Ben Feringa

List of Publications by Year
in descending order

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		2101	2747
445	43,919	100	192
papers	citations	h-index	g-index

463	463	463	24008
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Light-driven monodirectional molecular rotor. Nature, 1999, 401, 152-155.	27.8	1,668
2	Making molecular machines work. Nature Nanotechnology, 2006, 1, 25-35.	31.5	1,317
3	Chiroptical Molecular Switches. Chemical Reviews, 2000, 100, 1789-1816.	47.7	1,021
4	Reversible Photocontrol of Biological Systems by the Incorporation of Molecular Photoswitches. Chemical Reviews, 2013, 113, 6114-6178.	47.7	991
5	Photopharmacology: Beyond Proof of Principle. Journal of the American Chemical Society, 2014, 136, 2178-2191.	13.7	875
6	Nanomotor rotates microscale objects. Nature, 2006, 440, 163-163.	27.8	781
7	Absolute Asymmetric Synthesis: The Origin, Control, and Amplification of Chirality. Angewandte Chemie - International Edition, 1999, 38, 3418-3438.	13.8	709
8	Artificial molecular motors. Chemical Society Reviews, 2017, 46, 2592-2621.	38.1	698
9	Catalytic Asymmetric Conjugate Addition and Allylic Alkylation with Grignard Reagents. Chemical Reviews, 2008, 108, 2824-2852.	47.7	692
10	Phosphoramidites:â€‰ Marvellous Ligands in Catalytic Asymmetric Conjugate Addition. Accounts of Chemical Research, 2000, 33, 346-353.	15.6	682
11	Electrically driven directional motion of a four-wheeled molecule on a metal surface. Nature, 2011, 479, 208-211.	27.8	669
12	Reversible Optical Transcription of Supramolecular Chirality into Molecular Chirality. Science, 2004, 304, 278-281.	12.6	635
13	Phosphoramidites: Privileged Ligands in Asymmetric Catalysis. Angewandte Chemie - International Edition, 2010, 49, 2486-2528.	13.8	611
14	The Art of Building Small: From Molecular Switches to Motors (Nobel Lecture). Angewandte Chemie - International Edition, 2017, 56, 11060-11078.	13.8	568
15	In Control of Motion:â€‰ From Molecular Switches to Molecular Motors. Accounts of Chemical Research, 2001, 34, 504-513.	15.6	559
16	Design and Application of Selfâ€Assembled Low Molecular Weight Hydrogels. European Journal of Organic Chemistry, 2005, 2005, 3615-3631.	2.4	541
17	Dynamic Control of Chiral Space in a Catalytic Asymmetric Reaction Using a Molecular Motor. Science, 2011, 331, 1429-1432.	12.6	530
18	One-Way Optoelectronic Switching of Photochromic Molecules on Gold. Physical Review Letters, 2003, 91, 207402.	7.8	522

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19	Unidirectional molecular motor on a gold surface. Nature, 2005, 437, 1337-1340.	27.8	504
20	Emerging Targets in Photopharmacology. Angewandte Chemie - International Edition, 2016, 55, 10978-10999.	13.8	504
21	A Light-Actuated Nanovalve Derived from a Channel Protein. Science, 2005, 309, 755-758.	12.6	495
22	The Art of Building Small:â€‰ From Molecular Switches to Molecular Motors. Journal of Organic Chemistry, 2007, 72, 6635-6652.	3.2	462
23	Dynamic Control and Amplification of Molecular Chirality by Circular Polarized Light. Science, 1996, 273, 1686-1688.	12.6	439
24	Highly Enantioselective Rhodium-Catalyzed Hydrogenation with Monodentate Ligands. Journal of the American Chemical Society, 2000, 122, 11539-11540.	13.7	433
25	Exploring a naturally tailored small molecule for stretchable, self-healing, and adhesive supramolecular polymers. Science Advances, 2018, 4, eaat8192.	10.3	422
26	A Reversible, Unidirectional Molecular Rotary Motor Driven by Chemical Energy. Science, 2005, 310, 80-82.	12.6	412
27	Cyclic Bis-Urea Compounds as Gelators for Organic Solvents. Chemistry - A European Journal, 1999, 5, 937-950.	3.3	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. Journal of the American Chemical Society, 2002, 124, 5037-5051.	13.7	332
