

Generation of Alkyl Radicals: From the Tyranny of Tin to

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Visible-Light Photoredox-Catalyzed Ring-Opening Carboxylation of Cyclic Oxime Esters with CO ₂ . ChemSusChem, 2020, 13, 6312-6317.	3.6	28
2	Vinyl Sulfonium Salts as the Radical Acceptor for Metal-Free Decarboxylative Alkenylation. Organic Letters, 2020, 22, 7768-7772.	2.4	32
3	Emerging Concepts in Carbon Nitride Organic Photocatalysis. ChemPlusChem, 2020, 85, 2499-2517.	1.3	47
4	Photogenerated electrophilic radicals for the umpolung of enolate chemistry. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2021, 46, 100387.	5.6	13
5	Photoredox-Catalyzed Multicomponent Cyclization of α -Vinyl Phenols, <i>N</i> -Alkoxyopyridinium Salts, and Sulfur Ylides for Synthesis of Dihydrobenzofurans. ChemCatChem, 2021, 13, 543-547.	1.8	24
6	Phosphorus Compounds as Precursors and Catalysts for Radical C-C Bond-Forming Reactions. Advanced Synthesis and Catalysis, 2021, 363, 924-936.	2.1	36
7	Deaminative metal-free reaction of alkenylboronic acids, sodium metabisulfite and Katritzky salts. Chemical Communications, 2021, 57, 915-918.	2.2	22
8	Reactions of benzyltriphenylphosphonium salts under photoredox catalysis. Organic and Biomolecular Chemistry, 2021, 19, 7810-7815.	1.5	2
9	Tin and Lead in Organic Synthesis. , 2021, , .		0
10	Synergistic photoredox and tertiary amine catalysis: generation of allylic sulfones from Morita-Baylis-Hillman acetates and sulfur dioxide. Organic Chemistry Frontiers, 2021, 8, 3308-3313.	2.3	23
11	Lewis Acid Activation of Fragment-Coupling Reactions of Tertiary Carbon Radicals Promoted by Visible-Light Irradiation of EDA Complexes. Organic Letters, 2021, 23, 1103-1106.	2.4	34
12	C4-arylation and domino C4-arylation/3,2-carbonyl migration of indoles by tuning Pd catalytic modes: Pd(<i>i</i>) catalysis vs. Pd(<i>ii</i>) catalysis. Chemical Science, 2021, 12, 3216-3225.	3.7	44
13	Phosphite mediated asymmetric N to C migration for the synthesis of chiral heterocycles from primary amines. Chemical Science, 2021, 12, 8996-9003.	3.7	4
14	Fast Carbon Isotope Exchange of Carboxylic Acids Enabled by Organic Photoredox Catalysis. Journal of the American Chemical Society, 2021, 143, 2200-2206.	6.6	63
15	Diacyl peroxides: practical reagents as aryl and alkyl radical sources. Chemical Communications, 2021, 57, 6707-6724.	2.2	31
16	Single Electron Transfer-Induced Redox Processes Involving <i>N</i> -(Acyloxy)phthalimides. ACS Catalysis, 2021, 11, 1640-1683.	5.5	190
17	Photo-Mediated Intermolecular Coupling of Alkenes with Ketones via Acyloxy Nitroso Compounds. Angewandte Chemie - International Edition, 2021, 60, 8547-8551.	7.2	17
18	Licht-vermittelte intermolekulare Kupplung von Alkenen mit Ketonen über Acyloxy-Nitroso-Verbindungen. Angewandte Chemie, 2021, 133, 8629-8634.	1.6	0

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19	Development of Organosilicon Peroxides as Practical Alkyl Radical Precursors and Their Applications to Transition Metal Catalysis. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 513-524.	2.0	24
20	Visible-Light Decatungstate/Disulfide Dual Catalysis for the Hydro-Functionalization of Styrenes. <i>Organic Letters</i> , 2021, 23, 1484-1488.	2.4	37
21	Controlled Single-Electron Transfer via Metal-Ligand Cooperativity Drives Divergent Nickel-Electrocatalyzed Radical Pathways. <i>Journal of the American Chemical Society</i> , 2021, 143, 6990-7001.	6.6	24
22	Electrophotocatalytic C-H Heterofunctionalization of Arenes. <i>Angewandte Chemie</i> , 2021, 133, 11263-11267.	1.6	12
