

Diazo Compounds: Versatile Tools for Chemical Biology

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Fine-Tuning Strain and Electronic Activation of Strain-Promoted 1,3-Dipolar Cycloadditions with Endocyclic Sulfamates in SNO-OCTs. <i>Journal of the American Chemical Society</i> , 2017, 139, 8029-8037.	6.6	54
2	Meeting Proceedings ICBS2016 "Translating the Power of Chemical Biology to Clinical Advances. <i>ACS Chemical Biology</i> , 2017, 12, 869-877.	1.6	2
3	Cytosolic Delivery of Proteins by Bioreversible Esterification. <i>Journal of the American Chemical Society</i> , 2017, 139, 14396-14398.	6.6	114
4	C-H and C-C bond insertion reactions of diazo compounds into aldehydes. <i>Tetrahedron</i> , 2017, 73, 6815-6829.	1.0	28
5	The covalently bound diazo group as an infrared probe for hydrogen bonding environments. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 19420-19426.	1.3	14
7	Hydrolysis, polarity, and conformational impact of C-terminal partially fluorinated ethyl esters in peptide models. <i>Beilstein Journal of Organic Chemistry</i> , 2017, 13, 2442-2457.	1.3	14
8	Metal-Free Geminal Difunctionalization of Diazocarbonyl Compounds: A One-Pot Multicomponent Strategy for the Construction of α,β -Diamino Carbonyl Derivatives. <i>Chemistry - A European Journal</i> , 2018, 24, 4805-4809.	1.7	13
9	Safe and Facile Access to Nonstabilized Diazoalkanes Using Continuous Flow Technology. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5777-5782.	7.2	37
10	Recent advance in transition-metal-catalyzed oxidant-free 4+1 annulation through C-H bond activation. <i>Tetrahedron Letters</i> , 2018, 59, 430-437.	0.7	25
11	Building Peptide Bonds in Haifa: The Seventh Chemical Protein Synthesis (CPS) Meeting. <i>ChemBioChem</i> , 2018, 19, 115-120.	1.3	2
12	Homogeneous catalysis for the production of low-volume, high-value chemicals from biomass. <i>Nature Reviews Chemistry</i> , 2018, 2, 35-46.	13.8	148
13	Safe and Facile Access to Nonstabilized Diazoalkanes Using Continuous Flow Technology. <i>Angewandte Chemie</i> , 2018, 130, 5879-5884.	1.6	4
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16	Site-Selective Conversion of Azido Groups at Carbonyl α -Positions to Diazo Groups in Diazido and Triazido Compounds. <i>Journal of Organic Chemistry</i> , 2018, 83, 12103-12121.	1.7	23
17	Annulation of a Highly Functionalized Diazo Building Block with Indoles under $\text{Sc}(\text{OTf})_3/\text{Rh}(\text{OAc})_4$ Multicatalysis through Michael Addition/Cyclization Sequence. <i>Journal of Organic Chemistry</i> , 2018, 83, 12171-12183.	1.7	16
18	Blue light-promoted photolysis of aryldiazoacetates. <i>Chemical Science</i> , 2018, 9, 5112-5118.	3.7	258
19	2-Diazoacetyl-2-azirines: Source of a Variety of 2-Azirine Building Blocks with Orthogonal and Domino Reactivity. <i>Journal of Organic Chemistry</i> , 2018, 83, 8304-8314.	1.7	27
20	Intrinsically Safe and Shelf-Stable Diazo-Transfer Reagent for Fast Synthesis of Diazo Compounds. <i>Journal of Organic Chemistry</i> , 2018, 83, 10916-10921.	1.7	26