29	Artificial muscle-like function from hierarchical supramolecular assembly of photoresponsive molecular motors. Nature Chemistry, 2018, 10, 132-138.	13.6	330
30	Catalytic Asymmetric Synthesis of Butenolides and Butyrolactones. Chemical Reviews, 2017, 117, 10502-10566.	47.7	311
31	Amplification of chirality in liquid crystals. Organic and Biomolecular Chemistry, 2006, 4, 3729.	2.8	299
32	Optical control of antibacterial activity. Nature Chemistry, 2013, 5, 924-928.	13.6	298
33	Wavelength-selective cleavage of photoprotecting groups: strategies and applications in dynamic systems. Chemical Society Reviews, 2015, 44, 3358-3377.	38.1	291
34	Responsive Cyclohexane-Based Low-Molecular-Weight Hydrogelators with Modular Architecture. Angewandte Chemie - International Edition, 2004, 43, 1663-1667.	13.8	280
35	Light Switching of Molecules on Surfaces. Annual Review of Physical Chemistry, 2009, 60, 407-428.	10.8	267
36	Recent developments in reversible photoregulation of oligonucleotide structure and function. Chemical Society Reviews, 2017, 46, 1052-1079.	38.1	263

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37	Chiral Recognition in Bis-Urea-Based Aggregates and Organogels through Cooperative Interactions. Angewandte Chemie - International Edition, 2001, 40, 613-616.	13.8	260
38	Remarkable Stabilization of Self-Assembled Organogels by Polymerization. Journal of the American Chemical Society, 1997, 119, 12675-12676.	13.7	250
39	Nonheme Iron Centers in Oxygen Activation: Characterization of an Iron(III) Hydroperoxide Intermediate. Angewandte Chemie International Edition in English, 1995, 34, 1512-1514.	4.4	247
40	Control of dynamic helicity at the macro- and supramolecular level. Soft Matter, 2008, 4, 1349.	2.7	238
41	Selfâ€Assembly of Bisurea Compounds in Organic Solvents and on Solid Substrates. Chemistry - A European Journal, 1997, 3, 1238-1243.	3.3	235
42	Photocontrol of Antibacterial Activity: Shifting from UV to Red Light Activation. Journal of the American Chemical Society, 2017, 139, 17979-17986.	13.7	224
43	Light-Controlled Supramolecular Helicity of a Liquid Crystalline Phase Using a Helical Polymer Functionalized with a Single Chiroptical Molecular Switch. Journal of the American Chemical Society, 2008, 130, 4541-4552.	13.7	214
44	Fine Tuning of the Rotary Motion by Structural Modification in Light-Driven Unidirectional Molecular Motors. Journal of the American Chemical Society, 2006, 128, 5127-5135.	13.7	212
45	The (photo)chemistry of Stenhouse photoswitches: guiding principles and system design. Chemical Society Reviews, 2018, 47, 1910-1937.	38.1	208
46	Orthogonal Self-Assembly of Low Molecular Weight Hydrogelators and Surfactants. Journal of the American Chemical Society, 2003, 125, 14252-14253.	13.7	201
47	Rotational Reorganization of Doped Cholesteric Liquid Crystalline Films. Journal of the American Chemical Society, 2006, 128, 14397-14407.	13.7	200
48	Autonomous propulsion of carbon nanotubes powered by a multienzyme ensemble. Chemical Communications, 2008, , 1533-1535.	4.1	193
49	MHz Unidirectional Rotation of Molecular Rotary Motors. Journal of the American Chemical Society, 2008, 130, 10484-10485.	13.7	191
50	Light-Driven Molecular Rotor:â€‰Unidirectional Rotation Controlled by a Single Stereogenic Center. Journal of the American Chemical Society, 2000, 122, 12005-12006.	13.7	190
51	Assembling a Natural Small Molecule into a Supramolecular Network with High Structural Order and Dynamic Functions. Journal of the American Chemical Society, 2019, 141, 12804-12814.	13.7	190
52	Direct catalytic cross-coupling of organolithium compounds. Nature Chemistry, 2013, 5, 667-672.	13.6	188
