chemie - International Edition*, **2002**, 41, 1905	16.4	35
105	L□liche Derivate von C195 und C260: die ersten Verbindungen einer neuen Klasse von Kohlenstoffallotropen Cn(60 + 5). *Angewandte Chemie*, **1995**, 107, 1636-1639	3.6	35
104	From Packed "Sandwich" to "Russian Doll": Assembly by Charge-Transfer Interactions in Cucurbit[10]uril. *Chemistry - A European Journal*, **2016**, 22, 17612-17618	4.8	33
103	Self-association of facially amphiphilic methylene bridged glycoluril dimers. *Organic Letters*, **2001**, 3, 3221-4	6.2	32
102	Uptake of Hydrocarbons in Aqueous Solution by Encapsulation in Acyclic Cucurbit[n]uril-Type Molecular Containers. *Angewandte Chemie - International Edition*, **2016**, 55, 8076-80	16.4	30
101	Biomedical Applications of Metal Organic Polygons and Polyhedra (MOPs). *Coordination Chemistry Reviews*, **2020**, 410, 213181-213181	23.2	29

100	Synthesis and Recognition Properties of Cucurbit[8]uril Derivatives. *Organic Letters*, **2015**, 17, 5068-71	6.2	28
99	A clipped [3]rotaxane derived from bis-nor-seco-cucurbit[10]uril. *Chemical Communications*, **2011**, 47, 9420-2	5.8	28
98	Shape-Controllable and Fluorescent Supramolecular Organic Frameworks Through Aqueous Host□Guest Complexation. *Angewandte Chemie*, **2018**, 130, 737-741	3.6	27
97	Hydrophobic monofunctionalized cucurbit[7]uril undergoes self-inclusion complexation and forms vesicle-type assemblies. *Chemical Communications*, **2015**, 51, 3762-5	5.8	27
96	Recognition properties of acyclic glycoluril oligomers. *Organic Letters*, **2011**, 13, 4112-5	6.2	27
95	Sensor for nitrophenol based on a fluorescent molecular clip. *Organic Letters*, **2009**, 11, 2603-6	6.2	26
94	Cucurbit[7]uril complexes of crown-ether derived styryl and (bis)styryl dyes. *Journal of Physical Chemistry B*, **2009**, 113, 10149-58	3.4	26
93	Metal-ion-induced folding and dimerization of a glycoluril decamer in water. *Organic Letters*, **2009**, 11, 3918-21	6.2	26
92	Regiospecific templated synthesis of D2h-symmetrical tetrakis-adduct C64(COOEt)8 by reversible tether-directed remote functionalization of C60. *Chemical Communications*, **1996**, 797	5.8	26
91	Alkylations of □nolates□generated from amino carbene complexes of chromium. *Tetrahedron Letters*, **1989**, 30, 4061-4064	2	26
90	Glycoluril-Derived Molecular Clips are Potent and Selective Receptors for Cationic Dyes in Water. *Chemistry - A European Journal*, **2016**, 22, 15270-15279	4.8	26
89	Acyclic Cucurbit[n]uril-Type Molecular Containers Bind Neuromuscular Blocking Agents In Vitro and Reverse Neuromuscular Block In Vivo. *Angewandte Chemie*, **2012**, 124, 11520-11524	3.6	25
88	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, 1277-87	3.9	24
87	Supramolecular rhombic grids formed from bimolecular building blocks. *Journal of the American Chemical Society*, **2009**, 131, 11695-7	16.4	24
86	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, 7256-8	5.8	23
85	Molecular Clips that Undergo Heterochiral Aggregation and Self-Sorting. *Angewandte Chemie*, **2002**, 114, 4200-4203	3.6	23
84	Acyclic cucurbituril congener binds to local anaesthetics. *Supramolecular Chemistry*, **2012**, 24, 325-332	1.8	22
