

Ben Feringa

List of Publications by Year in descending order

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445
papers

43,919
citations

2093

100
h-index

2736

192
g-index

463
all docs

463
docs citations

463
times ranked

24008
citing authors

#	ARTICLE	IF	CITATIONS
1	Light-driven monodirectional molecular rotor. <i>Nature</i> , 1999, 401, 152-155.	13.7	1,668
2	Making molecular machines work. <i>Nature Nanotechnology</i> , 2006, 1, 25-35.	15.6	1,317
3	Chiroptical Molecular Switches. <i>Chemical Reviews</i> , 2000, 100, 1789-1816.	23.0	1,021
4	Reversible Photocontrol of Biological Systems by the Incorporation of Molecular Photoswitches. <i>Chemical Reviews</i> , 2013, 113, 6114-6178.	23.0	991
5	Photopharmacology: Beyond Proof of Principle. <i>Journal of the American Chemical Society</i> , 2014, 136, 2178-2191.	6.6	875
6	Nanomotor rotates microscale objects. <i>Nature</i> , 2006, 440, 163-163.	13.7	781
7	Absolute Asymmetric Synthesis: The Origin, Control, and Amplification of Chirality. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 3418-3438.	7.2	709
8	Artificial molecular motors. <i>Chemical Society Reviews</i> , 2017, 46, 2592-2621.	18.7	698
9	Catalytic Asymmetric Conjugate Addition and Allylic Alkylation with Grignard Reagents. <i>Chemical Reviews</i> , 2008, 108, 2824-2852.	23.0	692
10	Phosphoramidites: Marvellous Ligands in Catalytic Asymmetric Conjugate Addition. <i>Accounts of Chemical Research</i> , 2000, 33, 346-353.	7.6	682
11	Electrically driven directional motion of a four-wheeled molecule on a metal surface. <i>Nature</i> , 2011, 479, 208-211.	13.7	669
12	Reversible Optical Transcription of Supramolecular Chirality into Molecular Chirality. <i>Science</i> , 2004, 304, 278-281.	6.0	635
13	Phosphoramidites: Privileged Ligands in Asymmetric Catalysis. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2486-2528.	7.2	611
14	The Art of Building Small: From Molecular Switches to Motors (Nobel Lecture). <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11060-11078.	7.2	568
15	In Control of Motion: From Molecular Switches to Molecular Motors. <i>Accounts of Chemical Research</i> , 2001, 34, 504-513.	7.6	559
16	Design and Application of Self-Assembled Low Molecular Weight Hydrogels. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 3615-3631.	1.2	541
17	Dynamic Control of Chiral Space in a Catalytic Asymmetric Reaction Using a Molecular Motor. <i>Science</i> , 2011, 331, 1429-1432.	6.0	530
18	One-Way Optoelectronic Switching of Photochromic Molecules on Gold. <i>Physical Review Letters</i> , 2003, 91, 207402.	2.9	522