53	Dynamic control of chirality and self-assembly of double-stranded helicates with light. Nature Chemistry, 2017, 9, 250-256.	13.6	187
54	Rheology and Thermotropic Properties of Bis-Urea-Based Organogels in Various Primary Alcohols. Langmuir, 2000, 16, 9249-9255.	3.5	186

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55	Unidirectional rotary motion in a liquid crystalline environment: Color tuning by a molecular motor. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 4945-4949.	7.1	186
56	Molecular Transmission: Controlling the Twist Sense of a Helical Polymer with a Single Light-Driven Molecular Motor. Angewandte Chemie - International Edition, 2007, 46, 3693-3696.	13.8	182
57	Reversing the direction in a light-driven rotary molecular motor. Nature Chemistry, 2011, 3, 53-60.	13.6	181
58	Oxidative Electrochemical Switching in Dithienylcyclopentenes, Part 1: Effect of Electronic Perturbation on the Efficiency and Direction of Molecular Switching. Chemistry - A European Journal, 2005, 11, 6414-6429.	3.3	180
59	Chiroptical Switching between Liquid Crystalline Phases. Journal of the American Chemical Society, 1995, 117, 9929-9930.	13.7	179
60	Chiral separation by enantioselective liquidâ€“liquid extraction. Organic and Biomolecular Chemistry, 2011, 9, 36-51.	2.8	175
61	Orthogonal photoswitching in a multifunctional molecular system. Nature Communications, 2016, 7, 12054.	12.8	174
62	Toughening a Selfâ€Healable Supramolecular Polymer by Ionic Clusterâ€Enhanced Ironâ€Carboxylate Complexes. Angewandte Chemie - International Edition, 2020, 59, 5278-5283.	13.8	173
63	Dynamic control of chirality in phosphine ligands for enantioselective catalysis. Nature Communications, 2015, 6, 6652.	12.8	172
64	Molecular photoswitches in aqueous environments. Chemical Society Reviews, 2021, 50, 12377-12449.	38.1	170
65	Chiroptical molecular switch. Journal of the American Chemical Society, 1991, 113, 5468-5470.	13.7	169
66	Ultrafast dynamics in the power stroke of a molecular rotary motor. Nature Chemistry, 2012, 4, 547-551.	13.6	168
67	Programming nanoparticle valence bonds with single-stranded DNA encoders. Nature Materials, 2020, 19, 781-788.	27.5	166
68	Molecular rotary motors: Unidirectional motion around double bonds. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9423-9431.	7.1	165
69	Dynamic control of function by light-driven molecular motors. Nature Reviews Chemistry, 2017, 1, .	30.2	162
70	Unidirectional rotary motion in a metalâ€“organic framework. Nature Nanotechnology, 2019, 14, 488-494.	31.5	162
71	Increased Speed of Rotation for the Smallest Light-Driven Molecular Motor. Journal of the American Chemical Society, 2003, 125, 15076-15086.	13.7	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. Chemistry - A European Journal, 2005, 11, 6430-6441.	3.3	154

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73	Reversible Three-State Switching of Luminescence:Â A New Twist to Electro- and Photochromic Behavior. Journal of the American Chemical Society, 2006, 128, 12412-12413.	13.7	150
74	Phosphoramidite accelerated copper(i)-catalyzed [3 + 2] cycloadditions of azides and alkynes. Chemical Communications, 2009, , 2139.	4.1	149
75	Unraveling the Photoswitching Mechanism in Donorâ€“Acceptor Stenhouse Adducts. Journal of the American Chemical Society, 2016, 138, 6344-6347.	13.7	143
76	A chemically powered unidirectional rotary molecular motor based on a palladium redox cycle. Nature Chemistry, 2016, 8, 860-866.	13.6	142
77	Photoresponsive molecular tools for emerging applications of light in medicine. Chemical Science, 2020, 11, 11672-11691.	7.4	142
78	Remote light-controlled intracellular target recognition by photochromic fluorescent glycoprobes. Nature Communications, 2017, 8, 987.	12.8	141