83	A Novel Strategy to Reverse General Anesthesia by Scavenging with the Acyclic Cucurbit[n]uril-type Molecular Container Calabadion 2. *Anesthesiology*, **2016**, 125, 333-45	4.3	21

82	Pillar[n]MaxQ: A New High Affinity Host Family for Sequestration in Water. *Angewandte Chemie - International Edition*, **2020**, 59, 13313-13319	16.4	20
81	Chiral Recognition inside a Chiral Cucurbituril. *Angewandte Chemie*, **2007**, 119, 7569-7571	3.6	20
80	Supramolecular hosts as in vivo sequestration agents for pharmaceuticals and toxins. *Chemical Society Reviews*, **2020**, 49, 7516-7532	58.5	20
79	Directly Functionalized Cucurbit[7]uril as a Biosensor for the Selective Detection of Protein Interactions by Xe hyperCEST NMR. *Chemistry - A European Journal*, **2019**, 25, 6108-6112	4.8	19
78	A Nexus between Theory and Experiment: Non-Empirical Quantum Mechanical Computational Methodology Applied to Cucurbit[n]uril?Guest Binding Interactions. *Chemistry - A European Journal*, **2016**, 22, 17226-17238	4.8	19
77	Self-assembly of cucurbit[7]uril based triangular [4]molecular necklaces and their fluorescence properties. *Chemical Communications*, **2017**, 53, 2756-2759	5.8	18
76	Reasons why aldehydes do not generally participate in cucurbit[n]uril forming reactions. *Journal of Organic Chemistry*, **2010**, 75, 2934-41	4.2	18
75	Reassembly self-sorting triggered by heterodimerization. *Chemical Communications*, **2011**, 47, 8548-50	5.8	18
74	Acyclic Cucurbit[n]uril-Type Molecular Containers: Influence of Linker Length on Their Function as Solubilizing Agents. *ChemMedChem*, **2016**, 11, 980-9	3.7	18
73	Chaperone-Assisted Host-Guest Interactions Revealed by Single-Molecule Force Spectroscopy. *Journal of the American Chemical Society*, **2019**, 141, 18385-18389	16.4	17
72	A structurally biased combinatorial approach for discovering new anti-picornaviral compounds. *Chemistry and Biology*, **2001**, 8, 33-45		17
71	Polymer deaggregation and assembly controlled by a double cavity cucurbituril. *Supramolecular Chemistry*, **2010**, 22, 683-690	1.8	16
70	Ternary Complexes Comprising Cucurbit[10]uril, Porphyrins, and Guests. *Angewandte Chemie*, **2008**, 120, 2697-2700	3.6	16
69	Blurring the Lines between Host and Guest: A Chimeric Receptor Derived from Cucurbituril and Triptycene. *Angewandte Chemie - International Edition*, **2018**, 57, 8073-8078	16.4	15
68	Design, Synthesis, and X-ray Structural Analyses of Diamantane Diammonium Salts: Guests for Cucurbit[n]uril (CB[n]) Hosts. *European Journal of Organic Chemistry*, **2014**, 2014, 2533-2542	3.2	15
67	Differentially functionalized acyclic cucurbiturils: synthesis, self-assembly and CB[6]-induced allosteric guest binding. *Chemical Communications*, **2015**, 51, 14620-3	5.8	14
66	Synthesis of a Disulfonated Derivative of Cucurbit[7]uril and Investigations of its Ability to Solubilize Insoluble Drugs. *Supramolecular Chemistry*, **2015**, 27, 288-297	1.8	14
65	Cucurbit[6]uril-cucurbit[7]uril heterodimer promotes controlled self-assembly of supramolecular networks and supramolecular micelles by self-sorting of amphiphilic guests. *Chemical Communications*, **2014**, 50, 14756-9	5.8	14

