

# David A Leigh

## List of Publications by Year in descending order

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319  
papers

34,526  
citations

2538

96  
h-index

4203

174  
g-index

369  
all docs

369  
docs citations

369  
times ranked

14632  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic Molecular Motors and Mechanical Machines. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 72-191.	7.2	2,428
2	Artificial Molecular Machines. <i>Chemical Reviews</i> , 2015, 115, 10081-10206.	23.0	1,586
3	Unidirectional rotation in a mechanically interlocked molecular rotor. <i>Nature</i> , 2003, 424, 174-179.	13.7	862
4	Artificial molecular motors. <i>Chemical Society Reviews</i> , 2017, 46, 2592-2621.	18.7	698
5	Macroscopic transport by synthetic molecular machines. <i>Nature Materials</i> , 2005, 4, 704-710.	13.3	685
6	Sequence-Specific Peptide Synthesis by an Artificial Small-Molecule Machine. <i>Science</i> , 2013, 339, 189-193.	6.0	659
7	Photoinduction of Fast, Reversible Translational Motion in a Hydrogen-Bonded Molecular Shuttle. <i>Science</i> , 2001, 291, 2124-2128.	6.0	642
8	Strategies and Tactics for the Metal-Directed Synthesis of Rotaxanes, Knots, Catenanes, and Higher Order Links. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 9260-9327.	7.2	614
9	A molecular information ratchet. <i>Nature</i> , 2007, 445, 523-527.	13.7	602
10	Active metal template synthesis of rotaxanes, catenanes and molecular shuttles. <i>Chemical Society Reviews</i> , 2009, 38, 1530.	18.7	573
11	Artificial switchable catalysts. <i>Chemical Society Reviews</i> , 2015, 44, 5341-5370.	18.7	571
12	A Reversible Synthetic Rotary Molecular Motor. <i>Science</i> , 2004, 306, 1532-1537.	6.0	564
13	Catenanes: Fifty Years of Molecular Links. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6110-6150.	7.2	471
14	Cover Picture: Light-Driven Transport of a Molecular Walker in Either Direction along a Molecular Track ( <i>Angew. Chem. Int. Ed.</i> 1/2011). <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1-1.	7.2	404
15	The application of CuAAC "click" chemistry to catenane and rotaxane synthesis. <i>Chemical Society Reviews</i> , 2010, 39, 1240-1251.	18.7	400
16	A synthetic molecular pentafoil knot. <i>Nature Chemistry</i> , 2012, 4, 15-20.	6.6	379
17	An autonomous chemically fuelled small-molecule motor. <i>Nature</i> , 2016, 534, 235-240.	13.7	370
18	Catalytic "Click" Rotaxanes: A Substoichiometric Metal-Template Pathway to Mechanically Interlocked Architectures. <i>Journal of the American Chemical Society</i> , 2006, 128, 2186-2187.	6.6	350

#	ARTICLE	IF	CITATIONS
19	Rise of the Molecular Machines. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10080-10088.	7.2	312
20	A synthetic small molecule that can walk down a track. <i>Nature Chemistry</i> , 2010, 2, 96-101.	6.6	308
21	Rotary and linear molecular motors driven by pulses of a chemical fuel. <i>Science</i> , 2017, 358, 340-343.	6.0	308
22	Template synthesis of molecular knots. <i>Chemical Society Reviews</i> , 2013, 42, 1700-1712.	18.7	280
23	Facile Synthesis and Solid-State Structure of a Benzylic Amide[2]Catenane. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 1209-1212.	4.4	269
24	Peptide-Based Molecular Shuttles. <i>Journal of the American Chemical Society</i> , 1997, 119, 11092-11093.	6.6	256
25	Hybrid organic–inorganic rotaxanes and molecular shuttles. <i>Nature</i> , 2009, 458, 314-318.	13.7	256
26	Beyond Switches: Ratcheting a Particle Energetically Uphill with a Compartmentalized Molecular Machine. <i>Journal of the American Chemical Society</i> , 2006, 128, 4058-4073.	6.6	252
27	Catalytic Active-Metal-Template Synthesis of [2]Rotaxanes, [3]Rotaxanes, and Molecular Shuttles, and Some Observations on the Mechanism of the Cu(I)-Catalyzed Azide–Alkyne 1,3-Cycloaddition. <i>Journal of the American Chemical Society</i> , 2007, 129, 11950-11963.	6.6	248
28	Molecular Knots. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11166-11194.	7.2	244
29	Walking molecules. <i>Chemical Society Reviews</i> , 2011, 40, 3656.	18.7	237
30	A Star of David catenane. <i>Nature Chemistry</i> , 2014, 6, 978-982.	6.6	233
31	Electrochemically Switchable Hydrogen-Bonded Molecular Shuttles. <i>Journal of the American Chemical Society</i> , 2003, 125, 8644-8654.	6.6	232
32	A Rotaxane-Based Switchable Organocatalyst. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5166-5169.	7.2	232
33	Influencing intramolecular motion with an alternating electric field. <i>Nature</i> , 2000, 406, 608-611.	13.7	223
34	Chemoselective Formation of Successive Triazole Linkages in One Pot: Click–Click Chemistry. <i>Organic Letters</i> , 2006, 8, 4505-4507.	2.4	212
35	Patterning through Controlled Submolecular Motion: Rotaxane-Based Switches and Logic Gates that Function in Solution and Polymer Films. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 3062-3067.	7.2	210
36	Braiding a molecular knot with eight crossings. <i>Science</i> , 2017, 355, 159-162.	6.0	209

