

Dual Catalysis Strategies in Photochemical Synthesis

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Principles and Applications of Photoredox Catalysis: Trifluoromethylation and Beyond. Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry, 2016, 74, 1036-1046.	0.0	6
3	Synthesis and Photocatalytic Reactivity of Vinylsulfonium Ylides. Journal of Organic Chemistry, 2016, 81, 7201-7210.	1.7	19
4	Dual Photoredox/Gold Catalysis Arylative Cyclization of <i>o</i> -Alkynylphenols with Aryldiazonium Salts: A Flexible Synthesis of Benzofurans. Journal of Organic Chemistry, 2016, 81, 7182-7190.	1.7	79
5	Single-Electron Transmetalation via Photoredox/Nickel Dual Catalysis: Unlocking a New Paradigm for sp^3 - sp^2 Cross-Coupling. Accounts of Chemical Research, 2016, 49, 1429-1439.	7.6	564
6	Highly Fluorinated Ir(III)-2,2',6',2'-Terpyridine-Phenylpyridine-X Complexes via Selective C-F Activation: Robust Photocatalysts for Solar Fuel Generation and Photoredox Catalysis. Journal of the American Chemical Society, 2016, 138, 9460-9472.	6.6	58
7	9,10-Dicyanoanthracene Catalyzed Decarboxylative Alkynylation of Carboxylic Acids under Visible-Light Irradiation. Journal of Organic Chemistry, 2016, 81, 12357-12363.	1.7	53
8	Thiophenol-Catalyzed Visible-Light Photoredox Decarboxylative Couplings of <i>N</i> -(Acetoxy)phthalimides. Organic Letters, 2016, 18, 6400-6403.	2.4	82
9	Catalytic, Enantioselective Addition of Alkyl Radicals to Alkenes via Visible-Light-Activated Photoredox Catalysis with a Chiral Rhodium Complex. Journal of the American Chemical Society, 2016, 138, 6936-6939.	6.6	205
10	Anti-Markovnikov Oxidation of β -Alkyl Styrenes with H_2O as the Terminal Oxidant. Journal of the American Chemical Society, 2016, 138, 12037-12040.	6.6	148
11	Visible-Light-Induced Direct Oxidative C-H Amidation of Heteroarenes with Sulfonamides. Chemistry - A European Journal, 2016, 22, 15669-15673.	1.7	68
12	Direct and Oxidant-Free Electron-Deficient Arylation of <i>N</i> -Acyl-Protected Tetrahydroisoquinolines. Organic Letters, 2016, 18, 4686-4689.	2.4	36
13	Catalytic Asymmetric C-H Functionalization under Photoredox Conditions by Radical Translocation and Stereocontrolled Alkene Addition. Angewandte Chemie, 2016, 128, 13693-13696.	1.6	91
14	Unraveling the Key Features of the Reactive State of Decatungstate Anion in Hydrogen Atom Transfer (HAT) Photocatalysis. ACS Catalysis, 2016, 6, 7174-7182.	5.5	124
15	A Single Electron Transfer (SET) Approach to C-H Amidation of Hydrazones via Visible-Light Photoredox Catalysis. Organic Letters, 2016, 18, 5356-5359.	2.4	37
16	A visible-light-induced chemoselective radical/oxidative addition domino process to access β -chloro and β -alkoxy aryl ketones. Chemical Communications, 2016, 52, 13105-13108.	2.2	21
17	Catalytic Asymmetric C-H Functionalization under Photoredox Conditions by Radical Translocation and Stereocontrolled Alkene Addition. Angewandte Chemie - International Edition, 2016, 55, 13495-13498.	7.2	231
18	Photoredox Catalysis in Organic Chemistry. Journal of Organic Chemistry, 2016, 81, 6898-6926.	1.7	2,156
19	Editorial for the Special Issue on Photocatalysis. Journal of Organic Chemistry, 2016, 81, 6895-6897.	1.7	21