23	Electrophotocatalytic C-H Heterofunctionalization of Arenes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11163-11167.	7.2	75
24	Enhancing Visible-Light Photocatalysis via Endohedral Functionalization of Single-Walled Carbon Nanotubes with Organic Dyes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 24877-24886.	4.0	19
25	Electrochemical Generation and Use in Organic Synthesis of C-C, C-O, and N-Centered Radicals. <i>Chemical Record</i> , 2021, 21, 2538-2573.	2.9	21
26	Asymmetric Synthesis of Homoallylic Alcohols Featuring Vicinal Tetrasubstituted Carbon Centers via Dual Pd/Photoredox Catalysis. <i>Organic Letters</i> , 2021, 23, 4447-4451.	2.4	15
27	Ti(O ₄)-Enabled Dual Photoredox and Nickel-Catalyzed Arylation and Alkenylation of Cyclopropanols. <i>Organic Letters</i> , 2021, 23, 5452-5456.	2.4	12
28	Synthesis of Cyclic Anhydrides via Ligand-Enabled C-H Carbonylation of Simple Aliphatic Acids. <i>Angewandte Chemie</i> , 2021, 133, 16518-16523.	1.6	8
29	Radical philicity and its role in selective organic transformations. <i>Nature Reviews Chemistry</i> , 2021, 5, 486-499.	13.8	169
30	Metal-Free Photosynthesis of Alkylated Benzimidazo[2,1-a]isoquinoline-6(5H)-ones and Indolo[2,1-a]isoquinolin-6(5H)-ones in PEG-200. <i>Journal of Organic Chemistry</i> , 2021, 86, 9055-9066.	1.7	50
31	Synthesis of Cyclic Anhydrides via Ligand-Enabled C-H Carbonylation of Simple Aliphatic Acids. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16382-16387.	7.2	25
32	Strategic Use of Visible-Light Photoredox Catalysis in Natural Product Synthesis. <i>Chemical Reviews</i> , 2022, 122, 1717-1751.	23.0	199
33	Hydroalkylation of Unactivated Olefins via Visible-Light-Driven Dual Hydrogen Atom Transfer Catalysis. <i>Journal of the American Chemical Society</i> , 2021, 143, 11251-11261.	6.6	59
34	Photocatalytic C-H Trifluoromethylthiolation by the Decatungstate Anion. <i>Organic Letters</i> , 2021, 23, 5729-5733.	2.4	40
35	Enantioselective Photochemical Reactions Enabled by Triplet Energy Transfer. <i>Chemical Reviews</i> , 2022, 122, 1626-1653.	23.0	197
36	In-situ-generation of alkylsilyl peroxides from alkyl hydroperoxides and their subsequent copper-catalyzed functionalization with organosilicon compounds. <i>Tetrahedron Letters</i> , 2021, 75, 153144.	0.7	4

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37	Molecular Main Group Metal Hydrides. <i>Chemical Reviews</i> , 2021, 121, 12784-12965.	23.0	147
38	Recent advances in radical chemistry proceeding through pro-aromatic radicals. <i>CheM</i> , 2021, 7, 2060-2100.	5.8	69
39	Direct Photocatalyzed Hydrogen Atom Transfer (HAT) for Aliphatic C-H Bonds Elaboration. <i>Chemical Reviews</i> , 2022, 122, 1875-1924.	23.0	442
40	Visible-Light-Promoted Selenocyanation of Cyclobutanone Oxime Esters Using Potassium Selenocyanate. <i>Journal of Organic Chemistry</i> , 2021, 86, 11399-11406.	1.7	20
41	Metal-to-Ligand Ratio-Dependent Chemodivergent Asymmetric Synthesis. <i>Angewandte Chemie</i> , 2021, 133, 23074.	1.6	0
42	Selective deoxygenative alkylation of alcohols via photocatalytic domino radical fragmentations. <i>Nature Communications</i> , 2021, 12, 5365.	5.8	51
43	Metal-to-Ligand Ratio-Dependent Chemodivergent Asymmetric Synthesis. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22892-22899.	7.2	16
44	<i>N</i> -Semiquinone radical anion isolated as an amorphous porous solid. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 17408-17419.	1.3	5