79	Disulfide-Mediated Reversible Polymerization toward Intrinsically Dynamic Smart Materials. Journal of the American Chemical Society, 2022, 144, 2022-2033.	13.7	140
80	A Chiroptical Molecular Switch with Distinct Chiral and Photochromic Entities and Its Application in Optical Switching of a Cholesteric Liquid Crystal. Chemistry - A European Journal, 2004, 10, 61-70.	3.3	139
81	Photoresponsive rolling and bending of thin crystals of chiral diarylethenes. Chemical Communications, 2008, , 326-328.	4.1	138
82	Unidirectional rotary motion in achiral molecular motors. Nature Chemistry, 2015, 7, 890-896.	13.6	134
83	Control of Surface Wettability Using Tripodal Light-Activated Molecular Motors. Journal of the American Chemical Society, 2014, 136, 3219-3224.	13.7	131
84	Die Kunst, klein zu bauen: von molekularen Schaltern bis zu Motoren (Nobelâ€Aufsatz). Angewandte Chemie, 2017, 129, 11206-11226.	2.0	124
85	Enantioselective Copper-Catalyzed Allylic Alkylation with Dialkylzincs Using Phosphoramidite Ligands. Organic Letters, 2001, 3, 1169-1171.	4.6	121
86	Photoswitchable catalysis based on the isomerisation of double bonds. Chemical Communications, 2019, 55, 6477-6486.	4.1	118
87	Lightâ€Controlled Histone Deacetylase (HDAC) Inhibitors: Towards Photopharmacological Chemotherapy. Chemistry - A European Journal, 2015, 21, 16517-16524.	3.3	117
88	Photocontrolled Fluorescence â€œDouble-Checkâ€•Bioimaging Enabled by a Glycoprobeâ€“Protein Hybrid. Journal of the American Chemical Society, 2018, 140, 8671-8674.	13.7	116
89	Direct and Versatile Synthesis of Redâ€Shifted Azobenzenes. Angewandte Chemie - International Edition, 2016, 55, 13514-13518.	13.8	115
90	Digital photoprogramming of liquid-crystal superstructures featuring intrinsic chiral photoswitches. Nature Photonics, 2022, 16, 226-234.	31.4	115

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91	Locked synchronous rotor motion in a molecular motor. Science, 2017, 356, 964-968.	12.6	114
92	Strainâ€Promoted Copperâ€Free â€œClickâ€•Chemistry for ¹⁸F Radiolabeling of Bombesin. Angewandte Chemie - International Edition, 2011, 50, 11117-11120.	13.8	113
93	A redesign of light-driven rotary molecular motors. Organic and Biomolecular Chemistry, 2008, 6, 507-512.	2.8	112
94	Dual closed-loop chemical recycling of synthetic polymers by intrinsically reconfigurable poly(disulfides). Matter, 2021, 4, 1352-1364.	10.0	112
95	Dynamic Chiral Selection and Amplification Using Photoresponsive Organogelators. Journal of the American Chemical Society, 2005, 127, 13804-13805.	13.7	111
96	Chiroptical molecular switches. Advanced Materials, 1996, 8, 681-684.	21.0	109
97	Lightâ€“induced disassembly of self-assembled vesicle-capped nanotubes observed in real time. Nature Nanotechnology, 2011, 6, 547-552.	31.5	109
98	Controlling the speed of rotation in molecular motors. Dramatic acceleration of the rotary motion by structural modification. Chemical Communications, 2005, , 5910.	4.1	108
99	Copper Catalyzed Asymmetric Synthesis of Chiral Allylic Esters. Journal of the American Chemical Society, 2006, 128, 15572-15573.	13.7	106
100	Enantiomeric recognition and interactions. Tetrahedron, 1976, 32, 2831-2834.	1.9	105
101	Controlling Molecular Rotary Motion with a Selfâ€Complexing Lock. Angewandte Chemie - International Edition, 2010, 49, 1107-1110.	13.8	105
102	Neue Ziele fÃ¼r die Photopharmakologie. Angewandte Chemie, 2016, 128, 11140-11163.	2.0	105
103	Lipase-Catalyzed Second-Order Asymmetric Transformations as Resolution and Synthesis Strategies for Chiral 5-(Acyloxy)-2(5H)-furanone and Pyrrolinone Synthons. Journal of the American Chemical Society, 1996, 118, 3801-3803.	13.7	103
