David A Nicewicz

List of Publications by Year
in descending order

70	15,267	47	71
papers	citations	h-index	g-index
		47006	85541

78	78	78	8754
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Organic Photoredox Catalysis. Chemical Reviews, 2016, 116, 10075-10166.	47.7	4,263
2	Merging Photoredox Catalysis with Organocatalysis: The Direct Asymmetric Alkylation of Aldehydes. Science, 2008, 322, 77-80.	12.6	2,023
3	Recent Applications of Organic Dyes as Photoredox Catalysts in Organic Synthesis. ACS Catalysis, 2014, 4, 355-360.	11.2	712
4	Site-selective arene C-H amination via photoredox catalysis. Science, 2015, 349, 1326-1330.	12.6	712
5	Experimental and Calculated Electrochemical Potentials of Common Organic Molecules for Applications to Single-Electron Redox Chemistry. Synlett, 2016, 27, 714-723.	1.8	553
6	A General Approach to Catalytic Alkene Anti-Markovnikov Hydrofunctionalization Reactions via Acridinium Photoredox Catalysis. Accounts of Chemical Research, 2016, 49, 1997-2006.	15.6	404
7	Catalytic hydrotrifluoromethylation of styrenes and unactivated aliphatic alkenes via an organic photoredox system. Chemical Science, 2013, 4, 3160.	7.4	395
8	Photoredox-Catalyzed Câ€"H Functionalization Reactions. Chemical Reviews, 2022, 122, 1925-2016.	47.7	388
9	Direct Catalytic Anti-Markovnikov Hydroetherification of Alkenols. Journal of the American Chemical Society, 2012, 134, 18577-18580.	13.7	321
10	Discovery and characterization of an acridine radical photoreductant. Nature, 2020, 580, 76-80.	27.8	277
11	Anti-Markovnikov Hydroamination of Alkenes Catalyzed by an Organic Photoredox System. Journal of the American Chemical Society, 2013, 135, 9588-9591.	13.7	268
12	Mechanistic Insight into the Photoredox Catalysis of Anti-Markovnikov Alkene Hydrofunctionalization Reactions. Journal of the American Chemical Society, 2014, 136, 17024-17035.	13.7	268
13	Hydrodecarboxylation of Carboxylic and Malonic Acid Derivatives via Organic Photoredox Catalysis: Substrate Scope and Mechanistic Insight. Journal of the American Chemical Society, 2015, 137, 11340-11348.	13.7	260
14	Acridinium-Based Photocatalysts: A Sustainable Option in Photoredox Catalysis. Journal of Organic Chemistry, 2016, 81, 7244-7249.	3.2	259
15	The direct anti-Markovnikov addition of mineral acids to styrenes. Nature Chemistry, 2014, 6, 720-726.	13.6	244
16	<i>anti</i>â€Markovnikov Hydroamination of Alkenes Catalyzed by a Twoâ€Component Organic Photoredox System: Direct Access to Phenethylamine Derivatives. Angewandte Chemie - International Edition, 2014, 53, 6198-6201.	13.8	229
17	Direct Câ€"H Cyanation of Arenes via Organic Photoredox Catalysis. Journal of the American Chemical Society, 2017, 139, 2880-2883.	13.7	187
18	Direct Catalytic Anti-Markovnikov Addition of Carboxylic Acids to Alkenes. Journal of the American Chemical Society, 2013, 135, 10334-10337.	13.7	178