45	Mechanistic studies of reactive oxygen species mediated electrochemical radical reactions of alkyl iodides. <i>Chemical Communications</i> , 2021, 57, 8356-8359.	2.2	3
46	Extending photocatalysis to the visible and NIR: the molecular strategy. <i>Nanoscale</i> , 2021, 13, 9147-9159.	2.8	26
47	Visible-Light-Mediated Z-Stereoselective Monoalkylation of 1,2-Dichlorostyrenes by Photoredox/Nickel Dual Catalysis. <i>Synlett</i> , 2021, 32, 1513-1518.	1.0	4
48	Direct excitation strategy for radical generation in organic synthesis. <i>Chemical Society Reviews</i> , 2021, 50, 6320-6332.	18.7	103
49	Phenolate anion-catalyzed direct activation of inert alkyl chlorides driven by visible light. <i>Organic Chemistry Frontiers</i> , 2021, 8, 6364-6370.	2.3	19
50	An organophotoredox-catalyzed redox-neutral cascade involving <i>N</i> -(acyloxy)phthalimides and maleimides. <i>Organic Chemistry Frontiers</i> , 2021, 8, 2256-2262.	2.3	30
51	Advances of <i>N</i> -Hydroxyphthalimide Esters in Photocatalytic Alkylation Reactions. <i>Chinese Journal of Organic Chemistry</i> , 2021, 41, 4661.	0.6	34
52	Additive-Free, Visible-Light-Enabled Decarboxylative Alkylation of Enamides. <i>Organic Letters</i> , 2021, 23, 8262-8266.	2.4	21
53	Phosphine/Photoredox Catalyzed Anti-Markovnikov Hydroamination of Olefins with Primary Sulfonamides via β -Scission from Phosphoranyl Radicals. <i>Journal of the American Chemical Society</i> , 2021, 143, 18331-18338.	6.6	47
54	1,4-Alkylcarbonylation of 1,3-Enynes to Access Tetra-Substituted Allenyl Ketones <i>via</i> an NHC-Catalyzed Radical Relay. <i>ACS Catalysis</i> , 2021, 11, 13363-13373.	5.5	56

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55	Organic Sulfinic Acids and Salts in Visible Light-Induced Reactions. <i>Synthesis</i> , 2022, 54, 1231-1249.	1.2	6
56	Dioxygen-Triggered Oxosulfonylation/Sulfonylation of Terminal Olefins toward β^2 -Keto Sulfones/Sulfones. <i>Organic Letters</i> , 2021, 23, 8296-8301.	2.4	15
57	Acridine Orange Hemi(Zinc Chloride) Salt as a Lewis Acid-Photoredox Hybrid Catalyst for the Generation of α -Carbonyl Radicals. <i>Advanced Synthesis and Catalysis</i> , 2022, 364, 755-765.	2.1	13
58	Electrochemical C-N bond activation for deaminative reductive coupling of Katritzky salts. <i>Nature Communications</i> , 2021, 12, 6745.	5.8	45
59	Photoelectrochemical Decarboxylative C-H Alkylation of Quinoxalin-2(1H)-ones. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 16820-16828.	3.2	14
60	Inherently dinuclear iridium(III) meso architectures accessed by cyclometalation of calix[4]arene-based bis(aryltriazoles). <i>Dalton Transactions</i> , 2021, 50, 16765-16769.	1.6	7
61	Direct and Unified Access to Carbon Radicals from Aliphatic Alcohols by Cost-Efficient Titanium-Mediated Homolytic O-H Bond Cleavage. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	24
62	Direct and Unified Access to Carbon Radicals from Aliphatic Alcohols by Cost-Efficient Titanium-Mediated Homolytic O-H Bond Cleavage. <i>Angewandte Chemie</i> , 0, .	1.6	4
63	Enantioselective Radical Reactions Using Chiral Catalysts. <i>Chemical Reviews</i> , 2022, 122, 5842-5976.	23.0	136
64	Concomitant functionalization of two different ketones by merging Brønsted acid catalysis and radical relay coupling. <i>Organic Chemistry Frontiers</i> , 2022, 9, 1561-1566.	2.3	2
65	Three-component 1,2-dicarbofunctionalization of alkenes involving alkyl radicals. <i>Chemical Communications</i> , 2022, 58, 730-746.	2.2	45
66	A new approach for the copper-catalyzed functionalization of alkyl hydroperoxides with organosilicon compounds via in-situ-generated alkylsilyl peroxides. <i>Tetrahedron</i> , 2022, , 132627.	1.0	9