104	Toward a Switchable Molecular Rotor. Unexpected Dynamic Behavior of Functionalized Overcrowded Alkenes. Journal of Organic Chemistry, 1997, 62, 4943-4948.	3.2	103
105	Dynamic Responsive Systems for Catalytic Function. Chemistry - A European Journal, 2016, 22, 17080-17111.	3.3	103
106	A donorâ€“acceptor substituted molecular motor: unidirectional rotation driven by visible light. Organic and Biomolecular Chemistry, 2003, 1, 33-35.	2.8	101
107	Catalytic asymmetric carbonâ€“carbon bond formation via allylic alkylations with organolithium compounds. Nature Chemistry, 2011, 3, 377-381.	13.6	101
108	Amphiphilic Molecular Motors for Responsive Aggregation in Water. Journal of the American Chemical Society, 2016, 138, 660-669.	13.7	101

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109	Di-urea compounds as gelators for organic solvents. Tetrahedron Letters, 1997, 38, 281-284.	1.4	100
110	Driving Unidirectional Molecular Rotary Motors with Visible Light by Intra- And Intermolecular Energy Transfer from Palladium Porphyrin. Journal of the American Chemical Society, 2012, 134, 17613-17619.	13.7	99
111	Towards artificial molecular factories from framework-embedded molecular machines. Nature Reviews Chemistry, 2020, 4, 550-562.	30.2	97
112	Torsionally distorted olefins. Resolution of cis- and trans-4,4'-Bi-1,1',2,2',3,3'-hexahydrophenanthrylidene. Journal of the American Chemical Society, 1977, 99, 602-603.	13.7	96
113	Understanding the Dynamics Behind the Photoisomerization of a Light-Driven Fluorene Molecular Rotary Motor. Journal of Physical Chemistry A, 2010, 114, 5058-5067.	2.5	96
114	Chemically Optimizing Operational Efficiency of Molecular Rotary Motors. Journal of the American Chemical Society, 2014, 136, 9692-9700.	13.7	96
115	Photoswitchable Intramolecular H-Stacking of Perylenebisimide. Journal of the American Chemical Society, 2010, 132, 4191-4196.	13.7	95
116	An Optical and Theoretical Investigation of the Ultrafast Dynamics of a Bisthienylethene-Based Photochromic Switch. Journal of Physical Chemistry A, 2002, 106, 8498-8507.	2.5	91
117	Dual stereocontrol over the Henry reaction using a light- and heat-triggered organocatalyst. Chemical Communications, 2014, 50, 7773.	4.1	90
118	Acceleration of a Nanomotor:â€‰ Electronic Control of the Rotary Speed of a Light-Driven Molecular Rotor. Journal of the American Chemical Society, 2005, 127, 17612-17613.	13.7	89
119	Photo- and electro-chromism of diarylethene modified ITO electrodesâ€”towards molecular based readâ€“writeâ€“erase information storage. Chemical Communications, 2006, , 3930-3932.	4.1	89
120	Synthesis of enantiomerically pure .gamma.-(menthyloxy)butenolides and (R)- and (S)-2-methyl-1,4-butanediol. Journal of Organic Chemistry, 1989, 54, 2471-2475.	3.2	88
121	Controlled Rotary Motion in a Monolayer of Molecular Motors. Angewandte Chemie - International Edition, 2007, 46, 1278-1280.	13.8	88
122	Shedding Light on the Photoisomerization Pathway of Donorâ€“Acceptor Stenhouse Adducts. Journal of the American Chemical Society, 2017, 139, 15596-15599.	13.7	88
123	Chemistry of Unique Chiral Olefins. 3. Synthesis and Absolute Stereochemistry of trans- and cis-1,1â€˜,2,2â€˜,3,3â€˜,4,4â€˜- Octahydro-3,3â€˜-dimethyl-4,4â€˜-biphenanthrylidenes. Journal of the American Chemical Society, 1997, 119, 7256-7264.	13.7	86
124	Ciprofloxacinâ€“Photoswitch Conjugates: A Facile Strategy for Photopharmacology. Bioconjugate Chemistry, 2015, 26, 2592-2597.	3.6	86
125	Visible-Light-Driven Rotation of Molecular Motors in a Dual-Function Metalâ€“Organic Framework Enabled by Energy Transfer. Journal of the American Chemical Society, 2020, 142, 9048-9056.	13.7	86
126	An astrophysically-relevant mechanism for amino acid enantiomer enrichment. Chemical Communications, 2007, , 2578.	4.1	85