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21	Câ€“H functionalization of amines with aryl halides by nickel-photoredox catalysis. <i>Chemical Science</i> , 2016, 7, 7002-7006.	3.7	141
22	Nickel-Catalyzed Reductive Cross-Coupling of Aryl Bromides with Alkyl Bromides: Et₃N as the Terminal Reductant. <i>Organic Letters</i> , 2016, 18, 4012-4015.	2.4	133
23	Intermolecular Câ€“H Quaternary Alkylation of Aniline Derivatives Induced by Visible-Light Photoredox Catalysis. <i>Organic Letters</i> , 2016, 18, 4538-4541.	2.4	37
24	Asymmetric Catalysis with Organic Azides and Diazo Compounds Initiated by Photoinduced Electron Transfer. <i>Journal of the American Chemical Society</i> , 2016, 138, 12636-12642.	6.6	160
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31	Building Congested Ketone: Substituted Hantzsch Ester and Nitrile as Alkylation Reagents in Photoredox Catalysis. <i>Journal of the American Chemical Society</i> , 2016, 138, 12312-12315.	6.6	159
32	Highly Chemoselective Iridium Photoredox and Nickel Catalysis for the Crossâ€“Coupling of Primary Aryl Amines with Aryl Halides. <i>Angewandte Chemie</i> , 2016, 128, 13413-13417.	1.6	71
33	Enantioselective rhodium/ruthenium photoredox catalysis en route to chiral 1,2-aminoalcohols. <i>Chemical Communications</i> , 2016, 52, 10183-10186.	2.2	66
34	Highly Chemoselective Iridium Photoredox and Nickel Catalysis for the Crossâ€“Coupling of Primary Aryl Amines with Aryl Halides. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13219-13223.	7.2	166
35	Decarboxylative Alkylâ€“Alkyl Crossâ€“Coupling Reactions. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11340-11342.	7.2	52
36	Visible light-induced carbonylation of indoles with arylsulfonyl chlorides and CO. <i>Tetrahedron</i> , 2016, 72, 8442-8448.	1.0	32
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39	Decarboxylierende Alkyl- β -Kreuzkupplungen. <i>Angewandte Chemie</i> , 2016, 128, 11510-11512.	1.6	14
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43	Visible-Light Photoredox-Catalyzed Coupling Reaction of Azoles with β -Carbamoyl Sulfides. <i>Journal of Organic Chemistry</i> , 2016, 81, 7230-7236.	1.7	24
44	Recent Progress in Visible-Light Photoredox-Catalyzed Intermolecular 1,2-Difunctionalization of Double Bonds via an ATRA-Type Mechanism. <i>Journal of Organic Chemistry</i> , 2016, 81, 6945-6952.	1.7	250
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46	Cascade Photoredox/Iodide Catalysis: Access to Difluoro- β -lactams via Aminodifluoroalkylation of Alkenes. <i>Organic Letters</i> , 2016, 18, 3266-3269.	2.4	92
47	Engineering an iridium-containing metal-organic molecular capsule for induced-fit geometrical conversion and dual catalysis. <i>Chemical Communications</i> , 2016, 52, 9628-9631.	2.2	32
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49	Diastereoselective Synthesis of CF ₃ - and CF ₂ H-Substituted Spiroethers from Aryl-Fused Cycloalkenylalkanols by Photoredox Catalysis. <i>Journal of Organic Chemistry</i> , 2016, 81, 7064-7071.	1.7	65
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52	Synthesis of Fused Pyran Derivatives via Visible-Light-Induced Cascade Cyclization of 1,7-Enynes with Acyl Chlorides. <i>Organic Letters</i> , 2017, 19, 512-515.	2.4	101
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55	Visible-Light-Promoted Nickel- and Organic-Dye-Cocatalyzed Formylation Reaction of Aryl Halides and Triflates and Vinyl Bromides with Diethoxyacetic Acid as a Formyl Equivalent. <i>Angewandte Chemie</i> , 2017, 129, 1522-1527.	1.6	32

