

Great expectations: can artificial molecular machines do

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Eight-Membered and Larger Rings. Progress in Heterocyclic Chemistry, 1990, , 277-288.	0.5	4
2	Artificial molecular rotors and motors on surfaces: STM reveals and triggers. Soft Matter, 2012, 8, 9053.	1.2	54
3	Expansionâ€“contraction of photoresponsive artificial muscle regulated by hostâ€“guest interactions. Nature Communications, 2012, 3, 1270.	5.8	622
4	Stochastic thermodynamics, fluctuation theorems and molecular machines. Reports on Progress in Physics, 2012, 75, 126001.	8.1	2,247
5	Radically Enhanced Molecular Switches. Journal of the American Chemical Society, 2012, 134, 16275-16288.	6.6	84
6	Microscopic reversibility as the organizing principle of molecular machines. Nature Nanotechnology, 2012, 7, 684-688.	15.6	150
7	W-Band Time-Resolved Electron Paramagnetic Resonance Study of Light-Induced Spin Dynamics in Copperâ€“Nitroxide-Based Switchable Molecular Magnets. Journal of the American Chemical Society, 2012, 134, 16319-16326.	6.6	39
8	Breaking the limits with silylenes. Nature Chemistry, 2012, 4, 525-526.	6.6	52
9	Metal Migration Processes in Homo- and Heterobimetallic Bismuth(III)â€“Lead(II) Porphyrin Complexes: Emergence of Allosteric Newtonâ€™s Cradle-like Devices. Journal of the American Chemical Society, 2012, 134, 16017-16032.	6.6	22
10	Chiral Supramolecular Switches Based on (<i>R</i>)-Binaphthaleneâ€“Bipyridinium Guests and Cucurbituril Hosts. Chemistry - A European Journal, 2012, 18, 16911-16921.	1.7	53
12	The Chameleonic Nature of Diazaperopyrenium Recognition Processes. Angewandte Chemie - International Edition, 2012, 51, 11872-11877.	7.2	25
13	Redox divergent conversion of a [2]rotaxane into two distinct degenerate partners with different shuttling dynamics. Chemical Science, 2012, 3, 2314.	3.7	45
14	Mechanostereochemistry and the mechanical bond. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2012, 468, 2849-2880.	1.0	51
15	Reversible modulation of helicity in a binaphthylâ€“bipyridinium species and its cucurbit[8]uril complexes. Chemical Communications, 2012, 48, 7577.	2.2	43
16	Blue-Colored, Linear Rigid-Axle [2]Pseudorotaxanes: Metal-Binding Properties, Crystal Structures, and Blue/Red Dichroism. Inorganic Chemistry, 2012, 51, 3156-3160.	1.9	10
17	Deposition of Ordered Layers of Tetralactam Macrocycles and Ether Rotaxanes on Pyridine-Terminated Self-Assembled Monolayers on Gold. Journal of the American Chemical Society, 2012, 134, 16289-16297.	6.6	31
18	Azobenzene Photoisomerization under High External Pressures: Testing the Strength of a Light-Activated Molecular Muscle. Journal of Physical Chemistry B, 2012, 116, 9860-9865.	1.2	45
19	Modular Synthesis of Bipyridinium Oligomers and Corresponding Donorâ€“Acceptor Oligorotaxanes with Crown Ethers. Organic Letters, 2012, 14, 5066-5069.	2.4	21

