

Andrey Antonchick

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	A Highly Enantioselective Brønsted Acid Catalyzed Cascade Reaction: Organocatalytic Transfer Hydrogenation of Quinolines and their Application in the Synthesis of Alkaloids. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 3683-3686.	7.2	681
2	The Pictet-Spengler Reaction in Nature and in Organic Chemistry. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8538-8564.	7.2	581
3	Highly enantioselective synthesis and cellular evaluation of spirooxindoles inspired by natural products. <i>Nature Chemistry</i> , 2010, 2, 735-740.	6.6	531
4	Catalytic Enantioselective 1,3-Dipolar Cycloadditions of Azomethine Ylides for Biology-Oriented Synthesis. <i>Accounts of Chemical Research</i> , 2014, 47, 1296-1310.	7.6	418
5	Organocatalytic, Oxidative, Intramolecular C-H Bond Amination and Metal-Free Cross-Coupling of Unactivated Arenes at Ambient Temperature. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8605-8608.	7.2	358
6	Dual Catalysis: A Combined Enantioselective Brønsted Acid and Metal-Free Catalyzed Reaction Metal Catalysis with Chiral Counterions. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6903-6906.	7.2	314
7	Remarkably Low Catalyst Loading in Brønsted Acid Catalyzed Transfer Hydrogenations: Enantioselective Reduction of Benzoxazines, Benzothiazines, and Benzoxazinones. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6751-6755.	7.2	295
8	Chiral Brønsted Acids in the Catalytic Asymmetric Nazarov Cyclization The First Enantioselective Organocatalytic Electrocyclic Reaction. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2097-2100.	7.2	287
9	General Enantioselective C-H Activation with Efficiently Tunable Cyclopentadienyl Ligands. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2429-2434.	7.2	287
10	Organocatalytic Enantioselective Reduction of Pyridines. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4562-4565.	7.2	286
11	Direct Selective Oxidative Cross-Coupling of Simple Alkanes with Heteroarenes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3267-3271.	7.2	278
12	Metal-Free Radical Azidoarylation of Alkenes: Rapid Access to Oxindoles by Cascade C-N and C-C Bond-Forming Reactions. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7985-7989.	7.2	254
13	Metal-Free Oxidative Carbon-Heteroatom Bond Formation Through C-H Bond Functionalization. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 5769-5804.	1.2	251
14	Metal-Free Cross-Dehydrogenative Coupling of Heterocycles with Aldehydes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2082-2086.	7.2	248
15	Asymmetric Brønsted Acid Catalysis: Catalytic Enantioselective Synthesis of Highly Biologically Active Dihydroquinazolinones. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 908-910.	7.2	197
16	A framework for identification of actionable cancer genome dependencies in small cell lung cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 17034-17039.	3.3	167
17	Palladium-Catalyzed Double C-H Activation Directed by Sulfoxides in the Synthesis of Dibenzothiophenes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5217-5220.	7.2	160
18	Metal-Free Oxidative C-C Bond Formation through C-H Bond Functionalization. <i>Chemistry - A European Journal</i> , 2015, 21, 14678-14693.	1.7	151

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19	The therapeutic potential of phosphatase inhibitors. <i>Current Opinion in Chemical Biology</i> , 2009, 13, 272-283.	2.8	144
20	Organocatalytic, Oxidative, Intermolecular Amination and Hydrazination of Simple Arenes at Ambient Temperature. <i>Organic Letters</i> , 2012, 14, 5518-5521.	2.4	132
21	Regioselective Metal-Free Cross-Coupling of Quinoline <i>N</i> -Oxides with Boronic Acids. <i>Organic Letters</i> , 2015, 17, 3134-3137.	2.4	132