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37	Allosteric initiation and regulation of catalysis with a molecular knot. <i>Science</i> , 2016, 352, 1555-1559.	6.0	204
38	Stiff, and Sticky in the Right Places: The Dramatic Influence of Preorganizing Guest Binding Sites on the Hydrogen Bond-Directed Assembly of Rotaxanes. <i>Journal of the American Chemical Society</i> , 2001, 123, 5983-5989.	6.6	203
39	Benzylic Imine Catenates: Readily Accessible Octahedral Analogues of the Sauvage Catenates. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1538-1543.	7.2	202
40	A Generic Basis for Some Simple Light-Operated Mechanical Molecular Machines. <i>Journal of the American Chemical Society</i> , 2004, 126, 12210-12211.	6.6	199
41	Glycylglycine Rotaxanes The Hydrogen Bond Directed Assembly of Synthetic Peptide Rotaxanes. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 728-732.	4.4	198
42	Organic Magic Rings The Hydrogen Bond-Directed Assembly of Catenanes under Thermodynamic Control. <i>Journal of the American Chemical Society</i> , 1999, 121, 1599-1600.	6.6	194
43	A Switchable [2]Rotaxane Asymmetric Organocatalyst That Utilizes an Acyclic Chiral Secondary Amine. <i>Journal of the American Chemical Society</i> , 2014, 136, 4905-4908.	6.6	194
44	Information Storage Using Supramolecular Surface Patterns. <i>Science</i> , 2003, 299, 531-531.	6.0	193
45	Remarkable Positional Discrimination in Bistable Light- and Heat-Switchable Hydrogen-Bonded Molecular Shuttles. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 2296-2300.	7.2	187
46	A Chemically-Driven Molecular Information Ratchet. <i>Journal of the American Chemical Society</i> , 2008, 130, 1836-1838.	6.6	187
47	Photoisomerization of a rotaxane hydrogen bonding template: Light-induced acceleration of a large amplitude rotational motion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 10-14.	3.3	185
48	Shuttling through Anion Recognition. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 1222-1224.	7.2	176
49	Chiroptical Switching in a Bistable Molecular Shuttle. <i>Journal of the American Chemical Society</i> , 2003, 125, 13360-13361.	6.6	175
50	Rotaxane Catalysts. <i>ACS Catalysis</i> , 2014, 4, 4490-4497.	5.5	164
51	Structurally Diverse and Dynamically Versatile Benzylic Amide [2]Catenanes Assembled Directly from Commercially Available Precursors. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 1212-1216.	4.4	161
52	Three State Redox-Active Molecular Shuttle That Switches in Solution and on a Surface. <i>Journal of the American Chemical Society</i> , 2008, 130, 2593-2601.	6.6	158
53	An AAAA DDDD quadruple hydrogen-bond array. <i>Nature Chemistry</i> , 2011, 3, 244-248.	6.6	155
54	Pick-up, transport and release of a molecular cargo using a small-molecule robotic arm. <i>Nature Chemistry</i> , 2016, 8, 138-143.	6.6	154

