

Dirk Trauner

List of Publications by Year in descending order

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474
papers

20,682
citations

10351

72
h-index

15683

125
g-index

534
all docs

534
docs citations

534
times ranked

15514
citing authors

#	ARTICLE	IF	CITATIONS
1	The B-Alkyl Suzuki-Miyaura Cross-Coupling Reaction: Development, Mechanistic Study, and Applications in Natural Product Synthesis. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 4544-4568.	7.2	847
2	Light-activated ion channels for remote control of neuronal firing. <i>Nature Neuroscience</i> , 2004, 7, 1381-1386.	7.1	660
3	<i>In Vivo</i> Photopharmacology. <i>Chemical Reviews</i> , 2018, 118, 10710-10747.	23.0	592
4	A Roadmap to Success in Photopharmacology. <i>Accounts of Chemical Research</i> , 2015, 48, 1947-1960.	7.6	561
5	Allosteric control of an ionotropic glutamate receptor with an optical switch. <i>Nature Chemical Biology</i> , 2006, 2, 47-52.	3.9	558
6	Optogenetic dissection of a behavioural module in the vertebrate spinal cord. <i>Nature</i> , 2009, 461, 407-410.	13.7	387
7	Beta Cell Hubs Dictate Pancreatic Islet Responses to Glucose. <i>Cell Metabolism</i> , 2016, 24, 389-401.	7.2	370
8	Extraction of Photogenerated Electrons and Holes from a Covalent Organic Framework Integrated Heterojunction. <i>Journal of the American Chemical Society</i> , 2014, 136, 17802-17807.	6.6	354
9	Optochemical Genetics. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 12156-12182.	7.2	341
10	Photoswitchable Inhibitors of Microtubule Dynamics Optically Control Mitosis and Cell Death. <i>Cell</i> , 2015, 162, 403-411.	13.5	317
11	Remote Control of Neuronal Activity with a Light-Gated Glutamate Receptor. <i>Neuron</i> , 2007, 54, 535-545.	3.8	310
12	Biosynthetic and Biomimetic Electrocyclizations. <i>Chemical Reviews</i> , 2005, 105, 4757-4778.	23.0	288
13	Photochemical control of endogenous ion channels and cellular excitability. <i>Nature Methods</i> , 2008, 5, 331-338.	9.0	216
14	Photochemical Restoration of Visual Responses in Blind Mice. <i>Neuron</i> , 2012, 75, 271-282.	3.8	216
15	Photochromic Blockers of Voltage-Gated Potassium Channels. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9097-9101.	7.2	203
16	Enantioselective Nazarov Reactions through Catalytic Asymmetric Proton Transfer. <i>Journal of the American Chemical Society</i> , 2004, 126, 9544-9545.	6.6	194
17	Optical control of metabotropic glutamate receptors. <i>Nature Neuroscience</i> , 2013, 16, 507-516.	7.1	192
18	A Red-Shifted, Fast-Relaxing Azobenzene Photoswitch for Visible Light Control of an Ionotropic Glutamate Receptor. <i>Journal of the American Chemical Society</i> , 2013, 135, 17683-17686.	6.6	189