67	Site-Selective C(sp ³)-H Alkenylation Using Decatungstate Anion as Photocatalyst. <i>Advanced Synthesis and Catalysis</i> , 0, .	2.1	11
68	Low-Cost Transition Metal-Catalyzed Heck-Type Reactions: An Overview. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	1.2	14
69	A Photocatalytic System Composed of Benzimidazolium Aryloxyde and Tetramethylpiperidine 1-Oxyl to Promote Desulfonylative α -Oxyamination Reactions of α -Sulfonylketones. <i>ACS Omega</i> , 2022, 7, 4655-4666.	1.6	6
70	Alternating current electrolysis: A photoredox catalysis mimic and beyond. <i>Green Synthesis and Catalysis</i> , 2022, 3, 4-10.	3.7	18
71	Aromatization as the driving force for single electron transfer towards C-C cross-coupling reactions. <i>Catalysis Science and Technology</i> , 2022, 12, 1934-1940.	2.1	10
72	Recent advances in radical-mediated transformations of 1,3-dienes. <i>Chinese Journal of Catalysis</i> , 2022, 43, 548-557.	6.9	45

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73	Photocatalytic redox-neutral reaction of β -indolyl α -keto esters. <i>Organic Chemistry Frontiers</i> , 2022, 9, 1875-1883.	2.3	2
74	Alkyl GeMe_3 : Neutral Metalloid Radical Precursors upon Visible-Light Photocatalysis. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	31
75	Efficient Photocatalytic Carbonyl Alkylative Amination Enabled by Titanium-Dioxide-Mediated Decarboxylation. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	4
76	Alkyl GeMe_3 : Neutral Metalloid Radical Precursors upon Visible-Light Photocatalysis. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	1
77	Applications of Halogen-Atom Transfer (XAT) for the Generation of Carbon Radicals in Synthetic Photochemistry and Photocatalysis. <i>Chemical Reviews</i> , 2022, 122, 2292-2352.	23.0	206
78	Catalytic cleavage and functionalization of bulky and inert Csp ³ -Csp ³ bonds via a relayed proton-coupled electron transfer strategy. <i>Cell Reports Physical Science</i> , 2022, 3, 100763.	2.8	10
79	Modular and Facile Access to Chiral α -Aryl Phosphates via Dual Nickel- and Photoredox-Catalyzed Reductive Cross-Coupling. <i>Journal of the American Chemical Society</i> , 2022, 144, 3989-3997.	6.6	55
80	Ce(III)/Photoassisted Synthesis of Amides from Carboxylic Acids and Isocyanates. <i>Organic Letters</i> , 2022, 24, 2431-2435.	2.4	17
81	Metal-Free Photochemical C-Se Cross-Coupling of Aryl Halides with Diselenides. <i>Advanced Synthesis and Catalysis</i> , 2022, 364, 1607-1612.	2.1	8
82	Remote Giese Radical Addition by Photocatalytic Ring Opening of Activated Cycloalkanols. <i>Advanced Synthesis and Catalysis</i> , 2022, 364, 1689-1694.	2.1	6
83	Boryl Radical Activation of Benzylic C-OH Bond: Cross-Electrophile Coupling of Free Alcohols and CO ₂ via Photoredox Catalysis. <i>Journal of the American Chemical Society</i> , 2022, 144, 8551-8559.	6.6	41
84	Designing radical chemistry by visible light-promoted homolysis. <i>Trends in Chemistry</i> , 2022, 4, 305-317.	4.4	21
85	Phenanthrenequinone-Sensitized Photocatalytic Synthesis of Polysubstituted Quinolines from 2-Vinylarylimines. <i>Organic Letters</i> , 2022, 24, 274-278.	2.4	12
86	Photocatalytic C-O Bond Cleavage of Alcohols Using Xanthate Salts. <i>Organic Letters</i> , 2022, 24, 359-363.	2.4	18
87	Photocatalytic C(sp ³) radical generation via C-H, C-C, and C-X bond cleavage. <i>Chemical Science</i> , 2022, 13, 5465-5504.	3.7	45
88	Photocatalytic generation of ligated boryl radicals from tertiary amine-borane complexes: An emerging tool in organic synthesis. <i>Chem Catalysis</i> , 2022, 2, 957-966.	2.9	12