#	ARTICLE	IF	CITATIONS
19	A General Strategy for Aliphatic Câ€“H Functionalization Enabled by Organic Photoredox Catalysis. Journal of the American Chemical Society, 2018, 140, 4213-4217.	13.7	175
20	Cation Radical Accelerated Nucleophilic Aromatic Substitution via Organic Photoredox Catalysis. Journal of the American Chemical Society, 2017, 139, 16100-16104.	13.7	168
21	Visible Light Photoinitiated Metal-Free Living Cationic Polymerization of 4-Methoxystyrene. Journal of the American Chemical Society, 2015, 137, 7580-7583.	13.7	167
22	Generation and Alkylation of Î±-Carbamyl Radicals via Organic Photoredox Catalysis. Journal of the American Chemical Society, 2018, 140, 9056-9060.	13.7	145
23	Synthesis of cyclobutane lignans via an organic single electron oxidantâ€“electron relay system. Chemical Science, 2013, 4, 2625.	7.4	144
24	Direct Aryl Câˆ’H Amination with Primary Amines Using Organic Photoredox Catalysis. Angewandte Chemie - International Edition, 2017, 56, 15644-15648.	13.8	137
25	Synthesis of Highly Substituted Tetrahydrofurans by Catalytic Polarâ€Radicalâ€Crossover Cycloadditions of Alkenes and Alkenols. Angewandte Chemie - International Edition, 2013, 52, 3967-3971.	13.8	136
26	Predictive Model for Site-Selective Aryl and Heteroaryl Câ€“H Functionalization via Organic Photoredox Catalysis. Journal of the American Chemical Society, 2017, 139, 11288-11299.	13.7	133
27	Direct arene Câ€“H fluorination with ¹⁸ F ^{âˆ’} via organic photoredox catalysis. Science, 2019, 364, 1170-1174.	12.6	120
28	Divergent regioselectivity in photoredox-catalyzed hydrofunctionalization reactions of unsaturated amides and thioamides. Chemical Science, 2015, 6, 270-274.	7.4	99
29	Butyrolactone Synthesis via Polar Radical Crossover Cycloaddition Reactions: Diastereoselective Syntheses of Methylenolactocin and Protolichesterinic Acid. Organic Letters, 2014, 16, 4810-4813.	4.6	86
30	Amide and Amine Nucleophiles in Polar Radical Crossover Cycloadditions: Synthesis of Î³-Lactams and Pyrrolidines. Organic Letters, 2015, 17, 1316-1319.	4.6	77
31	Three-Component Coupling Reactions of Silylglyoxylates, Alkynes, and Aldehydes:Â A Chemoselective One-Step Glycolate Aldol Construction. Journal of the American Chemical Society, 2005, 127, 6170-6171.	13.7	74
32	Nucleophilic Aromatic Substitution of Unactivated Fluoroarenes Enabled by Organic Photoredox Catalysis. Journal of the American Chemical Society, 2020, 142, 17187-17194.	13.7	72
33	Visibleâ€Lightâ€Mediated [4+2] Cycloaddition of Styrenes: Synthesis of Tetralin Derivatives. Angewandte Chemie - International Edition, 2017, 56, 6896-6900.	13.8	68
34	Reversing the Regioselectivity of Halofunctionalization Reactions through Cooperative Photoredox and Copper Catalysis. Angewandte Chemie - International Edition, 2017, 56, 2097-2100.	13.8	63
35	Synthesis and Characterization of Acridinium Dyes for Photoredox Catalysis. Synlett, 2019, 30, 827-832.	1.8	63
36	Enantioselective Cyanation/Brook Rearrangement/C-Acylation Reactions of Acylsilanes Catalyzed by Chiral Metal Alkoxides. Journal of Organic Chemistry, 2004, 69, 6548-6555.	3.2	62

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37	Ambient-Temperature Newmanâ€“Kwart Rearrangement Mediated by Organic Photoredox Catalysis. Journal of the American Chemical Society, 2015, 137, 15684-15687.	13.7	62
38	Tandem Carbonâ ́Carbon Bond Constructions via Catalyzed Cyanation/Brook Rearrangement/C-Acylation Reactions of Acylsilanes. Organic Letters, 2002, 4, 2957-2960.	4.6	61
39	Enantioselective counter-anions in photoredox catalysis: The asymmetric cation radical Diels-Alder reaction. Tetrahedron, 2018, 74, 3266-3272.	1.9	61
40	Self-Consistent Synthesis of the Squalene Synthase Inhibitor Zaragozic Acid C via Controlled Oligomerization. Journal of the American Chemical Society, 2008, 130, 17281-17283.	13.7	59
41	Silyl Glyoxylates. Conception and Realization of Flexible Conjunctive Reagents for Multicomponent Coupling. Journal of Organic Chemistry, 2012, 77, 4503-4515.	3.2	58
42	Homobenzylic Oxygenation Enabled by Dual Organic Photoredox and Cobalt Catalysis. Journal of the American Chemical Society, 2020, 142, 10325-10330.	13.7	58
43	Catalytic Asymmetric Acylation of (Silyloxy)nitrile Anions. Angewandte Chemie - International Edition, 2004, 43, 2652-2655.	13.8	57
44	Organic Photoredox Catalysis as a General Strategy for Anti-Markovnikov Alkene Hydrofunctionalization. Synlett, 2014, 25, 1191-1196.	1.8	55
45	Direct Synthesis of Polysubstituted Aldehydes via Visibleâ€Light Catalysis. Angewandte Chemie - International Edition, 2018, 57, 2174-2178.	13.8	53
46	19F- and 18F-arene deoxyfluorination via organic photoredox-catalysed polarity-reversed nucleophilic aromatic substitution. Nature Catalysis, 2020, 3, 734-742.	34.4	53
47	Site-Selective Câ€“H Alkylation of Piperazine Substrates via Organic Photoredox Catalysis. Organic Letters, 2020, 22, 679-683.	4.6	50
48	Synthesis of Î±-Benzyloxyamino-Î³-butyrolactones via a Polar Radical Crossover Cycloaddition Reaction. Organic Letters, 2015, 17, 6082-6085.	4.6	49
49	Arene Cyanation via Cation-Radical Accelerated-Nucleophilic Aromatic Substitution. Organic Letters, 2019, 21, 7114-7118.	4.6	47
50	Cyclizationâ€“endoperoxidation cascade reactions of dienes mediated by a pyrylium photoredox catalyst. Beilstein Journal of Organic Chemistry, 2014, 10, 1272-1281.	2.2	43
51	Regioselective Arene Câ ́H Alkylation Enabled by Organic Photoredox Catalysis. Angewandte Chemie - International Edition, 2020, 59, 7425-7429.	13.8	40
52	Direct Aryl Câ ́H Amination with Primary Amines Using Organic Photoredox Catalysis. Angewandte Chemie, 2017, 129, 15850-15854.	2.0	39
53	Development of a Large-Enrollment Course-Based Research Experience in an Undergraduate Organic Chemistry Laboratory: Structureâ€“Function Relationships in Pyrylium Photoredox Catalysts. Journal of Chemical Education, 2020, 97, 1572-1578.	2.3	37
54	Î²-Functionalization of Saturated Aza-Heterocycles Enabled by Organic Photoredox Catalysis. ACS Catalysis, 2021, 11, 3153-3158.	11.2	37

