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Visible light photoredox catalysis with transition metal complexes: applications in organic synthesis

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2035	Rhodium(III)-catalyzed three-component reaction of imines, alkynes, and aldehydes through C-H activation. <b>2014</b> , 20, 16882-6	44
2034	A unique 1,2-acyl migration for the construction of quaternary carbon by visible light irradiation of platinum(II) polypyridyl complex and molecular oxygen. <b>2014</b> , 16, 5968-71	49
2033	Synthesis of 2-Substituted Indoles through Visible Light-Induced Photocatalytic Cyclizations of Styryl Azides. <b>2014</b> , 356, 2807-2812	53
2032	Visible Light-Mediated Coupling of $\beta$ -Bromo chalcones with Alkenes. <b>2014</b> , 356, 2853-2858	29
2031	Oxidative catalysis using the stoichiometric oxidant as a reagent: an efficient strategy for single-electron-transfer-induced tandem anion-radical reactions. <b>2014</b> , 53, 9944-8	40
2030	Perylene as an Organic Photocatalyst for the Radical Polymerization of Functionalized Vinyl Monomers through Oxidative Quenching with Alkyl Bromides and Visible Light. <b>2014</b> , 47, 8255-8261	251
2029	A conjugated porous poly-benzobisthiadiazole network for a visible light-driven photoredox reaction. <b>2014</b> , 2, 18720-18724	78
2028	Photoredox catalysis in a complex pharmaceutical setting: toward the preparation of JAK2 inhibitor LY2784544. <b>2014</b> , 79, 11631-43	71

2027	Tuning the emission lifetime in bis-cyclometalated iridium(III) complexes bearing iminopyrene ligands. <b>2014</b> , 53, 11882-9	25
2026	Photodriven Transfer Hydrogenation of Olefins. <b>2014</b> , 2014, 7347-7352	10
2025	Intramolecular [3 + 2]-cycloadditions of azomethine ylides derived from secondary amines via redox-neutral C-H functionalization. <b>2014</b> , 16, 5910-3	57
2024	Recent advances of transition-metal catalyzed radical oxidative cross-couplings. <b>2014</b> , 47, 3459-70	278
2023	Visible-light photocatalytic oxidation of 1,3-dicarbonyl compounds and carbon-carbon bond formation. <b>2014</b> , 1, 551	18
2022	Photoredox catalyst-mediated atom transfer radical addition for polymer functionalization under visible light. <b>2014</b> , 5, 3321-3325	35
2021	Selective difluoroalkylation of alkenes by using visible light photoredox catalysis. <b>2014</b> , 50, 12884-7	194
2020	Insight into highly selective photocatalytic oxidation of alcohols by a new trinuclear ruthenium complex with visible light. <b>2014</b> , 43, 306-10	24
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2018	An easy access to unsymmetrical ureas: a photocatalytic approach to the Lossen rearrangement. <b>2014</b> , 4, 24498	28
2017	Total syntheses of menisporphine and daurioxoisoporphine C enabled by photoredox-catalyzed direct C-H arylation of isoquinoline with aryldiazonium salt. <b>2014</b> , 79, 10682-8	68
2016	Recent progress in transition-metal-catalyzed trifluoromethylation of olefins using electrophilic CF <sub>3</sub> reagents. <b>2014</b> , 167, 30-36	70
2015	Photocatalytic generation of N-centered hydrazone radicals: a strategy for hydroamination of $\alpha,\beta$ -unsaturated hydrazones. <b>2014</b> , 53, 12163-7	233
2014	Organic synthetic transformations using organic dyes as photoredox catalysts. <b>2014</b> , 12, 6059-71	322
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2011	An approach to 6-trifluoromethyl-phenanthridines through visible-light-mediated intramolecular radical cyclization of trifluoroacetimidoyl chlorides. <b>2014</b> , 4, 17226	33
2010	Iridium(III) dipyrindylamine complexes: synthesis, characterization and catalytic activities in photoredox reactions. <b>2014</b> , 1, 639	17

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2007	Synthesis of nitrogen heterocycles via $\alpha$ -aminoalkyl radicals generated from $\alpha$ -silyl secondary amines under visible light irradiation. <b>2014</b> , 50, 8900-3	46
2006	Light-mediated, palladium-catalyzed cyclizations of unactivated 1,6-dienes. <b>2014</b> , 1, 919-923	2
2005	Regiospecific Synthesis of 1-Trifluoromethylisoquinolines Enabled by Photoredox Homophilic Vinyl Isocyanide Insertion. <b>2014</b> , 356, 2859-2866	53
2004	Influence of redox non-innocent phenylenediamido ligands on chromium imido hydrogen-atom abstraction reactivity. <b>2014</b> , 50, 9958-60	27
2003	Sunlight photocatalyzed regioselective $\alpha$ -alkylation and acylation of cyclopentanones. <b>2014</b> , 5, 2893-2898	112
2002	From the mole to the molecule—ruthenium catalyzed nitroarene reduction studied with Bench <sup>TM</sup> high-throughput and single molecule fluorescence techniques. <b>2014</b> , 4, 1989-1996	18
2001	A new organocatalytic concept for asymmetric $\alpha$ -alkylation of aldehydes. <b>2014</b> , 136, 15929-32	218
2000	Dicyanopyrazine-derived push-pull chromophores for highly efficient photoredox catalysis. <b>2014</b> , 4, 30062-30067	3
1999	Catalytic asymmetric direct $\alpha$ -alkylation of amino esters by aldehydes via imine activation. <b>2014</b> , 5, 1988	66
1998	Regiospecific Minisci acylation of phenanthridine via thermolysis or photolysis. <b>2014</b> , 55, 6647-6651	36
1997	A single-step emulsion approach to prepare fluorescent nanoscale coordination polymers for bioimaging. <b>2014</b> , 4, 14803-14806	3
1996	Photoredox catalytic organic reactions promoted with broadband visible light-absorbing Bodipy-iodo-aza-Bodipy triad photocatalyst. <b>2014</b> , 4, 36131-36139	37
1995	Luminescent monocyclometalated cationic gold(III) complexes: synthesis, photophysical characterization and catalytic investigations. <b>2014</b> , 43, 11959-72	26
1994	Phenazinium salt-catalyzed aerobic oxidative amidation of aromatic aldehydes. <b>2014</b> , 16, 5812-5	80
1993	Synthesis of highly functionalized polycyclic quinoxaline derivatives using visible-light photoredox catalysis. <b>2014</b> , 53, 14451-5	111
1992	Metal-free atom transfer radical polymerization. <b>2014</b> , 136, 16096-101	637

1991	Metal-free, visible-light photoredox catalysis: transformation of arylmethyl bromides to alcohols and aldehydes. <b>2014</b> , 4, 49974-49978	16
1990	Visible light-mediated dehydrogenative $\alpha$ -arylsulfonylation of tertiary aliphatic amines with arylsulfonyl chlorides. <b>2014</b> , 12, 9337-40	18
1989	A 3-pyridyl-5,15-diazaporphyrin nickel(II) complex as a bidentate metalloligand for transition metals. <b>2014</b> , 53, 13924-7	23
1988	Oxidative photoredox-catalytic activation of aliphatic nucleophiles for C(sp <sup>3</sup> )-C(sp <sup>2</sup> ) cross-coupling reactions. <b>2014</b> , 53, 13326-8	40
1987	Recent progress in direct introduction of fluorinated groups on alkenes and alkynes by means of C-H bond functionalization. <b>2014</b> , 20, 16830-45	201
1986	Visible-light-mediated efficient conversion of aldoximes and primary amides into nitriles. <b>2014</b> , 4, 4181-4186	41
1985	Controlling the excited state and photosensitizing property of a 2-(2-pyridyl)benzo[b]thiophene-based cationic iridium complex through simple chemical modification. <b>2014</b> , 53, 2983-95	47
1984	Divergent reaction: metal & oxidant free direct C $\alpha$ aryloxylation and hydride free formal reductive N-benzylation of N-heterocycles. <b>2014</b> , 4, 46214-46217	33
1983	Amine $\alpha$ -heteroarylation photoredox catalysis: a homolytic aromatic substitution pathway. <b>2014</b> , 5, 4173-4178	131
1982	Visible light photoredox-catalysed intermolecular radical addition of $\alpha$ -halo amides to olefins. <b>2014</b> , 50, 3619-22	60
1981	Copper in Photocatalysis. <b>2014</b> , 6, 2477-2483	204
1980	Visible light driven photocatalytic oxidation of thiols to disulfides using iron phthalocyanine immobilized on graphene oxide as a catalyst under alkali free conditions. <b>2014</b> , 4, 50331-50337	59
1979	Redox and Photochemistry of Bis(terpyridine)ruthenium(II) Amino Acids and Their Amide Conjugates [From Understanding to Applications]. <b>2014</b> , 2014, 5468-5490	61
1978	How are radicals (re)generated in photochemical ATRP?. <b>2014</b> , 136, 13303-12	216
1977	Visible-Light-Mediated Decarboxylation/Oxidative Amidation of $\alpha$ -Keto Acids with Amines under Mild Reaction Conditions Using O <sub>2</sub> . <b>2014</b> , 126, 512-516	87
1976	Exclusive selectivity in the one-pot formation of C-C and C-Se bonds involving Ni-catalyzed alkyne hydroselenation: optimization of the synthetic procedure and a mechanistic study. <b>2014</b> , 79, 12111-21	18
1975	Chemo-, regio-, and stereoselective trifluoromethylation of styrenes via visible light-driven single-electron transfer (SET) and triplet-triplet energy transfer (TTET) processes. <b>2014</b> , 79, 10434-46	110
1974	Direct photocatalysis for organic synthesis by using plasmonic-metal nanoparticles irradiated with visible light. <b>2014</b> , 9, 3046-64	74

1973	Evaluating Thiourea Architecture for Intramolecular [2+2] Photocycloaddition of 4-Alkenylcoumarins. <b>2014</b> , 356, 2763-2768	35
1972	Visible-light-induced direct C(sp <sup>3</sup> )-H difluoromethylation of tetrahydroisoquinolines with the in situ generated difluoroenolates. <b>2014</b> , 50, 7521-3	59
1971	Physicochemical analysis of ruthenium(II) sensitizers of 1,2,3-triazole-derived mesoionic carbene and cyclometalating ligands. <b>2014</b> , 53, 2083-95	72
1970	Synthesis of isoquinolines via visible light-promoted insertion of vinyl isocyanides with diaryliodonium salts. <b>2014</b> , 50, 6164-7	97
1969	Photoredox-catalyzed tandem radical cyclization of N-arylacrylamides: general methods to construct fluorinated 3,3-disubstituted 2-oxindoles using fluoroalkylsulfonyl chlorides. <b>2014</b> , 16, 4594-7	223
1968	Photocatalytic Synthesis of Dihydrobenzofurans by Oxidative [3+2] Cycloaddition of Phenols. <b>2014</b> , 126, 11236-11239	23
1967	Highly efficient cycloreversion of photochromic dithienylethene compounds using visible light-driven photoredox catalysis. <b>2014</b> , 5, 1463	35
1966	Functional materials from self-assembled bis-urea macrocycles. <b>2014</b> , 47, 2116-27	106
1965	Photocatalytic organic transformation by layered double hydroxides: highly efficient and selective oxidation of primary aromatic amines to their imines under ambient aerobic conditions. <b>2014</b> , 50, 6664-7	63
1964	Visible light-induced intermolecular radical addition: facile access to $\alpha$ -ketoesters from alkyl-bromocarboxylates and enamines. <b>2014</b> , 50, 13547-50	28
1963	Decarboxylative allylation of amino alkanolic acids and esters via dual catalysis. <b>2014</b> , 136, 13606-9	153
1962	Visible-light-mediated trifluoroethylation of 2-isocyanobiaryl with trifluoroethyl iodide: Synthesis of 6-trifluoroethyl-phenanthridines. <b>2014</b> , 168, 50-54	23
1961	Chemoselective aerobic photo-oxidation of 9H-fluorenes for the synthesis of 9-fluorenones. <b>2014</b> , 55, 4736-4738	24
1960	Photocatalytic aerobic oxidation/semipinacol rearrangement sequence: a concise route to the core of pseudoindoxyl alkaloids. <b>2014</b> , 55, 4648-4652	76
1959	Catalysis. Self-control tames the coupling of reactive radicals. <b>2014</b> , 345, 381-2	15
1958	New highly electrodeficient cationic fluorescent tetrazines: a step toward the strongest purely organic photooxidants. <b>2014</b> , 38, 3401	10
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1956	Recent Applications of Organic Dyes as Photoredox Catalysts in Organic Synthesis. <b>2014</b> , 4, 355-360	613