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20	Driving Unidirectional Molecular Rotary Motors with Visible Light by Intra- And Intermolecular Energy Transfer from Palladium Porphyrin. <i>Journal of the American Chemical Society</i> , 2012, 134, 17613-17619.	6.6	99
21	Eight-Membered and Larger Rings. <i>Progress in Heterocyclic Chemistry</i> , 2012, , 537-556.	0.5	2
22	Multiply biphenyl substituted zinc(II) porphyrin and phthalocyanine as components for molecular materials. <i>Journal of Porphyrins and Phthalocyanines</i> , 2012, 16, 1293-1302.	0.4	11
23	Driving and Controlling Molecular Surface Rotors with a Terahertz Electric Field. <i>ACS Nano</i> , 2012, 6, 5242-5248.	7.3	35
24	Molecular motor speed limits. <i>Nature Chemistry</i> , 2012, 4, 523-525.	6.6	8
25	Cu(I)/Cu(II) templated functional pseudorotaxanes and rotaxanes. <i>Journal of Chemical Sciences</i> , 2012, 124, 1229-1237.	0.7	10
26	Thermally-Induced Phase Transition of Pseudorotaxane Crystals: Changes in Conformation and Interaction of the Molecules and Optical Properties of the Crystals. <i>Journal of the American Chemical Society</i> , 2012, 134, 17932-17944.	6.6	61
27	Merging Constitutional and Motional Covalent Dynamics in Reversible Imine Formation and Exchange Processes. <i>Journal of the American Chemical Society</i> , 2012, 134, 9446-9455.	6.6	156
28	Metal-organic frameworks with dynamic interlocked components. <i>Nature Chemistry</i> , 2012, 4, 456-460.	6.6	260
29	Dynamic imine chemistry. <i>Chemical Society Reviews</i> , 2012, 41, 2003.	18.7	989
30	[2]Pseudorotaxanes from T-Shaped Benzimidazolium Axles and [24]Crown-8 Wheels. <i>Organic Letters</i> , 2012, 14, 2484-2487.	2.4	52
31	Solution-Phase Mechanistic Study and Solid-State Structure of a Tris(bipyridinium radical cation) Inclusion Complex. <i>Journal of the American Chemical Society</i> , 2012, 134, 3061-3072.	6.6	123
32	The effects of conformation on the noncovalent bonding interactions in a bistable donor-acceptor [3]catenane. <i>Chemical Communications</i> , 2012, 48, 9245.	2.2	17
33	Synthesis and Evaluation of Molecular Rotors with Large and Bulky <i>tert</i> -Butyldiphenylsilyloxy-Substituted Trityl Stators. <i>Journal of Organic Chemistry</i> , 2012, 77, 6887-6894.	1.7	20
34	Rapid thermally assisted donor-acceptor catenation. <i>Chemical Communications</i> , 2012, 48, 9141.	2.2	8
35	A switching cascade of hydrazone-based rotary switches through coordination-coupled proton relays. <i>Nature Chemistry</i> , 2012, 4, 757-762.	6.6	171
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37	A rigid donor-acceptor daisy chain dimer. <i>Chemical Communications</i> , 2012, 48, 6791.	2.2	22

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38	A multi-component CuAAC "click" approach to an <i>exo</i> functionalised pyridyl-1,2,3-triazole macrocycle: synthesis, characterisation, Cu(I) and Ag(I) complexes. <i>Supramolecular Chemistry</i> , 2012, 24, 492-498.	1.5	14
42	Photoactivated Directionally Controlled Transit of a Non-Symmetric Molecular Axle Through a Macrocycle. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4223-4226.	7.2	109
43	Design Strategy for DNA Rotaxanes with a Mechanically Reinforced PX100 Axle. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6771-6775.	7.2	48
44	Tris(spiroborate)-Type Anionic Nanocycles. <i>Chemistry - an Asian Journal</i> , 2012, 7, 1529-1532.	1.7	17
45	Anion-Induced Shuttling of a Naphthalimide Triazolium Rotaxane. <i>Chemistry - A European Journal</i> , 2012, 18, 7100-7108.	1.7	48
46	A Flexible Copper(I)-Complexed [4]Rotaxane Containing Two Face-to-Face Porphyrinic Plates that Behaves as a Distensible Receptor. <i>Chemistry - A European Journal</i> , 2012, 18, 8366-8376.	1.7	24
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48	Mechanically Interlocked Molecules Assembled by "Recognition". <i>ChemPlusChem</i> , 2012, 77, 159-185.	1.3	100
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50	Anion-Directed Formation and Degradation of an Interlocked Metallohelicate. <i>Journal of the American Chemical Society</i> , 2012, 134, 10987-10997.	6.6	116
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52	Photoinduced Memory Effect in a Redox Controllable Bistable Mechanical Molecular Switch. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1611-1615.	7.2	119
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54	Photoresponsive receptors for binding and releasing anions. <i>Journal of Physical Organic Chemistry</i> , 2013, 26, 79-86.	0.9	78
55	Exploring the Programmable Assembly of a Polyoxometalate-Organic Hybrid via Metal Ion Coordination. <i>Journal of the American Chemical Society</i> , 2013, 135, 13425-13432.	6.6	78
56	A phenanthroline-terpyridine hybrid as a chameleon-type ligand in a reversible metallosupramolecular rearrangement. <i>Dalton Transactions</i> , 2013, 42, 12840.	1.6	19
57	Electrochemically Driven Cupand Ball Cu ^I and Cu ^{II} Complexes. <i>Chemistry - A European Journal</i> , 2013, 19, 10611-10618.	1.7	10
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61	Construction of Hetero[<i>n</i>]rotaxanes by Use of Polyfunctional Rotaxane Frameworks. <i>Journal of Organic Chemistry</i> , 2013, 78, 11560-11570.	1.7	39
62	A Computational Investigation of a Molecular Switch. <i>Journal of Chemical Education</i> , 2013, 90, 1528-1532.	1.1	9
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66	Intramolecular redox-induced dimerization in a viologen dendrimer. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2302.	2.7	40
67	Conformational Polymorphism and Isomorphism of Molecular Rotors with Fluoroaromatic Rotators and Mestranol Stators. <i>Crystal Growth and Design</i> , 2013, 13, 5107-5115.	1.4	23
68	A Water-Soluble pH-Triggered Molecular Switch. <i>Journal of the American Chemical Society</i> , 2013, 135, 17691-17694.	6.6	70
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71	Eight-Membered and Larger Rings. <i>Progress in Heterocyclic Chemistry</i> , 2013, , 497-517.	0.5	2
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76	Catalytic chemical transformations with conformationally dynamic catalytic systems. <i>Catalysis Science and Technology</i> , 2013, 3, 41-57.	2.1	40
77	The imaginary is real. <i>Nature Nanotechnology</i> , 2013, 8, 10-11.	15.6	6
78	From the bottom up: dimensional control and characterization in molecular monolayers. <i>Chemical Society Reviews</i> , 2013, 42, 2725-2745.	18.7	153