22	Brønsted-Acid-Catalyzed Activation of Nitroalkanes: A Direct Enantioselective Aza-Henry Reaction. <i>Organic Letters</i> , 2008, 10, 1731-1734.	2.4	128
23	Metal-Free Brønsted Acid Catalyzed Transfer Hydrogenation - New Organocatalytic Reduction of Quinolines. <i>Synlett</i> , 2006, 2006, 1071-1074.	1.0	120
24	A Highly Enantioselective Brønsted Acid Catalyzed Reaction Cascade. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5836-5838.	7.2	117
25	General Enantioselective C-H Activation with Efficiently Tunable Cyclopentadienyl Ligands. <i>Angewandte Chemie</i> , 2017, 129, 2469-2474.	1.6	117
26	Highly Enantioselective Catalytic [6+3] Cycloadditions of Azomethine Ylides. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9512-9516.	7.2	115
27	Asymmetric Synthesis of Indolines by Catalytic Enantioselective Reduction of 3-Indoles. <i>Organic Letters</i> , 2010, 12, 4604-4607.	2.4	113
28	Catalytic Enantioselective Synthesis of Functionalized Tropanes Reveals Novel Inhibitors of Hedgehog Signaling. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12892-12896.	7.2	111
29	Organocatalytic Oxidative Annulation of Benzamide Derivatives with Alkynes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7324-7327.	7.2	109
30	Metal-Free Annulation of Arenes with 2-Aminopyridine Derivatives: The Methyl Group as a Traceless Non-Chelating Directing Group. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8163-8166.	7.2	109
31	Rhodium(III)-Catalyzed Direct Regioselective Synthesis of 7-Substituted Indoles. <i>Organic Letters</i> , 2013, 15, 5662-5665.	2.4	108
32	Enantioselective Formal C(sp ³)-H Bond Activation in the Synthesis of Bioactive Spiropyrazolone Derivatives. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 307-311.	7.2	108
33	Metal-free direct oxidative intermolecular diarylation of anilides at ambient temperature assisted by cascade selective formation of C=C and C=N bonds. <i>Chemical Communications</i> , 2012, 48, 3194.	2.2	105
34	Catalytic Asymmetric Aminoallylation of Aldehydes: A Catalytic Enantioselective Aza-Cope Rearrangement. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 10090-10093.	7.2	102
35	Hypervalent Iodine-Mediated Selective Oxidative Functionalization of (Thio)chromones with Alkanes. <i>Chemistry - A European Journal</i> , 2014, 20, 4568-4572.	1.7	97
36	Hypervalent Iodine(III) in Direct Carbon-Hydrogen Bond Functionalization. <i>Synlett</i> , 2015, 26, 1785-1803.	1.0	95

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37	Hypervalent Iodine(III) in Direct Oxidative Amination of Arenes with Heteroaromatic Amines. <i>Organic Letters</i> , 2015, 17, 4588-4591.	2.4	94
38	C ^α -H Bond Activation for the Synthesis of Heterocyclic Atropisomers Yields Hedgehog Pathway Inhibitors. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14250-14254.	7.2	93
39	Iridium(III)-catalyzed regioselective C7-sulfonamidation of indoles. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 4804-4808.	1.5	88
40	Cascade Multicomponent Synthesis of Indoles, Pyrazoles, and Pyridazinones by Functionalization of Alkenes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11960-11964.	7.2	85
41	Direct enantioselective access to 4-substituted tetrahydroquinolines by catalytic asymmetric transfer hydrogenation of quinolines. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 6844.	1.5	83
42	Programmable enantioselective one-pot synthesis of molecules with eight stereocenters. <i>Nature Chemical Biology</i> , 2012, 8, 428-430.	3.9	75
43	Enantioselective synthesis of the spirotryprostatin A scaffold. <i>Tetrahedron</i> , 2011, 67, 10195-10202.	1.0	66