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56	Visible-Light-Promoted Nickel- and Organic-Dye-Cocatalyzed Formylation Reaction of Aryl Halides and Triflates and Vinyl Bromides with Diethoxyacetic Acid as a Formyl Equivalent. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1500-1505.	7.2	115
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72	Mild, visible light-mediated decarboxylation of aryl carboxylic acids to access aryl radicals. <i>Chemical Science</i> , 2017, 8, 3618-3622.	3.7	131
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75	Advances in Organocatalytic 1,6-Addition Reactions: Enantioselective Construction of Remote Stereogenic Centers. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 888-912.	2.1	197
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97	Enantioselective Michael Addition of Photogenerated <i>o</i> -Quinodimethanes to Enones Catalyzed by Chiral Amino Acid Esters. <i>Organic Letters</i> , 2017, 19, 2322-2325.	2.4	29
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100	Merging visible-light photoredox and copper catalysis in catalytic aerobic oxidation of amines to nitriles. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 328-332.	1.5	27
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111	Direct Visible-Light-Excited Asymmetric Lewis Acid Catalysis of Intermolecular [2+2] Photocycloadditions. <i>Journal of the American Chemical Society</i> , 2017, 139, 9120-9123.	6.6	203
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418	Visible light-induced 4-phenylthioxanthone-catalyzed aerobic oxidation of triarylphosphines. <i>Tetrahedron Letters</i> , 2018, 59, 3880-3883.	0.7	7
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1084	Visible light mediated synthesis of 4-aryl-1,2-dihydronaphthalene derivatives <i>via</i> single-electron oxidation or MHAT from methylenecyclopropanes. <i>Organic Chemistry Frontiers</i> , 2021, 8, 94-100.	2.3	14
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1086	Selective 1,2-Aminoisothiocyanation of 1,3-Dienes Under Visible-Light Photoredox Catalysis. <i>Angewandte Chemie</i> , 2021, 133, 4131-4135.	1.6	2
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1149	Visible-Light-Promoted Switchable Synthesis of C ₃ -Functionalized Quinoxalin(1 <i>H</i>)-ones. <i>Advanced Synthesis and Catalysis</i> , 2021, 363, 1443-1448.	2.1	25
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1363	Defluoroborylation Reactions of Fluoroarenes. <i>Yuki Gosei Kagaku Kyokaiishi/Journal of Synthetic Organic Chemistry</i> , 2019, 77, 883-894.	0.0	5
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1368	Photoredox Catalyzed Sulfonylation of Multisubstituted Allenes with Ru(bpy) ₃ Cl ₂ or Rhodamine B. <i>Journal of Organometallic Chemistry</i> , 2022, 957, 122125.	0.8	3
1369	Chiral Photocatalyst Structures in Asymmetric Photochemical Synthesis. <i>Chemical Reviews</i> , 2022, 122, 1654-1716.	23.0	179
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1379	Anti-Markovnikov hydro(amino)alkylation of vinylarenes via photoredox catalysis. <i>Nature Communications</i> , 2021, 12, 5956.	5.8	18
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1407	Deoxygenative Functionalizations of Aldehydes, Ketones and Carboxylic Acids. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	42
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1418	Recent Applications of Rare Earth Complexes in Photoredox Catalysis for Organic Synthesis. <i>Current Organic Chemistry</i> , 2022, 26, 6-41.	0.9	9
1419	Ternary Electron Donor-Acceptor Complex Enabled Enantioselective Radical Additions to α,β -Unsaturated Carbonyl Compounds. <i>ACS Catalysis</i> , 2021, 11, 14811-14818.	5.5	14

