

Alexander Deiters

List of Publications by Citations

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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.

196
papers

10,845
citations

54
h-index

99
g-index

226
ext. papers

12,219
ext. citations

8.5
avg, IF

6.81
L-index

#	Paper	IF	Citations
196	Synthesis of oxygen- and nitrogen-containing heterocycles by ring-closing metathesis. <i>Chemical Reviews</i> , 2004 , 104, 2199-238	68.1	1183
195	Genetically encoded norbornene directs site-specific cellular protein labelling via a rapid bioorthogonal reaction. <i>Nature Chemistry</i> , 2012 , 4, 298-304	17.6	369
194	Small-molecule inhibitors of microRNA miR-21 function. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 7482-4	16.4	350
193	Adding amino acids with novel reactivity to the genetic code of <i>Saccharomyces cerevisiae</i> . <i>Journal of the American Chemical Society</i> , 2003 , 125, 11782-3	16.4	327
192	Genetic encoding and labeling of aliphatic azides and alkynes in recombinant proteins via a pyrrolysyl-tRNA Synthetase/tRNA(CUA) pair and click chemistry. <i>Journal of the American Chemical Society</i> , 2009 , 131, 8720-1	16.4	257
191	Site-specific PEGylation of proteins containing unnatural amino acids. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 5743-5	2.9	234
190	Optochemical Control of Biological Processes in Cells and Animals. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2768-2798	16.4	228
189	Small molecule modifiers of microRNA miR-122 function for the treatment of hepatitis C virus infection and hepatocellular carcinoma. <i>Journal of the American Chemical Society</i> , 2010 , 132, 7976-81	16.4	216
188	A genetically encoded fluorescent amino acid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 9785-9	11.5	216
187	A genetically encoded photocaged amino acid. <i>Journal of the American Chemical Society</i> , 2004 , 126, 14306-7	16.4	211
186	Genetically encoded photocontrol of protein localization in mammalian cells. <i>Journal of the American Chemical Society</i> , 2010 , 132, 4086-8	16.4	195
185	Optical Control of CRISPR/Cas9 Gene Editing. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5642-5	16.4	176
184	Photochemical control of biological processes. <i>Organic and Biomolecular Chemistry</i> , 2007 , 5, 999-1005	3.9	176
183	DNA computation in mammalian cells: microRNA logic operations. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10512-8	16.4	159
182	A genetically encoded photocaged tyrosine. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 2728-31	16.4	154
181	Expanding the genetic code of yeast for incorporation of diverse unnatural amino acids via a pyrrolysyl-tRNA synthetase/tRNA pair. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14819-24	16.4	153
180	In vivo incorporation of an alkyne into proteins in <i>Escherichia coli</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005 , 15, 1521-4	2.9	146