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19	Unidirectional molecular motor on a gold surface. <i>Nature</i> , 2005, 437, 1337-1340.	13.7	504
20	Emerging Targets in Photopharmacology. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10978-10999.	7.2	504
21	A Light-Actuated Nanovalve Derived from a Channel Protein. <i>Science</i> , 2005, 309, 755-758.	6.0	495
22	The Art of Building Small: From Molecular Switches to Molecular Motors. <i>Journal of Organic Chemistry</i> , 2007, 72, 6635-6652.	1.7	462
23	Dynamic Control and Amplification of Molecular Chirality by Circular Polarized Light. <i>Science</i> , 1996, 273, 1686-1688.	6.0	439
24	Highly Enantioselective Rhodium-Catalyzed Hydrogenation with Monodentate Ligands. <i>Journal of the American Chemical Society</i> , 2000, 122, 11539-11540.	6.6	433
25	Exploring a naturally tailored small molecule for stretchable, self-healing, and adhesive supramolecular polymers. <i>Science Advances</i> , 2018, 4, eaat8192.	4.7	422
26	A Reversible, Unidirectional Molecular Rotary Motor Driven by Chemical Energy. <i>Science</i> , 2005, 310, 80-82.	6.0	412
27	Cyclic Bis-Urea Compounds as Gelators for Organic Solvents. <i>Chemistry - A European Journal</i> , 1999, 5, 937-950.	1.7	346
28	Second Generation Light-Driven Molecular Motors. Unidirectional Rotation Controlled by a Single Stereogenic Center with Near-Perfect Photoequilibria and Acceleration of the Speed of Rotation by Structural Modification. <i>Journal of the American Chemical Society</i> , 2002, 124, 5037-5051.	6.6	332
29	Artificial muscle-like function from hierarchical supramolecular assembly of photoresponsive molecular motors. <i>Nature Chemistry</i> , 2018, 10, 132-138.	6.6	330
30	Catalytic Asymmetric Synthesis of Butenolides and Butyrolactones. <i>Chemical Reviews</i> , 2017, 117, 10502-10566.	23.0	311
31	Amplification of chirality in liquid crystals. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 3729.	1.5	299
32	Optical control of antibacterial activity. <i>Nature Chemistry</i> , 2013, 5, 924-928.	6.6	298
33	Wavelength-selective cleavage of photoprotecting groups: strategies and applications in dynamic systems. <i>Chemical Society Reviews</i> , 2015, 44, 3358-3377.	18.7	291
34	Responsive Cyclohexane-Based Low-Molecular-Weight Hydrogelators with Modular Architecture. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 1663-1667.	7.2	280
35	Light Switching of Molecules on Surfaces. <i>Annual Review of Physical Chemistry</i> , 2009, 60, 407-428.	4.8	267
36	Recent developments in reversible photoregulation of oligonucleotide structure and function. <i>Chemical Society Reviews</i> , 2017, 46, 1052-1079.	18.7	263

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37	Chiral Recognition in Bis-Urea-Based Aggregates and Organogels through Cooperative Interactions. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 613-616.	7.2	260
38	Remarkable Stabilization of Self-Assembled Organogels by Polymerization. <i>Journal of the American Chemical Society</i> , 1997, 119, 12675-12676.	6.6	250
39	Nonheme Iron Centers in Oxygen Activation: Characterization of an Iron(III) Hydroperoxide Intermediate. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 1512-1514.	4.4	247
40	Control of dynamic helicity at the macro- and supramolecular level. <i>Soft Matter</i> , 2008, 4, 1349.	1.2	238
41	Self-Assembly of Bisurea Compounds in Organic Solvents and on Solid Substrates. <i>Chemistry - A European Journal</i> , 1997, 3, 1238-1243.	1.7	235
42	Photocontrol of Antibacterial Activity: Shifting from UV to Red Light Activation. <i>Journal of the American Chemical Society</i> , 2017, 139, 17979-17986.	6.6	224
43	Light-Controlled Supramolecular Helicity of a Liquid Crystalline Phase Using a Helical Polymer Functionalized with a Single Chiroptical Molecular Switch. <i>Journal of the American Chemical Society</i> , 2008, 130, 4541-4552.	6.6	214
44	Fine Tuning of the Rotary Motion by Structural Modification in Light-Driven Unidirectional Molecular Motors. <i>Journal of the American Chemical Society</i> , 2006, 128, 5127-5135.	6.6	212
45	The (photo)chemistry of Stenhouse photoswitches: guiding principles and system design. <i>Chemical Society Reviews</i> , 2018, 47, 1910-1937.	18.7	208
46	Orthogonal Self-Assembly of Low Molecular Weight Hydrogelators and Surfactants. <i>Journal of the American Chemical Society</i> , 2003, 125, 14252-14253.	6.6	201
47	Rotational Reorganization of Doped Cholesteric Liquid Crystalline Films. <i>Journal of the American Chemical Society</i> , 2006, 128, 14397-14407.	6.6	200
48	Autonomous propulsion of carbon nanotubes powered by a multienzyme ensemble. <i>Chemical Communications</i> , 2008, , 1533-1535.	2.2	193
49	MHz Unidirectional Rotation of Molecular Rotary Motors. <i>Journal of the American Chemical Society</i> , 2008, 130, 10484-10485.	6.6	191
50	Light-Driven Molecular Rotor: Unidirectional Rotation Controlled by a Single Stereogenic Center. <i>Journal of the American Chemical Society</i> , 2000, 122, 12005-12006.	6.6	190
51	Assembling a Natural Small Molecule into a Supramolecular Network with High Structural Order and Dynamic Functions. <i>Journal of the American Chemical Society</i> , 2019, 141, 12804-12814.	6.6	190
52	Direct catalytic cross-coupling of organolithium compounds. <i>Nature Chemistry</i> , 2013, 5, 667-672.	6.6	188
53	Dynamic control of chirality and self-assembly of double-stranded helicates with light. <i>Nature Chemistry</i> , 2017, 9, 250-256.	6.6	187
54	Rheology and Thermotropic Properties of Bis-Urea-Based Organogels in Various Primary Alcohols. <i>Langmuir</i> , 2000, 16, 9249-9255.	1.6	186