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127	Designing light-driven rotary molecular motors. Chemical Science, 2021, 12, 14964-14986.	7.4	85
128	Molecular chirality at fluid/solid interfaces: expression of asymmetry in self-organised monolayers. Journal of Materials Chemistry, 2008, 18, 2065.	6.7	83
129	Selfâ€Assembly of Photoresponsive Molecular Amphiphiles in Aqueous Media. Angewandte Chemie - International Edition, 2021, 60, 11604-11627.	13.8	81
130	Photoinduced Reorganization of Motor-Doped Chiral Liquid Crystals: Bridging Molecular Isomerization and Texture Rotation. Journal of the American Chemical Society, 2008, 130, 14615-14624.	13.7	80
131	Transition metal functionalized photo- and redox-switchable diarylethene based molecular switches. Coordination Chemistry Reviews, 2015, 282-283, 77-86.	18.8	80
132	Allosteric Regulation of the Rotational Speed in a Light-Driven Molecular Motor. Journal of the American Chemical Society, 2016, 138, 13597-13603.	13.7	80
133	General Principles for the Design of Visibleâ€Lightâ€Responsive Photoswitches: Tetraâ€orthoâ€Chloroâ€Azobenzenes. Angewandte Chemie - International Edition, 2020, 59, 21663-21670.	13.8	80
134	Catalytic Enantioselective Synthesis of Naturally Occurring Butenolides via Hetero-Allylic Alkylation and Ring Closing Metathesis. Organic Letters, 2011, 13, 948-951.	4.6	79
135	Autoamplification of Molecular Chirality through the Induction of Supramolecular Chirality. Angewandte Chemie - International Edition, 2014, 53, 5073-5077.	13.8	79
136	Molecular Organization of Bis-urea Substituted Thiophene Derivatives at the Liquid/Solid Interface Studied by Scanning Tunneling Microscopy. Langmuir, 2000, 16, 10385-10391.	3.5	78
137	Multi-State Regulation of the Dihydrogen Phosphate Binding Affinity to a Light- and Heat-Responsive Bis-Urea Receptor. Journal of the American Chemical Society, 2014, 136, 16784-16787.	13.7	78
138	Reversible gelâ€“sol photoswitching with an overcrowded alkene-based bis-urea supergelator. Chemical Science, 2016, 7, 4341-4346.	7.4	78
139	Engineering methylaspartate ammonia lyase for the asymmetric synthesis of unnatural amino acids. Nature Chemistry, 2012, 4, 478-484.	13.6	77
140	UV/Vis and NIR Light-Responsive Spiropyran Self-Assembled Monolayers. Langmuir, 2013, 29, 4290-4297.	3.5	76
141	Light-Driven Molecular Motors:Â Stepwise Thermal Helix Inversion during Unidirectional Rotation of Sterically Overcrowded Biphenanthrylidenes. Journal of the American Chemical Society, 2005, 127, 14208-14222.	13.7	75
142	Chiral Separation of Underivatized Amino Acids by Reactive Extraction with Palladiumâ^'BINAP Complexes. Journal of Organic Chemistry, 2009, 74, 6526-6533.	3.2	75
143	Ultrafast Dynamics in Light-Driven Molecular Rotary Motors Probed by Femtosecond Stimulated Raman Spectroscopy. Journal of the American Chemical Society, 2017, 139, 7408-7414.	13.7	75
144	Mixed Monolayers of Spiropyrans Maximize Tunneling Conductance Switching by Photoisomerization at the Moleculeâ€“Electrode Interface in EGaIn Junctions. Journal of the American Chemical Society, 2016, 138, 12519-12526.	13.7	74

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145	Light-driven altitudinal molecular motors on surfaces. Chemical Communications, 2009, , 1712.	4.1	73
146	A Chiroptical Photoswitchable DNA Complex. Journal of Physical Chemistry B, 2011, 115, 11581-11587.	2.6	73
147	Orthogonal Control of Antibacterial Activity with Light. ACS Chemical Biology, 2014, 9, 1969-1974.	3.4	73
148	Enantioselective Synthesis of Tertiary and Quaternary Stereogenic Centers: Copper/Phosphoramiditeâ€Catalyzed Allylic Alkylation with Organolithium Reagents. Angewandte Chemie - International Edition, 2012, 51, 1922-1925.	13.8	72
