

David A Leigh

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

329
papers

28,961
citations

90
h-index

162
g-index

368
ext. papers

31,708
ext. citations

13.7
avg, IF

7.48
L-index

#	Paper	IF	Citations
329	Insights from an information thermodynamics analysis of a synthetic molecular motor.. <i>Nature Chemistry</i> , 2022 ,	17.6	6
328	Vernier template synthesis of molecular knots.. <i>Science</i> , 2022 , 375, 1035-1041	33.3	3
327	Autonomous fuelled directional rotation about a covalent single bond.. <i>Nature</i> , 2022 , 604, 80-85	50.4	7
326	Real-time observation of the dynamics of an individual rotaxane molecular shuttle using a single-molecule junction. <i>CheM</i> , 2021 ,	16.2	6
325	Chemical engines: driving systems away from equilibrium through catalyst reaction cycles. <i>Nature Nanotechnology</i> , 2021 , 16, 1057-1067	28.7	15
324	A Doubly Kinetically-Gated Information Ratchet Autonomously Driven by Carbodiimide Hydration. <i>Journal of the American Chemical Society</i> , 2021 , 143, 4414-4420	16.4	20
323	Sequence-Selective Decapeptide Synthesis by the Parallel Operation of Two Artificial Molecular Machines. <i>Journal of the American Chemical Society</i> , 2021 , 143, 5158-5165	16.4	15
322	A catalysis-driven artificial molecular pump. <i>Nature</i> , 2021 , 594, 529-534	50.4	35
321	A molecular endless (7) knot. <i>Nature Chemistry</i> , 2021 , 13, 117-122	17.6	25
320	Real-Time Fluctuations in Single-Molecule Rotaxane Experiments Reveal an Intermediate Weak Binding State during Shuttling. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2348-2352	16.4	9
319	A Chiral Cyclometalated Iridium Star of David [2]Catenane. <i>Journal of the American Chemical Society</i> , 2021 , 143, 1154-1161	16.4	7
318	Self-assembly of a layered two-dimensional molecularly woven fabric. <i>Nature</i> , 2020 , 588, 429-435	50.4	23
317	Weak functional group interactions revealed through metal-free active template rotaxane synthesis. <i>Nature Communications</i> , 2020 , 11, 744	17.4	21
316	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	16.4	24
315	Transmembrane Ion Channels Formed by a Star of David [2]Catenane and a Molecular Pentafoil Knot. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18859-18865	16.4	23
314	A Track-Based Molecular Synthesizer that Builds a Single-Sequence Oligomer through Iterative Carbon-Carbon Bond Formation. <i>CheM</i> , 2020 , 6, 2964-2973	16.2	14
313	Knotting a molecular strand can invert macroscopic effects of chirality. <i>Nature Chemistry</i> , 2020 , 12, 939-946	17.6	18

312	Tying different knots in a molecular strand. <i>Nature</i> , 2020 , 584, 562-568	50.4	31
311	Effects of turn-structure on folding and entanglement in artificial molecular overhand knots. <i>Chemical Science</i> , 2020 , 12, 1826-1833	9.4	5
310	Site-to-site peptide transport on a molecular platform using a small-molecule robotic arm. <i>Chemical Science</i> , 2020 , 12, 2065-2070	9.4	8
309	Dynamic Control of Chiral Space Through Local Symmetry Breaking in a Rotaxane Organocatalyst. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14955-14958	16.4	40
308	Probing the Dynamics of the Imine-Based Pentafoil Knot and Pentameric Circular Helicate Assembly. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3605-3612	16.4	18
307	Effects of knot tightness at the molecular level. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 2452-2457	11.5	28
306	Active template rotaxane synthesis through the Ni-catalyzed cross-coupling of alkylzinc reagents with redox-active esters. <i>Chemical Science</i> , 2019 , 10, 7269-7273	9.4	9
305	Dissipative Catalysis with a Molecular Machine. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9876-9880	3.6	24
304	Dissipative Catalysis with a Molecular Machine. <i>Angewandte Chemie</i> , 2019 , 131, 9981-9985	3.6	24
303	Stereoselective Synthesis of Molecular Square and Granny Knots. <i>Journal of the American Chemical Society</i> , 2019 , 141, 6054-6059	16.4	28
302	Coordination Chemistry of a Molecular Pentafoil Knot. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3952-3958	16.4	25
301	Self-Sorting Assembly of Molecular Trefoil Knots of Single Handedness. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14249-14256	16.4	38
300	Titelbild: Dissipative Catalysis with a Molecular Machine (Angew. Chem. 29/2019). <i>Angewandte Chemie</i> , 2019 , 131, 9751-9751	3.6	2
299	Dynamic Control of Chiral Space Through Local Symmetry Breaking in a Rotaxane Organocatalyst. <i>Angewandte Chemie</i> , 2019 , 131, 15097-15100	3.6	9
298	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	11.5	103
297	Spontaneous Assembly of Rotaxanes from a Primary Amine, Crown Ether and Electrophile. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6049-6052	16.4	39
296	Securing a Supramolecular Architecture by Tying a Stopper Knot. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10484-10488	16.4	36
295	An artificial molecular machine that builds an asymmetric catalyst. <i>Nature Nanotechnology</i> , 2018 , 13, 381-385	28.7	85