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1422	Photo-induced catalytic halopyridylation of alkenes. <i>Nature Communications</i> , 2021, 12, 6538.	5.8	23
1423	Generation of Oxyphosphonium Ions by Photoredox/Cobaloxime Catalysis for Scalable Amide and Peptide Synthesis in Batch and Continuous-Flow. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	30
1424	Mild Synthesis of 3,4-Dihydroisoquinolin-1(2 <i>H</i>)-ones via Rh(III)-Catalyzed Tandem C-H-Allylation/N-Alkylation Annulation with 2-Methylidenetriethylene Carbonate. <i>Journal of Organic Chemistry</i> , 2021, 86, 17063-17070.	1.7	5
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1426	Catalytic one-carbon homologation of α -amino acids to β -amino aldehydes. <i>Chem Catalysis</i> , 2021, 1, 1427-1436.	2.9	16
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1428	From Esters to Ketones via a Photoredox-Assisted Reductive Acyl Cross-Coupling Strategy. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	5
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1430	Syntheses of new chiral chimeric photo-organocatalysts. <i>RSC Advances</i> , 2021, 11, 36663-36669.	1.7	10
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1434	UV light-driven asymmetric vinylogous aldol reaction of isatins with 2-alkylbenzophenones and enantioselective synthesis of 3-hydroxyoxindoles. <i>Organic Chemistry Frontiers</i> , 2022, 9, 643-648.	2.3	4
1435	Photochemical and electrochemical C-N borylation of arylhydrazines. <i>Chemical Communications</i> , 2022, 58, 1716-1719.	2.2	8
1436	The Morita-Baylis-Hillman reaction for non-electron-deficient olefins enabled by photoredox catalysis. <i>Chemical Science</i> , 2022, 13, 1478-1483.	3.7	14
1437	Capturing Atom-Specific Electronic Structural Dynamics of Transition-Metal Complexes with Ultrafast Soft X-Ray Spectroscopy. <i>Annual Review of Physical Chemistry</i> , 2022, 73, 187-208.	4.8	6
1438	Light-enabled alkenylation of iodocarboranes with unactivated alkenes. <i>Dalton Transactions</i> , 2021, 51, 104-110.	1.6	8

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1448	Photoredox/nickel dual catalyzed stereospecific synthesis of distal alkenyl ketones. <i>Chemical Communications</i> , 2022, 58, 1171-1174.	2.2	10
1449	Allylic C(sp ³)-H arylation of olefins via ternary catalysis. , 2022, 1, 59-68.		22
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1453	Asymmetric synthesis of cyclic \hat{I}^2 -amino carbonyl derivatives by a formal [3 + 2] photocycloaddition. <i>Chemical Communications</i> , 2022, 58, 1334-1337.	2.2	17
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1455	Recent Advances in Visible-Light-Mediated Amide Synthesis. <i>Molecules</i> , 2022, 27, 517.	1.7	29
1456	One-Pot Dual Catalysis of a Photoactive Coordination Polymer and Palladium Acetate for the Highly Efficient Cross-Coupling Reaction via Interfacial Electron Transfer. <i>Inorganic Chemistry</i> , 2022, 61, 2695-2705.	1.9	8