1955	Hydrofunktionalisierung mit unüblicher Regioselektivität. <b>2014</b> , 62, 869-872	
1954	Visible Light-Induced Aromatic Difluoroalkylation. <b>2014</b> , 356, 2741-2748	136
1953	Expedient preparation of nazlinine and a small library of indole alkaloids using flow electrochemistry as an enabling technology. <b>2014</b> , 16, 4618-21	71
1952	Photocatalytic synthesis of dihydrobenzofurans by oxidative [3+2] cycloaddition of phenols. <b>2014</b> , 53, 11056-9	91
1951	Photocatalytic decarboxylative reduction of carboxylic acids and its application in asymmetric synthesis. <b>2014</b> , 16, 4228-31	119
1950	Photoredox-induced three-component azido- and aminotrifluoromethylation of alkenes. <b>2014</b> , 16, 4340-3	154
1949	Visible light organophotoredox catalysis: a general approach to $\alpha$ -keto sulfoxidation of alkenes. <b>2014</b> , 16, 3986	145
1948	Aqueous photoinduced living/controlled polymerization: tailoring for bioconjugation. <b>2014</b> , 5, 3568	161
1947	Intermolecular Conjugate Addition of Pyrroloindoline and Furoindoline Radicals to $\alpha,\beta$ -Unsaturated Enones via Photoredox Catalysis. <b>2014</b> , 356, 2867-2872	25
1946	Intermolecular [3+2] Annulation of Cyclopropylanilines with Alkynes, Enynes, and Dienes via Visible Light Photocatalysis. <b>2014</b> , 356, 2831-2837	42
1945	Highly efficient and selective photocatalytic hydrogenation of functionalized nitrobenzenes. <b>2014</b> , 16, 1082-1086	140
1944	A visible-light-promoted aerobic metal-free C-3 thiocyanation of indoles. <b>2014</b> , 79, 10588-92	150
1943	Visible light-promoted metal-free sp <sup>3</sup> -C-H fluorination. <b>2014</b> , 50, 11701-4	94
1942	Visible light photoredox catalysis: aerobic oxidation of perimidines to perimidinones. <b>2014</b> , 70, 8219-8225	19
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1940	A Cascade Cross-Coupling and in Situ Hydrogenation Reaction by Visible Light Catalysis. <b>2014</b> , 356, 2846-2852	44
1939	Photochemical transformations accelerated in continuous-flow reactors: basic concepts and applications. <b>2014</b> , 20, 10562-89	348
1938	Contemporary screening approaches to reaction discovery and development. <b>2014</b> , 6, 859-71	150



1937	Enlightened state. <b>2014</b> , 10, 476-477	8
1936	One pot and selective intermolecular aryl- and heteroaryl-trifluoromethylation of alkenes by photoredox catalysis. <b>2014</b> , 50, 14197-200	98
1935	Infrared vibrational spectroscopy of [Ru(bpy) <sub>2</sub> (bpm)] <sup>2+</sup> and [Ru(bpy) <sub>3</sub> ] <sup>2+</sup> in the excited triplet state. <b>2014</b> , 53, 2481-90	32
1934	Visible Light Photoredox Catalyzed Cascade Cyclizations of $\beta$ -Bromochalcones or $\beta$ -Bromocinnamates with Heteroarenes. <b>2014</b> , 356, 557-562	55
1933	Photoredox $\beta$ -vinylation of $\beta$ -amino acids and N-aryl amines. <b>2014</b> , 136, 11602-5	295
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1930	Organometallics Roundtable 2013-2014. <b>2014</b> , 33, 1505-1527	23
1929	Visible-light photoredox-mediated oxidation of N-methyl tertiaryamines under catalyst free conditions: Direct synthesis of methylene-bridged bis-1,3-dicarbonyl compounds. <b>2014</b> , 25, 545-548	11
1928	Highly regio- and diastereoselective synthesis of CF <sub>3</sub> -substituted lactones via photoredox-catalyzed carbolactonization of alkenoic acids. <b>2014</b> , 16, 780-3	139
1927	Continuous flow $\beta$ -trifluoromethylation of ketones by metal-free visible light photoredox catalysis. <b>2014</b> , 16, 896-9	125
1926	Synthesis and photophysical studies of self-assembled multicomponent supramolecular coordination prisms bearing porphyrin faces. <b>2014</b> , 111, 9390-5	47
1925	Enantioselective biomimetic total syntheses of kuwanons I and J and brosimones A and B. <b>2014</b> , 53, 9257-61	29
1924	Light-driven organocatalysis using inexpensive, nontoxic Bi <sub>2</sub> O <sub>3</sub> as the photocatalyst. <b>2014</b> , 53, 9613-6	106
1923	Synthesis of (-)-pseudotabersonine, (-)-pseudovincadifformine, and (+)-coronaridine enabled by photoredox catalysis in flow. <b>2014</b> , 136, 10270-3	129
1922	De novo synthesis of imidazoles by visible-light-induced photocatalytic aerobic oxidation/[3+2] cycloaddition/aromatization cascade. <b>2014</b> , 9, 2432-5	45
1921	Direct C-F bond formation using photoredox catalysis. <b>2014</b> , 136, 2637-41	174
1920	Metal-free trifluoromethylation of aromatic and heteroaromatic aldehydes and ketones. <b>2014</b> , 79, 7122-31	60

1919	Trifluoromethylation by Visible-Light-Driven Photoredox Catalysis. <b>2014</b> , 57, 967-974	206
1918	Methods for direct generation of $\beta$ -alkyl-substituted aldehydes. <b>2014</b> , 70, 2207-2236	34
1917	Synthesis of (Poly)fluorobiphenyls through Metal-catalyzed C-H Bond Activation/Arylation of (Poly)fluorobenzene Derivatives. <b>2014</b> , 6, 1824-1859	76
1916	Galactic wave mechanics. <b>2014</b> , 10, 477-478	
1915	Iodotrifluoromethylation of alkenes and alkynes with sodium trifluoromethanesulfinate and iodine pentoxide. <b>2014</b> , 16, 3648-51	116
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1912	The coupling of tertiary amines with acrylate derivatives via visible-light photoredox catalysis. <b>2014</b> , 79, 7212-9	63
1911	Hydroaminomethylation of Olefins with Aminomethyltrifluoroborate by Photoredox Catalysis. <b>2014</b> , 356, 2749-2755	87
1910	Direct $sp^3$ C-H acroleination of N-aryl-tetrahydroisoquinolines by merging photoredox catalysis with nucleophilic catalysis. <b>2014</b> , 12, 2037-40	53
1909	Photoorganocatalytic hydroacylation of dialkyl azodicarboxylates by utilising activated ketones as photocatalysts. <b>2014</b> , 20, 13811-4	51
1908	A noble-metal-free, tetra-nickel polyoxotungstate catalyst for efficient photocatalytic hydrogen evolution. <b>2014</b> , 136, 14015-8	165
1907	Regioselective Ring-Opening Nucleophilic Addition of Aziridines through Photoredox Catalyst. <b>2014</b> , 356, 2775-2780	31
1906	A metal free domino synthesis of 3-aryloindoles via two $sp^3$ C-H activation. <b>2014</b> , 50, 10445-7	51
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1904	The electron is a catalyst. <b>2014</b> , 6, 765-73	459
1903	A mild and fast photocatalytic trifluoromethylation of thiols in batch and continuous-flow. <b>2014</b> , 5, 4768-4773	90
1902	Visible-light-promoted redox neutral C-H amidation of heteroarenes with hydroxylamine derivatives. <b>2014</b> , 16, 3504-7	126

1901	Selective fluorination of alkyl C-H bonds via photocatalysis. <b>2014</b> , 50, 8211-4	118
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1899	Carbonylation reactions of alkyl iodides through the interplay of carbon radicals and Pd catalysts. <b>2014</b> , 47, 1563-74	299
1898	Vicinal difunctionalization of alkenes: chlorotrifluoromethylation with CF <sub>3</sub> SO <sub>2</sub> Cl by photoredox catalysis. <b>2014</b> , 16, 1310-3	193
1897	Synthesis of 3-acylindoles by visible-light induced intramolecular oxidative cyclization of o-alkynylated N,N-dialkylamines. <b>2014</b> , 16, 3264-7	80
1896	Visible-light-promoted radical C-H trifluoromethylation of free anilines. <b>2014</b> , 16, 1768-71	101
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1889	Redox-neutral $\beta$ -sulfenylation of secondary amines: ring-fused N,S-acetals. <b>2014</b> , 16, 3556-9	58
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1881	Visible light-mediated C-H difluoromethylation of electron-rich heteroarenes. <b>2014</b> , 16, 2958-61	162
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1878	Visible-light photoredox catalysis enabled bromination of phenols and alkenes. <b>2014</b> , 10, 622-7	31
1877	Visible-light photoredox catalyzed synthesis of pyrroloisoquinolines via organocatalytic oxidation/[3 + 2] cycloaddition/oxidative aromatization reaction cascade with Rose Bengal. <b>2014</b> , 10, 1233-8	62
1876	Visible-light-induced, Ir-catalyzed reactions of N-methyl-N-((trimethylsilyl)methyl)aniline with cyclic $\alpha,\beta$ -unsaturated carbonyl compounds. <b>2014</b> , 10, 890-6	17
1875	3. Continuous-flow photochemistry in microstructured environment. <b>2014</b> , 63-98	1
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1872	Late-Stage Functionalization of Biologically Active Heterocycles Through Photoredox Catalysis. <b>2014</b> , 126, 4902-4906	102
1871	A 3-Pyridyl-5,15-Diazaporphyrin Nickel(II) Complex as a Bidentate Metalloligand for Transition Metals. <b>2014</b> , 126, 14144-14147	11
1870	Synthesis of Highly Functionalized Polycyclic Quinoxaline Derivatives Using Visible-Light Photoredox Catalysis. <b>2014</b> , 126, 14679-14683	18
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1868	C-H-Funktionalisierung über intramolekularen Hydridtransfer. <b>2014</b> , 126, 5110-5137	58
1867	Die photoredoxkatalysierte Meerwein-Addition: intermolekulare Aminoarylierung von Alkenen. <b>2014</b> , 126, 743-747	51
1866	Visible-Light-Mediated Generation of Nitrogen-Centered Radicals: Metal-Free Hydroimination and Iminoxylation Cyclization Reactions. <b>2015</b> , 127, 14223-14227	107