294	Molecular Trefoil Knot from a Trimeric Circular Helicate. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4982-4985	16.4	35
293	Comment on "Coordination-Driven Self-Assembly of a Molecular Knot Comprising Sixteen Crossings". <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 12212-12214	16.4	13
292	A Six-Crossing Doubly Interlocked [2]Catenane with Twisted Rings, and a Molecular Granny Knot. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13833-13837	16.4	25
291	Securing a Supramolecular Architecture by Tying a Stopper Knot. <i>Angewandte Chemie</i> , 2018 , 130, 10644-10648	3.6	11
290	Analysis of two [2]catenanes based on electron densities from invariom refinement and results from DFT calculations. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2018 , 73, 677-687	1	2
289	Comment on "Coordination-Driven Self-Assembly of a Molecular Knot Comprising Sixteen Crossings". <i>Angewandte Chemie</i> , 2018 , 130, 12390-12392	3.6	1
288	Stereoselective synthesis of a composite knot with nine crossings. <i>Nature Chemistry</i> , 2018 , 10, 1083-1088	7.6	83
287	A Six-Crossing Doubly Interlocked [2]Catenane with Twisted Rings, and a Molecular Granny Knot. <i>Angewandte Chemie</i> , 2018 , 130, 14029-14033	3.6	14
286	Braiding a molecular knot with eight crossings. <i>Science</i> , 2017 , 355, 159-162	33.3	168
285	Artificial molecular motors. <i>Chemical Society Reviews</i> , 2017 , 46, 2592-2621	58.5	497
284	Molecular Knots. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11166-11194	16.4	186
283	Pyridyl-Acyl Hydrazone Rotaxanes and Molecular Shuttles. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7104-7109	16.4	44
282	[2]Rotaxane Formation by Transition State Stabilization. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8455-8457	16.4	32
281	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	16.4	77
280	Rotary and linear molecular motors driven by pulses of a chemical fuel. <i>Science</i> , 2017 , 358, 340-343	33.3	212
279	A complementary pair of enantioselective switchable organocatalysts. <i>Chemical Science</i> , 2017 , 8, 7077-7081	9.1	33
278	Stereodivergent synthesis with a programmable molecular machine. <i>Nature</i> , 2017 , 549, 374-378	50.4	123
277	Sequence-Specific Peptide Synthesis by a Rotaxane-Based Molecular Machine. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10875-10879	16.4	53