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19	PHOTACs enable optical control of protein degradation. <i>Science Advances</i> , 2020, 6, eaay5064.	4.7	185
20	Mechanisms of photoswitch conjugation and light activation of an ionotropic glutamate receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 10865-10870.	3.3	169
21	The chemistry of marine furanocembranoids, pseudopteranes, gersolanes, and related natural products. <i>Natural Product Reports</i> , 2008, 25, 298.	5.2	168
22	LiGluR Restores Visual Responses in Rodent Models of Inherited Blindness. <i>Molecular Therapy</i> , 2011, 19, 1212-1219.	3.7	168
23	Efficient Nazarov Cyclizations of 2-Alkoxy-1,4-pentadien-3-ones. <i>Organic Letters</i> , 2003, 5, 4931-4934.	2.4	165
24	Restoring Visual Function to Blind Mice with a Photoswitch that Exploits Electrophysiological Remodeling of Retinal Ganglion Cells. <i>Neuron</i> , 2014, 81, 800-813.	3.8	165
25	Tuning Photochromic Ion Channel Blockers. <i>ACS Chemical Neuroscience</i> , 2011, 2, 536-543.	1.7	155
26	Reversibly Caged Glutamate: A Photochromic Agonist of Ionotropic Glutamate Receptors. <i>Journal of the American Chemical Society</i> , 2007, 129, 260-261.	6.6	154
27	Optochemical control of genetically engineered neuronal nicotinic acetylcholine receptors. <i>Nature Chemistry</i> , 2012, 4, 105-111.	6.6	153
28	Synthetic approaches towards alkaloids bearing $\hat{\pm}$ -tertiary amines. <i>Natural Product Reports</i> , 2016, 33, 491-522.	5.2	152
29	Label-Free Microscale Thermophoresis Discriminates Sites and Affinity of Protein-Ligand Binding. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10656-10659.	7.2	150
30	New photochemical tools for controlling neuronal activity. <i>Current Opinion in Neurobiology</i> , 2009, 19, 544-552.	2.0	149
31	Concise Total Synthesis of ($\hat{\pm}$)-Fronodosin B Using a Novel Palladium-Catalyzed Cyclization. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 1569-1572.	7.2	147
32	Rapid optical control of nociception with an ion-channel photoswitch. <i>Nature Methods</i> , 2012, 9, 396-402.	9.0	144
33	Concise Synthesis of ($\hat{\pm}$)-Rhazinilam through Direct Coupling. <i>Organic Letters</i> , 2005, 7, 5207-5209.	2.4	138
34	Engineering Light-Gated Ion Channels. <i>Biochemistry</i> , 2006, 45, 15129-15141.	1.2	130
35	Photoswitchable fatty acids enable optical control of TRPV1. <i>Nature Communications</i> , 2015, 6, 7118.	5.8	126
36	A light-gated, potassium-selective glutamate receptor for the optical inhibition of neuronal firing. <i>Nature Neuroscience</i> , 2010, 13, 1027-1032.	7.1	124

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37	Azo-Propofols: Photochromic Potentiators of GABA _A Receptors. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10500-10504.	7.2	124
38	Total Synthesis of (±)-Heptemerone B and (±)-Guanacastepene E. <i>Journal of the American Chemical Society</i> , 2006, 128, 17057-17062.	6.6	121
39	ortho-Quinone Methides from para-Quinones: Total Synthesis of Rubioncolin B. <i>Journal of the American Chemical Society</i> , 2008, 130, 9230-9231.	6.6	121
40	Total Synthesis of (+)-Halichlorine: An Inhibitor of VCAM-1 Expression. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 3542-3545.	7.2	117
41	A structural link between inactivation and block of a K ⁺ channel. <i>Nature Structural and Molecular Biology</i> , 2008, 15, 605-612.	3.6	117
42	Exploring Biosynthetic Relationships among Furanocembranoids: Synthesis of (±)-Bipinnatin J, (+)-Intricarene, (+)-Rubifolide, and (+)-Isoepilophodione B. <i>Organic Letters</i> , 2006, 8, 5901-5904.	2.4	114
43	A Photochromic Agonist for μ -Opioid Receptors. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3264-3267.	7.2	114
44	Photoswitchable diacylglycerols enable optical control of protein kinase C. <i>Nature Chemical Biology</i> , 2016, 12, 755-762.	3.9	112
45	Synthesis of Taiwaniquinoids via Nazarov Triflation. <i>Journal of the American Chemical Society</i> , 2006, 128, 11022-11023.	6.6	111
46	Photochemical tools for remote control of ion channels in excitable cells. <i>Nature Chemical Biology</i> , 2005, 1, 360-365.	3.9	110
47	Total Synthesis of (±)-Rhazinal Using Novel Palladium-Catalyzed Cyclizations. <i>Journal of Organic Chemistry</i> , 2009, 74, 1581-1586.	1.7	109
48	Morphine Synthesis and Biosynthesis-An Update. <i>Current Organic Chemistry</i> , 2000, 4, 343-362.	0.9	108
49	Synthesis of Redshifted Azobenzene Photoswitches by Late-Stage Functionalization. <i>Chemistry - A European Journal</i> , 2016, 22, 4364-4368.	1.7	108
50	Optical control of insulin release using a photoswitchable sulfonylurea. <i>Nature Communications</i> , 2014, 5, 5116.	5.8	106
51	Biomimetic Synthesis of Antimalarial Naphthoquinones. <i>Journal of the American Chemical Society</i> , 2005, 127, 6276-6283.	6.6	104
52	Orthogonal Optical Control of a G Protein-Coupled Receptor with a SNAP-Tethered Photochromic Ligand. <i>ACS Central Science</i> , 2015, 1, 383-393.	5.3	104
53	Computational Design and Synthesis of a Deeply Red-Shifted and Bistable Azobenzene. <i>Journal of the American Chemical Society</i> , 2020, 142, 6538-6547.	6.6	102
54	The V-ATPase-Inhibitor Archazolid Abrogates Tumor Metastasis via Inhibition of Endocytic Activation of the Rho-GTPase Rac1. <i>Cancer Research</i> , 2012, 72, 5976-5987.	0.4	94