1865	Three-Component Azidation of Styrene-Type Double Bonds: Light-Switchable Behavior of a Copper Photoredox Catalyst. <b>2015</b> , 54, 11481-4	154
1864	Visible-Light-Mediated Generation of Nitrogen-Centered Radicals: Metal-Free Hydroimination and Iminohydroxylation Cyclization Reactions. <b>2015</b> , 54, 14017-21	279
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1858	Effective Energy Transfer via Plasmon-Activated High-Energy Water Promotes Its Fundamental Activities of Solubility, Ionic Conductivity, and Extraction at Room Temperature. <b>2015</b> , 5, 18152	12
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1854	Visible-Light-Induced Meerwein Cascade Reactions for the Preparation of $\beta$ -Aryl Esters. <b>2015</b> , 2015, 5775-5780	10
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1850	Enantioselective $\beta$ -Alkylation of Aldehydes by Photoredox Organocatalysis: Rapid Access to Pharmacophore Fragments from $\beta$ -Cyanoaldehydes. <b>2015</b> , 127, 9804-9808	24
1849	Practical Electrochemical Anodic Oxidation of Polycyclic Lactams for Late Stage Functionalization. <b>2015</b> , 127, 10701-10704	14
1848	Practical Electrochemical Anodic Oxidation of Polycyclic Lactams for Late Stage Functionalization. <b>2015</b> , 54, 10555-8	60

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1828	Aerobic Asymmetric Dehydrogenative Cross-Coupling between Two C-H Groups Catalyzed by a Chiral-at-Metal Rhodium Complex. <b>2015</b> , 127, 13237-13240	32
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1805	Controllable Chemoselectivity in Visible-Light Photoredox Catalysis: Four Diverse Aerobic Radical Cascade Reactions. <b>2015</b> , 54, 11443-7	95
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1799	Eine hocheffiziente Gold-katalysierte Photoredox- $\alpha$ -C(sp <sup>3</sup> )-H- Alkynylierung von tertiären aliphatischen Aminen durch Sonnenlicht. <b>2015</b> , 127, 6144-6148	49
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1797	The Cleavage of a C-C Bond in Cyclobutylanilines by Visible-Light Photoredox Catalysis: Development of a [4+2] Annulation Method. <b>2015</b> , 127, 11586-11589	9
1796	Room-Temperature Decarboxylative Alkynylation of Carboxylic Acids Using Photoredox Catalysis and EBX Reagents. <b>2015</b> , 127, 11352-11356	57
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1793	Acyl Radicals from Aromatic Carboxylic Acids by Means of Visible-Light Photoredox Catalysis. <b>2015</b> , 127, 14272-14275	30
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1791	Merging Photoredox and Nickel Catalysis: The Direct Synthesis of Ketones by the Decarboxylative Arylation of $\beta$ -Oxo Acids. <b>2015</b> , 54, 7929-33	229
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1767	Remote Hydroxylation through Radical Translocation and Polar Crossover. <b>2015</b> , 127, 7948-7952	20
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1765	Sunlight-Driven Decarboxylative Alkynylation of $\beta$ -Keto Acids with Bromoacetylenes by Hypervalent Iodine Reagent Catalysis: A Facile Approach to Ynones. <b>2015</b> , 127, 8494-8497	36
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1758	Synthesis of Previously Inaccessible Borylated Heterocycle Motifs Using Novel Boron-Containing Amphoteric Molecules. <b>2015</b> , 54, 9038-41	33

1757	Silicates as Latent Alkyl Radical Precursors: Visible-Light Photocatalytic Oxidation of Hypervalent Bis-Catecholato Silicon Compounds. <b>2015</b> , 54, 11414-8	205
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1714	Fluoride Complexes of Cyclometalated Iridium(III). <b>2015</b> , 34, 109-120	15
1713	Merging photoredox and nickel catalysis: decarboxylative cross-coupling of carboxylic acids with vinyl halides. <b>2015</b> , 137, 624-7	326
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1162	Practical Photocatalytic Trifluoromethylation and Hydrotrifluoromethylation of Styrenes in Batch and Flow. <b>2016</b> , 128, 15778-15782	36
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1086	Synthesis of cyclopenta-fused polycyclic aromatic hydrocarbons utilizing aryl-substituted anilines. <b>2016</b> , 14, 6804-10		8
1085	Visible-Light-Induced Arylthiofluoroalkylations of Unactivated Heteroaromatics and Alkenes. <b>2016</b> , 18, 3246-9		36
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1047	A general photoinduced electron transfer-directed chemoselective perfluoroalkylation of N,N-dialkylhydrazones. <b>2016</b> , 3, 841-845	40
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1044	Visible Light Photoredox-Catalyzed O-Sialylation Using Thiosialoside Donors. <b>2016</b> , 81, 7134-8	30
1043	Catalyst-Free Singlet Oxygen-Promoted Decarboxylative Amidation of $\beta$ -Keto Acids with Free Amines. <b>2016</b> , 18, 3114-7	62
1042	Facile Access to Fluoroaromatic Molecules by Transition-Metal-Free C-F Bond Cleavage of Polyfluoroarenes: An Efficient, Green, and Sustainable Protocol. <b>2016</b> , 16, 667-87	19
1041	Catalytic Water Oxidation by Ruthenium Complexes Containing Negatively Charged Ligand Frameworks. <b>2016</b> , 16, 940-63	9
1040	Classical-Reaction-Driven Stereo- and Regioselective C(sp <sup>3</sup> )-H Functionalization of Aliphatic Amines. <b>2016</b> , 16, 1477-88	33
1039	Visible Light-Induced Radical Rearrangement to Construct C-C Bonds via an Intramolecular Aryl Migration/Desulfonylation Process. <b>2016</b> , 81, 7036-41	19
1038	Advances in Photocatalysis: A Microreview of Visible Light Mediated Ruthenium and Iridium Catalyzed Organic Transformations. <b>2016</b> , 20, 1156-1163	243

1037	Visible-light-activated copper(I) catalyzed oxidative Csp <sup>2</sup> -Csp <sup>3</sup> cross-coupling reaction: efficient synthesis of unsymmetrical conjugated diynes without ligands and base. <b>2016</b> , 18, 4526-4530	64
1036	Design for carbon-carbon bond forming reactions under ambient conditions. <b>2016</b> , 6, 64676-64725	55
1035	Studies in organic and physical photochemistry - an interdisciplinary approach. <b>2016</b> , 14, 7392-442	50
1034	Diastereoselective Synthesis of CF <sub>3</sub> - and CF <sub>2</sub> H-Substituted Spiroethers from Aryl-Fused Cycloalkenylalkanols by Photoredox Catalysis. <b>2016</b> , 81, 7064-71	56
1033	Visible-Light-Initiated Na <sub>2</sub> -Eosin Y Catalyzed Highly Regio- and Stereoselective Difunctionalization of Alkynes with Alkyl Bromides. <b>2016</b> , 81, 7080-7	21
1032	Radical Addition of Hydrazones by $\alpha$ -Bromo Ketones To Prepare 1,3,5-Trisubstituted Pyrazoles via Visible Light Catalysis. <b>2016</b> , 81, 7127-33	42
1031	Synthesis of Trifluoromethylated Sultones from Alkenols Using a Copper Photoredox Catalyst. <b>2016</b> , 81, 7139-47	62
1030	Photocatalytic Reaction of Diazo Compounds with Aldehydes. <b>2016</b> , 358, 1671-1678	20
1029	Interface Engineering in Two-Dimensional Heterostructures: Towards an Advanced Catalyst for Ullmann Couplings. <b>2016</b> , 128, 1736-1741	1
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1027	Visible-Light-Promoted Photocatalytic B-C Coupling via a Boron-Centered Carboranyl Radical: Facile Synthesis of B(3)-Arylated o-Carboranes. <b>2016</b> , 128, 3218-3222	9
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1021	Visible light catalyzed aromatization of 1,3,5-triaryl-2-pyrazolines by platinum(II) polypyridyl complex under oxidant-free condition. <b>2016</b> , 59, 175-179	15
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1019	Mechanism of Photoinduced Metal-Free Atom Transfer Radical Polymerization: Experimental and Computational Studies. <b>2016</b> , 138, 2411-25	313
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1015	Brønsted acid-catalysed conjugate addition of photochemically generated $\beta$ -amino radicals to alkenylpyridines. <b>2016</b> , 52, 3520-3	62
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886	Visible-light-promoted synthesis of benzothiazoles from 2-aminothiophenols and aldehydes. <b>2017</b> , 58, 874-876	24
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867	Seven-coordinated chiral uranyl(VI) salen complex as effective catalyst for C-H bond activation of dialkylanilines under visible light. <b>2017</b> , 124, 177-183	30
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- 513 Silver-Free C $\equiv$ N Activation: Strategic Approaches towards Realizing the Full Potential of C $\equiv$ N Activation in Sustainable Organic Synthesis. 0
- 512 Photoredox catalysis via consecutive 2LMCT- and 3MLCT-excitation of an Fe(iii/ii)-heterocyclic carbene complex. **2022**, 13, 9165-9175 1
- 511 Photo-driven metal-free multicomponent reaction between aldehydes, anilines and 4-substituted-DHPs for the synthesis of secondary amines. 0
- 510 Long-lived photoluminescence from an eight-coordinate zirconium(iv) complex with four 2-(2'-pyridyl)pyrrolide ligands. 0
- 509 Photo-induced decarboxylative hydroacylation of  $\beta$ -oxocarboxylic acids with terminal alkynes by radical addition-translocation-cyclization in water. 0
- 508 Visible-light promoted photocatalyst-free aerobic  $\beta$ -oxidation of tertiary amines to amides. 0
- 507 Visible-light enabled synthesis of cyclopropane-fused indolines via dearomatization of indoles. 0
- 506 Visible-light-induced transition-metal-free defluorosilylation of  $\beta$ -trifluoromethylalkenes via hydrogen atom transfer of silanes. **2022**, 9, 4949-4954 0
- 505 Expanding monomer scope and enabling post-modification in photocontrolled radical ring-opening polymerization of vinylcyclopropanes by an iodine transfer strategy. 1
- 504 A new twist for Stork-Danheiser products enabled by visible light mediated trans-cyclohexene formation; access to acyclic distal enones. **2022**, 13, 9271-9276 0
- 503 Visible light-driven copper(ii) catalyzed aerobic oxidative cleavage of carbon-carbon bonds: a combined experimental and theoretical study. 0
- 502 Heteroleptic copper(i) charge-transfer chromophores with panchromatic absorption. 1
- 501 Photocatalyst-free hydroacylations of electron-poor alkenes and enones under visible-light irradiation. **2022**, 20, 7245-7249 1
- 500 Enantiocomplementary synthesis of vicinal fluoro alcohols through photo-bio cascade reactions. 0
- 499 Taming photocatalysis in flow: easy and speedy preparation of  $\beta$ -aminoamide derivatives. **2022**, 24, 6613-6618 2
- 498 Visible-light-promoted sulfenylation of 6-aminouracils under catalyst-free conditions. **2022**, 46, 16523-16529 2