44	Enantioselective Synthesis of Five-Membered-Ring Atropisomers with a Chiral Rh(III) Complex. <i>Organic Letters</i> , 2020, 22, 9199-9202.	2.4	66
45	Copper(I)-Catalyzed Radical Addition of Acetophenones to Alkynes in Furan Synthesis. <i>Organic Letters</i> , 2015, 17, 4300-4303.	2.4	64
46	Highly Enantioselective Catalytic Vinyllogous Propargylation of Coumarins Yields a Class of Autophagy Inhibitors. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11232-11236.	7.2	64
47	Discovery of Inhibitors of the Wnt and Hedgehog Signaling Pathways through the Catalytic Enantioselective Synthesis of an Iridoid-Inspired Compound Collection. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12404-12408.	7.2	63
48	Copper-Catalyzed (2+1) Annulation of Acetophenones with Maleimides: Direct Synthesis of Cyclopropanes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14845-14848.	7.2	60
49	Stereoselective Synthesis of Cyclobutanes by Contraction of Pyrrolidines. <i>Journal of the American Chemical Society</i> , 2021, 143, 18864-18870.	6.6	60
50	Enantiodivergent Combination of Natural Product Scaffolds Enabled by Catalytic Enantioselective Cycloaddition. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7761-7765.	7.2	57
51	Natural product fragment combination to performance-diverse pseudo-natural products. <i>Nature Communications</i> , 2021, 12, 1883.	5.8	57
52	Catalytic asymmetric exo-selective [6+3] cycloaddition of iminoesters with fulvenes. <i>Chemical Communications</i> , 2013, 49, 7800.	2.2	55
53	Enantioselective Synthesis of the Spirotropanyl Oxindole Scaffold through Bimetallic Relay Catalysis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14493-14497.	7.2	54
54	Determination of brassinosteroids in the sub-femtomolar range using dansyl-3-aminophenylboronate derivatization and electrospray mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 816-821.	0.7	53

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55	Radical trideuteromethylation with deuterated dimethyl sulfoxide in the synthesis of heterocycles and labelled building blocks. <i>Chemical Communications</i> , 2016, 52, 12486-12489.	2.2	53
56	Nitrosonium ion catalysis: aerobic, metal-free cross-dehydrogenative carbon-heteroatom bond formation. <i>Chemical Communications</i> , 2018, 54, 13022-13025.	2.2	49
57	Highly Enantioselective Catalytic Synthesis of Neurite Growth-Promoting Secoyohimbanes. <i>Chemistry and Biology</i> , 2013, 20, 500-509.	6.2	47
58	Oxidative regioselective amination of chromones exposes potent inhibitors of the hedgehog signaling pathway. <i>Chemical Communications</i> , 2015, 51, 925-928.	2.2	45
59	Rhodium(III)-Catalyzed Direct Oxidative Cross Coupling at the C5 Position of Chromones with Alkenes. <i>Organic Letters</i> , 2012, 14, 6108-6111.	2.4	43
60	C-H Bond Activation for the Synthesis of Heterocyclic Atropisomers Yields Hedgehog Pathway Inhibitors. <i>Angewandte Chemie</i> , 2018, 130, 14446-14450.	1.6	43
61	Aerobic, Metal-Free, and Catalytic Dehydrogenative Coupling of Heterocycles: En Route to Hedgehog Signaling Pathway Inhibitors. <i>Organic Letters</i> , 2018, 20, 1978-1981.	2.4	39
62	The Pseudo Natural Product Myokinasib Is a Myosin Light Chain Kinase 1 Inhibitor with Unprecedented Chemotype. <i>Cell Chemical Biology</i> , 2019, 26, 512-523.e5.	2.5	35
63	Metal-Free C=O Bond Functionalization: Catalytic Intramolecular and Intermolecular Benzoylation of Arenes. <i>Organic Letters</i> , 2018, 20, 3911-3914.	2.4	34
64	Synthesis of [26-2H3]brassinosteroids. <i>Steroids</i> , 2002, 67, 587-595.	0.8	33
65	Oxidative Heterocycle Formation Using Hypervalent Iodine(III) Reagents. <i>Topics in Current Chemistry</i> , 2015, 373, 75-104.	4.0	31
66	Catching $\dot{\text{I}}\pm$ -aminoalkyl radicals: cyclization between tertiary alkylanilines and alkenes. <i>Tetrahedron</i> , 2016, 72, 7715-7721.	1.0	31