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55	Oxidation of alkyl benzenes by a flavin photooxidation catalyst on nanostructured metal-oxide films. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9279-9283.	7.1	36
56	Ketoneâ€"Olefin Coupling of Aliphatic and Aromatic Carbonyls Catalyzed by Excited-State Acridine Radicals. Journal of the American Chemical Society, 2022, 144, 11888-11896.	13.7	34
57	Cation Radical-Accelerated Nucleophilic Aromatic Substitution for Amination of Alkoxyarenes. Organic Letters, 2020, 22, 4817-4822.	4.6	33
58	Mechanistic Investigations into the Cation Radical Newmanâ€"Kwart Rearrangement. ACS Catalysis, 2019, 9, 3926-3935.	11.2	27
59	Visibleâ€Lightâ€Mediated [4+2] Cycloaddition of Styrenes: Synthesis of Tetralin Derivatives. Angewandte Chemie, 2017, 129, 7000-7004.	2.0	25
60	Arene radiofluorination enabled by photoredox-mediated halide interconversion. Nature Chemistry, 2022, 14, 216-223.	13.6	25
61	Reversing the Regioselectivity of Halofunctionalization Reactions through Cooperative Photoredox and Copper Catalysis. Angewandte Chemie, 2017, 129, 2129-2132.	2.0	21
62	Direct Synthesis of Polysubstituted Aldehydes via Visibleâ€Light Catalysis. Angewandte Chemie, 2018, 130, 2196-2200.	2.0	19
63	Direct Radiofluorination of Arene Câ€"H Bonds via Photoredox Catalysis Using a Peroxide as the Terminal Oxidant. Organic Letters, 2020, 22, 7971-7975.	4.6	18
64	Alcohol mediated degenerate chain transfer controlled cationic polymerisation of para-alkoxystyrene. Polymer Chemistry, 2019, 10, 4126-4133.	3.9	15
65	Anti-Markovnikov Hydroazidation of Activated Olefins via Organic Photoredox Catalysis. Synlett, 2020, 31, 55-59.	1.8	15
66	Direct Synthesis of Bicyclic Acetals via Visible Light Catalysis. IScience, 2020, 23, 101395.	4.1	15
67	Regioselective Arene Câˆ'H Alkylation Enabled by Organic Photoredox Catalysis. Angewandte Chemie, 2020, 132, 7495-7499.	2.0	13
68	Design and Evaluation of Artificial Hybrid Photoredox Biocatalysts. ChemBioChem, 2020, 21, 3146-3150.	2.6	10
69	Milled Dry Ice as a C1 Source for the Carboxylation of Aryl Halides. Synlett, 2021, 32, 814-816.	1.8	9
70	A Diastereoselective Synthesis of the ABCD Ring System of Rubriflordilactone B. Synlett, 0, , .	1.8	0