179	Activation and deactivation of DNAzyme and antisense function with light for the photochemical regulation of gene expression in mammalian cells. <i>Journal of the American Chemical Society</i> , 2010 , 132, 6183-93	16.4	138
178	Light-activated kinases enable temporal dissection of signaling networks in living cells. <i>Journal of the American Chemical Society</i> , 2011 , 133, 2124-7	16.4	127
177	Principles and applications of the photochemical control of cellular processes. <i>ChemBioChem</i> , 2010 , 11, 47-53	3.8	126
176	Phenanthridine synthesis via [2+2+2] cyclotrimerization reactions. <i>Organic and Biomolecular Chemistry</i> , 2008 , 6, 263-5	3.9	119
175	Photocontrol of tyrosine phosphorylation in mammalian cells via genetic encoding of photocaged tyrosine. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11912-5	16.4	110
174	Light regulation of protein dimerization and kinase activity in living cells using photocaged rapamycin and engineered FKBP. <i>Journal of the American Chemical Society</i> , 2011 , 133, 420-3	16.4	109
173	Recent advances in the photochemical control of protein function. <i>Trends in Biotechnology</i> , 2010 , 28, 468-75	15.1	107
172	Optochemical control of deoxyoligonucleotide function via a nucleobase-caging approach. <i>Accounts of Chemical Research</i> , 2014 , 47, 45-55	24.3	105
171	Biomimetic entry to the sarpgan family of indole alkaloids: total synthesis of +-geissoschizine and +-N-methylvellosimine. <i>Journal of the American Chemical Society</i> , 2003 , 125, 4541-50	16.4	103
170	Genetically encoded optochemical probes for simultaneous fluorescence reporting and light activation of protein function with two-photon excitation. <i>Journal of the American Chemical Society</i> , 2014 , 136, 15551-8	16.4	102
169	Light activation as a method of regulating and studying gene expression. <i>Current Opinion in Chemical Biology</i> , 2009 , 13, 678-86	9.7	102
168	A general approach to chemo- and regioselective cyclotrimerization reactions. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 5187-90	16.4	102
167	Photocaged morpholino oligomers for the light-regulation of gene function in zebrafish and <i>Xenopus</i> embryos. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15644-50	16.4	100
166	Microwave activation of enzymatic catalysis. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10048-9	16.4	97
165	General strategy for the syntheses of corynanthe, tacaman, and oxindole alkaloids. <i>Journal of Organic Chemistry</i> , 2006 , 71, 6547-61	4.2	95
164	Photochemical DNA activation. <i>Organic Letters</i> , 2007 , 9, 1903-6	6.2	94
163	DNA computation: a photochemically controlled AND gate. <i>Journal of the American Chemical Society</i> , 2012 , 134, 3810-5	16.4	89
162	Small molecule modifiers of the microRNA and RNA interference pathway. <i>AAPS Journal</i> , 2010 , 12, 51-60	3.7	81

- 161 Gene silencing in mammalian cells with light-activated antisense agents. *ChemBioChem*, **2008**, 9, 2937-40, 8 78
- 160 Sequential gene silencing using wavelength-selective caged morpholino oligonucleotides. *Angewandte Chemie - International Edition*, **2014**, 53, 10114-8 16.4 73
- 159 Optical control of protein function through unnatural amino acid mutagenesis and other optogenetic approaches. *ACS Chemical Biology*, **2014**, 9, 1398-407 4.9 72
- 158 Genetically encoded light-activated transcription for spatiotemporal control of gene expression and gene silencing in mammalian cells. *Journal of the American Chemical Society*, **2013**, 135, 13433-9 16.4 72
- 157 Genetically encoding an aliphatic diazirine for protein photocrosslinking. *Chemical Science*, **2011**, 2, 480-483 9.1 72
- 156 Generating permissive site-specific unnatural aminoacyl-tRNA synthetases. *Biochemistry*, **2010**, 49, 1667-71 7.1 71
- 155 Optochemische Steuerung biologischer Vorgänge in Zellen und Tieren. *Angewandte Chemie*, **2018**, 130, 2816-2848 3.6 67
- 154 Light-activated Cre recombinase as a tool for the spatial and temporal control of gene function in mammalian cells. *ACS Chemical Biology*, **2009**, 4, 441-5 4.9 67
- 153 A cyclotrimerization route to cannabinoids. *Organic Letters*, **2008**, 10, 2195-8 6.2 67
- 152 Small-molecule control of protein function through Staudinger reduction. *Nature Chemistry*, **2016**, 8, 1027-1034 17.6 66
- 151 A general approach to triphenylenes and azatriphenylenes: total synthesis of dehydrotylophorine and tylophorine. *Chemical Communications*, **2008**, 4750-2 5.8 65
- 150 Recent advances in the optical control of protein function through genetic code expansion. *Current Opinion in Chemical Biology*, **2018**, 46, 99-107 9.7 60
- 149 Optochemical control of RNA interference in mammalian cells. *Nucleic Acids Research*, **2013**, 41, 10518-28, 0.1 60
- 148 A high-avidity biosensor reveals plasma membrane PI(3,4)P is predominantly a class I PI3K signaling product. *Journal of Cell Biology*, **2019**, 218, 1066-1079 7.3 60
- 147 Microwave-mediated nickel-catalyzed cyclotrimerization reactions: total synthesis of illudinine. *Journal of Organic Chemistry*, **2008**, 73, 342-5 4.2 57
- 146 Optical Control of Small Molecule-Induced Protein Degradation. *Journal of the American Chemical Society*, **2020**, 142, 2193-2197 16.4 56
- 145 Photocaged t7 RNA polymerase for the light activation of transcription and gene function in pro- and eukaryotic cells. *ChemBioChem*, **2010**, 11, 972-7 3.8 56
- 144 Photochemical activation of protein expression in bacterial cells. *Angewandte Chemie - International Edition*, **2007**, 46, 4290-2 16.4 55