89	Dual Photoredox and Cobalt Catalysis Enabled Transformations. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	1.2	26
90	Decarboxylative tandem C-N coupling with nitroarenes via SH2 mechanism. <i>Nature Communications</i> , 2022, 13, 2432.	5.8	32

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91	Uncovering the Potential of Boronic Acid and Derivatives as Radical Source in Photo(electro)chemical Reactions. <i>Advanced Synthesis and Catalysis</i> , 2022, 364, 1643-1665.	2.1	28
92	Photoinduced Ruthenium-Catalyzed Double Remote C(sp ²)/C(sp ³) [•] H Functionalizations by Radical Relay. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	20
93	Visible Light-Mediated Manipulation of 1, <i>n</i> -Enynes in Organic Synthesis. <i>ChemCatChem</i> , 2022, 14, .	1.8	13
94	Dehydroalanine modification sees the light: a photochemical conjugate addition strategy. <i>Trends in Chemistry</i> , 2022, 4, 643-657.	4.4	21
95	Radical C(sp ³) [•] H functionalization and cross-coupling reactions. <i>Nature Reviews Chemistry</i> , 2022, 6, 405-427.	13.8	73
96	The photocatalytic selective 1,2-hydroxyacylmethylation of 1,3-dienes with sulfur ylides as the source of alkyl radicals. <i>Organic Chemistry Frontiers</i> , 2022, 9, 3747-3756.	2.3	6
97	Synthesis of Polycyclic Quinazolinones through C(sp ³) [•] H Functionalization of Inert Alkanes or Visible-Light-Promoted Oxidation Decarboxylation of <i>n</i> -Hydroxyphthalimide Esters. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	1.2	7
98	Umpolung Ala ^B Reagents for the Synthesis of Non-Proteogenic Amino Acids, Peptides and Proteins**. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	9
99	Visible-Light-Mediated C ^α Functionalization and Deoxygenative Strategies in Heterocyclic <i>n</i> -Oxides. <i>Advanced Synthesis and Catalysis</i> , 2022, 364, 2289-2306.	2.1	16
100	Umpolung Ala ^B Reagents for the Synthesis of Non-Proteogenic Amino Acids, Peptides and Proteins. <i>Angewandte Chemie</i> , 0, , .	1.6	0
101	Efficient synthesis of <i>β</i> -substituted amines via combining deoxygenation of amides with photochemical organocatalysis. <i>Cell Reports Physical Science</i> , 2022, 3, 100955.	2.8	10
102	Cyclization Strategies Using Imide Derivatives for the Synthesis of Polycyclic Nitrogen-Containing Compounds. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	1.2	6
103	A Pyridine-Based Donor-Acceptor Molecule: A Highly Reactive Organophotocatalyst That Enables the Reductive Cleavage of C-Br Bonds through Halogen Bonding. <i>ACS Catalysis</i> , 2022, 12, 7843-7849.	5.5	20
104	Redox activated amines in the organophotoinduced alkylation of coumarins. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 5716-5720.	1.5	4
105	Benzylic Fluorination Induced by a Charge-Transfer Complex with a Solvent-Dependent Selectivity Switch. <i>Organic Letters</i> , 2022, 24, 5376-5380.	2.4	11
106	Electrophotocatalysis: Combining Light and Electricity to Catalyze Reactions. <i>Journal of the American Chemical Society</i> , 2022, 144, 12567-12583.	6.6	101
107	Oxidative lactonization of C(sp ³)-H bond in methyl aromatic alcohols enabled by proton-coupled electron transfer. <i>Science China Chemistry</i> , 2022, 65, 1526-1531.	4.2	6
108	Deoxygenative alkylation of tertiary amides using alkyl iodides under visible light. <i>Science China Chemistry</i> , 2022, 65, 2231-2237.	4.2	10

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109	Switchable Radical Carbonylation by Philicity Regulation. <i>Journal of the American Chemical Society</i> , 2022, 144, 14923-14935.	6.6	31