276	Enzyme-Mediated Directional Transport of a Small-Molecule Walker With Chemically Identical Feet. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11998-12002	16.4	15
275	Molekulare Knoten. <i>Angewandte Chemie</i> , 2017 , 129, 11318-11347	3.6	55
274	Transient two-dimensional vibrational spectroscopy of an operating molecular machine. <i>Nature Communications</i> , 2017 , 8, 2206	17.4	11
273	Triply Threaded [4]Rotaxanes. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12643-7	16.4	33
272	Making the Tiniest Machines 2016 , 241-260		
271	Genesis of the Nanomachines: The 2016 Nobel Prize in Chemistry. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14506-14508	16.4	121
270	Die Genese der Nanomaschinen: der Chemie-Nobelpreis 2016. <i>Angewandte Chemie</i> , 2016 , 128, 14722-14734	16.4	28
269	Successive Translocation of the Rings in a [3]Rotaxane. <i>ChemPhysChem</i> , 2016 , 17, 1902-12	3.2	10
268	An autonomous chemically fuelled small-molecule motor. <i>Nature</i> , 2016 , 534, 235-40	50.4	269
267	Allosteric initiation and regulation of catalysis with a molecular knot. <i>Science</i> , 2016 , 352, 1555-9	33.3	163
266	Asymmetric Catalysis with a Mechanically Point-Chiral Rotaxane. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1749-51	16.4	98
265	Pick-up, transport and release of a molecular cargo using a small-molecule robotic arm. <i>Nature Chemistry</i> , 2016 , 8, 138-43	17.6	129
264	Tying a Molecular Overhand Knot of Single Handedness and Asymmetric Catalysis with the Corresponding Pseudo-D-Symmetric Trefoil Knot. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13159-13162	16.4	61
263	A mechanically interlocked molecular system programmed for the delivery of an anticancer drug. <i>Chemical Science</i> , 2015 , 6, 2608-2613	9.4	95
262	Lanthanide Template Synthesis of Trefoil Knots of Single Handedness. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10437-42	16.4	62
261	Strong and Selective Anion Binding within the Central Cavity of Molecular Knots and Links. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9812-5	16.4	65
260	Artificial switchable catalysts. <i>Chemical Society Reviews</i> , 2015 , 44, 5341-70	58.5	465
259	Catenane: fünfzig Jahre molekulare Verschlingungen. <i>Angewandte Chemie</i> , 2015 , 127, 6208-6249	3.6	100

- 258 Catenanes: fifty years of molecular links. *Angewandte Chemie - International Edition*, **2015**, 54, 6110-50 16.4 346
- 257 Artificial Molecular Machines. *Chemical Reviews*, **2015**, 115, 10081-206 68.1 1206
- 256 Selecting reactions and reactants using a switchable rotaxane organocatalyst with two different active sites. *Chemical Science*, **2015**, 6, 140-143 9.4 104
- 255 A Rotaxane-Like Supramolecular Assembly Featuring Orthogonal Recognition Modes. *Asian Journal of Organic Chemistry*, **2015**, 4, 204-207 3
- 254 Innenrücktitelbild: A Solomon Link through an Interwoven Molecular Grid (Angew. Chem. 26/2015). *Angewandte Chemie*, **2015**, 127, 7829-7829 3.6
- 253 A Solomon Link through an Interwoven Molecular Grid. *Angewandte Chemie*, **2015**, 127, 7665-7669 3.6 17
- 252 Rise of the Molecular Machines. *Angewandte Chemie - International Edition*, **2015**, 54, 10080-8 16.4 267
- 251 A Solomon link through an interwoven molecular grid. *Angewandte Chemie - International Edition*, **2015**, 54, 7555-9 16.4 75
- 250 Die Evolution molekularer Maschinen. *Angewandte Chemie*, **2015**, 127, 10218-10226 3.6 87
- 249 Goldberg Active Template Synthesis of a [2]Rotaxane Ligand for Asymmetric Transition-Metal Catalysis. *Journal of the American Chemical Society*, **2015**, 137, 7656-9 16.4 91
- 248 Synthetic molecular walkers. *Topics in Current Chemistry*, **2014**, 354, 111-38 27
- 247 Rotaxane Catalysts. *ACS Catalysis*, **2014**, 4, 4490-4497 13.1 123
- 246 A Simple and Highly Effective Ligand System for the Copper(I)-Mediated Assembly of Rotaxanes. *Angewandte Chemie*, **2014**, 126, 13991-13994 3.6 6
- 245 Probing the mobility of catenane rings in single molecules. *Chemical Science*, **2014**, 5, 1449 9.4 41
- 244 Toward metal complexes that can directionally walk along tracks: controlled stepping of a molecular biped with a palladium(II) foot. *Journal of the American Chemical Society*, **2014**, 136, 2094-100 16.4 41
- 243 Exploring the activation modes of a rotaxane-based switchable organocatalyst. *Journal of the American Chemical Society*, **2014**, 136, 15775-80 16.4 91
- 242 A Star of David catenane. *Nature Chemistry*, **2014**, 6, 978-82 17.6 193
- 241 Lanthanide template synthesis of a molecular trefoil knot. *Journal of the American Chemical Society*, **2014**, 136, 13142-5 16.4 66