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55	Expedient Synthesis of (±)-Bipinnatin J. <i>Organic Letters</i> , 2006, 8, 345-347.	2.4	93
56	Light-Induced Depolarization of Neurons Using a Modified Shaker K ⁺ Channel and a Molecular Photoswitch. <i>Journal of Neurophysiology</i> , 2006, 96, 2792-2796.	0.9	92
57	Structural basis of open channel block in a prokaryotic pentameric ligand-gated ion channel. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 1330-1336.	3.6	91
58	An eight-step synthesis of epicolactone reveals its biosynthetic origin. <i>Nature Chemistry</i> , 2015, 7, 879-882.	6.6	85
59	Biomimetic Synthesis and Structure Elucidation of Rubicordifolin, a Cytotoxic Natural Product from <i>Rubia cordifolia</i> . <i>Journal of the American Chemical Society</i> , 2005, 127, 2870-2871.	6.6	82
60	Nanosculpting reversed wavelength sensitivity into a photoswitchable iGluR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 6814-6819.	3.3	82
61	Mode of Cell Death Induction by Pharmacological Vacuolar H ⁺ -ATPase (V-ATPase) Inhibition. <i>Journal of Biological Chemistry</i> , 2013, 288, 1385-1396.	1.6	81
62	Optical Control of Insulin Secretion Using an Incretin Switch. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15565-15569.	7.2	80
63	Total Synthesis of (±)-Archazolid B. <i>Journal of the American Chemical Society</i> , 2007, 129, 8960-8961.	6.6	79
64	Optical Control of Acetylcholinesterase with a Tacrine Switch. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7657-7660.	7.2	79
65	Synthesis of Photoswitchable Δ^9 -Tetrahydrocannabinol Derivatives Enables Optical Control of Cannabinoid Receptor 1 Signaling. <i>Journal of the American Chemical Society</i> , 2017, 139, 18206-18212.	6.6	79
66	Mining the Tetraene Manifold: Total Synthesis of Complex Prones from <i>Placobranchus ocellatus</i> . <i>Angewandte Chemie - International Edition</i> , 2005, 44, 4602-4606.	7.2	76
67	Optical control of NMDA receptors with a diffusible photoswitch. <i>Nature Communications</i> , 2015, 6, 8076.	5.8	76
68	Synthetic Studies toward SNF4435 C and SNF4435 D. <i>Organic Letters</i> , 2002, 4, 2221-2224.	2.4	75
69	Pericyclic Reactions of Prenylated Naphthoquinones: Biomimetic Syntheses of Mollugin and Microphyllaquinone. <i>Organic Letters</i> , 2005, 7, 5865-5868.	2.4	74
70	A Photochromic Agonist of AMPA Receptors. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5748-5751.	7.2	74
71	Optical Control of Lipid Rafts with Photoswitchable Ceramides. <i>Journal of the American Chemical Society</i> , 2016, 138, 12981-12986.	6.6	74
72	Light-Controlled Membrane Mechanics and Shape Transitions of Photoswitchable Lipid Vesicles. <i>Langmuir</i> , 2017, 33, 4083-4089.	1.6	74