110	Photocatalytic Hydroalkylation of Aryl-Alkenes. <i>Journal of Organic Chemistry</i> , 2022, 87, 11042-11047.	1.7	2
111	Synthesis and applications of thiosulfonates and selenosulfonates as free-radical reagents. <i>Chinese Chemical Letters</i> , 2023, 34, 107736.	4.8	33
112	Photoinduced Oxygen Transfer Using Nitroarenes for the Anaerobic Cleavage of Alkenes. <i>Journal of the American Chemical Society</i> , 2022, 144, 15437-15442.	6.6	48
113	Recent Advances in Light-Induced Selenylation. <i>ACS Organic & Inorganic Au</i> , 2022, 2, 455-463.	1.9	15
114	Direct photolysis of 4- <i>tert</i> -alkyl-1,4-dihydropyridines under blue-light irradiation for the generation of tertiary alkyl radicals. <i>Green Chemistry</i> , 2022, 24, 6845-6848.	4.6	3
115	Azodioxy compounds as precursors for C-radicals and their application in thermal styrene difunctionalization. <i>Chemical Science</i> , 2022, 13, 9749-9754.	3.7	2
116	Exploiting photoredox catalysis for carbohydrate modification through C-H and C-C bond activation. <i>Nature Reviews Chemistry</i> , 2022, 6, 782-805.	13.8	18
117	Halogen-atom and group transfer reactivity enabled by hydrogen tunneling. <i>Science</i> , 2022, 377, 1323-1328.	6.0	46
118	Chromium/Photoredox Dual-Catalyzed Synthesis of β -Benzylic Alcohols, Isochromanones, 1,2-Oxy Alcohols and 1,2-Thio Alcohols. <i>Angewandte Chemie - International Edition</i> , 0, , .	7.2	6
119	Chrom/Photoredox-dualkatalysierte Synthese von β -benzylichen Alkoholen, Isochromanonen, 1,2-Oxyalkoholen und 1,2-Thioalkoholen. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	0
120	Towards Enantiomerically Pure Unnatural β -Amino Acids via Photoredox Catalytic 1,4-Additions to a Chiral Dehydroalanine. <i>Journal of Organic Chemistry</i> , 2022, 87, 14308-14318.	1.7	2
121	Alkyl Radical Generation via C-C Bond Cleavage in 2-Substituted Oxazolidines. <i>ACS Catalysis</i> , 2022, 12, 12469-12476.	5.5	6
122	Visible-Light-Enabled Ph ₃ P/LiI-Promoted Tandem Radical Trifluoromethylation/Cyclization/Iodination of 1,6-Enynes with Togni's Reagent. <i>Journal of Organic Chemistry</i> , 2022, 87, 12877-12889.	1.7	8
123	Catalytic Generation of Radicals from Nitroalkanes. <i>Synlett</i> , 0, , .	1.0	3
124	Organophotoredox and Hydrogen Atom Transfer Cocatalyzed C-H Alkylation of Quinoxalin-2(1 <i>H</i>)-ones with Aldehydes, Amides, Alcohols, Ethers, or Cycloalkanes. <i>Journal of Organic Chemistry</i> , 2022, 87, 14580-14587.	1.7	6
126	Silyl-mediated photoredox-catalyzed radical-radical cross-coupling reaction of alkyl bromides and ketoesters. <i>Organic Chemistry Frontiers</i> , 2022, 9, 6611-6616.	2.3	2
127	C(sp ³) ³ -C(sp ³) ³ coupling of non-activated alkyl-iodides with electron-deficient alkenes via visible-light/silane-mediated alkyl-radical formation. <i>Chemical Science</i> , 2022, 13, 13241-13247.	3.7	15

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128	Dual role of benzophenone enables a fast and scalable C-4 selective alkylation of pyridines in flow. <i>Chemical Science</i> , 2022, 13, 12527-12532.	3.7	7
129	Organogermanium(<i>iv</i>) compounds in photo-induced radical reactions. <i>Organic Chemistry Frontiers</i> , 2022, 9, 7016-7027.	2.3	11
130	Alkylboronic acids as alkylating agents: photoredox-catalyzed alkylation reactions assisted by K_3PO_4 . <i>Chemical Science</i> , 2022, 13, 13466-13474.	3.7	11
131	Electrosynthetic C=O Bond Activation in Alcohols and Alcohol Derivatives. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	3