240	The self-sorting behavior of circular helicates and molecular knots and links. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 7823-7	16.4	81
239	A switchable [2]rotaxane asymmetric organocatalyst that utilizes an acyclic chiral secondary amine. <i>Journal of the American Chemical Society</i> , 2014 , 136, 4905-8	16.4	169
238	Efficient assembly of threaded molecular machines for sequence-specific synthesis. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5811-4	16.4	117
237	A simple and highly effective ligand system for the copper(I)-mediated assembly of rotaxanes. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 13771-4	16.4	27
236	The Self-Sorting Behavior of Circular Helicates and Molecular Knots and Links. <i>Angewandte Chemie</i> , 2014 , 126, 7957-7961	3.6	31
235	Water lubricates hydrogen-bonded molecular machines. <i>Nature Chemistry</i> , 2013 , 5, 929-34	17.6	88
234	Sequence-specific peptide synthesis by an artificial small-molecule machine. <i>Science</i> , 2013 , 339, 189-93	33.3	546
233	Induction of motion in a synthetic molecular machine: effect of tuning the driving force. <i>Chemistry - A European Journal</i> , 2013 , 19, 5566-77	4.8	25
232	Tetrameric cyclic double helicates as a scaffold for a molecular Solomon link. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6464-7	16.4	75
231	One-dimensional random walk of a synthetic small molecule toward a thermodynamic sink. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8639-45	16.4	38
230	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, 9939-43	16.4	48
229	Template synthesis of molecular knots. <i>Chemical Society Reviews</i> , 2013 , 42, 1700-12	58.5	235
228	Tetrameric Cyclic Double Helicates as a Scaffold for a Molecular Solomon Link. <i>Angewandte Chemie</i> , 2013 , 125, 6592-6595	3.6	29
227	Innentitelbild: Tetrameric Cyclic Double Helicates as a Scaffold for a Molecular Solomon Link (Angew. Chem. 25/2013). <i>Angewandte Chemie</i> , 2013 , 125, 6468-6468	3.6	
226	A scalable synthesis of 5,5'-dibromo-2,2'-bipyridine and its stepwise functionalization via Stille couplings. <i>Nature Protocols</i> , 2012 , 7, 2022-8	18.8	9
225	Time-resolved vibrational spectroscopy of a molecular shuttle. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 1865-75	3.6	29
224	Second generation specific-enzyme-activated rotaxane propeptides. <i>Chemical Communications</i> , 2012 , 48, 2083-5	5.8	40
223	A three-compartment chemically-driven molecular information ratchet. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8321-3	16.4	103