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73	Catalysis of 6Ë Electrocyclizations. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8100-8103.	7.2	73
74	A family of photoswitchable NMDA receptors. <i>ELife</i> , 2016, 5, .	2.8	73
75	Dual optical control and mechanistic insights into photoswitchable group II and III metabotropic glutamate receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E3546-E3554.	3.3	72
76	Regulating Enzymatic Activity with a Photoswitchable Affinity Label. <i>ChemBioChem</i> , 2008, 9, 191-193.	1.3	70
77	Pharmacology of ionotropic glutamate receptors: A structural perspective. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 7759-7772.	1.4	70
78	Microtubules control cellular shape and coherence in amoeboid migrating cells. <i>Journal of Cell Biology</i> , 2020, 219, .	2.3	70
79	Protein Surface Recognition by Rational Design:Â Nanomolar Ligands for Potassium Channels. <i>Journal of the American Chemical Society</i> , 2003, 125, 12668-12669.	6.6	69
80	The Total Synthesis of (âˆ)—Amathaspiramide F. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 4556-4559.	7.2	67
81	All Optical Interface for Parallel, Remote, and Spatiotemporal Control of Neuronal Activity. <i>Nano Letters</i> , 2007, 7, 3859-3863.	4.5	67
82	Development of a New Photochromic Ion Channel Blocker via Azologization of Fomocaine. <i>ACS Chemical Neuroscience</i> , 2014, 5, 514-518.	1.7	67
83	An Electrochemical Approach to the Guanacastepenes. <i>Organic Letters</i> , 2005, 7, 3425-3428.	2.4	66
84	Sign Inversion in Photopharmacology: Incorporation of Cyclic Azobenzenes in Photoswitchable Potassium Channel Blockers and Openers. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15421-15428.	7.2	66
85	Optical control of sphingosine-1-phosphate formation and function. <i>Nature Chemical Biology</i> , 2019, 15, 623-631.	3.9	66
86	Restoration of patterned vision with an engineered photoactivatable G protein-coupled receptor. <i>Nature Communications</i> , 2017, 8, 1862.	5.8	65
87	Mapping the Azolog Space Enables the Optical Control of New Biological Targets. <i>ACS Central Science</i> , 2019, 5, 607-618.	5.3	65
88	Optical Control of Dopamine Receptors Using a Photoswitchable Tethered Inverse Agonist. <i>Journal of the American Chemical Society</i> , 2017, 139, 18522-18535.	6.6	63
89	Optical Manipulation of F-Actin with Photoswitchable Small Molecules. <i>Journal of the American Chemical Society</i> , 2020, 142, 9240-9249.	6.6	63
90	Biomimetic synthesis of the IDO inhibitors exigamine A and B. <i>Nature Chemical Biology</i> , 2008, 4, 535-537.	3.9	62

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91	Furans as Versatile Synthons: Total Syntheses of Caribenol A and Caribenol B. <i>Journal of the American Chemical Society</i> , 2017, 139, 4117-4122.	6.6	62
92	Optogenetic photochemical control of designer K ⁺ channels in mammalian neurons. <i>Journal of Neurophysiology</i> , 2011, 106, 488-496.	0.9	61
93	Palladium-catalyzed couplings to nucleophilic heteroarenes: the total synthesis of (±)-frondosin B. <i>Tetrahedron</i> , 2004, 60, 9675-9686.	1.0	60
94	An efficient synthesis of loline alkaloids. <i>Nature Chemistry</i> , 2011, 3, 543-545.	6.6	59
95	Synthetic approaches toward sesterterpenoids. <i>Natural Product Reports</i> , 2012, 29, 752.	5.2	58
96	Characterization of a Diffusible Signaling Factor from <i>Xylella fastidiosa</i> . <i>MBio</i> , 2013, 4, e00539-12.	1.8	58
97	Vacuolar-ATPase Inhibition Blocks Iron Metabolism to Mediate Therapeutic Effects in Breast Cancer. <i>Cancer Research</i> , 2015, 75, 2863-2874.	0.4	58
98	Vinyl Quinones as Diels-Alder Dienes: Concise Synthesis of (±)-Halenaquinone. <i>Journal of the American Chemical Society</i> , 2008, 130, 8604-8605.	6.6	57
99	Photoswitchable Lipids. <i>ChemBioChem</i> , 2021, 22, 73-83.	1.3	57
100	Total Synthesis of (±)-SNF4435 C and (+)-SNF4435 D. <i>Organic Letters</i> , 2005, 7, 4475-4477.	2.4	56
101	The in vivo chemistry of photoswitched tethered ligands. <i>Current Opinion in Chemical Biology</i> , 2014, 21, 121-127.	2.8	56
102	Synthetic Studies toward the Guanacastepenes. <i>Organic Letters</i> , 2003, 5, 4113-4115.	2.4	55
103	Biomimetic Synthesis of the Shimalactones. <i>Organic Letters</i> , 2008, 10, 149-152.	2.4	55
104	Studies towards the total synthesis of halichlorine: asymmetric synthesis of the spiroquinolizidine subunit. <i>Tetrahedron Letters</i> , 1999, 40, 6513-6516.	0.7	54
105	Calix[4]arene-based conical-shaped ligands for voltage-dependent potassium channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 10482-10486.	3.3	54
106	Optical Control of TRPV1 Channels. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9845-9848.	7.2	54
107	Controlling epithelial sodium channels with light using photoswitchable amilorides. <i>Nature Chemistry</i> , 2014, 6, 712-719.	6.6	54
108	Biomimetic Total Synthesis of Santalin. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5079-5083.	7.2	54