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22	Target Identification of Bioactive Covalently Acting Natural Products. Current Topics in Microbiology and Immunology, 2018, 420, 351-374.	0.7	27
23	Transient Protection of Organic Azides from Click Reactions with Alkynes by Phosphazide Formation. Organic Letters, 2018, 20, 4126-4130.	2.4	33
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31	Elusive Dehydroalanine Derivatives with Enhanced Reactivity. ChemBioChem, 2019, 20, 1246-1250.	1.3	2
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33	[2 + 1 + 1] Assembly of spiro π -lactams by Rh(<i>scpd</i>)-catalyzed reaction of diazocarbonyl compounds with azirines/isoxazoles. Organic and Biomolecular Chemistry, 2019, 17, 6821-6830.	1.5	25
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36	Non-stabilized diazoalkane synthesis <i>via</i> the oxidation of free hydrazones by iodosylbenzene and application in <i>in situ</i> MIRC cyclopropanation. Chemical Science, 2019, 10, 3802-3806.	3.7	21
37	Methylenespiro[2.3]hexanes via Nickel-Catalyzed Cyclopropanations with [1.1.1]Propellane. Journal of the American Chemical Society, 2019, 141, 20325-20334.	6.6	34
38	In Situ Kinetic Studies of Rh(II)-Catalyzed Asymmetric Cyclopropanation with Low Catalyst Loadings. ACS Catalysis, 2020, 10, 1161-1170.	5.5	38
39	Photophysical Properties of New Pyrazolone Based Azo- Compounds. Journal of Fluorescence, 2020, 30, 51-61.	1.3	4
40	Thermal Stability and Explosive Hazard Assessment of Diazo Compounds and Diazo Transfer Reagents. Organic Process Research and Development, 2020, 24, 67-84.	1.3	166

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41	Copper and manganese co-mediated cascade aza-Michael addition/cyclization and azidation of 1,3-enynes: regioselective synthesis of fully substituted azido pyrroles. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 8908-8915.	1.5	6
42	Synthetic Elaboration of Native DNA by RASS (SENDR). <i>ACS Central Science</i> , 2020, 6, 1789-1799.	5.3	12
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49	A Conjugate Addition Approach to Diazo-Containing Scaffolds with \hat{I}^2 Quaternary Centers. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12827-12831.	7.2	11
50	Reactions between Diazo Compounds and Hypervalent Iodine(III) Reagents. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12282-12292.	7.2	35
51	Reactions between Diazo Compounds and Hypervalent Iodine(III) Reagents. <i>Angewandte Chemie</i> , 2020, 132, 12378-12388.	1.6	4
52	A Conjugate Addition Approach to Diazo-Containing Scaffolds with \hat{I}^2 Quaternary Centers. <i>Angewandte Chemie</i> , 2020, 132, 12927-12931.	1.6	4
53	Precise Installation of Diazo-Tagged Side-Chains on Proteins to Enable In Vitro and In-Cell Site-Specific Labeling. <i>Bioconjugate Chemistry</i> , 2020, 31, 1604-1610.	1.8	10
54	Optimized Immobilization Strategy for Dirhodium(II) Carboxylate Catalysts for $C\hat{H}$ Functionalization and Their Implementation in a Packed Bed Flow Reactor. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19525-19531.	7.2	19
55	Flavin-dependent N-hydroxylating enzymes: distribution and application. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 6481-6499.	1.7	34
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58	Optimized Immobilization Strategy for Dirhodium(II) Carboxylate Catalysts for $C\hat{H}$ Functionalization and Their Implementation in a Packed Bed Flow Reactor. <i>Angewandte Chemie</i> , 2020, 132, 19693-19699.	1.6	1

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60	Die Huisgen- Δ Reaktion: Meilensteine der 1,3- Δ dipolaren Cycloaddition. <i>Angewandte Chemie</i> , 2020, 132, 12389-12404.	1.6	58
61	The Huisgen Reaction: Milestones of the 1,3- Δ dipolar Cycloaddition. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12293-12307.	7.2	311
62	Δ -Diazocarbonyl Compounds: Synthesis and their Rh(II)-Catalyzed 1,3 $\text{C}^{\alpha}\text{H}$ Insertions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6177-6184.	7.2	32
63	Δ -Diazocarbonyl Compounds: Synthesis and their Rh(II)-Catalyzed 1,3 $\text{C}^{\alpha}\text{H}$ Insertions. <i>Angewandte Chemie</i> , 2021, 133, 6242-6249.	1.6	3
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65	Reductive cross-coupling to access $\text{C}^{\alpha}\text{N}$ bonds from aryl halides and diazoesters under dual nickel/photoredox-catalyzed conditions. <i>Organic Chemistry Frontiers</i> , 2021, 8, 4118-4123.	2.3	11
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68	Construction of a reduction-responsive oligonucleotide via a post-modification approach utilizing 4-nitrophenyl diazomethane. <i>Polymer Journal</i> , 2021, 53, 741-746.	1.3	6
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71	Complete Biosynthetic Pathway of Alazozeptin, a Tripeptide Consisting of Two Molecules of Δ -Diazoserine and One Molecule of Alanine. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10319-10325.	7.2	24
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75	Bioorthogonal Reactions of Triarylphosphines and Related Analogues. <i>Chemical Reviews</i> , 2021, 121, 6802-6849.	23.0	42
76	Direct Alkylation of Deoxyguanosine by Azaserine Leads to O^6 -Carboxymethyldeoxyguanosine. <i>Chemical Research in Toxicology</i> , 2021, 34, 1518-1529.	1.7	8