- 497 Non-Sacrificial Photocatalysis. **2022**, 0
- 496 Utilizing a needle as a source of iron in synergistic dual photoredox catalytic generation of alkoxy radicals. **2022**, 58, 10241-10244 0
- 495 Research Progress on Light-Promoted Transition Metal-Catalyzed C-Heteroatom Bond Coupling Reactions. **2022**, 42, 2275 1
- 494 d-d and charge transfer photochemistry of 3d metal complexes. **2022**, 0
- 493 CsPbBr<sub>3</sub> perovskite quantum dots as a visible light photocatalyst for cyclisation of diamines and amino alcohols: an efficient approach to synthesize imidazolidines, fused-imidazolidines and oxazolidines. **2022**, 12, 5891-5898 1
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- 491 Photocatalytic Generation of a Non-Heme Fe(III)-Hydroperoxo Species with O<sub>2</sub> in Water for Oxygen Atom Transfer Reaction. 0
- 490 Photoredox-catalyzed intermolecular dearomative trifluoromethylcarboxylation of indoles and heteroanalogues with CO<sub>2</sub> and fluorinated radical precursors. 0
- 489 Mechanistic dichotomy in the solvent dependent access to E vs. Z-allylic amines via decarboxylative vinylation of amino acids. **2022**, 13, 9678-9684 0
- 488 Mechanosynthesis and Photophysics of Colour-tunable Photoluminescent Group 13 Metal Complexes with Sterically Demanding 3,5-di-tert-butyl Substituted Salen and Salophen Ligands. 0
- 487 Development of heterogeneous photocatalysts via the covalent grafting of metal complexes on various solid supports. 0
- 486 Cooperative photoredox/gold catalysed cyclization of 2-alkynylbenzoates with arenediazonium salts: synthesis of 3,4-disubstituted isocoumarins. 0
- 485 Intramolecular dehydrogenative amination of alkenes via dual organic photoredox and cobalt catalysis without a hydrogen acceptor. **2022**, 24, 6131-6137 0
- 484 Transition-metal-catalyzed C–H bond alkylation using olefins: recent advances and mechanistic aspects. **2022**, 51, 7358-7426 7
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- 482 Visible-light-mediated multi-component carbene transfer reactions of  $\beta$ -diazoesters to construct multisubstituted pyrazoles and 1,3-dicarbonyl derivatives. 0
- 481 Visible-light photocatalytic radical addition–translocation–cyclization to construct sulfonyl-containing azacycles. **2022**, 58, 10206-10209 0
- 480 Kinetic Resolution through Olefin E–Z Isomerization Mediated by Excited Chiral Copper Complexes. **2022**, 42, 2602 0

- 479 A diastereoselective synthesis of cyclopentanones via photocatalytic reductive alkyltrifluoromethylation of ynones. 0
- 478 Visible-light-promoted iron-catalyzed C $\beta$ H functionalization of 1,4-naphthoquinones via oxidative coupling with sulfoximines. **2022**, 58, 11312-11315 1
- 477 Hypervalent-iodine promoted selective cleavage of C(sp<sup>3</sup>)C(sp<sup>3</sup>) bonds in ethers. 0
- 476 Streamlined Synthesis of Aminoacridinium Photocatalysts with Improved Photostability. **2022**, 26, 2756-2760 0
- 475 Recently Reported Ru-Metal Organic Coordination Complexes and Their Application (A Review). **2022**, 92, 1546-1561 0
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- 473 Photochemical C $\beta$ H Arylation of Naphthoquinones Using Eosin Y. **2022**, 7, 32615-32619 0
- 472 Organophotocatalytic oxidation of alcohols to carboxylic acids. 1
- 471 Photochemistry Journey to Multielectron and Multiproton Chemical Transformation. **2022**, 144, 16219-16231 1
- 470 Chromium/Photoredox Dual-Catalyzed Synthesis of  $\beta$ -Benzylic Alcohols, Isochromanones, 1,2-Oxy Alcohols and 1,2-Thio Alcohols. 1
- 469 Dearomative (3+2) Cycloadditions between Indoles and Vinyldiazo Species Enabled by a Red-Shifted Chromium Photocatalyst. 1
- 468 Synthesis of arylacylated oxindoles via visible light-promoted Smiles rearrangement. **2022**, 7, 0
- 467 Synergistic interplay between photoisomerization and photoluminescence in a light-driven rotary molecular motor. **2022**, 13, 0
- 466 Asymmetric Addition of Allylsilanes to Aldehydes: A Cr/Photoredox Dual Catalytic Approach Complementing the HosomiSakurai Reaction. **2022**, 12, 12281-12290 2
- 465 Visible-Light-Initiated Multicomponent Reactions of  $\beta$ -Diazoesters to Access Organophosphorus Compounds. **2022**, 87, 12921-12931 2
- 464 Perspective: Mechanistic Investigations of Photocatalytic Processes with Time-Resolved Optical Spectroscopy. 0
- 463 Chromium/Photoredox Dual-Catalyzed Synthesis of  $\beta$ -Benzylic Alcohols, Isochromanones, 1,2-Oxy Alcohols and 1,2-Thio Alcohols. 0
- 462 Visible-Light Mediated C $\beta$ H Functionalization of Heteroarenes. 1-26 0

- 461 Photoredox-Catalyzed Deoxygenation of Hexafluoroacetone Hydrate Enables Hydroxypolyfluoroalkylation of Alkenes. 0
- 460 The Merger of Benzophenone HAT Photocatalysis and Silyl Radical-Induced XAT Enables Both Nickel-Catalyzed Cross-Electrophile Coupling and 1,2-Dicarbonylfunctionalization of Olefins. **2022**, 12, 11216-11225 35
- 459 VO 4 -Modified Layered Double Hydroxides Nanosheets for Highly Selective Photocatalytic CO<sub>2</sub> Reduction to C<sub>1</sub> Products. **2022**, 18, 2203787 1
- 458 Visible-Light-Enabled Ph<sub>3</sub>P/LiI-Promoted Tandem Radical Trifluoromethylation/Cyclization/Iodination of 1,6-Enynes with Togni's Reagent. **2022**, 87, 12877-12889 0
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- 456 Visible Light-Promoted Green and Sustainable Approach for One-Pot Synthesis of 4,4-Bis(arylmethylene)bis(1H-pyrazol-5-ols), In Vitro Anticancer Activity, and Molecular Docking with Covid-19 Mpro. **2022**, 7, 34583-34598 0
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- 454 Hydrogen-Borrowing Reduction/Dehydrogenative Aromatization of Nitroarenes through Visible-Light-Induced Energy Transfer: An Entry to Pyrimidoindazoles and Carbazoles. **2022**, 24, 7173-7177 1
- 453 Multicomponent Direct Assembly of N-Heterospirocycles Facilitated by Visible-Light-Driven Photocatalysis. **2022**, 87, 13204-13223 0
- 452 Polymorph-Dependent Phosphorescence of Cyclometalated Platinum(II) Complexes and Its Relation to Non-covalent Interactions. **2022**, 7, 34454-34462 0
- 451 Ligand Development for Copper-Catalyzed Enantioconvergent Radical Cross-Coupling of Racemic Alkyl Halides. **2022**, 144, 17319-17329 8
- 450 Silver-Free C-H Activation: Strategic Approaches towards Realizing the Full Potential of C-H Activation in Sustainable Organic Synthesis. 0
- 449 Noncovalent Surface Modification of Metal-Organic Frameworks: Unscrambling Adsorption Properties via Isothermal Titration Calorimetry. **2022**, 38, 11199-11209 0
- 448 Probing Electron Transfer Events in Radical Cation Cycloadditions: Intramolecular vs. Intermolecular. 0
- 447  $\beta$ -Acylation of Alkenes by a Single Photocatalyst. 1
- 446 Rhodium-Catalyzed C-H Functionalization with Photoredox Catalysis. 1-21 0
- 445 C-H Arylation of Saturated N-Heterocycles. 1-25 0
- 444 Visible Light-Induced Deoxygenation and Allylation/Vinylation of Pyridyl Ethers. 0

- 443 Electrophotocatalytic C-H Bonds Functionalization. 1-25 0
- 442 Photocatalyzed Cascade Reactions of Cyclopropanols and  $\beta$ -Trifluoromethyl-Substituted Olefins for the Synthesis of Fused gem-Difluorooxetanes. 0
- 441 Photocatalyzed Cascade Reactions of Cyclopropanols and  $\beta$ -Trifluoromethyl-Substituted Olefins for the Synthesis of Fused gem-Difluorooxetanes. 2
- 440 Asymmetric Diels-Alder Reaction Catalyzed by Facile Recoverable Ionically Core-Corona Polymer Microsphere-Immobilized MacMillan Catalyst. **2022**, 7, 0
- 439 Charge-Transfer and Spin-Flip States: Thriving as Complements. 2
- 438 Electron / hole catalysis: A versatile strategy for Promoting chemical transformations. **2022**, 133065 0
- 437 Photoinduced Synthesis of Thiocyanates through Hydrogen Atom Transfer and One-Pot Derivatization to Isothiocyanates. 0
- 436 Synthesis of polyfunctionalized dihydro-2-oxypyrrroles catalyzed by 1,2,3,5-tetrakis(carbazol-9-yl)-4,6-dicyanobenzene (4CzIPN) as a novel donor-acceptor fluorophore. **2022**, 12, 0
- 435 Photoinduced Copper-Catalyzed C-H Functionalization. 1-42 0
- 434 Charge-Transfer and Spin-Flip States: Thriving as Complements. 0
- 433  $\beta$ -Acylation of Alkenes by a Single Photocatalyst. 0
- 432 Difluoromethylsulfonyl Imidazolium Salt for Difluoromethylation of Alkenes. 0
- 431 Eosin Y-Catalyzed Visible-Light-Induced Hydroperfluoroalkylation of Electron-Deficient Alkenes. 0
- 430 Photocatalytic Hydrogen Atom Transfer Enabled Ni- and Cu-Catalyzed C(sp<sup>3</sup>)-H Functionalization. 1-35 0
- 429 Visible-Light-Mediated C-H Functionalizations: C-C Formation Enabled by Intermolecular Cleavage of Unactivated C-H Bonds. 1-82 0
- 428 Visible-Light-Driven C-H Bond Functionalization of Amine Derivatives. 1-35 0
- 427 Silyl-mediated photoredox-catalyzed radical-radical cross-coupling reaction of alkyl bromides and ketoesters. 0
- 426 Direct Synthesis of Oxaspirolactones in Batch, Photoflow, and Silica Gel-Supported Solvent-free Conditions via Visible-Light Photo- and Heterogeneous Brønsted Acid Relay Catalysis. 0