222	Half-rotation in a kinetically locked [2]catenane induced by transition metal ion substitution. <i>Chemical Communications</i> , 2012 , 48, 5826-8	5.8	33
221	A small molecule that walks non-directionally along a track without external intervention. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5480-3	16.4	43
220	Pentameric circular iron(II) double helicates and a molecular pentafoil knot. <i>Journal of the American Chemical Society</i> , 2012 , 134, 9488-97	16.4	111
219	A Small Molecule that Walks Non-Directionally Along a Track Without External Intervention. <i>Angewandte Chemie</i> , 2012 , 124, 5576-5579	3.6	11
218	A Rotaxane-Based Switchable Organocatalyst. <i>Angewandte Chemie</i> , 2012 , 124, 5256-5259	3.6	76
217	Innenrücktitelbild: A Small Molecule that Walks Non-Directionally Along a Track Without External Intervention (Angew. Chem. 22/2012). <i>Angewandte Chemie</i> , 2012 , 124, 5599-5599	3.6	
216	A rotaxane-based switchable organocatalyst. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5166-5166	16.4	197
215	Inside Back Cover: A Small Molecule that Walks Non-Directionally Along a Track Without External Intervention (Angew. Chem. Int. Ed. 22/2012). <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5505-5505	16.4	195
214	A synthetic molecular pentafoil knot. <i>Nature Chemistry</i> , 2011 , 4, 15-20	17.6	328
213	Phosphorus-based functional groups as hydrogen bonding templates for rotaxane formation. <i>Journal of the American Chemical Society</i> , 2011 , 133, 12304-10	16.4	66
212	An AAAADDDD quadruple hydrogen-bond array. <i>Nature Chemistry</i> , 2011 , 3, 244-48	17.6	142
211	A single synthetic small molecule that generates force against a load. <i>Nature Nanotechnology</i> , 2011 , 6, 553-7	28.7	91
210	Walking molecules. <i>Chemical Society Reviews</i> , 2011 , 40, 3656-76	58.5	218
209	Light-Driven Transport of a Molecular Walker in Either Direction along a Molecular Track. <i>Angewandte Chemie</i> , 2011 , 123, 299-304	3.6	48
208	Titelbild: Light-Driven Transport of a Molecular Walker in Either Direction along a Molecular Track (Angew. Chem. 1/2011). <i>Angewandte Chemie</i> , 2011 , 123, 1-1	3.6	29
207	Strategien und Taktiken für die metallgesteuerte Synthese von Rotaxanen, Knoten, Catenanen und Verschlingungen höherer Ordnung. <i>Angewandte Chemie</i> , 2011 , 123, 9428-9499	3.6	156
206	Active-Metal Template Synthesis of a Molecular Trefoil Knot. <i>Angewandte Chemie</i> , 2011 , 123, 12488-12492	3.6	37
205	Rücktitelbild: Active-Metal Template Synthesis of a Molecular Trefoil Knot (Angew. Chem. 51/2011). <i>Angewandte Chemie</i> , 2011 , 123, 12574-12574	3.6	

204	Light-driven transport of a molecular walker in either direction along a molecular track. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 285-90	16.4	134
203	Cover Picture: Light-Driven Transport of a Molecular Walker in Either Direction along a Molecular Track (Angew. Chem. Int. Ed. 1/2011). <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 1-1	16.4	382
202	Strategies and tactics for the metal-directed synthesis of rotaxanes, knots, catenanes, and higher order links. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 9260-327	16.4	555
201	Active-metal template synthesis of a molecular trefoil knot. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 12280-4	16.4	125
200	Back Cover: Active-Metal Template Synthesis of a Molecular Trefoil Knot (Angew. Chem. Int. Ed. 51/2011). <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 12366-12366	16.4	
199	Sulfur-containing amide-based [2]rotaxanes and molecular shuttles. <i>Chemical Science</i> , 2011 , 2, 1922	9.4	42
198	IR spectroscopy on jet-cooled isolated two-station rotaxanes. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 9669-75	2.8	29
197	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, 12298-303	16.4	66
196	Bimodal dynamics of mechanically constrained hydrogen bonds revealed by vibrational photon echoes. <i>Journal of Chemical Physics</i> , 2011 , 134, 134504	3.9	8
195	A synthetic small molecule that can walk down a track. <i>Nature Chemistry</i> , 2010 , 2, 96-101	17.6	274
194	Operation mechanism of a molecular machine revealed using time-resolved vibrational spectroscopy. <i>Science</i> , 2010 , 328, 1255-8	33.3	91
193	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, 6243-8	16.4	113
192	Two axles threaded using a single template site: active metal template macrobicyclic [3]rotaxanes. <i>Journal of the American Chemical Society</i> , 2010 , 132, 315-20	16.4	77
191	Nitrone [2]rotaxanes: simultaneous chemical protection and electrochemical activation of a functional group. <i>Journal of the American Chemical Society</i> , 2010 , 132, 9465-70	16.4	57
190	Diels-Alder active-template synthesis of rotaxanes and metal-ion-switchable molecular shuttles. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5309-14	16.4	60
189	Sequence isomerism in [3]rotaxanes. <i>Journal of the American Chemical Society</i> , 2010 , 132, 4954-9	16.4	76
188	Design, synthesis, and operation of small molecules that walk along tracks. <i>Journal of the American Chemical Society</i> , 2010 , 132, 16134-45	16.4	68
187	The application of CuAAC 'click' chemistry to catenane and rotaxane synthesis. <i>Chemical Society Reviews</i> , 2010 , 39, 1240-51	58.5	374