132	Photoredox/Ti Dual-Catalyzed Dehydroxylation of Cyclobutanone Oximes for Cyanoalkyl Radical Generation: Access to Cyanoalkyl-Substituted Oxindolines. <i>Advanced Synthesis and Catalysis</i> , 2022, 364, 3932-3940.	2.1	3
133	Photocatalytic Decarboxylative Pyridylation of Carboxylic Acids Using In Situ-Generated Amidyl Radicals as Oxidants. <i>ACS Catalysis</i> , 2022, 12, 13225-13233.	5.5	12
134	Electrosynthetic C=O Bond Activation in Alcohols and Alcohol Derivatives. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	15
135	Electrocatalytic Generation of Acyl Radicals and Their Applications. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	1.2	11
136	Photocatalytic Modular Cyanoalkylamination of Alkenes Involving Two Different Iminyl Radicals. <i>Organic Letters</i> , 2022, 24, 8019-8024.	2.4	17
137	Dual-Role Halogen-Bonding-Assisted EDA-SET/HAT Photoreaction System with Phenol Catalyst and Aryl Iodide: Visible-Light-Driven Carbon-Carbon Bond Formation. <i>Journal of Organic Chemistry</i> , 2022, 87, 15499-15510.	1.7	14
138	Merging dual photoredox/cobalt catalysis and boronic acid (derivatives) activation for the Minisci reaction. <i>Organic Chemistry Frontiers</i> , 2022, 9, 6958-6967.	2.3	6
139	Photocatalytic Cleavage of Trityl Protected Thiols and Alcohols. <i>Synthesis</i> , 2023, 55, 1367-1374.	1.2	1
140	Electrocatalytic synthesis: an environmentally benign alternative for radical-mediated aryl/alkenyl C_2-C_3 cross-coupling reactions. <i>Green Chemistry</i> , 2022, 24, 9373-9401.	4.6	17
141	Multiphotocatalyst Cascades: From Furans to Fused Butyrolactones and Substituted Cyclopentanones. <i>Organic Letters</i> , 2022, 24, 8786-8790.	2.4	3
142	Photocatalytic Alkyl Addition to Access Quaternary Alkynyl α -Amino Esters. <i>Organic Letters</i> , 2022, 24, 8870-8874.	2.4	3
143	Trifluoromethylation of Carbonyl and Unactivated Olefin Derivatives by C_3-C Bond Cleavage. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	16
144	Temperature-Assisted Generation of Arylmethyl Radicals from Bis(arylmethyl)tin Dichlorides: Efficient Reagents for Csp^3-Csp^2 Bond-Forming Reactions. <i>Chemistry - A European Journal</i> , 0, , .	1.7	0
145	Lewis Base-Boryl Radicals Enabled Borylation Reactions and Selective Activation of Carbon-Heteroatom Bonds. <i>Accounts of Chemical Research</i> , 2023, 56, 169-186.	7.6	29

#	ARTICLE	IF	CITATIONS
146	Trifluoromethylation of Carbonyl and Unactivated Olefin Derivatives by C(sp ³)-C Bond Cleavage. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	2
147	Visible-Light-Driven Solventylation Strategy for Olefin Functionalization. <i>ACS Omega</i> , 2022, 7, 48564-48571.	1.6	3
148	Persulfate-Mediated Oxidative C-H Functionalization of Glycinates to Access Diverse Unnatural Amino Acids. <i>European Journal of Organic Chemistry</i> , 2022, 2022, .	1.2	1
149	Effect of Arylazo Sulfones on DNA: Binding, Cleavage, Photocleavage, Molecular Docking Studies and Interaction with A375 Melanoma and Non-Cancer Cells. <i>International Journal of Molecular Sciences</i> , 2023, 24, 1834.	1.8	4
150	The Last Fortress of Tin's Tyranny – Protodenitration of Nitroalkanes. <i>European Journal of Organic Chemistry</i> , 2023, 26, .	1.2	1
151	Electrochemical synthesis of oxazoles via a phosphine-mediated deoxygenative [3 + 2] cycloaddition of carboxylic acids. <i>Green Chemistry</i> , 2023, 25, 1435-1441.	4.6	10
152	Generation and reaction of alanyl radicals in open flasks. <i>Chemical Communications</i> , 2023, 59, 2094-2097.	2.2	1
153	Contemporary photoelectrochemical strategies and reactions in organic synthesis. <i>Chemical Communications</i> , 2023, 59, 3487-3506.	2.2	11