143	A Chemical Biology Approach to Reveal Sirt6-targeted Histone H3 Sites in Nucleosomes. <i>ACS Chemical Biology</i> , 2016 , 11, 1973-81	4.9	55
142	Regulation of transcription through light-activation and light-deactivation of triplex-forming oligonucleotides in mammalian cells. <i>ACS Chemical Biology</i> , 2012 , 7, 1247-56	4.9	54
141	Light-triggered polymerase chain reaction. <i>Chemical Communications</i> , 2008 , 462-4	5.8	54
140	Light-regulated RNA-small molecule interactions. <i>ChemBioChem</i> , 2008 , 9, 1225-8	3.8	54
139	MicroRNA targeting of CoREST controls polarization of migrating cortical neurons. <i>Cell Reports</i> , 2014 , 7, 1168-83	10.6	53
138	High-throughput luciferase reporter assay for small-molecule inhibitors of microRNA function. <i>Journal of Biomolecular Screening</i> , 2012 , 17, 822-8		53
137	A light-activated DNA polymerase. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 5950-3	16.4	53
136	Photochemical control of DNA decoy function enables precise regulation of nuclear factor B activity. <i>Journal of the American Chemical Society</i> , 2011 , 133, 13176-82	16.4	52
135	Development of photolabile protecting groups and their application to the optochemical control of cell signaling. <i>Current Opinion in Structural Biology</i> , 2019 , 57, 164-175	8.1	51
134	Two rapid catalyst-free click reactions for in vivo protein labeling of genetically encoded strained alkene/alkyne functionalities. <i>Bioconjugate Chemistry</i> , 2014 , 25, 1730-8	6.3	51
133	Genetic Code Expansion in Animals. <i>ACS Chemical Biology</i> , 2018 , 13, 2375-2386	4.9	50
132	Tricyclic alkaloid core structures assembled by a cyclotrimerization-coupled intramolecular nucleophilic substitution reaction. <i>Organic Letters</i> , 2010 , 12, 1288-91	6.2	50
131	A Genetically Encoded Photocaged Tyrosine. <i>Angewandte Chemie</i> , 2006 , 118, 2794-2797	3.6	50
130	Spatiotemporal control of microRNA function using light-activated antagomirs. <i>Molecular BioSystems</i> , 2012 , 8, 2987-93		49
129	Computational design of chemogenetic and optogenetic split proteins. <i>Nature Communications</i> , 2018 , 9, 4042	17.4	49
128	Synthesis of the pyridine core of cyclothiazomycin. <i>Organic Letters</i> , 2011 , 13, 4352-5	6.2	48
127	Spatiotemporal Control of CRISPR/Cas9 Function in Cells and Zebrafish using Light-Activated Guide RNA. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8998-9003	16.4	46
126	Light-controlled synthetic gene circuits. <i>Current Opinion in Chemical Biology</i> , 2012 , 16, 292-9	9.7	46