186	Synthesis and solid state structure of a hydrazone-disulfide macrocycle and its dynamic covalent ring-opening under acidic and basic conditions. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 4617-24	3.9	14
185	Synthesis, structure, and dynamic properties of hybrid organic-inorganic rotaxanes. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15435-44	16.4	53
184	Improved dynamics and positional bias with a second generation palladium(II)-complexed molecular shuttle. <i>Chemical Communications</i> , 2010 , 46, 2382-4	5.8	21
183	Ligand-assisted nickel-catalysed sp ³ sp ³ homocoupling of unactivated alkyl bromides and its application to the active template synthesis of rotaxanes. <i>Chemical Science</i> , 2010 , 1, 383	9.4	96
182	In trap fragmentation and optical characterization of rotaxanes. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 12556-61	3.6	2
181	Controlled hydrogen-bond breaking in a rotaxane by discrete solvation. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3896-900	16.4	30
180	Conformational flexibility of a rotaxane thread probed by electronic spectroscopy in helium nanodroplets. <i>Journal of the American Chemical Society</i> , 2009 , 131, 12902-3	16.4	11
179	Photoinduced Shuttling Dynamics of Rotaxanes in Viscous Polymer Solutions. <i>Advanced Functional Materials</i> , 2009 , 19, 3440-3449	15.6	21
178	Rotaxane-based propeptides: protection and enzymatic release of a bioactive pentapeptide. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 6443-7	16.4	105
177	Hybrid organic-inorganic rotaxanes and molecular shuttles. <i>Nature</i> , 2009 , 458, 314-8	50.4	241
176	Getting harder: cobalt(III)-template synthesis of catenanes and rotaxanes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3762-71	16.4	85
175	Multistate photo-induced relaxation and photoisomerization ability of fumaramide threads: a computational and experimental study. <i>Journal of the American Chemical Society</i> , 2009 , 131, 104-17	16.4	24
174	Stiff, and sticky in the right places: binding interactions in isolated mechanically interlocked molecules probed by mid-infrared spectroscopy. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2428-9	16.4	33
173	Two-dimensional vibrational spectroscopy of rotaxane-based molecular machines. <i>Accounts of Chemical Research</i> , 2009 , 42, 1462-9	24.3	37
172	AAA-DDD triple hydrogen bond complexes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 14116-22	16.4	87
171	Active metal template synthesis of rotaxanes, catenanes and molecular shuttles. <i>Chemical Society Reviews</i> , 2009 , 38, 1530-41	58.5	504
170	Active metal template synthesis of [2]catenanes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 15924-9	16.4	114
169	A chemically-driven molecular information ratchet. <i>Journal of the American Chemical Society</i> , 2008 , 130, 1836-8	16.4	161

168	Beyond switches: Rotaxane- and catenane-based synthetic molecular motors. <i>Pure and Applied Chemistry</i> , 2008 , 80, 17-29	2.1	57
167	Shaping of a conformationally flexible molecular structure for spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 3174-9	16.4	29
166	Active template synthesis of rotaxanes and molecular shuttles with switchable dynamics by four-component Pd(II)-promoted Michael additions. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 3381-4	16.4	59
165	Cadiot-Chodkiewicz active template synthesis of rotaxanes and switchable molecular shuttles with weak intercomponent interactions. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 4392-6	16.4	92
164	Gold(I)-template catenane and rotaxane synthesis. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 6999-7003	16.4	75
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5	The facile conversion of T-2 toxin and neosolaniol into anguidine. <i>Tetrahedron Letters</i> , 1987 , 28, 2661-2664	5
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