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80	Expanding the Scope of the Anion Templated Synthesis of Interlocked Structures. <i>Accounts of Chemical Research</i> , 2013, 46, 571-586.	7.6	176
81	Synthesis of a four-component [3]catenane using three distinct noncovalent interactions. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 27-30.	1.5	20
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89	A molecular production line. <i>Nature Chemistry</i> , 2013, 5, 260-262.	6.6	23
90	Interlocked host molecules for anion recognition and sensing. <i>Coordination Chemistry Reviews</i> , 2013, 257, 2434-2455.	9.5	138
91	New approaches to the synthesis of strapped porphyrin containing bipyridinium [2]rotaxanes. <i>New Journal of Chemistry</i> , 2013, 37, 893-900.	1.4	7
92	Autonomous Shuttling Driven by an Oscillating Reaction: Proof of Principle in a Cucurbit[7]uril-Bodipy Pseudorotaxane. <i>Organic Letters</i> , 2013, 15, 1012-1015.	2.4	37
93	A catalytically driven organometallic molecular motor. <i>Nanoscale</i> , 2013, 5, 1301-1304.	2.8	39
94	Enzyme nanoarchitectonics: organization and device application. <i>Chemical Society Reviews</i> , 2013, 42, 6322.	18.7	376
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99	Synthesis, Rotational Dynamics, and Photophysical Characterization of a Crystalline Linearly Conjugated Phenyleneethynylene Molecular Dirotor. <i>Journal of Organic Chemistry</i> , 2013, 78, 5293-5302.	1.7	33
100	A stimuli-responsive "smart probe" for selective monitoring of multiple-cations via differential analyses. <i>Analyst</i> , 2013, 138, 3356.	1.7	13
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102	Trigonal prismatic bicyclic aromatics, synthesis and structures. <i>Supramolecular Chemistry</i> , 2013, 25, 409-415.	1.5	5
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106	Relative Unidirectional Translation in an Artificial Molecular Assembly Fueled by Light. <i>Journal of the American Chemical Society</i> , 2013, 135, 18609-18620.	6.6	112
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108	In situ manipulation of catalyst performance via the photocontrolled aggregation/dissociation state of the catalyst. <i>Chemical Communications</i> , 2013, 49, 4628.	2.2	38
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112	Mechanically Interlaced and Interlocked Donor-Acceptor Foldamers. <i>Advances in Polymer Science</i> , 2013, , 271-294.	0.4	18
113	An Interwoven Metal-Organic Framework Combining Mechanically Interlocked Linkers and Interpenetrated Networks. <i>Chemistry - A European Journal</i> , 2013, 19, 14076-14080.	1.7	42
114	An Automatic Molecular Dispenser of Chloride. <i>Chemistry - A European Journal</i> , 2013, 19, 3729-3734.	1.7	8
115	The struggle for control. <i>Nature Nanotechnology</i> , 2013, 8, 888-890.	15.6	4
117	Solar-Powered Nanomechanical Transduction from Crystalline Molecular Rotors. <i>Advanced Materials</i> , 2013, 25, 3324-3328.	11.1	23