125	Synthesis of anthracene and azaanthracene fluorophores via [2+2+2] cyclotrimerization reactions. <i>Organic Letters</i> , 2008 , 10, 4661-4	6.2	46
124	Stereoselective total synthesis of dihydrocorynantheol. <i>Organic Letters</i> , 2002 , 4, 3243-5	6.2	46
123	Solid-supported [2+2+2] cyclotrimerizations. <i>Chemistry - A European Journal</i> , 2006 , 12, 5563-8	4.8	45
122	Pyridines via solid-supported [2 + 2 + 2] cyclotrimerization. <i>Chemical Communications</i> , 2006 , 1313-5	5.8	45
121	Genetic Code Expansion in Zebrafish Embryos and Its Application to Optical Control of Cell Signaling. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9100-9103	16.4	43
120	Genetic encoding of caged cysteine and caged homocysteine in bacterial and mammalian cells. <i>ChemBioChem</i> , 2014 , 15, 1793-9	3.8	43
119	Synthesis of indanones via solid-supported [2+2+2] cyclotrimerization. <i>Journal of Organic Chemistry</i> , 2007 , 72, 7801-4	4.2	43
118	Photochemical hammerhead ribozyme activation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006 , 16, 2658-61	2.9	43
117	Genetically encoded unstrained olefins for live cell labeling with tetrazine dyes. <i>Chemical Communications</i> , 2014 , 50, 13085-8	5.8	42
116	Development of a robust and high throughput method for profiling N-linked glycans derived from plasma glycoproteins by NanoLC-FTICR mass spectrometry. <i>Journal of Proteome Research</i> , 2009 , 8, 3764-3770	5.6	41
115	Synthesis and investigation of the 5-formylcytidine modified, anticodon stem and loop of the human mitochondrial tRNAMet. <i>Nucleic Acids Research</i> , 2008 , 36, 6548-57	20.1	41
114	The human mitochondrial tRNAMet: structure/function relationship of a unique modification in the decoding of unconventional codons. <i>Journal of Molecular Biology</i> , 2011 , 406, 257-74	6.5	40
113	Improved synthesis of the two-photon caging group 3-nitro-2-ethylidibenzofuran and its application to a caged thymidine phosphoramidite. <i>Organic Letters</i> , 2010 , 12, 916-9	6.2	38
112	Light-cleavable rapamycin dimer as an optical trigger for protein dimerization. <i>Chemical Communications</i> , 2015 , 51, 5702-5	5.8	37
111	Conditional control of alternative splicing through light-triggered splice-switching oligonucleotides. <i>Journal of the American Chemical Society</i> , 2015 , 137, 3656-62	16.4	37
110	Photocleavable polyethylene glycol for the light-regulation of protein function. <i>Bioconjugate Chemistry</i> , 2010 , 21, 1404-7	6.3	37
109	Aryl amide small-molecule inhibitors of microRNA miR-21 function. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015 , 25, 4793-4796	2.9	36
108	Conditional Control of CRISPR/Cas9 Function. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5394-5396	16.4	36

107	Site-specific promoter caging enables optochemical gene activation in cells and animals. <i>Journal of the American Chemical Society</i> , 2014 , 136, 7152-8	16.4	35
106	Light-activated gene editing with a photocaged zinc-finger nuclease. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 6839-42	16.4	35
105	Light-activation of gene function in mammalian cells via ribozymes. <i>Chemical Communications</i> , 2009 , 568-70	5.8	35
104	Microwave-assisted solid-supported alkyne cyclotrimerization reactions for combinatorial chemistry. <i>ACS Combinatorial Science</i> , 2007 , 9, 735-8		35
103	Thiourea-based fluorescent chemosensors for aqueous metal ion detection and cellular imaging. <i>Journal of Organic Chemistry</i> , 2014 , 79, 6054-60	4.2	34
102	The effect of microwave irradiation on DNA hybridization. <i>Organic and Biomolecular Chemistry</i> , 2009 , 7, 2506-8	3.9	34
101	Light-activated deoxyguanosine: photochemical regulation of peroxidase activity. <i>Molecular BioSystems</i> , 2008 , 4, 508-11		34
100	Interfacing synthetic DNA logic operations with protein outputs. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 13192-5	16.4	33
99	Total synthesis of cryptoacetalide. <i>Journal of Organic Chemistry</i> , 2010 , 75, 5355-8	4.2	33
98	Small Molecule Release and Activation through DNA Computing. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13909-13915	16.4	32
97	Site-specific incorporation of fluorotyrosines into proteins in Escherichia coli by photochemical disguise. <i>Biochemistry</i> , 2010 , 49, 1557-9	3.2	31
96	A General Approach to Chemo- and Regioselective Cyclotrimerization Reactions. <i>Angewandte Chemie</i> , 2007 , 119, 5279-5282	3.6	31
95	Control of protein function through optochemical translocation. <i>ACS Synthetic Biology</i> , 2014 , 3, 731-6	5.7	30
94	Genetically encoded optical activation of DNA recombination in human cells. <i>Chemical Communications</i> , 2016 , 52, 8529-32	5.8	29
93	Genetic Encoding of Photocaged Tyrosines with Improved Light-Activation Properties for the Optical Control of Protease Function. <i>ChemBioChem</i> , 2017 , 18, 1442-1447	3.8	28
92	Small Molecule Inhibition of MicroRNA miR-21 Rescues Chemosensitivity of Renal-Cell Carcinoma to Topotecan. <i>Journal of Medicinal Chemistry</i> , 2018 , 61, 5900-5909	8.3	28
91	Site-specific in vivo labeling of proteins for NMR studies. <i>ChemBioChem</i> , 2005 , 6, 55-8	3.8	28
90	Alcohol, Aldehyde, and Ketone Liberation and Intracellular Cargo Release through Peroxide-Mediated Boryl Ether Fragmentation. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13353-13360	16.4	27