- 425 Redox photocatalysis. **2022,** 0
- 424 Photoredox catalysis leading to triazolo-quinoxalinones at room temperature: selectivity of the rate determining step. 0
- 423 Structural characterization of excited state transition metal complexes by x-ray transient absorption spectroscopies. **2022,** 0
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- 420 Challenges and recent advancements in the transformation of CO<sub>2</sub> into carboxylic acids: straightforward assembly with homogeneous 3d metals. 2
- 419 A novel, environment-friendly method to prepare pyranones from furfural alcohols via photocatalytic O<sub>2</sub> oxidation in an aqueous phase. 0
- 418 Chlorophyll: The Ubiquitous Photocatalyst of Nature and Its Potential as an Organo-Photocatalyst in Organic syntheses. 0
- 417 Visible-light-driven photocatalytic selective oxidation of amines and sulfides over a vanadium metal-organic framework. 0
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- 415 Visible-light promoted de Mayo reaction by zirconium catalysis. 0
- 414 Facile synthesis of fully substituted 1H-imidazoles from oxime esters via dual photoredox/copper catalyzed multicomponent reactions. 0
- 413 Divergent cyanoalkylation/cyanoalkylsulfonylation of enamides under organophotoredox catalytic conditions. 0
- 412 Visible-Light-Induced Formal [3+2] Cycloaddition of  $\alpha,\beta$ -Unsaturated Imides or Amide with N,N,N',N'-Tetramethyldiaminomethane for the Synthesis of 4-Alkyl- and 4-Aryl-1-methyl-2-pyrrolidinones. **2022, 104,** 0
- 411 Alkylboronic Acids as Alkylating Agents: Photoredox-Catalyzed Alkylation Reactions Assisted by K<sub>3</sub>PO<sub>4</sub>. 1
- 410 Trifluoroethoxylation of Styrenes via Photoredox-Catalyzed Meerwein Reaction. **2022, 58, 1181-1191** 0
- 409 ??????????????????????. **2022,** 0
- 408 Weinreb Amide as a Multifaceted Directing Group in C-H Activation. **2022, 339-364** 0

407	Pi-Pi $\pi$ -Stacking Complex Induces Three-Component Coupling Reactions to Synthesize Functionalized Amines.	0
406	Hairy Conjugated Microporous Polymer Nanoparticles Facilitate Heterogeneous Photoredox Catalysis with Solvent-Specific Dispersibility. <b>2022</b> , 16, 17041-17048	0
405	Photoredox/Ti Dual-Catalyzed Dehydroxylation of Cyclobutanone Oximes for $\beta$ -Cyanoalkyl Radical Generation: Access to Cyanoalkyl Substituted Oxindolines.	0
404	Photocatalytic Decarboxylative Pyridylation of Carboxylic Acids Using In Situ-Generated Amidyl Radicals as Oxidants. 13225-13233	2
403	Modulating the Surface and Photophysical Properties of Carbon Dots to Access Colloidal Photocatalysts for Cross-Couplings. 13831-13837	0
402	Asymmetric Three-Component Reaction to Assemble the Acyclic All-Carbon Quaternary Stereocenter via Visible Light and Phosphoric Acid Catalysis. 13282-13291	2
401	Ion-Pairing Catalysis in Stereoselective, Light-Induced Transformations. <b>2022</b> , 144, 19207-19218	1
400	Visible-light photocatalyst design. <b>2022</b> , 2, 2414-2416	0
399	Assembling Phenothiazine into a Porous Coordination Cage to Improve Its Photocatalytic Efficiency for Organic Transformations.	1
398	Assembling Phenothiazine into a Porous Coordination Cage to Improve Its Photocatalytic Efficiency for Organic Transformations.	0
397	Photo-Induced Nickel-Catalyzed Carbon-Heteroatom Coupling.	1
396	Low-Toxicity ZnSe/ZnS Quantum Dots as Potent Photoreductants and Triplet Sensitizers for Organic Transformations.	0
395	Low-Toxicity ZnSe/ZnS Quantum Dots as Potent Photoreductants and Triplet Sensitizers for Organic Transformations.	0
394	Multi-Resonant Thermally Activated Delayed-Fluorescent (MR-TADF) Compounds as Photocatalysts.	2
393	Three-component enantioselective alkenylation of organophosphonates via nickel metallaphotoredox catalysis. <b>2022</b> ,	3
392	Visible-Light-Mediated Cyclopropanation: Recent Progress.	0
391	Change in the Product Selectivity in the Visible Light-Induced Selenium Radical-Mediated 1,4-Aryl Migration Process.	0
390	Light-Induced Divergent Cyanation of Alkynes Enabled by Phosphorus Radicals.	0

- 389 Asymmetric Photochemical [2 + 2]-Cycloaddition of Acyclic Vinylpyridines through Ternary Complex Formation and an Uncontrolled Sensitization Mechanism. **2022**, 144, 20109-20117 1
- 388 Photoredox Csp<sup>3</sup>-Csp<sup>2</sup> Reductive Cross-Couplings of Cereblon Ligands for PROTAC Linker Exploration in Batch and Flow. 0
- 387 Stereoselective Synthesis of the DE Ring Portion of Kadcoccolactone A by a Radical Addition/Cyclization Approach. 0
- 386 Divergent Construction of Heterocycles by SOMOphilic Isocyanide Insertion under N-Heterocyclic Carbene Catalysis. **2022**, 24, 7654-7658 1
- 385 Photochemical Radical Cation Cycloadditions of Aryl Vinyl Ethers. 0
- 384 Photoinduced Three-Component Carboarylation of Unactivated Alkenes with Protic C(sp<sup>3</sup>)H Feedstocks. **2022**, 24, 7677-7684 0
- 383 Enantioselective Hydroalkylation of Alkenylpyridines Enabled by Merging Photoactive Electron Donor/Acceptor Complexes with Chiral Bifunctional Organocatalysis. **2022**, 12, 13065-13074 3
- 382 Deracemization through Sequential Photoredox-Neutral and Chiral Brønsted Acid Catalysis. 0
- 381 Light-Induced Divergent Cyanation of Alkynes Enabled by Phosphorus Radicals. 1
- 380 Visible-Light Promoted Regioselective Oxygenation of Quinoxalin-2(1H)-ones Using O<sub>2</sub> as an Oxidant. 0
- 379 Pi-Pi Stacking Complex Induces Three-Component Coupling Reactions to Synthesize Functionalized Amines. 1
- 378 Photocatalytic C-H Activation and Amination of Arenes with Nonactivated N-Hydroxyphthalimides Involving Phosphine-Mediated N-O Bond Scission. 0
- 377 Deracemization through Sequential Photoredox-Neutral and Chiral Brønsted Acid Catalysis. 0
- 376 Nano-crystalline precursor formation, stability, and transformation to mullite-type visible-light photocatalysts. 2
- 375 The Role of Excited States of LNi(II)/III(Aryl)(Halide) Complexes in Ni-Halide Bond Homolysis in the Arylation of Csp<sup>3</sup>H Bonds. 13215-13224 2
- 374 Heterocycle Synthesis via Decarboxylative Cyclization Methods. 2
- 373 Metal- and Oxidant-free Electrosynthesis of Heterocycles from 1,2-Diarylalkene Derivatives. 0
- 372 Photoredox-Catalyzed Acyl Lactonization of Alkenes with Aldehydes: Synthesis of Acyl Lactones. 0

- 371 Tuning the Photocatalytic Performance of Ruthenium (II) Polypyridine Complexes Via Ligand Modification for Visible-Light Induced Phosphorylation of Tertiary Aliphatic Amines. 1
- 370 Hydroxyl-Directed Iridium-Catalyzed Synthesis of Pyrano[2,3,4-de]chromen-2-ones and Further Chalcogenation under Blue Light Irradiation. 0
- 369 Metal-Free Generation of Acyl Radical via Photoinduced Single-Electron Transfer from Lewis Base to Acyl Chloride. 0
- 368 Visible-Light-Induced Photoredox-Catalyzed Selective 1,4-Difluoroalkylesterification of 1-Aryl-1,3-dienes. **2022**, 24, 7589-7594 0
- 367 Lewis Acid-Conjugated Pyrene Photoredox Catalyst Promoting the Addition Reaction of  $\beta$ -Silyl Amines with Benzalmalononitriles. **2022**, 70, 765-768 0
- 366 Excited-State Copper-Catalyzed [4 + 1] Annulation Reaction Enables Modular Synthesis of  $\beta,\beta$ -Unsaturated- $\gamma$ -Lactams. 1
- 365 Ionic Liquid Mediated Triple Catalysis for Alkylation and Methylation of Acyl Chlorides with Mechanistic Insight. **2022**, 0
- 364 P/N-Heteroleptic Cu(I)-Photosensitizer-Catalyzed [3 + 2] Regiospecific Annulation of Aminocyclopropanes and Functionalized Alkynes. 0
- 363 Synthesis of gem -difluoroalkenes via photoredox-catalyzed defluoroaryloxymethylation of  $\beta$ -trifluoromethyl alkenes. 1
- 362 Visible-Light-Promoted Xanthate-Transfer Cyclization Reactions of Unactivated Olefins under Photocatalyst- and Additive-Free Conditions. 0
- 361 Imidazo[4,5-f][1,10]phenanthroline based luminescent probes for anion recognition: Recent achievements and challenges. **2023**, 475, 214894 0
- 360 Squaraines as Near-Infrared Photocatalysts for Organic Reactions. 1
- 359 Recent advances in photochemical construction of aromatic C $\beta$  bonds via C $\beta$ hetero bond cleavage. 1
- 358 Photoredox aerobic oxidative cycliation of N-arylacrylamides with benzylalcohols. 0
- 357 Dual Nickel/Photoredox Catalyzed Carboxylation of C(sp<sup>2</sup>)-Halides with Formate. 0
- 356 Metal-free and site-selective  $\beta$ -C $\beta$  functionalization of tetrahydrofuran enabled by the photocatalytic generation of bromine radicals. 0
- 355 Visible-Light Mediated Allylation of Thiols with Allylic Alcohols. 1
- 354 Recent Advances in Visible-Light Photocatalytic Asymmetric Synthesis Enabled by Chiral Lewis Acids. **2022**, 42, 3335 1

353	Mechanistic views and computational studies on transition-metal-catalyzed reductive coupling reactions.	0
352	Photoactive Copper Complexes: Properties and Applications.	4
351	Light-driven radical-polar crossover catalysis for cross-coupling with organosilanes. <b>2022</b> , 154231	0
350	PET-RAFT polymerization under flow chemistry and surface-initiated reactions.	1
349	Effects of shape and particle size on the photocatalytic kinetics and mechanism of nano-CeO <sub>2</sub> . <b>2022</b> , 29, 2221-2231	0
348	Light-empowered contra-thermodynamic stereochemical editing.	1
347	Visible Light-Mediated Reactions of $\beta$ -Nitroalkenes.	0
346	Visible Light-Mediated Cyclisation Reaction for the Synthesis of Highly-Substituted Tetrahydroquinolines and Quinolines..	0
345	Visible Light-Mediated Cyclisation Reaction for the Synthesis of Highly-Substituted Tetrahydroquinolines and Quinolines..	0
344	Visible-light-induced Organocatalytic Perfluoroalkylation of Electron-rich Olefins. <b>2022</b> , 80, 1028-1035	0
343	Mechanistic Insights into the Oxidative and Reductive Quenching Cycles of Transition Metal Photoredox Catalysts through Effective Oxidation State Analysis.	0
342	Synthesis of Isoxazolidines from Substituted Vinylnitrones and Conjugated Carbonyls via Visible-Light Photocatalysis.	0
341	Using enzymes to tame nitrogen-centred radicals for enantioselective hydroamination.	1
340	Visible Light-Enhanced C-H Amination of Cyclic Ethers with Iminoiodinanes.	1
339	High-Throughput Photochemistry Using Droplet Microfluidics. 131-143	0
338	Applications of the Vienna Ab initio simulation package, DFT and molecular interaction studies for investigating the electrochemical stability and solvation performance of non-aqueous NaMF <sub>6</sub> electrolytes for sodium-ion batteries. <b>2022</b> , 1217, 113934	0
337	Photocatalytic cleavage of trityl protected thiols and alcohols.	0
336	Advances in Carbon-Carbon Bond Activation by Using Photocatalysts: A Mini Review. <b>2022</b> , 7,	0