67	Catalytic Transfer Hydrogenation Using Biomass as Hydrogen Source. <i>ChemSusChem</i> , 2019, 12, 3094-3098.	3.6	31
68	Enantioselective Formal C(sp ³)-H Bond Activation in the Synthesis of Bioactive Spiropyrazolone Derivatives. <i>Angewandte Chemie</i> , 2019, 131, 313-317.	1.6	30
69	[1+1+1] Cyclotrimerization for the Synthesis of Cyclopropanes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5290-5293.	7.2	29
70	Selective, Catalytic, and Metal-Free Coupling of Electron-Rich Phenols and Anilides Using Molecular Oxygen as Terminal Oxidant. <i>Organic Letters</i> , 2018, 20, 4077-4080.	2.4	29
71	Metal-Free Oxidative C-H Bond Amination at Ambient Temperature. <i>Synlett</i> , 2012, 23, 809-813.	1.0	28
72	[3,3]-Claisen rearrangements in 24 $\dot{\text{I}}\pm$ -methyl steroid synthesis. <i>Steroids</i> , 2002, 67, 597-603.	0.8	26

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73	Synthesis of [26,27-2H ₆]brassinosteroids from 23,24-bisnorcholenic acid methyl ester. <i>Steroids</i> , 2004, 69, 617-628.	0.8	26
74	Preparation of (25)- and (25)-26-functionalized steroids as tools for biosynthetic studies of cholic acids. <i>Steroids</i> , 2005, 70, 551-562.	0.8	26
75	Phosphine-catalyzed dearomatizing [3+2] annulations of isoquinolinium methylides with allenes. <i>Chemical Communications</i> , 2015, 51, 1054-1057.	2.2	25
76	Biosynthesis of 2,3-epoxybrassinosteroids in seedlings of <i>Secale cereale</i> . <i>Phytochemistry</i> , 2003, 63, 771-776.	1.4	24
77	Analysis of Underivatized Brassinosteroids by HPLC/APCI-MS. Occurrence of 3-Epibrassinolide in <i>Arabidopsis thaliana</i> . <i>Collection of Czechoslovak Chemical Communications</i> , 2001, 66, 1729-1734.	1.0	23
78	2,3-Epoxybrassinosteroids are intermediates in the biosynthesis of castasterone in seedlings of. <i>Phytochemistry</i> , 2005, 66, 65-72.	1.4	23
79	Regioselective annulation of nitrosopyridine with alkynes: straightforward synthesis of N-oxide-imidazopyridines. <i>Chemical Communications</i> , 2015, 51, 6119-6122.	2.2	23
80	Sustainable, Oxidative, and Metal-Free Annulation. <i>Chemistry - A European Journal</i> , 2017, 23, 10936-10946.	1.7	22
81	Metal-Catalyzed Oxidative Coupling of Ketones and Ketone Enolates. <i>Synthesis</i> , 2018, 50, 2150-2162.	1.2	22
82	Synthesis of hexadeuterated 23-dehydroxybrassinosteroids. <i>Steroids</i> , 2002, 67, 1101-1108.	0.8	21
83	Catalytic Selective Metal-Free Cross-Coupling of Heteroaromatic <i>N</i> -Oxides with Organosilanes. <i>Organic Letters</i> , 2019, 21, 3407-3411.	2.4	21
84	Metal-Free Electrocyclization at Ambient Temperature: Synthesis of 1-Arylcarbazoles. <i>Synthesis</i> , 2012, 44, 2325-2332.	1.2	20
85	Enantiodivergent Combination of Natural Product Scaffolds Enabled by Catalytic Enantioselective Cycloaddition. <i>Angewandte Chemie</i> , 2016, 128, 7892-7896.	1.6	20
86	A Metal-Free Oxidative Dehydrogenative Diels-Alder Reaction for Selective Functionalization of Alkylbenzenes. <i>Chemistry - A European Journal</i> , 2017, 23, 7825-7829.	1.7	19
87	Rhodium(II)-Catalyzed Enantioselective Synthesis of Troponoids. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7653-7656.	7.2	18
88	Catalytic Aerobic Oxidation and Tandem Enantioselective Cycloaddition in Cascade Multicomponent Synthesis. <i>Chemistry - A European Journal</i> , 2015, 21, 4913-4917.	1.7	17
89	Selective transition-metal-free vicinal cis-dihydroxylation of saturated hydrocarbons. <i>Chemical Science</i> , 2017, 8, 452-457.	3.7	17
90	Synthesis of the B-seco limonoid scaffold. <i>Chemical Communications</i> , 2011, 47, 6545.	2.2	16