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55	Unidirectional rotary motion in a liquid crystalline environment: Color tuning by a molecular motor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 4945-4949.	3.3	186
56	Molecular Transmission: Controlling the Twist Sense of a Helical Polymer with a Single Light-Driven Molecular Motor. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3693-3696.	7.2	182
57	Reversing the direction in a light-driven rotary molecular motor. <i>Nature Chemistry</i> , 2011, 3, 53-60.	6.6	181
58	Oxidative Electrochemical Switching in Dithienylcyclopentenes, Part 1: Effect of Electronic Perturbation on the Efficiency and Direction of Molecular Switching. <i>Chemistry - A European Journal</i> , 2005, 11, 6414-6429.	1.7	180
59	Chiroptical Switching between Liquid Crystalline Phases. <i>Journal of the American Chemical Society</i> , 1995, 117, 9929-9930.	6.6	179
60	Chiral separation by enantioselective liquid-liquid extraction. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 36-51.	1.5	175
61	Orthogonal photoswitching in a multifunctional molecular system. <i>Nature Communications</i> , 2016, 7, 12054.	5.8	174
62	Toughening a Self-Healable Supramolecular Polymer by Ionic Cluster-Enhanced Iron-Carboxylate Complexes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5278-5283.	7.2	173
63	Dynamic control of chirality in phosphine ligands for enantioselective catalysis. <i>Nature Communications</i> , 2015, 6, 6652.	5.8	172
64	Molecular photoswitches in aqueous environments. <i>Chemical Society Reviews</i> , 2021, 50, 12377-12449.	18.7	170
65	Chiroptical molecular switch. <i>Journal of the American Chemical Society</i> , 1991, 113, 5468-5470.	6.6	169
66	Ultrafast dynamics in the power stroke of a molecular rotary motor. <i>Nature Chemistry</i> , 2012, 4, 547-551.	6.6	168
67	Programming nanoparticle valence bonds with single-stranded DNA encoders. <i>Nature Materials</i> , 2020, 19, 781-788.	13.3	166
68	Molecular rotary motors: Unidirectional motion around double bonds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9423-9431.	3.3	165
69	Dynamic control of function by light-driven molecular motors. <i>Nature Reviews Chemistry</i> , 2017, 1, .	13.8	162
70	Unidirectional rotary motion in a metal-organic framework. <i>Nature Nanotechnology</i> , 2019, 14, 488-494.	15.6	162
71	Increased Speed of Rotation for the Smallest Light-Driven Molecular Motor. <i>Journal of the American Chemical Society</i> , 2003, 125, 15076-15086.	6.6	160
72	Oxidative Electrochemical Switching in Dithienylcyclopentenes, Part 2: Effect of Substitution and Asymmetry on the Efficiency and Direction of Molecular Switching and Redox Stability. <i>Chemistry - A European Journal</i> , 2005, 11, 6430-6441.	1.7	154