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1458	Nickel-Mediated Enantioselective Photoredox Allylation of Aldehydes with Visible Light. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	32
1459	Visible-Light-Enabled Allylic C-H Oxidation: Metal-free Photocatalytic Generation of Enones. <i>ACS Catalysis</i> , 2022, 12, 1375-1381.	5.5	19
1460	Pyrylium salts acting as both energy transfer and electron transfer photocatalysts for <i>E</i> → <i>Z</i> isomerization of activated alkenes and cyclization of cinnamic or biaryl carboxylic acids. <i>Organic Chemistry Frontiers</i> , 2022, 9, 973-978.	2.3	7
1461	Direct decarboxylative Giese reactions. <i>Chemical Society Reviews</i> , 2022, 51, 1415-1453.	18.7	87
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1463	Single-Operation Decarboxylative Mannich Reaction/Asymmetric Transfer Hydrogenation Cascade Process Directly Accesses 1,3-Distereocentered β -Sulfonamido Alcohols. <i>Advanced Synthesis and Catalysis</i> , 2022, 364, 994-1001.	2.1	3
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1466	Hexafluoroisopropanol-Promoted or Brønsted Acid-Mediated Photochemical [2+2] Cycloadditions of Alkynes with Maleimides. <i>ChemSusChem</i> , 2022, 15, .	3.6	18
1467	Development of a high intensity parallel photoreactor for high throughput screening. <i>Reaction Chemistry and Engineering</i> , 2022, 7, 354-360.	1.9	18
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1469	A nickel/organoboron catalyzed metallaphotoredox platform for $C(sp^2)$ → $C(sp^2)$ C-P and C-S bond construction. <i>Organic Chemistry Frontiers</i> , 2022, 9, 1070-1076.	2.3	11
1470	A Photocatalytic System Composed of Benzimidazolium Aryloxide and Tetramethylpiperidine 1-Oxyl to Promote Desulfonylative β -Oxyamination Reactions of β -Sulfonylketones. <i>ACS Omega</i> , 2022, 7, 4655-4666.	1.6	6
1471	The advent and development of organophotoredox catalysis. <i>Chemical Communications</i> , 2022, 58, 1263-1283.	2.2	78
1472	Visible-Light-Induced, Graphene Oxide-Promoted C3-Chalcogenylation of Indoles Strategy under Transition-Metal-Free Conditions. <i>Molecules</i> , 2022, 27, 772.	1.7	10
1473	Remote $C(sp^3)$ → $C(sp^3)$ H Acylation of Amides and Cascade Cyclization via N-Heterocyclic Carbene Organocatalysis. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	5
1474	Irradiation with UV Light Accelerates the Migita-Kosugi-Stille Coupling Reaction in Air. <i>Chemistry Letters</i> , 2022, 51, 124-126.	0.7	1

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1476	Recent advances in glycosylation involving novel anomeric radical precursors. <i>Journal of Carbohydrate Chemistry</i> , 2021, 40, 361-400.	0.4	22
1477	Recent advances of visible-light photocatalysis in the functionalization of organic compounds. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2022, 50, 100488.	5.6	64
1478	Remote C(sp ³)-H Acylation of Amides and Cascade Cyclization via N-Heterocyclic Carbene Organocatalysis. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	45
1479	Recent advances in radical-mediated transformations of 1,3-dienes. <i>Chinese Journal of Catalysis</i> , 2022, 43, 548-557.	6.9	45
1480	Photocatalytic redox-neutral reaction of β -indolyl α -keto esters. <i>Organic Chemistry Frontiers</i> , 2022, 9, 1875-1883.	2.3	2
1481	Unimolecular cooperative metallaphotocatalysis with conjugately bridged Ir-Ni complexes and its applications in organic coupling reactions. <i>Organic Chemistry Frontiers</i> , 2022, 9, 1797-1807.	2.3	7
1482	Development of anthrazoline photocatalysts for promoting amination and amidation reactions. <i>Chemical Communications</i> , 2022, 58, 3529-3532.	2.2	7
1483	Thermoneutral synthesis of spiro-1,4-cyclohexadienes by visible-light-driven dearomatization of benzylmalonates. <i>Green Chemistry</i> , 2022, 24, 2772-2776.	4.6	8
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1487	Visible-light photocatalysis promoted by solid- and liquid-phase immobilized transition metal complexes in organic synthesis. <i>Coordination Chemistry Reviews</i> , 2022, 458, 214331.	9.5	22
1488	Combined Photoredox and Carbene Catalysis for the Synthesis of α -Amino Ketones from Carboxylic Acids. <i>ACS Catalysis</i> , 2022, 12, 2522-2531.	5.5	38
1489	Stereoselective, Ruthenium-Photocatalyzed Synthesis of 1,2-Diaminotruxinic Bis-amino Acids from 4-Arylidene-5(4H)-oxazolones. <i>Journal of Organic Chemistry</i> , 2022, , .	1.7	6
1490	Organoboronic Acids: A Chance for Improving Photochemistry. <i>Current Organic Chemistry</i> , 2022, 26, 348-355.	0.9	1
1491	Alkynyl Sulfonium Salts Can Be Employed as Chalcogen-Bonding Catalysts and Generate Alkynyl Radicals under Blue-Light Irradiation. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	36
1492	Alkynyl Sulfonium Salts Can Be Employed as Chalcogen-Bonding Catalysts and Generate Alkynyl Radicals under Blue-Light Irradiation. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	8