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109	Light-Induced Dark Adaptation of Channelrhodopsin Involves Photoconversion between the all-trans and 13-cis Retinal Isomers. <i>Biochemistry</i> , 2015, 54, 5389-5400.	1.2	54
110	Synthesis of Enantiomerically Pure Morphine Alkaloids: The Hydrophenanthrene Route. <i>Journal of Organic Chemistry</i> , 1998, 63, 5908-5918.	1.7	53
111	Light-Controlled Lipid Interaction and Membrane Organization in Photolipid Bilayer Vesicles. <i>Langmuir</i> , 2018, 34, 13368-13374.	1.6	53
112	Oxidative Approach Enables Efficient Access to Cyclic Azobenzenes. <i>Journal of the American Chemical Society</i> , 2019, 141, 17295-17304.	6.6	53
113	Concise Stereoselective Routes to Advanced Intermediates Related to Natural and Unnatural Pinnacid Acid This work was supported by the National Institutes of Health (Grant Numbers: CA28824). Postdoctoral Fellowship support is gratefully acknowledged by M.W.C. (U.S. Army BCRP, Tj ETQq1 1 0.784314 rgBT/Overlock 10 Tf 50	7.2	52
114	Dr. George Sukenick of the MSKCC NMR Core Facility for NMR and mass spectral analyses.. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 4450. Biomimetic Synthesis of the Calcineurin Phosphatase Inhibitor Dibefurin. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13414-13418.	7.2	52
115	Photoswitchable paclitaxel-based microtubule stabilisers allow optical control over the microtubule cytoskeleton. <i>Nature Communications</i> , 2020, 11, 4640.	5.8	52
116	Formal Total Synthesis of (±)-Morphine by Cuprate Conjugate Addition. <i>Angewandte Chemie International Edition in English</i> , 1996, 35, 2830-2832.	4.4	51
117	Wild-Type Monomeric ±-Synuclein Can Impair Vesicle Endocytosis and Synaptic Fidelity via Tubulin Polymerization at the Calyx of Held. <i>Journal of Neuroscience</i> , 2017, 37, 6043-6052.	1.7	51
118	Genetically Targeted Optical Control of an Endogenous G Protein-Coupled Receptor. <i>Journal of the American Chemical Society</i> , 2019, 141, 11522-11530.	6.6	51
119	Photochemical Origin of the Immunosuppressive SNF4435C/D and Formation of Orinocin through Polyene Splicing. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7835-7838.	7.2	50
120	Biomimetic Synthesis of (±)-Pinnatal and (±)-Sterekunthal A. <i>Journal of the American Chemical Society</i> , 2003, 125, 9554-9555.	6.6	49
121	AzoCholine Enables Optical Control of Alpha 7 Nicotinic Acetylcholine Receptors in Neural Networks. <i>ACS Chemical Neuroscience</i> , 2015, 6, 701-707.	1.7	49
122	Optical control of neuronal activity using a light-operated GIRK channel opener (LOGO). <i>Chemical Science</i> , 2016, 7, 2347-2352.	3.7	49
123	Biomimetic Synthesis of Elysiapyrones A and B. <i>Organic Letters</i> , 2005, 7, 2901-2903.	2.4	48
124	Biomimetic Synthesis of (±)-Pycnanthuquinone...C through the Diels-Alder Reaction of a Vinyl Quinone. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6199-6202.	7.2	48
125	A Photoactive Porphyrin-Based Periodic Mesoporous Organosilica Thin Film. <i>Journal of the American Chemical Society</i> , 2013, 135, 18513-18519.	6.6	48
126	Rational Design of a Chiral Palladium(0) Olefin Complex of Unprecedented Stability. <i>Organometallics</i> , 2005, 24, 2831-2833.	1.1	47