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55	Light-Driven Transport of a Molecular Walker in Either Direction along a Molecular Track. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 285-290.	7.2	152
56	Genesis of the Nanomachines: The 2016 Nobel Prize in Chemistry. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14506-14508.	7.2	150
57	Molecular machines with bio-inspired mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9397-9404.	3.3	150
58	Stereodivergent synthesis with a programmable molecular machine. <i>Nature</i> , 2017, 549, 374-378.	13.7	147
59	The in situ activation of thioglycosides with bromine: an improved glycosylation method. <i>Journal of Organic Chemistry</i> , 1990, 55, 2860-2863.	1.7	145
60	Active-Metal Template Synthesis of a Molecular Trefoil Knot. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 12280-12284.	7.2	137
61	The Synthesis and Solubilization of Amide Macrocycles via Rotaxane Formation. <i>Journal of the American Chemical Society</i> , 1996, 118, 10662-10663.	6.6	136
62	Asymmetric Catalysis with a Mechanically Point-Chiral Rotaxane. <i>Journal of the American Chemical Society</i> , 2016, 138, 1749-1751.	6.6	132
63	Efficient Assembly of Threaded Molecular Machines for Sequence-Specific Synthesis. <i>Journal of the American Chemical Society</i> , 2014, 136, 5811-5814.	6.6	130
64	Selecting Topology and Connectivity through Metal-Directed Macrocyclization Reactions: A Square Planar Palladium [2]Catenate and Two Noninterlocked Isomers. <i>Journal of the American Chemical Society</i> , 2005, 127, 12612-12619.	6.6	129
65	Rotaxane-Based Propeptides: Protection and Enzymatic Release of a Bioactive Pentapeptide. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6443-6447.	7.2	129
66	Selecting reactions and reactants using a switchable rotaxane organocatalyst with two different active sites. <i>Chemical Science</i> , 2015, 6, 140-143.	3.7	129
67	Active Metal Template Synthesis of [2]Catenanes. <i>Journal of the American Chemical Society</i> , 2009, 131, 15924-15929.	6.6	127
68	A catalysis-driven artificial molecular pump. <i>Nature</i> , 2021, 594, 529-534.	13.7	126
69	A 3D Interlocked Structure from a 2D Template: Structural Requirements for the Assembly of a Square-Planar Metal-Coordinated [2]Rotaxane. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3914-3918.	7.2	124
70	Hydrogen Bond-Assembled Synthetic Molecular Motors and Machines. , 0, , 133-177.		124
71	A mechanically interlocked molecular system programmed for the delivery of an anticancer drug. <i>Chemical Science</i> , 2015, 6, 2608-2613.	3.7	124
72	Pentameric Circular Iron(II) Double Helicates and a Molecular Pentafoil Knot. <i>Journal of the American Chemical Society</i> , 2012, 134, 9488-9497.	6.6	123

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73	An Unusual Nickel~Copper-Mediated Alkyne Homocoupling Reaction for the Active-Template Synthesis of [2]Rotaxanes. <i>Journal of the American Chemical Society</i> , 2010, 132, 6243-6248.	6.6	121
74	Switching ~On~ and ~Off~ the Expression of Chirality in Peptide Rotaxanes. <i>Journal of the American Chemical Society</i> , 2002, 124, 2939-2950.	6.6	118
75	Dissipative Catalysis with a Molecular Machine. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9876-9880.	7.2	116
76	A Three-Compartment Chemically-Driven Molecular Information Ratchet. <i>Journal of the American Chemical Society</i> , 2012, 134, 8321-8323.	6.6	115
77	Catenane Chameleons: Environment-Sensitive Translational Isomerism in Amphiphilic Benzylic Amide[2]Catenanes. <i>Angewandte Chemie International Edition in English</i> , 1996, 35, 306-310.	4.4	114
78	Stereoselective synthesis of a composite knot with nine crossings. <i>Nature Chemistry</i> , 2018, 10, 1083-1088.	6.6	114
79	Goldberg Active Template Synthesis of a [2]Rotaxane Ligand for Asymmetric Transition-Metal Catalysis. <i>Journal of the American Chemical Society</i> , 2015, 137, 7656-7659.	6.6	110
80	Hydrogen Bond-Assembled Fullerene Molecular Shuttle. <i>Organic Letters</i> , 2003, 5, 689-691.	2.4	108
81	An Ion~Pair Template for Rotaxane Formation and its Exploitation in an Orthogonal Interaction Anion~Switchable Molecular Shuttle. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8036-8039.	7.2	108
82	An artificial molecular machine that builds an asymmetric catalyst. <i>Nature Nanotechnology</i> , 2018, 13, 381-385.	15.6	108
83	Exploring the Activation Modes of a Rotaxane-Based Switchable Organocatalyst. <i>Journal of the American Chemical Society</i> , 2014, 136, 15775-15780.	6.6	105
84	[2]Rotaxanes through Palladium Active-Template Oxidative Heck Cross-Couplings. <i>Journal of the American Chemical Society</i> , 2007, 129, 12092-12093.	6.6	104
85	Ligand-assisted nickel-catalysed sp <sup>3</sup> ~sp <sup>3</sup> homocoupling of unactivated alkyl bromides and its application to the active template synthesis of rotaxanes. <i>Chemical Science</i> , 2010, 1, 383.	3.7	104
86	Entropy-Driven Translational Isomerism: A Tristable Molecular Shuttle. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 5886-5889.	7.2	103
87	Extremely Strong and Readily Accessible AAA~DDD Triple Hydrogen Bond Complexes. <i>Journal of the American Chemical Society</i> , 2007, 129, 476-477.	6.6	103
88	A single synthetic small molecule that generates force against a load. <i>Nature Nanotechnology</i> , 2011, 6, 553-557.	15.6	103
89	Cadiot~Chodkiewicz Active Template Synthesis of Rotaxanes and Switchable Molecular Shuttles with Weak Intercomponent Interactions. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4392-4396.	7.2	101
90	Complexation-Induced Translational Isomerism: Shuttling through Stepwise Competitive Binding. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 77-83.	7.2	100