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- 333 Visible-Light-Mediated Synthesis of Phenanthrenes through Successive Photosensitization and Photoredox by a Single Organocatalyst. 0
- 332 Panchromatic Excited-State Absorption in Bis-Cyclometalated Iridium Isocyanide Complexes. 0
- 331 Visible-Light-Induced One-Pot Cross Coupling of NH-Sulfoximines with Toluene. 0
- 330 Electrophotocatalytic Decoupled Radical Relay Enables Highly Efficient and Enantioselective Benzylic C-H Functionalization. 2
- 329 Photocatalytic direct borylation of carboxylic acids. **2022**, 13, 1
- 328 Merging Organocatalysis with Light [New Opportunities for Asymmetric Synthesis. **2023**, 225-257 0
- 327 Sensitizer-controlled photochemical reactivity via upconversion of red light. **2022**, 14, 149-161 2
- 326 Polydentate hydrazones as multitasking catalysts in visible-light-induced coupling reactions of amines. 0
- 325 Supramolecular multi-electron redox photosensitisers comprising a ring-shaped Re(i) tetranuclear complex and a polyoxometalate. 0
- 324 Electrochemical radical-mediated selective C(sp<sup>3</sup>)-H bond activation. 0
- 323 Back to the future of organolanthanide chemistry. 0
- 322 Visible-light induced three-component reaction for  $\beta$ -aminobutyronitrile synthesis by C-H bond formation using quantum dots as photocatalysts. 0
- 321 Exploring visible light for carbon-nitrogen and carbon-oxygen bond formation via nickel catalysis. 0
- 320 The development of highly efficient monophosphonium photocatalysts for the visible light-regulated metal-free cationic polymerization of vinyl ethers. 0
- 319 Metal complexes for catalytic and photocatalytic reactions in living cells and organisms. 1
- 318 Visible-Light-Mediated C(sp<sup>3</sup>)-H Functionalization of Alkyl Arylacetates: An Easy Approach to S-Benzyl Dithiocarbamate Acetates. 0

- 317 Visible-Light-Induced Selective Defluoroalkylations of Polyfluoroarenes with Alcohols. 1
- 316 Photocatalyst-free visible light driven synthesis of gem-dihaloenones from alkynes, tetrahalomethanes and water. 0
- 315 Rational design of bromine-modified Ir(III) photosensitizer for photocatalytic hydrogen generation. **2023**, 417, 89-97 0
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- 312 Thermally-induced intramolecular [2 + 2] cycloaddition of allene-methylenecyclopropanes: expedient access to two separable spiropolycyclic heterocycles. 0
- 311 Spodium bonding to anticrown-Hg<sub>3</sub> boosts phosphorescence of cyclometalated-PtII complexes. 0
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- 306 Visible-light-induced intramolecular C-S bond formation for practical synthesis of 2,5-disubstituted 1,3,4-thiadiazoles. 1-9 0
- 305 Deprotection of benzyl-derived groups via photochemically mesolytic cleavage of C-N and C-D bonds. **2022**, 0
- 304 Understanding the Visible-Light-Initiated Manganese-Catalyzed Synthesis of Quinolines and Naphthyridines under Ambient and Aerobic Conditions. **2022**, 12, 15168-15180 1
- 303 Direct C-H Difluoroalkylation and Perfluoroalkylation of Heteroarenes. 1-68 0
- 302 Anti-Markovnikov ring-opening of sulfonium salts with alkynes by visible light/copper catalysis. 0
- 301 Properties of Amine-Containing Ligands That Are Necessary for Visible-Light-Promoted Catalysis with Divalent Europium. **2022**, 61, 19649-19657 1
- 300 Photochemical C-H Bond Activation by Gold, Platinum, Tungsten, and Osmium Complexes. 1-59 0

299	Branched-Selective Hydroacylation of Alkenes via Photoredox Cobalt and N-Heterocyclic Carbene Cooperative Triple Catalysis. <b>2022</b> , 12, 15241-15248	0
298	Synthesis of C2-Carbonyl Indoles via Visible Light-Induced Oxidative Cleavage of an Aminomethylene Group. <b>2022</b> , 87, 16644-16654	0
297	Diastereoselective Radical Aminoacylation of Olefins through N-Heterocyclic Carbene Catalysis. <b>2022</b> , 144, 22767-22777	1
296	Gem-Difluoroallylation of Aryl Sulfonium Salts. <b>2022</b> , 24, 8753-8758	1
295	Exploring Photoredox-Catalyzed (Re)functionalizations with Core-Modified Benziodoxolones.	0
294	AIE Polymer Micelle/Vesicle Photocatalysts Combined with Native Enzymes for Aerobic Photobiocatalysis.	0
293	Iron-mediated ligand-to-metal charge transfer enables 1,2-diazidation of alkenes. <b>2022</b> , 13,	0
292	Unravelling the Effect of Water Addition in Consecutive Photocatalysis with Naphthalene Diimide.	0
291	Photoredox/Nickel Dual-Catalyzed Stereoselective Synthesis of Distal Cyano-Substituted Enamides.	0
290	Metal-Organic Frameworks as Photocatalysts for Solar-Driven Overall Water Splitting.	3
289	Visible light-promoted synthesis of bioactive N, N-heterocycles. <b>2022</b> , 10,	1
288	Divergent Functionalization of Styrenes via Radical/Polar Crossover with CO <sub>2</sub> and Sodium Sulfinates.	0
287	Dearomatization of Biaryls through Polarity Mismatched Radical Spirocyclization.	1
286	Turning photocatalytic H <sub>2</sub> evolution into CO <sub>2</sub> reduction of molecular nickel(II) complexes by using a redox-active bipyridine ligand. <b>2022</b> , 134858	0
285	Copper- and Photoredox-Catalyzed Cascade to Trifluoromethylated Divinyl Sulfones.	0
284	Synthesis of 2-(Oxindol-3-yl)acetamides via Visible-light-mediated Oxidative Carbamoylation of N-arylacrylamides.	0
283	Development of Carbazole-Cored Organo-Photocatalyst for Visible Light-Driven Reductive Pinacol/Imino-Pinacol Coupling. <b>2022</b> , 24, 9001-9006	1
282	Lewis Base-Boryl Radicals Enabled Borylation Reactions and Selective Activation of Carbon-Heteroatom Bonds.	1



- 281 Photoredox-Mediated Deoxygenative Alkylation of DNA-Tagged Alkenes with Activated Alcohols. 0
- 280 Arylamines as More Strongly Reducing Organic Photoredox Catalysts than fac-[Ir(ppy)<sub>3</sub>]. **2022**, 12, 15400-15415
- 279 Theoretical Study of Atom-Transfer Radical Addition Reactions between Perfluoroalkyl Iodides and Styrene Using a Copper Photoredox Catalyst. 0
- 278 Visible-light-induced sulfoxidation using chitosan-supported organic dyes photocatalyst. **2022**, 111042 0
- 277 Photochemical diazidation of alkenes enabled by ligand-to-metal charge transfer and radical ligand transfer. **2022**, 13, 0
- 276 Energy transfer-enabled unsymmetrical diamination using bifunctional nitrogen-radical precursors. **2022**, 5, 1120-1130 5
- 275 Photochemical Intermolecular [3+2]-Cycloaddition for the Construction of Aminobicyclo[3.1.1]heptanes. 1
- 274 Light-induced phosphine-catalyzed asymmetric functionalization of benzylic C-H bonds. 0
- 273 Dual Catalysis in Organic Synthesis: Current Challenges and New Trends. 1
- 272 Photochemical Synthesis of Anilines via Ni-Catalyzed Coupling of Aryl Halides with Ammonium Salts. **2022**, 12, 15590-15599 0
- 271 Persulfate-Mediated Oxidative C $\alpha$  Functionalization of Glycinates to Access Diverse Unnatural Amino Acids. **2022**, 2022, 0
- 270 Merging Photocatalytic C $\alpha$  Cross-Coupling for  $\alpha$ -Oxycarbonyl- $\beta$ -ketones: Esterification of Carboxylic Acids via a Decarboxylative Pathway. 0
- 269 Visible light-initiated radical 1,3-difunctionalization of  $\alpha,\beta$ -unsaturated ketones. **2022**, 8, 0
- 268 Anthrazoline photocatalyst for promoting esterification and etherification reactions via photoredox/nickel dual catalysis. 0
- 267 Dearomatization of Biaryls through Polarity Mismatched Radical Spirocyclization. 0
- 266 Visible Light-Triggered and Catalyst- and Template-Free syn-Selective [2 + 2] Cycloaddition of Chalcones: Solid-State Suspension Reaction in Water to Access syn-Cyclobutane Diastereomers. **2022**, 10, 16399-16407 0
- 265 Regio- and Stereoselective Reductive Coupling of Alkynes and Crotonitrile. **2022**, 144, 23001-23009 0
- 264 Visible-Light-Induced Radical Type Ring-Opening of Sulfonium Salts with Heteroarenes by Copper Photocatalyst. **2022**, 364, 4384-4391 0

- 263 Photocatalytic Regioselective [2 + 2 + 1] Radical Annulation of Alkenes with tert-Butyl Nitrite and gem-Dihalides. 0
- 262 Photoinduced gold-catalyzed divergent dechloroalkylation of gem-dichloroalkanes. **2022**, 5, 1098-1109 1
- 261 Switching the Photoreactions of Ir(III) Diamine Complexes between C-N Coupling and Dehydrogenation under Visible Light Irradiation. **2022**, 61, 20834-20847 0
- 260 Photocatalyzed Synthesis of 3-Substituted Phthalides. A Key Access to Herbaric Acid. 0
- 259 Pyridine-Boryl Radical Mediated Decarboxylative Homolytic Substitution of N-hydroxyphthalimide Ester with Ar<sub>2</sub>X<sub>2</sub> (X=S, Se). **2022**, 2022, 0
- 258 N,N'-Diaryldihydrophenazines as a Sustainable and Cost-Effective Alternative to Precious Metal Complexes in the Photoredox-Catalyzed Alkylation of Aryl Alkyl Ketones. **2023**, 28, 221 0
- 257 Nitryl Radical-Triggered Semipinacol-Type Rearrangement, Lactonization, and Cycloetherification of Olefins. 0
- 256 Photocatalyst-, metal-free visible-light-induced thiolation/pyridylation of styrenes using electron donor-acceptor complex as bifunctional reagents. 0
- 255 Formation and degradation of strongly reducing cyanoarene-based radical anions towards efficient radical anion-mediated photoredox catalysis. **2023**, 14, 0
- 254 Photosensitized activation of diazonium derivatives for C-B bond formation. **2023**, 100490 0
- 253 Base-Catalyzed Stereoselective Thiosulfonylation of Ynones for Facile Synthesis of Thio-functionalized Vinyl Sulfones. 0
- 252 Light-accelerated in-water hydroacylation of dialkyl azodicarboxylates. 1
- 251 Recent Advances in Visible-Light-Catalyzed C-C Bonds and C-Heteroatom Bonds Formation Using Sulfonium Salts. **2022**, 42, 4037 1
- 250 Recent Progresses in Visible-Light-Driven Alkene Synthesis. **2022**, 42, 3923 0
- 249 Recent Advances in Photocatalytic Reactions with Isocyanides. **2022**, 42, 4220 0
- 248 Visible Light-Assisted Photocatalyst-Free Tandem Sulfonylation/ Cyclization for the Synthesis of Oxindoles. **2022**, 42, 4323 0
- 247 Merging Photoinduced Iron-Catalyzed Decarboxylation with Copper Catalysis for C-N and C-C Couplings. 1678-1685 0
- 246 Aryl radical cation promoted remote dioxygenation of cyclopropane derivatives. **2023**, 4, 101233 0