64	Deconvolution of a multi-component interaction network using systems chemistry. *Journal of Systems Chemistry*, **2010**, 1, 6		14
63	Design, synthesis and self-association behavior of water soluble self complementary facial amphiphiles. *Chemical Communications*, **1999**, 2549-2550	5.8	14
62	Cucurbit[8]uril guest complexes: blinded dataset for the SAMPL6 challenge. *Supramolecular Chemistry*, **2019**, 31, 150-158	1.8	14
61	Cucurbit[7]uril Containers for Targeted Delivery of Oxaliplatin to Cancer Cells. *Angewandte Chemie*, **2013**, 125, 12255-12259	3.6	13
60	Tetrameric molecular bowl assembled from glycoluril building blocks. *Chemical Communications*, **2008**, 3133-5	5.8	13
59	Photoinduced guest transformation promotes translocation of guest from hydroxypropyl-cyclodextrin to cucurbit[7]uril. *Chemical Communications*, **2015**, 51, 1349-52	5.8	12
58	Influence of hydrophobic residues on the binding of CB[7] toward diammonium ions of common ammonium···ammonium distance. *Organic and Biomolecular Chemistry*, **2015**, 13, 6249-54	3.9	11
57	A synthetic transcription factor pair mimic for precise recruitment of an epigenetic modifier to the targeted DNA locus. *Chemical Communications*, **2020**, 56, 2296-2299	5.8	11
56	Metal Organic Polyhedra: A Click-and-Clack Approach Toward Targeted Delivery. *Helvetica Chimica Acta*, **2018**, 101, e1800057	2	11
55	Cucurbit[n]urils113-142		11
54	Cucurbit[8]uril Controls the Folding of Cationic Diaryl Ureas in Water. *Supramolecular Chemistry*, **2008**, 20, 191-199	1.8	11
53	Diphenylglycoluril as a novel ligand architecture for dirhodium(II) carboxamidates. *Inorganica Chimica Acta*, **2008**, 361, 3309-3314	2.7	11
52	Calabadion 1 selectively reverses respiratory and central nervous system effects of fentanyl in a rat model. *British Journal of Anaesthesia*, **2020**, 125, e140-e147	5.4	11
51	Synthesis and Recognition Properties of Enantiomerically Pure Acyclic Cucurbit[n]uril-Type Molecular Containers. *Organic Letters*, **2015**, 17, 4038-41	6.2	10
50	Homotropic Allosterism: In-Depth Structural Analysis of the Gas-Phase Noncovalent Complexes Associating a Double-Cavity Cucurbit[n]uril-Type Host and Size-Selected Protonated Amino Compounds. *ChemPlusChem*, **2013**, 78, 959-969	2.8	10
49	Hybrid Molecular Container Based on Glycoluril and Triptycene: Synthesis, Binding Properties, and Triggered Release. *Chemistry - A European Journal*, **2018**, 24, 14101-14110	4.8	9
48	Supramolecular Ladders from Dimeric Cucurbit[6]uril. *Angewandte Chemie*, **2013**, 125, 3778-3782	3.6	9
47	Triptycene Walled Glycoluril Trimer: Synthesis and Recognition Properties. *New Journal of Chemistry*, **2020**, 44, 338-345	3.6	9

46	Cationic acyclic cucurbit[n]uril-type containers: synthesis and molecular recognition toward nucleotides. *Supramolecular Chemistry*, **2016**, 28, 825-834	1.8	9
45	Adamantane/Cucurbituril: A Potential Pretargeted Imaging Strategy in Immuno-PET. *Molecular Imaging*, **2018**, 17, 1536012118799838	3.7	9
44	Molecular recognition properties of acyclic cucurbiturils toward amino acids, peptides, and a protein. *Supramolecular Chemistry*, **2019**, 31, 432-441	1.8	8