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73	Reversible Three-State Switching of Luminescence: A New Twist to Electro- and Photochromic Behavior. <i>Journal of the American Chemical Society</i> , 2006, 128, 12412-12413.	6.6	150
74	Phosphoramidite accelerated copper(i)-catalyzed [3 + 2] cycloadditions of azides and alkynes. <i>Chemical Communications</i> , 2009, , 2139.	2.2	149
75	Unraveling the Photoswitching Mechanism in Donor-Acceptor Stenhouse Adducts. <i>Journal of the American Chemical Society</i> , 2016, 138, 6344-6347.	6.6	143
76	A chemically powered unidirectional rotary molecular motor based on a palladium redox cycle. <i>Nature Chemistry</i> , 2016, 8, 860-866.	6.6	142
77	Photoresponsive molecular tools for emerging applications of light in medicine. <i>Chemical Science</i> , 2020, 11, 11672-11691.	3.7	142
78	Remote light-controlled intracellular target recognition by photochromic fluorescent glycoprobes. <i>Nature Communications</i> , 2017, 8, 987.	5.8	141
79	Disulfide-Mediated Reversible Polymerization toward Intrinsically Dynamic Smart Materials. <i>Journal of the American Chemical Society</i> , 2022, 144, 2022-2033.	6.6	140
80	A Chiroptical Molecular Switch with Distinct Chiral and Photochromic Entities and Its Application in Optical Switching of a Cholesteric Liquid Crystal. <i>Chemistry - A European Journal</i> , 2004, 10, 61-70.	1.7	139
81	Photoresponsive rolling and bending of thin crystals of chiral diarylethenes. <i>Chemical Communications</i> , 2008, , 326-328.	2.2	138
82	Unidirectional rotary motion in achiral molecular motors. <i>Nature Chemistry</i> , 2015, 7, 890-896.	6.6	134
83	Control of Surface Wettability Using Tripodal Light-Activated Molecular Motors. <i>Journal of the American Chemical Society</i> , 2014, 136, 3219-3224.	6.6	131
84	Die Kunst, klein zu bauen: von molekularen Schaltern bis zu Motoren (Nobel-Aufsatz). <i>Angewandte Chemie</i> , 2017, 129, 11206-11226.	1.6	124
85	Enantioselective Copper-Catalyzed Allylic Alkylation with Dialkylzincs Using Phosphoramidite Ligands. <i>Organic Letters</i> , 2001, 3, 1169-1171.	2.4	121
86	Photoswitchable catalysis based on the isomerisation of double bonds. <i>Chemical Communications</i> , 2019, 55, 6477-6486.	2.2	118
87	Light-Controlled Histone Deacetylase (HDAC) Inhibitors: Towards Photopharmacological Chemotherapy. <i>Chemistry - A European Journal</i> , 2015, 21, 16517-16524.	1.7	117
88	Photocontrolled Fluorescence "Double-Check" Bioimaging Enabled by a Glycoprobe-Protein Hybrid. <i>Journal of the American Chemical Society</i> , 2018, 140, 8671-8674.	6.6	116
89	Direct and Versatile Synthesis of Red-Shifted Azobenzenes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13514-13518.	7.2	115
90	Digital photoprogramming of liquid-crystal superstructures featuring intrinsic chiral photoswitches. <i>Nature Photonics</i> , 2022, 16, 226-234.	15.6	115