89	Reversible and Tunable Photoswitching of Protein Function through Genetic Encoding of Azobenzene Amino Acids in Mammalian Cells. <i>ChemBioChem</i> , 2018 , 19, 2178-2185	3.8	27
88	A photoactivatable small-molecule inhibitor for light-controlled spatiotemporal regulation of Rho kinase in live embryos. <i>Development (Cambridge)</i> , 2012 , 139, 437-42	6.6	26
87	Daclatasvir inhibits hepatitis C virus NS5A motility and hyper-accumulation of phosphoinositides. <i>Virology</i> , 2015 , 476, 168-179	3.6	25
86	MicroRNA miR-122 as a therapeutic target for oligonucleotides and small molecules. <i>Current Medicinal Chemistry</i> , 2013 , 20, 3629-40	4.3	23
85	Optochemical Control of Protein Localization and Activity within Cell-like Compartments. <i>Biochemistry</i> , 2018 , 57, 2590-2596	3.2	21
84	Conditional transgene and gene targeting methodologies in zebrafish. <i>Zebrafish</i> , 2006 , 3, 415-29	2	21
83	Optical control of protein phosphatase function. <i>Nature Communications</i> , 2019 , 10, 4384	17.4	20
82	Cellular delivery and photochemical activation of antisense agents through a nucleobase caging strategy. <i>ACS Chemical Biology</i> , 2013 , 8, 2272-82	4.9	20
81	Restriction enzyme-free mutagenesis via the light regulation of DNA polymerization. <i>Nucleic Acids Research</i> , 2009 , 37, e58	20.1	20
80	Photochemical regulation of restriction endonuclease activity. <i>ChemBioChem</i> , 2009 , 10, 1612-6	3.8	20
79	A Light-Activated DNA Polymerase. <i>Angewandte Chemie</i> , 2009 , 121, 6064-6067	3.6	19
78	Planar-chiral (2E,7Z)- and (2Z,7E)-cyclonona-2,7-dien-1-yl carbamates by asymmetric, bis-allylic, alpha, alpha-cycloalkylation--studies on their conformational stability. <i>Chemistry - A European Journal</i> , 2002 , 8, 1833-42	4.8	19
77	Sequential Gene Silencing Using Wavelength-Selective Caged Morpholino Oligonucleotides. <i>Angewandte Chemie</i> , 2014 , 126, 10278-10282	3.6	18
76	Chiral Induction by Elimination-Coupled Lithium-Ene Reaction: Synthesis of (+)-(3R,4R)-1,2-Dihydromultifidene. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 546-548	16.4	18
75	Intracellular light-activation of riboswitch activity. <i>ChemBioChem</i> , 2014 , 15, 1346-51	3.8	17
74	Asymmetric synthesis of cis-1,2-dialkenyl-substituted cyclopentanes via (-)-sparteine-mediated lithiation and cycloalkylation of a 9-chloro-2,7-nonadienyl carbamate. <i>Journal of Organic Chemistry</i> , 2001 , 66, 2842-9	4.2	17
73	Enantioselective Synthesis of Functionalized 1,5-Cyclononadienes by Intramolecular Cycloalkylation under π -Diallyl Coupling. <i>Angewandte Chemie - International Edition</i> , 2000 , 39, 2105-2107	16.4	16
72	Optically Triggered Immune Response through Photocaged Oligonucleotides. <i>Tetrahedron Letters</i> , 2015 , 56, 3639-3642	2	15