- 245 An Air- and Moisture-stable Zinc(II) Carbene Dithiolate Dimer Showing Fast Thermally Activated Delayed Fluorescence and Dexter Energy Transfer Catalysis. 0
- 244 Visible-Light-Promoted Tandem Oxyphosphorylation Etherification of  $\beta$ -Diazoesters to Access Phosphoric Esters. **2023**, 8, 0
- 243 Visible-light-induced Organophotocatalytic and Singlet Oxygen-initiated Domino construction of 1,4-dihydropyridines, C-3 functionalized Spiro[indoline-3,4'-pyridines] and C-11 functionalized Spiro[indeno-[1,2-b]quinoxalines-11,4'-pyridines]. 1
- 242 The Rational Design of Reducing Organophotoredox Catalysts Unlocks Proton-Coupled Electron-Transfer and Atom Transfer Radical Polymerization Mechanisms. 0
- 241 Heterogeneous Photoredox Catalysis Based on Silica Mesoporous Material and Eosin Y: Impact of Material Support on Selectivity of Radical Cyclization. **2023**, 28, 549 0
- 240 Visible-Light-Induced N-Heterocyclic Carbene-Catalyzed Single Electron Reduction of Mono-Fluoroarenes. 0
- 239 Nickel/Photoredox Dual-Catalyzed Regioselective Alkyl-Aminoalkylation of Alkenes. 0
- 238 Direct synthesis of unprotected aryl C-glycosides by photoredox Ni-catalysed cross-coupling. 2
- 237 Radical-Based Route to Functionalized Tetralin: Formal Total Synthesis of ( $\beta$ )-Hamigeran B. 0
- 236 Mechanistic explorations on the decarboxylative allylation of amino esters via dual photoredox and palladium catalysis. 0
- 235 Ligand-controlled stereodivergent alkenylation of alkynes to access functionalized trans- and cis-1,3-dienes. **2023**, 14, 2
- 234 Towards a More Sustainable Photocatalyzed  $\beta$ -Arylation of Amines: Green Solvents, Catalyst Recycling and Low Loading. 0
- 233 Carbazole-based photocatalyst (4CzIPN) for novel donor-acceptor (D $\pi$ A) fluorophore-catalyzed visible-light-induced photosynthesis of 3,4-dihydropyrimidin-2-(1H)-ones/thiones via a proton-coupled electron transfer (PCET) process. **2023**, 13, 2514-2522 0
- 232 CsPbBr<sub>3</sub> in the Activation of the CBr Bond of CBrX<sub>3</sub> (X = Cl, Br) under Sunlight. 0
- 231 Intermolecular Organophotocatalytic Cyclopropanation of Unactivated Olefins. **2023**, 145, 774-780 0
- 230 Modern Photocatalytic Strategies in Natural Product Synthesis. **2023**, 1-104 0
- 229 Computational Understanding of Dual Gold and Photoredox-Catalyzed Regioselective Thiosulfonylation of Alkenes. 0
- 228 Photoredox-Catalyzed Chlorotrifluoromethylation of Aryllallenes: Synthesis of a Trifluoromethyl Building Block. 1

227	Efficient Photoelectrochemical Kolbe C-C coupling at BiVO <sub>4</sub> Electrodes under Visible Light Irradiation.	0
226	Visible-light-induced C(sp <sup>3</sup> )C(sp <sup>3</sup> ) bond formation via radical/radical cross-coupling.	0
225	Visible-Light-Induced N-Heterocyclic Carbene-Catalyzed Single Electron Reduction of Mono-Fluoroarenes.	0
224	Low-cost machine learning prediction of excited state properties of iridium-centered phosphors.	0
223	Visible-light-induced cascade reaction: a sustainable approach towards molecular complexity.	0
222	Photocatalytic coupling of electron-deficient alkenes using oxalic acid as a traceless linchpin. <b>2023,</b>	0
221	Photoredox-Promoted Co-Production of Dihydroisoquinoline and H <sub>2</sub> O <sub>2</sub> over Defective Zn <sub>3</sub> In <sub>2</sub> S <sub>6</sub> . 2210110	0
220	Chromium-Catalyzed Defluorinative Reductive Coupling of Aldehydes with gem-Difluoroalkenes.	0
219	Visible-Light Photoredox Catalysis for the Synthesis of Fluorinated Aromatic Compounds. <b>2023, 13, 94</b>	1
218	Visible-light Induced Cerium-catalyzed N-Demethylation of N-Methyl Amides under Air Conditions.	1
217	Electrochemical synthesis of oxazoles via phosphine-mediated deoxygenative [3 + 2] cycloaddition of carboxylic acids.	0
216	Cyano-Capped Molecules: Versatile Organic Materials.	1
215	Three-component reductive conjugate addition/aldol tandem reaction enabled by nickel/photoredox dual catalysis.	0
214	Visible-Light Induced Oxidative Annulation of Enamides to 2,4,5-Trisubstituted Oxazole Skeletons.	0
213	Visible-light induced eosin Y catalysed C(sp <sup>2</sup> )-H alkylation of carbonyl substrates via direct HAT. <b>2023, 133245</b>	1
212	Evaluation of a trinuclear heteroleptic bis-cyclometalated iridium(III) complex as a photoredox catalyst for visible light-mediated hydrothiolation reactions. <b>2023, 110384</b>	0
211	Visible-Light Photoredox-Catalyzed Decarboxylative Double Difluoromethylation of $\alpha,\beta$ -Unsaturated Carboxylic Acids for the Synthesis of Difluoromethylated Allylic Compounds.	0
210	Visible-Light-Active Coumarin- and Quinolinone-Based Photocatalysts and Their Applications in Chemical Transformations.	0

- 209 Recent progress in homogeneous molecular photoredox catalysis towards hydrogen evolution reaction and future perspective. **2023**, 651, 119010 ○
- 208 The game between molecular photoredox catalysis and hydrogen: The golden age of hydrogen budge. **2023**, 537, 112921 ○
- 207 Glycosyl Radical Based Synthesis of C-Glycoamino Acids and C-Glycopeptides. ○
- 206 Photo- and Electrochemically Initiated Thiocyanation Reactions. **2022**, 58, 1712-1751 ○
- 205 Visible-light promoted intramolecular carboamination of alkynes for the synthesis of oxazolidinone-fused isoquinolinones. ○
- 204 Light-Promoted Nickel-Catalyzed C<sup>D</sup>/C<sup>N</sup> Coupling of Aryl Halides with Carboxylic Acids and Sulfonamides. **2023**, 25, 636-641 ○
- 203 Visible-light-induced reactions of methylenecyclopropanes (MCPs). ○
- 202 Tuning Emission Lifetimes of Ir(C<sup>N</sup>)<sub>2</sub>(acac) Complexes with Oligo(phenyleneethynylene) Groups. ○
- 201 Visible-light-promoted synthesis of gem-dihaloenones. **2023**, 25, 1191-1200 ○
- 200 Metal-free acceptorless dehydrogenative cross-coupling of aldehydes/alcohols with alcohols. ○
- 199 Enantio- and Diastereoselective De Novo Synthesis of 3-Substituted Proline Derivatives via Cooperative Photoredox/Bronsted Acid Catalysis and Epimerization. **2023**, 145, 2779-2786 ○
- 198 Synthesis of Bibenzyl Derivatives via Visible-Light-Promoted 1,5-Hydrogen Atom Transfer/Radical Coupling Reactions of N-Fluorocarboxamides. **2023**, 43, 254 ○
- 197 Organophotoredox 1,6-Addition of 3,4-Dihydroquinoxalin-2-ones to para-Quinone Methides Using Visible Light. ○
- 196 Photocatalyzed Oxygenation Reactions with Organic Dyes: State of the Art and Future Perspectives. **2023**, 13, 220 1
- 195 Recent advances in photo-induced organic synthesis in water. **2023**, 100766 ○
- 194 Difunctionalization of Dienes, Enynes and Related Compounds via Sequential Radical Addition and Cyclization Reactions. **2023**, 28, 1145 1
- 193 Visible Light-Induced Cross-Dehydrocoupling of 3-Cyanocoumarins with Unactivated Aliphatic Aldehydes Enables Access to 4-Acylated Coumarins. ○
- 192 Recent progress in the oxidative bromination of arenes and heteroarenes. 1

- 191 Evolution and Future of Hetero- and Hydro-Trifluoromethylations of Unsaturated C=C Bonds. 0
- 190 Photocatalytic dehydrations for Ritter reaction. 1
- 189 Probing the influence of substrate binding on photocatalytic dehalogenation with a heteroleptic supramolecular [M<sub>4</sub>La<sub>2</sub>Lb<sub>2</sub>] square containing PDI photosensitizers as ligands. 0
- 188 Supramolecular Coordination Cages for Artificial Photosynthesis and Synthetic Photocatalysis. 1
- 187 Photocatalytic Late-Stage C=C Functionalization. 0
- 186 Visiblelight-induced ternary electron donor-acceptor complex enabled synthesis of 2-(2-hydrazinyl) thiazole derivatives and the assessment of their antioxidant and antidiabetic therapeutic potential. 0
- 185 Visible-light induced metal-free intramolecular reductive cyclisations of ketones with alkynes and allenes. 0
- 184 Organic photoredox catalyzed dealkylation/acylation of tertiary amines to access amides. 0
- 183 Photochemical Methods Applied to DNA Encoded Library (DEL) Synthesis. **2023**, 56, 385-401 0
- 182 Visible-light-induced Csp<sup>3</sup> functionalization of glycine derivatives by cerium catalysis. 0
- 181 Visible-Light-Promoted Cyanoalkylation/Cyclization Cascade Reaction to Assemble Polyheterocycles in Continuous Flow. 0
- 180 Derivatized Benzothiazoles as Two-Photon-Absorbing Organic Photosensitizers Active under Near Infrared Light Irradiation. 7
- 179 Recent advance in nanoparticle catalysts for C=C cross-coupling reaction. **2023**, 41-73 0
- 178 Haloperfluoroalkylation of Unactivated Terminal Alkenes over Phenylphenothiazine-Based Porous Organic Polymers. **2023**, 43, 1136 0
- 177 A metal-free synthesis of pyrimidines from amidines with  $\alpha,\beta$ -unsaturated ketones via tandem [3 + 3] annulation and visible-light-enabled photo-oxidation. 0
- 176 Visible-light-mediated  $\beta$ -acylative divergent alkene difunctionalization with Katritzky salt/CO<sub>2</sub>. 0
- 175 A benzothiadiazole-based Pt(II) coordination polymer as an efficient heterogeneous photocatalyst for visible-light-driven aerobic oxidative coupling of amines. **2023**, 59, 3229-3232 0
- 174 Photo-Induced Functionalization of para -Benzoquinones: Access to Dihydroquinoxalines with a Tetrasubstituted Carbon Stereocenter. **2023**, 365, 892-899 0