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91	A Catalytic Palladium Active-Metal Template Pathway to [2]Rotaxanes. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5709-5713.	7.2	100
92	Water lubricates hydrogen-bonded molecular machines. <i>Nature Chemistry</i> , 2013, 5, 929-934.	6.6	100
93	Switching between Anion-Binding Catalysis and Aminocatalysis with a Rotaxane Dual-Function Catalyst. <i>Journal of the American Chemical Society</i> , 2017, 139, 9376-9381.	6.6	100
94	Controlled Submolecular Translational Motion in Synthesis: A Mechanically Interlocking Auxiliary. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3260-3264.	7.2	99
95	Getting Harder: Cobalt(III)-Template Synthesis of Catenanes and Rotaxanes. <i>Journal of the American Chemical Society</i> , 2009, 131, 3762-3771.	6.6	96
96	Smart Rotaxanes: Shape Memory and Control in Tertiary Amide Peptide [2]rotaxanes. <i>Journal of the American Chemical Society</i> , 1999, 121, 4124-4129.	6.6	95
97	A Switchable Palladium-Complexed Molecular Shuttle and Its Metastable Positional Isomers. <i>Journal of the American Chemical Society</i> , 2007, 129, 15085-15090.	6.6	95
98	Operation Mechanism of a Molecular Machine Revealed Using Time-Resolved Vibrational Spectroscopy. <i>Science</i> , 2010, 328, 1255-1258.	6.0	95
99	AAA~DDD Triple Hydrogen Bond Complexes. <i>Journal of the American Chemical Society</i> , 2009, 131, 14116-14122.	6.6	94
100	Crystallization-resistant photorefractive polymer composite with high diffraction efficiency and reproducibility. <i>Applied Physics Letters</i> , 1996, 68, 2801-2803.	1.5	93
101	Enhanced Hydrogen Bonding Induced by Optical Excitation: Unexpected Subnanosecond Photoinduced Dynamics in a Peptide-Based [2]Rotaxane. <i>Journal of the American Chemical Society</i> , 2001, 123, 11327-11328.	6.6	93
102	Controlling the Frequency of Macrocyclic Ring Rotation in Benzylic Amide [2]Catenanes. <i>Journal of the American Chemical Society</i> , 1998, 120, 6458-6467.	6.6	92
103	The Self-Sorting Behavior of Circular Helicates and Molecular Knots and Links. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7823-7827.	7.2	90
104	A Solomon Link through an Interwoven Molecular Grid. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7555-7559.	7.2	89
105	Tetrameric Cyclic Double Helicates as a Scaffold for a Molecular Solomon Link. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6464-6467.	7.2	87
106	Einfache Synthese eines Benzylamid-[2]Catenans und seine Festkörperstruktur. <i>Angewandte Chemie</i> , 1995, 107, 1324-1327.	1.6	86
107	Sequence Isomerism in [3]Rotaxanes. <i>Journal of the American Chemical Society</i> , 2010, 132, 4954-4959.	6.6	86
108	A molecular endless (74) knot. <i>Nature Chemistry</i> , 2021, 13, 117-122.	6.6	85