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91	Locked synchronous rotor motion in a molecular motor. <i>Science</i> , 2017, 356, 964-968.	6.0	114
92	Strain-Promoted Copper-Free α -Click Chemistry for ^{18}F Radiolabeling of Bombesin. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11117-11120.	7.2	113
93	A redesign of light-driven rotary molecular motors. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 507-512.	1.5	112
94	Dual closed-loop chemical recycling of synthetic polymers by intrinsically reconfigurable poly(disulfides). <i>Matter</i> , 2021, 4, 1352-1364.	5.0	112
95	Dynamic Chiral Selection and Amplification Using Photoresponsive Organogelators. <i>Journal of the American Chemical Society</i> , 2005, 127, 13804-13805.	6.6	111
96	Chiroptical molecular switches. <i>Advanced Materials</i> , 1996, 8, 681-684.	11.1	109
97	Light-induced disassembly of self-assembled vesicle-capped nanotubes observed in real time. <i>Nature Nanotechnology</i> , 2011, 6, 547-552.	15.6	109
98	Controlling the speed of rotation in molecular motors. Dramatic acceleration of the rotary motion by structural modification. <i>Chemical Communications</i> , 2005, , 5910.	2.2	108
99	Copper Catalyzed Asymmetric Synthesis of Chiral Allylic Esters. <i>Journal of the American Chemical Society</i> , 2006, 128, 15572-15573.	6.6	106
100	Enantiomeric recognition and interactions. <i>Tetrahedron</i> , 1976, 32, 2831-2834.	1.0	105
101	Controlling Molecular Rotary Motion with a Self-Complexing Lock. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1107-1110.	7.2	105
102	Neue Ziele für die Photopharmakologie. <i>Angewandte Chemie</i> , 2016, 128, 11140-11163.	1.6	105
103	Lipase-Catalyzed Second-Order Asymmetric Transformations as Resolution and Synthesis Strategies for Chiral 5-(Acyloxy)-2(5H)-furanone and Pyrrolinone Synthons. <i>Journal of the American Chemical Society</i> , 1996, 118, 3801-3803.	6.6	103
104	Toward a Switchable Molecular Rotor. Unexpected Dynamic Behavior of Functionalized Overcrowded Alkenes. <i>Journal of Organic Chemistry</i> , 1997, 62, 4943-4948.	1.7	103
105	Dynamic Responsive Systems for Catalytic Function. <i>Chemistry - A European Journal</i> , 2016, 22, 17080-17111.	1.7	103
106	A donor-acceptor substituted molecular motor: unidirectional rotation driven by visible light. <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 33-35.	1.5	101
107	Catalytic asymmetric carbon-carbon bond formation via allylic alkylations with organolithium compounds. <i>Nature Chemistry</i> , 2011, 3, 377-381.	6.6	101
108	Amphiphilic Molecular Motors for Responsive Aggregation in Water. <i>Journal of the American Chemical Society</i> , 2016, 138, 660-669.	6.6	101