43	A glycoluril dimer-triptycene hybrid receptor: synthesis and molecular recognition properties. *Organic and Biomolecular Chemistry*, **2018**, 16, 6499-6506	3.9	8
42	Nanotubular non-covalent macrocycle within non-covalent macrocycle assembly: (MeOH)(12) encapsulated in a molecular clip cyclododecamer. *Chemical Communications*, **2010**, 46, 4508-10	5.8	8
41	Enantiomeric Self-Recognition of a Facial Amphiphile Triggered by [{Pd(ONO2)(en)}2]. *Angewandte Chemie*, **2002**, 114, 1985	3.6	8
40	Energy-resolved collision-induced dissociation of non-covalent ions: charge- and guest-dependence of decomplexation reaction efficiencies. *Physical Chemistry Chemical Physics*, **2016**, 18, 12557-68	3.6	8
39	In Vitro and In Vivo Sequestration of Phencyclidine by Me Cucurbit[8]uril*. *Chemistry - A European Journal*, **2021**, 27, 3098-3105	4.8	8
38	Triazole functionalized acyclic cucurbit[n]uril-type receptors: host•guest recognition properties. *Organic and Biomolecular Chemistry*, **2019**, 17, 5561-5569	3.9	7
37	Pillar[n]MaxQ: A New High Affinity Host Family for Sequestration in Water. *Angewandte Chemie*, **2020**, 132, 13415-13421	3.6	7
36	Approaches to drug delivery based on the principles of supramolecular chemistry. *Advanced Drug Delivery Reviews*, **2012**, 64, 763	18.5	7
35	Cucurbit[6]uril p-xylylenediammonium diiodide deca-hydrate inclusion complex. *Acta Crystallographica Section E: Structure Reports Online*, **2008**, 64, o1321-2		7
34	Cucurbit[6]urilp-phenylenediammonium diiodide decahydrate inclusion complex. *Acta Crystallographica Section E: Structure Reports Online*, **2007**, 63, o1060-o1062		7
33	Uptake of Hydrocarbons in Aqueous Solution by Encapsulation in Acyclic Cucurbit[n]uril-Type Molecular Containers. *Angewandte Chemie*, **2016**, 128, 8208-8212	3.6	7
32	Steric hindrance to the syntheses and stabilities of 1,5- and 2,6-naphthalene N-permethylated diammonium salts. *Tetrahedron*, **2016**, 72, 1541-1546	2.4	6
31	Dimeric packing of molecular clips induced by interactions between □systems. *CrystEngComm*, **2015**, 17, 2486-2495	3.3	5
30	Acyclic Cucurbit[]uril-Type Receptors: Optimization of Electrostatic Interactions for Dicationic Guests. *Organic Letters*, **2020**, 22, 4833-4837	6.2	5
29	Cucurbit[6]uril dimer induces supramolecular polymerisation of a cationic polyethylene glycol derivative. *Supramolecular Chemistry*, **2014**, 26, 157-167	1.8	5

28	Complementarity and Preorganization **2012**,		5
27	Overview of the SAMPL6 host-guest binding affinity prediction challenge		5
26	Acyclic Cucurbit[n]uril Dendrimers. *Organic Letters*, **2015**, 17, 5914-7	6.2	4
25	Acyclic Cucurbit[n]uril-Type Receptors: Aromatic Wall Extension Enhances Binding Affinity, Delivers Helical Chirality, and Enables Fluorescence Sensing. *Chemistry - A European Journal*, **2020**, 26, 15249-15258	4.8	4
24	Acyclic cucurbit[n]urils capped with alkylene linkers: synthesis and molecular recognition properties. *Supramolecular Chemistry*, **2019**, 31, 114-126	1.8	4
23	Enantiomeric self-recognition of a facial amphiphile triggered by [{Pd(ONO2)(en)}2]. *Angewandte Chemie - International Edition*, **2002**, 41, 1905-7	16.4	4