154	Synthesis of Aryl Carbonyls via Photoinduced Formation of C-C Bonds. <i>ChemCatChem</i> , 2023, 15, .	1.8	1
155	Modulating stereoselectivity in allylic C(sp ³)-H bond arylations via nickel and photoredox catalysis. <i>Nature Communications</i> , 2023, 14, .	5.8	15
156	Organophotoredox-Catalyzed Oxidative C(sp ²)-H Alkylation of N-Heteroarenes with Dihydroquinazolinones by C-C Cleavage. <i>Synlett</i> , 2023, 34, 1241-1246.	1.0	9
157	Chlorine Atom Transfer of Unactivated Alkyl Chlorides Enabled by Zirconocene and Photoredox Catalysis. , 2023, 1, 112-118.		8
158	Aminals as powerful XAT-reagents: activation of fluorinated alkyl chlorides. <i>Chemical Science</i> , 2023, 14, 3229-3234.	3.7	7
159	Facile access to gem-difluorocyclopropanes via an N-heterocyclic carbene-catalyzed radical relay/cyclization strategy. <i>Organic Chemistry Frontiers</i> , 2023, 10, 1669-1674.	2.3	9
160	Visible-Light-Photocatalyzed Dicarbofunctionalization of Conjugated Alkenes with Ketone-Based Dihydroquinazolinones. <i>Organic Letters</i> , 2023, 25, 1441-1446.	2.4	10
161	Visible-Light Photoredox-Catalyzed Giese Reaction of Silyl Ethers with Various Michael Acceptors. <i>Journal of Organic Chemistry</i> , 2023, 88, 3555-3566.	1.7	2
162	Recent Advances in Electron Donor-Acceptor (EDA) Complex Reactions involving Quaternary Pyridinium Derivatives. <i>Advanced Synthesis and Catalysis</i> , 2023, 365, 1538-1564.	2.1	15
163	Photoinduced Metal-Free Decarboxylative Transformations: Rapid Access to Amines, Alkyl Halides, and Olefins. <i>European Journal of Organic Chemistry</i> , 2023, 26, .	1.2	1

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164	Visible-Light-Induced Radical <i>gem</i> -Iodoallylation of 2,2,2-Trifluorodiazethane. <i>Organic Letters</i> , 2023, 25, 1958-1962.	2.4	5
165	Carbon-centered radical capture at nickel(II) complexes: Spectroscopic evidence, rates, and selectivity. <i>Chem</i> , 2023, 9, 1295-1308.	5.8	23
166	Martin Silicates as Versatile Radical Precursors in Photoredox/ Nickel Dual Catalysis. <i>Synlett</i> , 0, , .	1.0	1
167	Design principles of the Use of alkynes in radical cascades. <i>Nature Reviews Chemistry</i> , 2023, 7, 405-423.	13.8	23
168	NHC-Catalyzed Synthesis of α -Sulfonyl Ketones via Radical-Mediated Sulfonyl Methylation of Aldehydes. <i>Organic Letters</i> , 2023, 25, 2657-2662.	2.4	11
169	Mesoionic Carbene-Catalyzed Formyl Alkylation of Aldehydes. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	14
170	Mesoionic Carbene-Catalyzed Formyl Alkylation of Aldehydes. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	0
177	Visible-Light Copper Catalysis for the Synthesis of α -Alkyl-Acetophenones by the Radical-Type Ring Opening of Sulfonium Salts and Oxidative Alkylation of Alkenes. <i>Organic Letters</i> , 2023, 25, 3260-3265.	2.4	5
178	Photoinduced Base-Metal Catalyzed sp^3 -C-Si Bond Activation of Organosilanols to Generate sp^3 -Carbon-Centered Radicals. <i>ACS Catalysis</i> , 2023, 13, 6879-6886.	5.5	1
209	Reduction of unactivated alkyl chlorides enabled by light-induced single electron transfer. <i>Science China Chemistry</i> , 2024, 67, 471-481.	4.2	1
211	Photo-induced radical transformations of tosyl cyanide. <i>Organic and Biomolecular Chemistry</i> , 2024, 22, 196-201.	1.5	1
228	Visible-light-mediated direct C3 alkylation of quinoxalin-2(1 <i>H</i>)-ones using alkanes. <i>Chemical Communications</i> , 2024, 60, 2409-2412.	2.2	0
235	Multicomponent Mannich and Related Reactions. , 2024, , .		0