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109	Di-urea compounds as gelators for organic solvents. <i>Tetrahedron Letters</i> , 1997, 38, 281-284.	0.7	100
110	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
111	Towards artificial molecular factories from framework-embedded molecular machines. <i>Nature Reviews Chemistry</i> , 2020, 4, 550-562.	13.8	97
112	Torsionally distorted olefins. Resolution of cis- and trans-4,4'-Bi-1,1',2,2',3,3'-hexahydrophenanthrylidene. <i>Journal of the American Chemical Society</i> , 1977, 99, 602-603.	6.6	96
113	Understanding the Dynamics Behind the Photoisomerization of a Light-Driven Fluorene Molecular Rotary Motor. <i>Journal of Physical Chemistry A</i> , 2010, 114, 5058-5067.	1.1	96
114	Chemically Optimizing Operational Efficiency of Molecular Rotary Motors. <i>Journal of the American Chemical Society</i> , 2014, 136, 9692-9700.	6.6	96
115	Photoswitchable Intramolecular H-Stacking of Perylenebisimide. <i>Journal of the American Chemical Society</i> , 2010, 132, 4191-4196.	6.6	95
116	An Optical and Theoretical Investigation of the Ultrafast Dynamics of a Bisthiénylene-Based Photochromic Switch. <i>Journal of Physical Chemistry A</i> , 2002, 106, 8498-8507.	1.1	91
117	Dual stereocontrol over the Henry reaction using a light- and heat-triggered organocatalyst. <i>Chemical Communications</i> , 2014, 50, 7773.	2.2	90
118	Acceleration of a Nanomotor: Electronic Control of the Rotary Speed of a Light-Driven Molecular Rotor. <i>Journal of the American Chemical Society</i> , 2005, 127, 17612-17613.	6.6	89
119	Photo- and electro-chromism of diarylethene modified ITO electrodes towards molecular based read-write-erase information storage. <i>Chemical Communications</i> , 2006, , 3930-3932.	2.2	89
120	Synthesis of enantiomerically pure .gamma.-(menthyloxy)butenolides and (R)- and (S)-2-methyl-1,4-butanediol. <i>Journal of Organic Chemistry</i> , 1989, 54, 2471-2475.	1.7	88
121	Controlled Rotary Motion in a Monolayer of Molecular Motors. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1278-1280.	7.2	88
122	Shedding Light on the Photoisomerization Pathway of Donor-Acceptor Stenhouse Adducts. <i>Journal of the American Chemical Society</i> , 2017, 139, 15596-15599.	6.6	88
123	Chemistry of Unique Chiral Olefins. 3. Synthesis and Absolute Stereochemistry of trans- and cis-1,1â€²,2,2â€²,3,3â€²,4,4â€²- Octahydro-3,3â€²-dimethyl-4,4â€²-biphenanthrylidenes. <i>Journal of the American Chemical Society</i> , 1997, 119, 7256-7264.		86
124	Ciprofloxacinâ€”Photoswitch Conjugates: A Facile Strategy for Photopharmacology. <i>Bioconjugate Chemistry</i> , 2015, 26, 2592-2597.	1.8	86
125	Visible-Light-Driven Rotation of Molecular Motors in a Dual-Function Metalâ€”Organic Framework Enabled by Energy Transfer. <i>Journal of the American Chemical Society</i> , 2020, 142, 9048-9056.	6.6	86
126	An astrophysically-relevant mechanism for amino acid enantiomer enrichment. <i>Chemical Communications</i> , 2007, , 2578.	2.2	85