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77	Acceleration of 1,3-Dipolar Cycloadditions by Integration of Strain and Electronic Tuning. <i>Journal of the American Chemical Society</i> , 2021, 143, 9489-9497.	6.6	13
78	Copper(II) Acetate-Induced Oxidation of Hydrazones to Diazo Compounds under Flow Conditions Followed by Dirhodium-Catalyzed Enantioselective Cyclopropanation Reactions. <i>Organic Letters</i> , 2021, 23, 5363-5367.	2.4	13
79	Recent Developments and Strategies for Mutually Orthogonal Bioorthogonal Reactions. <i>ChemBioChem</i> , 2021, 22, 3254-3262.	1.3	17
80	Visible-Light-Induced Multicomponent Synthesis of β -Amino Esters with Diazo Compounds. <i>Organic Letters</i> , 2021, 23, 6278-6282.	2.4	38
81	One-Pot Synthesis of β -Diazo- α,β -Unsaturated Esters as Versatile Building Blocks for Functionalized Dienes, Cyclopentenes, and 5,7-Fused Bicycles. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 4174-4183.	1.2	3
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84	Exporting Metal-Carbene Chemistry to Live Mammalian Cells: Copper-Catalyzed Intracellular Synthesis of Quinoxalines Enabled by N^H Carbene Insertions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22017-22025.	7.2	23
85	Diazophosphonates: Effective Surrogates for Diazoalkanes in Pyrazole Synthesis. <i>Chemistry - A European Journal</i> , 2021, 27, 13703-13708.	1.7	6
86	Diastereoselective Formal [5+2] Cycloaddition of Diazo Arylidene Succinimides-Derived Rhodium Carbenes and Aldehydes: A Route to 2-Benzoxepines. <i>Journal of Organic Chemistry</i> , 2021, 86, 13673-13683.	1.7	10
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88	An N -Trifluoromethylation/Cyclization Strategy for Accessing Diverse N -Trifluoromethyl Azoles from Nitriles and 1,3-Dipoles. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	23
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92	Understanding the Influence of Donor-Acceptor Diazo Compounds on the Catalyst Efficiency of $B(C_6F_5)_3$ Towards Carbene Formation. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	11
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95	SuFExable <i>N</i> -Pyrazoles via 1,3-Dipolar Cycloadditions of Diazo Compounds with Bromoethylsulfonyl Fluoride. <i>Journal of Organic Chemistry</i> , 2022, 87, 3868-3873.	1.7	9
96	Cu(II)-Catalyzed Synthesis of 4-(1,4,5,6-Tetrahydropyridin-3-yl)-1,4-dihydroisoquinolin-3-ones from 4-Diazoisoquinolin-3-ones. <i>Journal of Organic Chemistry</i> , 2022, 87, 4088-4096.	1.7	3
97	Organocatalytic Enantioselective Sulfa-Michael Additions to α,β -Unsaturated Diazoketones. <i>Journal of Organic Chemistry</i> , 2022, 87, 3482-3490.	1.7	5
98	Functionalization of DNA-Tagged Alkenes with Diazo Compounds via Photocatalysis. <i>Organic Letters</i> , 2022, 24, 2208-2213.	2.4	28
99	Modular Synthesis of Cyclopropane-Fused <i>N</i> -Heterocycles Enabled by Underexplored Diazo Reagents. <i>Angewandte Chemie</i> , 0, .	1.6	0
100	Modular Synthesis of Cyclopropane-Fused <i>N</i> -Heterocycles Enabled by Underexplored Diazo Reagents. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	10
101	Synthesis of Diazoquinones and Azidophenols via Diazo-Transfer Reaction of Phenols. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	1.2	2
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103	Rh(I)-Catalyzed Denitrogenative Transformations of 1,2,3-Thiadiazoles: Ligand-Controlled Product Selectivity and the Structure of the Key Organorhodium Intermediate Revealed. <i>ACS Catalysis</i> , 2022, 12, 5574-5584.	5.5	12
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105	The 1,3-Dipolar Cycloaddition: From Conception to Quantum Chemical Design. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	1.7	13
106	Synthesis of functionalized <i>S</i> -benzyl dithiocarbamates from diazo-compounds via multi-component reactions with carbon disulfide and secondary amines. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 6766-6770.	1.5	7
107	Photocatalytic <i>para</i> -Selective C-H Functionalization of Anilines with Diazomalones. <i>Organic Letters</i> , 2022, 24, 6137-6141.	2.4	2
108	Furan Synthesis via Triplet Sensitization of Acceptor/Acceptor Diazoalkanes. <i>Advanced Synthesis and Catalysis</i> , 2022, 364, 3149-3154.	2.1	6
109	Copper(I)-Catalyzed Cross-Coupling of Arylsulfonyl Radicals with Diazo Compounds: Assembly of Arylsulfones. <i>Journal of Organic Chemistry</i> , 2022, 87, 12265-12273.	1.7	7
110	Bacterial Avenalamic Acid Biosynthesis Includes Substitution of an Aromatic Amino Group for Hydride by Nitrous Acid Dependent Diazotization. <i>Angewandte Chemie</i> , 0, .	1.6	0
111	Bacterial Avenalamic Acid Biosynthesis Includes Substitution of an Aromatic Amino Group for Hydride by Nitrous Acid Dependent Diazotization. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	11
112	Recent advances in pyrazole synthesis employing diazo compounds and synthetic analogues. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 8787-8817.	1.5	20