- 173 Photocatalytic C-Si Bond Formations Using Pentacoordinate Silylsilicates as Silyl Radical Precursors: Synthetic Tricks Using Old Reagents. **2023**, 25, 1386-1391 ○
- 172 An electron donor-acceptor photoactivation strategy for the synthesis of S-aryl dithiocarbamates using thianthrenium salts under mild aqueous micellar conditions. **2023**, 108403 ○
- 171 Expanding the Chemical Space of Non-Proteinogenic N4-Substituted Asparagine: Racemic, Enantioenriched, and Deuterated Derivatives. ○
- 170 Visible-Light Photoredox-catalyzed Radical Fluoromethoxylation of Olefins. ○
- 169 C-H Functionalization of Heterocycles with Triplet Carbenes by means of an Unexpected 1,2-Alkyl Radical Migration\*\*. ○
- 168 Overcoming the Oxygen Dilemma in Photoredox Catalysis: Near-Infrared (NIR) Light-Triggered Peroxynitrite Generation for Antibacterial Applications. ○
- 167 Oxidovanadium(IV) sulfate catalyses light-driven C-N bond formation. **2023**, 541, 113054 ○
- 166 Elaborating E/Z-Geometry of Alkenes via Cage-Confined Arylation Catalysis of Terminal Olefins. ○
- 165 Evolution of BODIPY as triplet photosensitizers from homogeneous to heterogeneous: The strategies of functionalization to various forms and their recent applications. **2023**, 482, 215074 ○
- 164 Photophysical and electrochemical properties of 9-naphthyl-3,6-diaminocarbazole derivatives and their application as photosensitizers. **2023**, 15, 100176 ○
- 163 Relay Organophotoredox/N-Heterocyclic Carbene Catalysis-Enabled Asymmetric Synthesis of Dibenzoxazepine-Fused Pyrrolidinones. **2023**, 25, 2520-2524 ○
- 162 Synthesis, crystal structure, DFT calculations, and Hirshfeld surface analysis of an NNN pincer type compound. **2023**, 1283, 135252 ○
- 161 Asymmetric counteranion-directed photoredox catalysis. **2023**, 379, 494-499 ○
- 160 Photocatalytic Carboxylation of C-N Bonds in Cyclic Amines with CO<sub>2</sub> by Consecutive Visible-Light-Induced Electron Transfer. **2023**, 62, ○
- 159 Photocatalytic Carboxylation of C-N Bonds in Cyclic Amines with CO<sub>2</sub> by Consecutive Visible-Light-Induced Electron Transfer. **2023**, 135, ○
- 158 Merging Copper(I) Photoredox Catalysis and Iodine(III) Chemistry for the Oxy-monofluoromethylation of Alkenes. **2023**, 135, ○
- 157 Merging Copper(I) Photoredox Catalysis and Iodine(III) Chemistry for the Oxy-monofluoromethylation of Alkenes. **2023**, 62, ○
- 156 Synthesis of  $\beta$ -Aryl Carbonyls via Photoinduced Formation of C-C Bonds. **2023**, 15, ○

- 155 Visible-Light-Induced Photoredox Dehydrative Coupling/Cyclization of N-Arylacrylamides with Hydroxyketones. **2023**, 365, 612-617 ○
- 154 Quantum dots: Another choice to sensitize organic transformations. **2023**, 4, 011304 ○
- 153 Visible-Light-Mediated Vicinal Difunctionalization of Activated Alkynes with Boronic Acids: Substrate-Controlled Rapid Access to 3-Alkylated Coumarins and Unsaturated Spirocycles. **2023**, 25, 810-815 ○
- 152 Photoredox/nickel cooperatively catalyzed radical allylic silylation of allyl acetates Scope and mechanism. **2023**, 418, 312-319 ○
- 151 Polarity Transduction Enables the Formal Electronically Mismatched Radical Addition to Alkenes. **2023**, 145, 2773-2778 ○
- 150 Synthesis of Sulfur-Containing Oxindoles by Photoinduced Alkene Difunctionalization via Sulfur 1,2-Relocation. **2023**, 25, 750-755 ○
- 149 Transition Metal-Free Regioselective Phosphonation of Pyridines: Scope and Mechanism. ○
- 148 Direct Benzylic C<sup>β</sup> Functionalization with Fluorenones under Visible-Light Irradiation. **2023**, 88, 2612-2620 ○
- 147 Kupfer(I) Photokatalysierte Bromnitroalkylierung von Olefinen: Hinweise für effizienten Inner-Sphären Mechanismus. **2023**, 135, ○
- 146 Visible-Light-Mediated Direct Expeditious Photochemical Construction of Spirocyclic-Oxindoles. **2023**, 12, 1
- 145 Metal-free photosensitized radical relay 1,4-carboimination across two distinct olefins. **2023**, 14, 2447-2454 1
- 144 Copper(I) Photocatalyzed Bromonitroalkylation of Olefins: Evidence for Highly Efficient Inner-Sphere Pathways. **2023**, 62, ○
- 143 Employing Long-Range Inductive Effects to Modulate Metal-to-Ligand Charge Transfer Photoluminescence in Homoleptic Cu(I) Complexes. **2023**, 62, 3248-3259 ○
- 142 pH-getriggerte Rückgewinnung von photokatalytischen Partikeln aus organischen Polymeren zur Herstellung hochwertiger Verbindungen und verbesserter Recyclingfähigkeit. **2023**, 135, ○
- 141 pH-Triggered Recovery of Organic Polymer Photocatalytic Particles for the Production of High Value Compounds and Enhanced Recyclability. **2023**, 62, ○
- 140 Metal-Free, Light-Mediated, Site-Specific, Radical C<sup>6</sup> Alkylation of Purines with Alcohols Intervened by Oxalates without Catalysts. **2023**, 26, ○
- 139 Polypyridine Iridium(III) and Ruthenium(II) Complexes for Homogeneous and Graphene-Supported Photoredox Catalysis. **2023**, 15, ○
- 138 Water-Soluble Metallo-Supramolecular Nanoreactors for Mediating Visible-Light-Promoted Cross-Dehydrogenative Coupling Reactions. **2023**, 17, 3723-3736 ○



- 137 Visible Light-Triggered Radical Annulation of ortho -Thioaryl Ynones: A General Approach to Prepare 3-Sulfenylthiochromones. **2023**, 15, ○
- 136 Metal-Free, Photoredox-Catalyzed Synthesis of Quinazolin-4(3 H )-ones and Benzo[4,5]imidazo[1,2-c]quinazolines Using Trialkylamines as Alkyl Synthons. **2023**, 26, ○
- 135 Carbazole-based photocatalyst (4CzIPN) as a novel donor-acceptor (D-A) fluorophore catalyzed gram-scale 2-amino-4H-chromene scaffolds photosynthesis via a proton-coupled electron transfer (PCET) process. **2023**, 144, 104699 ○
- 134 Construction of gel networks via [2+2] photocycloaddition. **2023**, 11, 2826-2830 ○
- 133 Electrochemical Cycloaddition Reactions of Alkene Radical Cations: A Route toward Cyclopropanes and Cyclobutanes. **2023**, 25, 1142-1146 ○
- 132 Continuous nucleation of metallic nanoparticles via photocatalytic reduction. **2023**, 14, 2860-2865 ○
- 131 Photocatalytic deconstructive aliphatic carbon-carbon bond cleavage and functionalization of unactivated alcohols. **2023**, 3, 100530 ○
- 130 Synergistic Steric and Electronic Effects on the Photoredox Catalysis by a Multivariate Library of Titania Metal-Organic Frameworks. **2023**, 145, 4589-4600 ○
- 129 Photoredox-Nickel Dual-Catalyzed C-Alkylation of Secondary Nitroalkanes: Access to Sterically Hindered  $\beta$ -Tertiary Amines. **2023**, 145, 4707-4715 1
- 128 Applications of Hantzsch Esters in Organocatalytic Enantioselective Synthesis. **2023**, 13, 419 ○
- 127 Nanoengineering Triplet-Triplet Annihilation Upconversion: From Materials to Real-World Applications. **2023**, 17, 3259-3288 1
- 126 Visible-light photoredox catalysis with organic polymers. **2023**, 4, 011307 ○
- 125 Highly E-Selective Olefin Synthesis Catalysed by Novel Quinoxalinone Photocatalyst under Visible Light Conditions. ○
- 124 Recent advances in carbosilylation of alkenes and alkynes. **2023**, 21, 2272-2294 ○
- 123 Aminals as powerful XAT-reagents: activation of fluorinated alkyl chlorides. **2023**, 14, 3229-3234 ○
- 122 Synthesis of New Amino-Functionalized Porphyrins: Preliminary Study of Their Organophotocatalytic Activity. **2023**, 28, 1997 ○
- 121 Organophotocatalytic Mechanisms: Simplicity or Nucleo? Diverting Reactive Pathways by Modifications of Catalyst Structure, Redox States and Substrate Preassemblies. 1
- 120 Facile access to gem-difluorocyclopropanes via an N-heterocyclic carbene-catalyzed radical relay/cyclization strategy. **2023**, 10, 1669-1674 ○

- 119 Reactive fragments targeting carboxylate residues employing direct to biology, high-throughput chemistry. ○
- 118 Visible light-enabled alkylation of enol acetates with alkylboronic acids for the synthesis of  $\beta$ -alkyl ketones. **2023**, 10, 1710-1714 ○
- 117 Competent production of hydrogen and hydrogenation of carboxylic acids using urea-rich waste water over visible-light-responsive rare earth doped photocatalyst. **2023**, 144, 104734 ○
- 116 Base-free synthesis of benchtop stable Ru(III)NHC complexes from RuCl<sub>3</sub>·3H<sub>2</sub>O and their use as precursors for Ru(II)NHC complexes. **2023**, 52, 4176-4185 ○
- 115 Synergy of monoatomic copper and oxygen vacancy formed in-situ on ultrathin TiO<sub>2</sub>(B) nanosheet for efficient photocatalytic dehalogenative C–C coupling synthesis of bibenzyl. ○
- 114 Visible-Light-Photocatalyzed Dicarbofunctionalization of Conjugated Alkenes with Ketone-Based Dihydroquinazolinones. **2023**, 25, 1441-1446 ○
- 113 Bismuth vanadate: A versatile heterogeneous catalyst for photocatalytic functionalization of C(sp<sup>2</sup>)–H bonds. **2023**, 46, 157-166 ○
- 112 Janus-type emission from a cyclometalated iron(III) complex. **2023**, 15, 468-474 ○
- 111 Access to Azetidines via Gold Mediated Energy Transfer Photocatalysis. **2023**, 25, 1403-1408 ○
- 110 Generation of Photoinduced Phenalenyl-Based Radicals: Towards Designing Reductive C–C Coupling Catalysis. ○
- 109 Applications of red light photoredox catalysis in organic synthesis. **2023**, 21, 2472-2485 ○
- 108 Photoredox-Catalyzed Thiocyanative Cyclization of Biaryl Ynones to Thiocyanated Spiro[5.5]trienones: An External-Oxidant- and Transition-Metal-Free Approach. ○
- 107 Catalyst-Free Photoinduced C–C Bond Formations. ○
- 106 Visible-Light Photoredox-Catalyzed Giese Reaction of  $\beta$ -Silyl Ethers with Various Michael Acceptors. **2023**, 88, 3555-3566 ○
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