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127	Designing light-driven rotary molecular motors. <i>Chemical Science</i> , 2021, 12, 14964-14986.	3.7	85
128	Molecular chirality at fluid/solid interfaces: expression of asymmetry in self-organised monolayers. <i>Journal of Materials Chemistry</i> , 2008, 18, 2065.	6.7	83
129	Self-Assembly of Photoresponsive Molecular Amphiphiles in Aqueous Media. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11604-11627.	7.2	81
130	Photoinduced Reorganization of Motor-Doped Chiral Liquid Crystals: Bridging Molecular Isomerization and Texture Rotation. <i>Journal of the American Chemical Society</i> , 2008, 130, 14615-14624.	6.6	80
131	Transition metal functionalized photo- and redox-switchable diarylethene based molecular switches. <i>Coordination Chemistry Reviews</i> , 2015, 282-283, 77-86.	9.5	80
132	Allosteric Regulation of the Rotational Speed in a Light-Driven Molecular Motor. <i>Journal of the American Chemical Society</i> , 2016, 138, 13597-13603.	6.6	80
133	General Principles for the Design of Visible-Light-Responsive Photoswitches: Tetra-ortho-Chloro-Azobenzenes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21663-21670.	7.2	80
134	Catalytic Enantioselective Synthesis of Naturally Occurring Butenolides via Hetero-Allylic Alkylation and Ring Closing Metathesis. <i>Organic Letters</i> , 2011, 13, 948-951.	2.4	79
135	Autoamplification of Molecular Chirality through the Induction of Supramolecular Chirality. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5073-5077.	7.2	79
136	Molecular Organization of Bis-urea Substituted Thiophene Derivatives at the Liquid/Solid Interface Studied by Scanning Tunneling Microscopy. <i>Langmuir</i> , 2000, 16, 10385-10391.	1.6	78
137	Multi-State Regulation of the Dihydrogen Phosphate Binding Affinity to a Light- and Heat-Responsive Bis-Urea Receptor. <i>Journal of the American Chemical Society</i> , 2014, 136, 16784-16787.	6.6	78
138	Reversible gel-sol photoswitching with an overcrowded alkene-based bis-urea supergelator. <i>Chemical Science</i> , 2016, 7, 4341-4346.	3.7	78
139	Engineering methylaspartate ammonia lyase for the asymmetric synthesis of unnatural amino acids. <i>Nature Chemistry</i> , 2012, 4, 478-484.	6.6	77
140	UV/Vis and NIR Light-Responsive Spiropyran Self-Assembled Monolayers. <i>Langmuir</i> , 2013, 29, 4290-4297.	1.6	76
141	Light-Driven Molecular Motors: A Stepwise Thermal Helix Inversion during Unidirectional Rotation of Sterically Overcrowded Biphenanthrylidenes. <i>Journal of the American Chemical Society</i> , 2005, 127, 14208-14222.	6.6	75
142	Chiral Separation of Underivatized Amino Acids by Reactive Extraction with Palladium-BINAP Complexes. <i>Journal of Organic Chemistry</i> , 2009, 74, 6526-6533.	1.7	75
143	Ultrafast Dynamics in Light-Driven Molecular Rotary Motors Probed by Femtosecond Stimulated Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 7408-7414.	6.6	75
144	Mixed Monolayers of Spiroyrans Maximize Tunneling Conductance Switching by Photoisomerization at the Molecule-Electrode Interface in EGaIn Junctions. <i>Journal of the American Chemical Society</i> , 2016, 138, 12519-12526.	6.6	74

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145	Light-driven altitudinal molecular motors on surfaces. <i>Chemical Communications</i> , 2009, , 1712.	2.2	73
146	A Chiroptical Photoswitchable DNA Complex. <i>Journal of Physical Chemistry B</i> , 2011, 115, 11581-11587.	1.2	73
147	Orthogonal Control of Antibacterial Activity with Light. <i>ACS Chemical Biology</i> , 2014, 9, 1969-1974.	1.6	73
148	Enantioselective Synthesis of Tertiary and Quaternary Stereogenic Centers: Copper/Phosphoramidite-Catalyzed Allylic Alkylation with Organolithium Reagents. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1922-1925.	7.2	72
149	Visible-Light-Driven Rotation of Molecular Motors in Discrete Supramolecular Metallacycles. <i>Journal of the American Chemical Society</i> , 2021, 143, 442-452.	6.6	72
150	Dynamic Inversion of Stereoselective Phosphate Binding to a Bisurea Receptor Controlled by Light and Heat. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1001-1004.	7.2	71
151	Photoswitching of DNA Hybridization Using a Molecular Motor. <i>Journal of the American Chemical Society</i> , 2018, 140, 5069-5076.	6.6	70
152	Solvent Effects on the Actinic Step of Donor-Acceptor Stenhouse Adduct Photoswitching. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8063-8068.	7.2	70
153	Ultrafast Light-Driven Nanomotors Based on an Acridane Stator. <i>Journal of Organic Chemistry</i> , 2010, 75, 666-679.	1.7	68
154	Cyclohexane-Based Low Molecular Weight Hydrogelators: A Chirality Investigation. <i>Chemistry - A European Journal</i> , 2005, 11, 5353-5361.	1.7	67
155	Rationally Designed Chemical Modulators Convert a Bacterial Channel Protein into a pH-Sensory Valve. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 3126-3130.	7.2	66
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