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109	The Effect of Mechanical Interlocking on Crystal Packing: Predictions and Testing. <i>Journal of the American Chemical Society</i> , 2002, 124, 225-233.	6.6	83
110	Gold(I) Template Catenane and Rotaxane Synthesis. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6999-7003.	7.2	83
111	Strong and Selective Anion Binding within the Central Cavity of Molecular Knots and Links. <i>Journal of the American Chemical Society</i> , 2015, 137, 9812-9815.	6.6	82
112	Lanthanide Template Synthesis of Trefoil Knots of Single Handedness. <i>Journal of the American Chemical Society</i> , 2015, 137, 10437-10442.	6.6	81
113	Two Axles Threaded Using a Single Template Site: Active Metal Template Macrobicyclic [3]Rotaxanes. <i>Journal of the American Chemical Society</i> , 2010, 132, 315-320.	6.6	80
114	Switchable Dual Binding Mode Molecular Shuttle. <i>Organic Letters</i> , 2006, 8, 5377-5379.	2.4	79
115	“Magic Rod” Rotaxanes: The Hydrogen Bond-Directed Synthesis of Molecular Shuttles under Thermodynamic Control. <i>Organic Letters</i> , 2003, 5, 1907-1910.	2.4	78
116	One Template, Multiple Rings: Controlled Iterative Addition of Macrocycles onto a Single Binding Site Rotaxane Thread. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5015-5019.	7.2	78
117	Shuttling through reversible covalent chemistry. <i>Chemical Communications</i> , 2004, , 2262-2263.	2.2	77
118	Tying a Molecular Overhand Knot of Single Handedness and Asymmetric Catalysis with the Corresponding Pseudo- <i>D</i> <sub>3</sub> -Symmetric Trefoil Knot. <i>Journal of the American Chemical Society</i> , 2016, 138, 13159-13162.	6.6	75
119	Reducing Molecular Shuttling to a Single Dimension. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 350-353.	7.2	74
120	Tying different knots in a molecular strand. <i>Nature</i> , 2020, 584, 562-568.	13.7	74
121	Self-assembly of a layered two-dimensional molecularly woven fabric. <i>Nature</i> , 2020, 588, 429-435.	13.7	74
122	En Route to a Molecular Sheaf: Active Metal Template Synthesis of a [3]Rotaxane with Two Axles Threaded through One Ring. <i>Journal of the American Chemical Society</i> , 2011, 133, 12298-12303.	6.6	73
123	Phosphorus-Based Functional Groups as Hydrogen Bonding Templates for Rotaxane Formation. <i>Journal of the American Chemical Society</i> , 2011, 133, 12304-12310.	6.6	73
124	Lanthanide Template Synthesis of a Molecular Trefoil Knot. <i>Journal of the American Chemical Society</i> , 2014, 136, 13142-13145.	6.6	72
125	Dynamic Control of Chiral Space Through Local Symmetry Breaking in a Rotaxane Organocatalyst. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14955-14958.	7.2	72
126	Rare and Diverse Binding Modes Introduced through Mechanical Bonding. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 4557-4564.	7.2	71