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127	Concise Total Syntheses of Variocolortides A and B through an Unusual Hetero-Diels-Alder Reaction. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1402-1405.	7.2	47
128	PhoDAGs Enable Optical Control of Diacylglycerol-Sensitive Transient Receptor Potential Channels. <i>Cell Chemical Biology</i> , 2018, 25, 215-223.e3.	2.5	47
129	Photopharmacological control of bipolar cells restores visual function in blind mice. <i>Journal of Clinical Investigation</i> , 2017, 127, 2598-2611.	3.9	47
130	A Total Synthesis Prompts the Structure Revision of Haouamine B. <i>Journal of the American Chemical Society</i> , 2012, 134, 9291-9295.	6.6	46
131	New players in phototherapy: photopharmacology and bio-integrated optoelectronics. <i>Current Opinion in Chemical Biology</i> , 2019, 50, 145-151.	2.8	46
132	Allosteric Optical Control of a Class B G-Protein-Coupled Receptor. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5865-5868.	7.2	45
133	Biomimetic Synthesis of Complex Flavonoids Isolated from <i>Daemonorops</i> - "Dragon's Blood". <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12332-12335.	7.2	45
134	Photochemical formation of intricarene. <i>Nature Communications</i> , 2014, 5, 5597.	5.8	44
135	Expedient Synthesis of (+)-Lycopalhine A. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2191-2194.	7.2	44
136	A Biomimetic Synthesis Elucidates the Origin of Preisolactone A. <i>Journal of the American Chemical Society</i> , 2019, 141, 15515-15518.	6.6	44
137	Toward the Total Synthesis of Maoecrystal V: Establishment of Contiguous Quaternary Stereocenters. <i>Organic Letters</i> , 2010, 12, 5656-5659.	2.4	43
138	Biomimetic Synthesis of (±)-Meroclhorin B. <i>Organic Letters</i> , 2014, 16, 2634-2637.	2.4	43
139	Manipulating midbrain dopamine neurons and reward-related behaviors with light-controllable nicotinic acetylcholine receptors. <i>ELife</i> , 2018, 7, .	2.8	43
140	Development of novel Lewis acid catalyzed cycloisomerizations: synthesis of bicyclo[3.1.0]hexenes and cyclopentenones. <i>Tetrahedron</i> , 2003, 59, 8919-8930.	1.0	42
141	Optical control of AMPA receptors using a photoswitchable quinoxaline-2,3-dione antagonist. <i>Chemical Science</i> , 2017, 8, 611-615.	3.7	42
142	A Synthesis of (±)-Aplydactone. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11251-11255.	7.2	41
143	Optical control of GPR40 signalling in pancreatic β -cells. <i>Chemical Science</i> , 2017, 8, 7604-7610.	3.7	41
144	Specificity and Speed: Tethered Photopharmacology. <i>Biochemistry</i> , 2017, 56, 5214-5220.	1.2	41

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145	SNAP-Tagged Nanobodies Enable Reversible Optical Control of a G Protein-Coupled Receptor <i>via</i> a Remotely Tethered Photoswitchable Ligand. <i>ACS Chemical Biology</i> , 2018, 13, 2682-2688.	1.6	41
146	Insight into the Mechanism of the Saegusa Oxidation: Isolation of a Novel Palladium(0)-Tetraolefin Complex. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 2015-2016.	7.2	40
147	The Total Synthesis of (±)-Nitidasin. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8513-8517.	7.2	40
148	A Conia-Ene Type Cyclization under Basic Conditions Enables an Efficient Synthesis of (±)-Lycoposerramine. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 893-896.	7.2	40
149	Optical control of L-type Ca ²⁺ channels using a diltiazem photoswitch. <i>Nature Chemical Biology</i> , 2018, 14, 764-767.	3.9	40
150	A Unified Approach to <i>trans</i> -Hydrindane Sesterterpenoids. <i>Journal of Organic Chemistry</i> , 2012, 77, 5838-5843.	1.7	38
151	Polytwistane. <i>Chemistry - A European Journal</i> , 2014, 20, 1638-1645.	1.7	38
152	The β -hydroxyketone LAI-1 regulates motility, LqsA-dependent phosphorylation signalling and gene expression of <i>Legionella pneumophila</i> . <i>Molecular Microbiology</i> , 2016, 99, 778-793.	1.2	38
153	A Lipid Photoswitch Controls Fluidity in Supported Bilayer Membranes. <i>Langmuir</i> , 2020, 36, 2629-2634.	1.6	38
154	New Ventures in the Construction of Complex Heterocycles: Synthesis of Morphine and Hasubanan Alkaloids. <i>Synthesis</i> , 1998, 1998, 653-664.	1.2	37
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