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120	Enhanced Diffusion, Chemotaxis, and Pumping by Active Enzymes: Progress toward an Organizing Principle of Molecular Machines. <i>ACS Nano</i> , 2014, 8, 11917-11924.	7.3	16
121	An Aesthetics of the Invisible: Nanotechnology and Informatic Matter. <i>Theory, Culture and Society</i> , 2014, 31, 99-121.	1.3	6
122	Light-Operated Machines Based on Threaded Molecular Structures. <i>Topics in Current Chemistry</i> , 2014, 354, 1-34.	4.0	31
123	Energetically Demanding Transport in a Supramolecular Assembly. <i>Journal of the American Chemical Society</i> , 2014, 136, 14702-14705.	6.6	72
124	[2]Pseudorotaxane formation between rigid Y-shaped 2,4,5-triphenylimidazolium axles and [24]crown-8 ether wheels. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 4824.	1.5	14
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127	Fluctuation-induced transport of two coupled particles: Effect of the interparticle interaction. <i>Journal of Chemical Physics</i> , 2014, 140, 214108.	1.2	7
128	Operations and Thermodynamics of an Artificial Rotary Molecular Motor in Solution. <i>ChemPhysChem</i> , 2014, 15, 1834-1840.	1.0	3
129	Waste Management of Chemically Activated Switches: Using a Photoacid To Eliminate Accumulation of Side Products. <i>Journal of the American Chemical Society</i> , 2014, 136, 17438-17441.	6.6	113
130	Development of an Electrically Driven Molecular Motor. <i>Chemical Record</i> , 2014, 14, 834-840.	2.9	8
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137	An acid/base switchable and reversibly cross-linkable polyrotaxane. <i>Polymer Chemistry</i> , 2014, 5, 3994-4001.	1.9	53
138	The topological and chemical implications of introducing oriented rings to [3]catenanes. <i>Supramolecular Chemistry</i> , 2014, 26, 192-201.	1.5	5

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139	Conversion of light into macroscopic helical motion. <i>Nature Chemistry</i> , 2014, 6, 229-235.	6.6	646
140	An Electrochemically and Thermally Switchable Donor–Acceptor [2]Daisy Chain Rotaxane. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1953-1958.	7.2	62
141	Bidirectional Chemical Communication between Nanomechanical Switches. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4709-4713.	7.2	58
142	Photochromic Molecular Gyroscope with Solid State Rotational States Determined by an Azobenzene Bridge. <i>Journal of Organic Chemistry</i> , 2014, 79, 1611-1619.	1.7	69
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155	Photochemopropulsion – Light-Stimulated Movement of Microdroplets. <i>Advanced Materials</i> , 2014, 26, 7339-7345.	11.1	64
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158	Metal-binding studies of linear rigid-axle [2]pseudorotaxanes with in situ generated anionic metal halide complexes. <i>CrystEngComm</i> , 2014, 16, 7320.	1.3	7

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160	Restraining the motion of a ligand for modulating the structural phase transition in two isomorphous polar coordination polymers. <i>Dalton Transactions</i> , 2014, 43, 9008-9011.	1.6	12
161	A novel family of structurally stable double stranded DNA catenanes. <i>Chemical Communications</i> , 2014, 50, 6091-6093.	2.2	35
162	Theoretical Study on Conformation Dynamics of Three-Station Molecular Shuttle in Different Environments and its Influence on NMR Chemical Shifts and Binding Interactions. <i>Journal of Physical Chemistry A</i> , 2014, 118, 9032-9044.	1.1	13
163	Mechanistic Evaluation of Motion in Redox-Driven Rotaxanes Reveals Longer Linkers Hasten Forward Escapes and Hinder Backward Translations. <i>Journal of the American Chemical Society</i> , 2014, 136, 6373-6384.	6.6	48
164	Facile assembly of light-driven molecular motors onto a solid surface. <i>Chemical Communications</i> , 2014, 50, 12641-12644.	2.2	18
165	Potential-controlled rotaxane molecular shuttles based on electron-deficient macrocyclic complexes. <i>Chemical Communications</i> , 2014, 50, 13718-13721.	2.2	10
166	Photo-tuning of highly selective wetting in inverse opals. <i>Soft Matter</i> , 2014, 10, 1325-1328.	1.2	20
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