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91	Enantioselective Synthesis of the Spirotropanyl Oxindole Scaffold through Bimetallic Relay Catalysis. <i>Angewandte Chemie</i> , 2018, 130, 14701-14705.	1.6	16
92	Reactive nitrogen species: Nitrosonium ions in organic synthesis. <i>Tetrahedron</i> , 2019, 75, 1131-1143.	1.0	16
93	Electrochemical Dehydrogenative C(sp ²) ^α H Amination. <i>Chemistry - A European Journal</i> , 2021, 27, 8008-8012.	1.7	15
94	Biology-oriented synthesis of benzopyrano[3,4-c]pyrrolidines. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 2895-2903.	1.4	14
95	[1+1+1] Cyclotrimerization for the Synthesis of Cyclopropanes. <i>Angewandte Chemie</i> , 2016, 128, 5376-5379.	1.6	11
96	Dynamic Catalytic Highly Enantioselective 1,3-Dipolar Cycloadditions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20012-20020.	7.2	11
97	The Pseudo-Natural Product Rhonin Targets RHOGDI. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	11
98	Trienamine catalyzed asymmetric synthesis and biological investigation of a cytochalasin B-inspired compound collection. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 50-54.	1.5	10
99	Enantioselective Organocatalytic Synthesis of a Secoyohimbane-Inspired Compound Collection with Neurotogenic Activity. <i>ChemBioChem</i> , 2017, 18, 1098-1108.	1.3	8
100	Cascade aza-Wittig/6π-Electrocyclization in the Synthesis of 1,6-Dihydropyridines. <i>Organic Letters</i> , 2021, 23, 6024-6029.	2.4	8
101	Catalytic Enantioselective Synthesis of a Pyrrolizidine-Alkaloid-Inspired Compound Collection with Antiplasmodial Activity. <i>Journal of Organic Chemistry</i> , 2018, 83, 7033-7041.	1.7	7
102	Probing Embryonic Development Enables the Discovery of Unique Small-Molecule Bone Morphogenetic Protein Potentiators. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 3978-3990.	2.9	7
103	Enantiomerically Enriched 1,2-P,N-Bidentate Ferrocenyl Ligands for 1,3-Dipolar Cycloaddition and Transfer Hydrogenation Reactions. <i>Molecules</i> , 2018, 23, 1311.	1.7	6
104	Rhodium(III)-Catalyzed Enantioselective Benzamidation of Cyclopropenes. <i>Synthesis</i> , 2021, 53, 2192-2200.	1.2	6
105	Biology-Oriented Synthesis of 3,3-Spiro(2-tetrahydrofuran)oxindoles. <i>Synthesis</i> , 2016, 49, 87-95.	1.2	5
106	Highly Enantioselective Catalytic Vinyllogous Propargylation of Coumarins Yields a Class of Autophagy Inhibitors. <i>Angewandte Chemie</i> , 2017, 129, 11384-11388.	1.6	5
107	Transition-Metal-Free Radical Hydrotrifluoromethylation of Alkynes. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 309-312.	1.2	5
108	Free Radicals in Heterocycle Functionalization. <i>Topics in Heterocyclic Chemistry</i> , 2017, , 93-149.	0.2	4

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109	Iodonitrene: a direct metal-free electrophilic aminating reagent. <i>Organic Chemistry Frontiers</i> , 2022, 9, 3897-3907.	2.3	4
110	Synthesis of the B- <i>seco</i> limonoid core scaffold. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 194-208.	1.3	3
111	Dynamic Catalytic Highly Enantioselective 1,3-Dipolar Cycloadditions. <i>Angewandte Chemie</i> , 2021, 133, 20165-20173.	1.6	2
112	The Pseudo-Natural Product Rhonin Targets RHO GDI. <i>Angewandte Chemie</i> , 0, , .	1.6	2
113	Synthesis and Biological Investigation of 1,2,4-Triazolo[4,3-a]azines as Potential HSF1 Inductors. <i>Synthesis</i> , 0, , .	1.2	2
114	Concise synthesis of piperarborenine B. <i>Bioorganic and Medicinal Chemistry</i> , 2022, 67, 116817.	1.4	1
115	Methodology-driven efficient synthesis of cytotoxic (±)-piperarborenine B. <i>Green Synthesis and Catalysis</i> , 2022, 3, 339-348.	3.7	1
116	Imine Reduction and Reductive Amination. , 2007, , 161-181.		0
117	Frontispiece: Sustainable, Oxidative, and Metal-Free Annulation. <i>Chemistry - A European Journal</i> , 2017, 23, .	1.7	0