22	Blurring the Lines between Host and Guest: A Chimeric Receptor Derived from Cucurbituril and Triptycene. *Angewandte Chemie*, **2018**, 130, 8205-8210	3.6	3
21	Complex Self-Sorting Systems118-154		3
20	Propri□t□s r□dox de fuller□nes fonctionnalis□s. *Canadian Journal of Chemical Engineering*, **1998**, 76, 1008-1012	2.3	3
19	Acyclic Cucurbit[n]uril-Type Containers as Receptors for Neuromuscular Blocking Agents: Structure-Binding Affinity Relationships. *Croatica Chemica Acta*, **2019**, 92, 163-171	0.8	2
18	Interactions between acyclic CB[n]-type receptors and nitrated explosive materials. *Chemical Communications*, **2019**, 55, 10635-10638	5.8	2
17	Acyclic Cucurbit[n]uril Type Receptors: Secondary Versus Tertiary Amide Arms. *Supramolecular Chemistry*, **2019**, 31, 685-694	1.8	2
16	Binding Methylarginines and Methyllysines as Free Amino Acids: A Comparative Study of Multiple Host Classes*. *ChemBioChem*, **2021**,	3.8	2
15	In Vitro and In Vivo Sequestration of Phencyclidine by Me4Cucurbit[8]uril		2
14	From Packed □Sandwich□ to □Russian Doll□ Assembly by Charge-Transfer Interactions in Cucurbit[10]uril. *Chemistry - A European Journal*, **2016**, 22, 17493-17493	4.8	1
13	A DMSO-capped dimeric glycoluril derivative. *Acta Crystallographica Section E: Structure Reports Online*, **2004**, 60, o1814-o1816		1
12	Thermodynamics of Pillararene□Guest Complexation: Blinded Dataset for the SAMPL9 Challenge.. *New Journal of Chemistry*, **2022**, 46, 995-1002	3.6	1
11	In Vitro and In Vivo Sequestration of Methamphetamine by a Sulfated Acyclic CB[n]-Type Receptor. *Chemistry - A European Journal*, **2021**, 27, 17476-17486	4.8	1

10	Conformationally Mobile Acyclic Cucurbit[n]uril-Type Receptors Derived from an S-shaped Methylene Bridged Glycoluril Pentamer. *Supramolecular Chemistry*, **2020**, 32, 479-494	1.8	1
9	Acyclic Cucurbituril Featuring Pendant Cyclodextrins. *Supramolecular Chemistry*, **2021**, 33, 53-62	1.8	1
8	Chiroptical sensing of amino acids, amines, amino alcohols, alcohols and terpenes with extended acyclic cucurbiturils. *Organic and Biomolecular Chemistry*, **2021**, 19, 4248-4253	3.9	1
7	2,5-Dioxopyrrolidin-1-yl 2-methyl-prop-2-enoate. *Acta Crystallographica Section E: Structure Reports Online*, **2014**, 70, o446		
6	Chapter 3 From methylene bridged glycoluril dimers to cucurbit[n]uril analogs with some detours along the way. *Strategies and Tactics in Organic Synthesis*, **2005**, 6, 71-99	0.2	
5	Glycoluril diamide dihydrate. *Acta Crystallographica Section E: Structure Reports Online*, **2003**, 59, o1927-o1929		
4	Rücktitelbild: Pillar[n]MaxQ: A New High Affinity Host Family for Sequestration in Water (Angew. Chem. 32/2020). *Angewandte Chemie*, **2020**, 132, 13768-13768	3.6	
3	Self-assembled, optically-active {naphthalene diimide}U{cucurbit[8]uril} ensembles in an aqueous environment. *Physical Chemistry Chemical Physics*, **2021**, 23, 13434-13439	3.6	
2	Self Assembled Cages with Mechanically Interlocked Cucurbiturils. *Supramolecular Chemistry*, **2021**, 33, 8-32	1.8	
1	Hybrid Molecular Container Based on Glycoluril and Triptycene: Synthesis, Binding Properties, and Triggered Release. *Chemistry - A European Journal*, **2018**, 24, 13987-13987	4.8	