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1494	Application of bioorganometallic B12 in green organic synthesis. <i>Vitamins and Hormones</i> , 2022, 119, 23-42.	0.7	1
1495	Visible-light-mediated intramolecular radical cyclization of β -brominated amide-tethered alkylidenecyclopropanes. <i>Chemical Communications</i> , 2022, 58, 3653-3656.	2.2	10
1496	Visible-light induced dearomatization reactions. <i>Chemical Society Reviews</i> , 2022, 51, 2145-2170.	18.7	122
1497	Phosphorescent Ir(III) complexes derived from purine nucleobases. <i>Dalton Transactions</i> , 2022, 51, 5138-5150.	1.6	7
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1591	Chromophore-Inspired Design of Pyridinium-Based Metal-Organic Polymers for Dual Photoredox Catalysis. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	12
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1768	A Visible Light Driven Nickel Carbonylation Catalyst: The Synthesis of Acid Chlorides from Alkyl Halides. <i>Angewandte Chemie</i> , 2023, 135, .	1.6	1
1769	Visible-light-promoted synthesis of <i>gem</i> -dihaloenones. <i>Green Chemistry</i> , 2023, 25, 1191-1200.	4.6	6

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1771	Visible light mediated organocatalytic dehydrogenative aza-coupling of 1,3-diones using aryldiazonium salts. <i>RSC Advances</i> , 2023, 13, 3147-3154.	1.7	1
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1780	Metal-free photosensitized radical relay 1,4-carboimination across two distinct olefins. <i>Chemical Science</i> , 2023, 14, 2447-2454.	3.7	17
1781	Molecular Engineering of Metal-Organic Layers for Sustainable Tandem and Synergistic Photocatalysis. <i>Journal of the American Chemical Society</i> , 2023, 145, 4158-4165.	6.6	8
1782	Complexity-Building Photoinduced Cascade Involving $\text{C}(\text{sp}^2)\text{-C}(\text{sp}^3)$ Coupling of Aromatic Amides via [2 + 2] Reactivity of ESIP-Generated <i>o</i> -Azaxylylenes. <i>Organic Letters</i> , 2023, 25, 1131-1135.	2.4	2
1783	Kinetic Resolution of 2-Cinnamylpyrrolines Enabled by Photoexcited Chiral Copper Complex-Mediated Alkene $\text{E} \rightarrow \text{Z}$ Isomerization. <i>ACS Catalysis</i> , 2023, 13, 2857-2866.	5.5	6
1784	Construction of gel networks via [2+2] photocycloaddition. <i>Journal of Materials Chemistry C</i> , 2023, 11, 2826-2830.	2.7	1
1785	Directed Photochemically Mediated Nickel-Catalyzed (Hetero)arylation of Aliphatic C-H Bonds. <i>Journal of the American Chemical Society</i> , 2023, 145, 3882-3890.	6.6	4
1786	Taming Challenging Radical-Based Convergent Paired Electrolysis with Dual-Transition-Metal Catalysis. <i>Synlett</i> , 2023, 34, 1549-1553.	1.0	3
1787	Electrochemical Cycloaddition Reactions of Alkene Radical Cations: A Route toward Cyclopropanes and Cyclobutanes. <i>Organic Letters</i> , 2023, 25, 1142-1146.	2.4	2
1788	Sunlight- or UVA-Mediated Synthesis of Hydroxamic Acids from Carboxylic Acids. <i>European Journal of Organic Chemistry</i> , 2023, 26, .	1.2	7

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