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113	Ru-Catalyzed Hydrogen Atom Transfer/C–F Bond Cleavage of Difluoroalkyl Diazos with Hantzsch Ester via a Photocatalytic Radical Process. <i>Organic Letters</i> , 2022, 24, 8036-8040.	2.4	8
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118	Continuous Process to Safely Manufacture an Aryldiazoacetate and Its Direct Use in a Dirhodium-Catalyzed Enantioselective Cyclopropanation. <i>Organic Process Research and Development</i> , 2023, 27, 90-104.	1.3	8
119	Copper–Catalyzed Cross–Coupling Reaction of $\hat{\text{I}}^{\pm}$ -Halo–N–Tosylhydrazones with H–Phosphoryl Compounds to Afford Alkenylphosphoryl Compounds. <i>Asian Journal of Organic Chemistry</i> , 0, , .	1.3	0
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121	Remote Strain Activation in a Sulfate-Linked Dibenzocycloalkyne. <i>Organic Letters</i> , 2023, 25, 309-313.	2.4	2
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123	Development of Synthetic Chemistry on Organic Azides by Breaking their 1,3-Dipolar Characteristics. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2022, 80, 1100-1112.	0.0	0
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125	Gold vs Light: Chemodivergent Reactivity of Diazoesters toward 2-azirine-2-carboxylic Acids. <i>Organic Letters</i> , 2023, 25, 2707-2712.	2.4	8
126	Reactive fragments targeting carboxylate residues employing direct to biology, high-throughput chemistry. <i>RSC Medicinal Chemistry</i> , 2023, 14, 671-679.	1.7	3
127	Chemoselective Caging of Carboxyl Groups for On–Demand Protein Activation with Small Molecules. <i>Angewandte Chemie</i> , 0, , .	1.6	0
128	Chemoselective Caging of Carboxyl Groups for On–Demand Protein Activation with Small Molecules. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	5
141	Transition metal-catalyzed reactivity of carbenes with boronic acid derivatives for arylation (alkylation) and beyond. <i>Organic and Biomolecular Chemistry</i> , 2023, 21, 7062-7078.	1.5	2
148	Unlocking the reactivity of diazo compounds in red light with the use of photochemical tools. <i>Chemical Communications</i> , 2023, 59, 14649-14652.	2.2	1

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