71	Photochemical Activation of Protein Expression in Bacterial Cells. <i>Angewandte Chemie</i> , 2007 , 119, 4368-4370	4.3	15
70	A New Photocaging Group for Aromatic N-Heterocycles. <i>Synthesis</i> , 2006 , 2006, 2147-2150	2.9	15
69	Cell-Lineage Tracing in Zebrafish Embryos with an Expanded Genetic Code. <i>ChemBioChem</i> , 2018 , 19, 1244-1249	3.8	15
68	Optical Control of DNA Helicase Function through Genetic Code Expansion. <i>ChemBioChem</i> , 2017 , 18, 466-469	3.8	14
67	Microwave-assisted synthesis of unnatural amino acids. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 5478-80	2.9	14
66	Identification of inhibitors of microRNA function from small molecule screens. <i>Methods in Molecular Biology</i> , 2014 , 1095, 147-56	1.4	14
65	Efficacy of C _N Coupling Reactions with a New Multinuclear Copper Complex Catalyst and Its Dissociation into Mononuclear Species. <i>European Journal of Organic Chemistry</i> , 2011 , 2011, 4154-4159	3.2	13
64	Light-Activated Gene Editing with a Photocaged Zinc-Finger Nuclease. <i>Angewandte Chemie</i> , 2011 , 123, 6971-6974	3.6	13
63	Aryl Azides as Phosphine-Activated Switches for Small Molecule Function. <i>Scientific Reports</i> , 2019 , 9, 1470	4.9	12
62	Spatiotemporal Control of CRISPR/Cas9 Function in Cells and Zebrafish using Light-Activated Guide RNA. <i>Angewandte Chemie</i> , 2020 , 132, 9083-9088	3.6	12
61	Heterotaxin: a TGF- β signaling inhibitor identified in a multi-phenotype profiling screen in Xenopus embryos. <i>Chemistry and Biology</i> , 2011 , 18, 252-63		12
60	Synthesis of non-linear protein dimers through a genetically encoded Thiol-ene reaction. <i>PLoS ONE</i> , 2014 , 9, e105467	3.7	11
59	Hydrogen peroxide induced activation of gene expression in mammalian cells using boronate estrone derivatives. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9066-70	16.4	11
58	Stabilization and photochemical regulation of antisense agents through PEGylation. <i>Bioconjugate Chemistry</i> , 2011 , 22, 2136-42	6.3	11
57	Asymmetric synthesis of a (2Z,7E)-cyclononadiene by an intramolecular cycloalkylation and insight to its conformational properties. <i>Organic Letters</i> , 2000 , 2, 2415-8	6.2	11
56	Designer membraneless organelles sequester native factors for control of cell behavior. <i>Nature Chemical Biology</i> , 2021 , 17, 998-1007	11.7	11
55	Optically Controlled Signal Amplification for DNA Computation. <i>ACS Synthetic Biology</i> , 2015 , 4, 1064-9	5.7	10
54	Phosphine-Activated Lysine Analogues for Fast Chemical Control of Protein Subcellular Localization and Protein SUMOylation. <i>ChemBioChem</i> , 2020 , 21, 141-148	3.8	9