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127	Chemical engines: driving systems away from equilibrium through catalyst reaction cycles. <i>Nature Nanotechnology</i> , 2021, 16, 1057-1067.	15.6	70
128	How Do Benzylic Amide [2]Catenane Rings Rotate?. <i>Journal of the American Chemical Society</i> , 1999, 121, 2364-2379.	6.6	69
129	An Allosterically Regulated Molecular Shuttle. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1385-1390.	7.2	69
130	Design, Synthesis, and Operation of Small Molecules That Walk along Tracks. <i>Journal of the American Chemical Society</i> , 2010, 132, 16134-16145.	6.6	69
131	Lighting up nanomachines. <i>Nature</i> , 2006, 440, 286-287.	13.7	68
132	Mechanically Linked Polycarbonate. <i>Journal of the American Chemical Society</i> , 2003, 125, 2200-2207.	6.6	67
133	Nitrone [2]Rotaxanes: Simultaneous Chemical Protection and Electrochemical Activation of a Functional Group. <i>Journal of the American Chemical Society</i> , 2010, 132, 9465-9470.	6.6	66
134	Diels-Alder Active-Template Synthesis of Rotaxanes and Metal-Ion-Switchable Molecular Shuttles. <i>Journal of the American Chemical Society</i> , 2010, 132, 5309-5314.	6.6	65
135	Unusual host-guest arene-H bonding in a hooded cavitand: the first solid-state structure of a calix[4]resorcinarene with underivatized hydroxy groups. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 389-390.	2.0	64
136	Active Template Synthesis of Rotaxanes and Molecular Shuttles with Switchable Dynamics by Four-Component Pd <sup>II</sup> -Promoted Michael Additions. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3381-3384.	7.2	64
137	Pyridyl-Acyl Hydrazone Rotaxanes and Molecular Shuttles. <i>Journal of the American Chemical Society</i> , 2017, 139, 7104-7109.	6.6	64
138	Autonomous fuelled directional rotation about a covalent single bond. <i>Nature</i> , 2022, 604, 80-85.	13.7	63
139	Beyond switches: Rotaxane- and catenane-based synthetic molecular motors. <i>Pure and Applied Chemistry</i> , 2008, 80, 17-29.	0.9	62
140	Molekulare Knoten. <i>Angewandte Chemie</i> , 2017, 129, 11318-11347.	1.6	62
141	Sequence-Specific <sup>12</sup> C-Labelled Peptide Synthesis by a Rotaxane-Based Molecular Machine. <i>Journal of the American Chemical Society</i> , 2017, 139, 10875-10879.	6.6	61
142	Glycylglycin-Rotaxane-Wasserstoffbrückenvermittelte Selbstorganisation synthetischer Peptid-Rotaxane. <i>Angewandte Chemie</i> , 1997, 109, 752-756.	1.6	60
143	Title is missing!. <i>Angewandte Chemie</i> , 2003, 115, 2398-2402.	1.6	60
144	Structural, Electrochemical, and Photophysical Properties of a Molecular Shuttle Attached to an Acid-Terminated Self-Assembled Monolayer. <i>Journal of Physical Chemistry B</i> , 2004, 108, 15192-15199.	1.2	60

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145	Amide-based molecular shuttles (2001-2006). <i>Pure and Applied Chemistry</i> , 2007, 79, 39-54.	0.9	60
146	AAAA-DDDD Quadruple Hydrogen-Bond Arrays Featuring NH $\cdots$ N and CH $\cdots$ N Hydrogen Bonds. <i>Journal of the American Chemical Society</i> , 2013, 135, 9939-9943.	6.6	60
147	Self-Sorting Assembly of Molecular Trefoil Knots of Single Handedness. <i>Journal of the American Chemical Society</i> , 2019, 141, 14249-14256.	6.6	60
148	Spontaneous Assembly of Rotaxanes from a Primary Amine, Crown Ether and Electrophile. <i>Journal of the American Chemical Society</i> , 2018, 140, 6049-6052.	6.6	59
149	Single-Step Enantioselective Synthesis of Mechanically Planar Chiral [2]Rotaxanes Using a Chiral Leaving Group Strategy. <i>Journal of the American Chemical Society</i> , 2020, 142, 9803-9808.	6.6	58
150	Conformational Self-Recognition as the Origin of Dewetting in Bistable Molecular Surfaces. <i>Journal of Physical Chemistry B</i> , 2001, 105, 10826-10830.	1.2	57
151	Synthesis, Structure, and Dynamic Properties of Hybrid Organic-Inorganic Rotaxanes. <i>Journal of the American Chemical Society</i> , 2010, 132, 15435-15444.	6.6	56
152	A Doubly Kinetically-Gated Information Ratchet Autonomously Driven by Carbodiimide Hydration. <i>Journal of the American Chemical Society</i> , 2021, 143, 4414-4420.	6.6	55
153	Rotaxane Building Blocks bearing Blocked Isocyanate Stoppers: Polyrotaxanes through Post-Assembly Chain Extension. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3379-3383.	7.2	54
154	Insights from an information thermodynamics analysis of a synthetic molecular motor. <i>Nature Chemistry</i> , 2022, 14, 530-537.	6.6	54
155	From reactants to products via simple hydrogen-bonding networks: Information transmission in chemical reactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 4967-4971.	3.3	53
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