149	Visible-Light-Driven Rotation of Molecular Motors in Discrete Supramolecular Metallacycles. Journal of the American Chemical Society, 2021, 143, 442-452.	13.7	72
150	Dynamic Inversion of Stereoselective Phosphate Binding to a Bisurea Receptor Controlled by Light and Heat. Angewandte Chemie - International Edition, 2016, 55, 1001-1004.	13.8	71
151	Photoswitching of DNA Hybridization Using a Molecular Motor. Journal of the American Chemical Society, 2018, 140, 5069-5076.	13.7	70
152	Solvent Effects on the Actinic Step of Donorâ€“Acceptor Stenhouse Adduct Photoswitching. Angewandte Chemie - International Edition, 2018, 57, 8063-8068.	13.8	70
153	Ultrafast Light-Driven Nanomotors Based on an Acridane Stator. Journal of Organic Chemistry, 2010, 75, 666-679.	3.2	68
154	Cyclohexane-Based Low Molecular Weight Hydrogelators: A Chirality Investigation. Chemistry - A European Journal, 2005, 11, 5353-5361.	3.3	67
155	Rationally Designed Chemical Modulators Convert a Bacterial Channel Protein into a pH-Sensory Valve. Angewandte Chemie - International Edition, 2006, 45, 3126-3130.	13.8	66
156	Catalytic Direct Cross-Coupling of Organolithium Compounds with Aryl Chlorides. Organic Letters, 2013, 15, 5114-5117.	4.6	66
157	Taming the Complexity of Donorâ€“Acceptor Stenhouse Adducts: Infrared Motion Pictures of the Complete Switching Pathway. Journal of the American Chemical Society, 2019, 141, 7376-7384.	13.7	66
158	From Photoinduced Supramolecular Polymerization to Responsive Organogels. Journal of the American Chemical Society, 2021, 143, 5990-5997.	13.7	66
159	Modulation of porosity in a solid material enabled by bulk photoisomerization of an overcrowded alkene. Nature Chemistry, 2020, 12, 595-602.	13.6	65
160	Direct catalytic cross-coupling of alkenyllithium compounds. Chemical Science, 2015, 6, 1394-1398.	7.4	64
161	Synthesis and utilization of reversible and irreversible light-activated nanovalves derived from the channel protein MscL. Nature Protocols, 2007, 2, 1426-1437.	12.0	63
162	Hindered Aryllithium Reagents as Partners in Palladiumâ€Catalyzed Crossâ€Coupling: Synthesis of Triâ€and Tetraâ€orthoâ€Substituted Biaryls under Ambient Conditions. Angewandte Chemie - International Edition, 2013, 52, 13329-13333.	13.8	63

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163	Visibleâ€Lightâ€Driven Photoisomerization and Increased Rotation Speed of a Molecular Motor Acting as a Ligand in a Ruthenium(II) Complex. Angewandte Chemie - International Edition, 2015, 54, 11457-11461.	13.8	63
164	Nickelâ€Catalyzed Crossâ€Coupling of Organolithium Reagents with (Hetero)Aryl Electrophiles. Chemistry - A European Journal, 2016, 22, 3991-3995.	3.3	63
165	Iminothioindoxyl as a molecular photoswitch with 100â€‰nm band separation in the visible range. Nature Communications, 2019, 10, 2390.	12.8	63
166	Oxygen Activated, Palladium Nanoparticle Catalyzed, Ultrafast Crossâ€Coupling of Organolithium Reagents. Angewandte Chemie - International Edition, 2017, 56, 3354-3359.	13.8	62
167	Photoresponsive porous materials. Nanoscale Advances, 2021, 3, 24-40.	4.6	62
168	Photocontrol of Anion Binding Affinity to a Bis-urea Receptor Derived from Stiff-Stilbene. Organic Letters, 2017, 19, 324-327.	4.6	61
169	Copper-catalyzed asymmetric allylic substitution reactions with organozinc and Grignard reagents. Pure and Applied Chemistry, 2008, 80, 1025-1037.	1.9	60
170	Stereodivergent Anion Binding Catalysis with Molecular Motors. Angewandte Chemie - International Edition, 2020, 59, 785-789.	13.8	60
171	Optimizing rotary processes in synthetic molecular motors. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16919-16924.	7.1	59
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