53	A concise synthesis of the Lycopodium alkaloid cermizine D. <i>Tetrahedron Letters</i> , 2015 , 56, 3683-3685	2	8
52	Enantio- and Diastereoselective Synthesis of a 3,4-Divinylpyrrolidine via Asymmetric Deprotonation and Cyclization of a 9-Chloro-5-aza-2,7-nonadiene. <i>Advanced Synthesis and Catalysis</i> , 2001 , 343, 181-183	5.6	8
51	Targeted Protein Degradation through Fast Optogenetic Activation and Its Application to the Control of Cell Signaling. <i>Journal of the American Chemical Society</i> , 2021 , 143, 9222-9229	16.4	8
50	Synthesis and application of light-switchable arylazopyrazole rapamycin analogs. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 8348-8353	3.9	7
49	Small molecule inhibition of microRNA-21 expression reduces cell viability and microtumor formation. <i>Bioorganic and Medicinal Chemistry</i> , 2019 , 27, 3735-3743	3.4	7
48	Optical Control of Cellular ATP Levels with a Photocaged Adenylate Kinase. <i>ChemBioChem</i> , 2020 , 21, 1832-1836	3.8	7
47	Modulating the pKa of a tyrosine in KlenTaq DNA polymerase that is crucial for abasic site bypass by in vivo incorporation of a non-canonical amino acid. <i>ChemBioChem</i> , 2014 , 15, 1735-7	3.8	7
46	Chiral induzierte, mit einer Eliminierung gekoppelte Lithium-En-Reaktion [Synthese von (+)-(3R,4R)-1,2-Dihydromultifiden. <i>Angewandte Chemie</i> , 1999 , 111, 529-532	3.6	7
45	Control of oncogenic miRNA function by light-activated miRNA antagomirs. <i>Methods in Molecular Biology</i> , 2014 , 1165, 99-114	1.4	7
44	Potent and Readily Accessible Bistramide A Analogues through Diverted Total Synthesis. <i>Chemistry - A European Journal</i> , 2018 , 24, 16271-16275	4.8	7
43	Optical control of MAP kinase kinase 6 (MKK6) reveals that it has divergent roles in pro-apoptotic and anti-proliferative signaling. <i>Journal of Biological Chemistry</i> , 2020 , 295, 8494-8504	5.4	6
42	Interfacing Synthetic DNA Logic Operations with Protein Outputs. <i>Angewandte Chemie</i> , 2014 , 126, 13408-13416	3.4	6
41	Photochemical control of bacterial signal processing using a light-activated erythromycin. <i>Molecular BioSystems</i> , 2011 , 7, 2554-7		6
40	Enantioselective Synthese von funktionalisierten 1,5-Cyclononadienen durch intramolekulare Cycloalkylierung unter [Diallylkupplung. <i>Angewandte Chemie</i> , 2000 , 112, 2189-2192	3.6	6
39	Optical Control of Small Molecule-Induced Protein Degradation		6
38	Protein Labeling and Crosslinking by Covalent Aptamers. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 15899-15904	16.4	6
37	Allosteres to regulate neurotransmitter sulfonation. <i>Journal of Biological Chemistry</i> , 2019 , 294, 2293-2301	3.4	6
36	Conditional gene knockdowns in sea urchins using caged morpholinos. <i>Developmental Biology</i> , 2021 , 475, 21-29	3.1	6

35	Konditionale Kontrolle der CRISPR/Cas9-Funktion. <i>Angewandte Chemie</i> , 2016 , 128, 5482-5487	3.6	5
34	Light-activation of Cre recombinase in zebrafish embryos through genetic code expansion. <i>Methods in Enzymology</i> , 2019 , 624, 265-281	1.7	5
33	Genetic code expansion in mammalian cells: A plasmid system comparison. <i>Bioorganic and Medicinal Chemistry</i> , 2020 , 28, 115772	3.4	5
32	Chemogenetic and optogenetic control of post-translational modifications through genetic code expansion. <i>Current Opinion in Chemical Biology</i> , 2021 , 63, 123-131	9.7	5
31	Reversible light switching of cell signalling by genetically encoded protein dimerization. <i>ChemBioChem</i> , 2010 , 11, 301-3	3.8	4
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