Scott J. Miller

List of Publications by Year
in descending order

372 papers	21,049 citations	6613 79 h-index	11052 137 g-index
422 all docs	422 docs citations	422 times ranked	11844 citing authors

#	Article	IF	Citations
1	Ring-Closing Metathesis and Related Processes in Organic Synthesis. Accounts of Chemical Research, 1995, 28, 446-452.	15.6	1,030
2	Amino acids and peptides as asymmetric organocatalysts. Tetrahedron, 2002, 58, 2481-2495.	1.9	628
3	Asymmetric Catalysis Mediated by Synthetic Peptides. Chemical Reviews, 2007, 107, 5759-5812.	47.7	593
4	Enantioselective catalysis and complexity generation from allenoates. Chemical Society Reviews, 2009, 38, 3102.	38.1	578
5	Nucleophilic Chiral Amines as Catalysts in Asymmetric Synthesis. Chemical Reviews, 2003, 103, 2985-3012.	47.7	481
6	Application of Ring-Closing Metathesis to the Synthesis of Rigidified Amino Acids and Peptides. Journal of the American Chemical Society, 1996, 118, 9606-9614.	13.7	441
7	Dynamic Kinetic Resolution of Biaryl Atropisomers via Peptide-Catalyzed Asymmetric Bromination. Science, 2010, 328, 1251-1255.	12.6	403
8	In Search of Peptide-Based Catalysts for Asymmetric Organic Synthesis. Accounts of Chemical Research, 2004, 37, 601-610.	15.6	387
9	The role of organometallic copper(iii) complexes in homogeneous catalysis. Chemical Science, 2013, 4, 2301.	7.4	344
10	Enantioselective [3 + 2]-Cycloadditions Catalyzed by a Protected, Multifunctional Phosphine-Containing Î±-Amino Acid. Journal of the American Chemical Society, 2007, 129, 10988-10989.	13.7	342
11	Chiral Bis(oxazoline)copper(II) Complexes as Lewis Acid Catalysts for the Enantioselective Dielsâˆ'Alder Reaction. Journal of the American Chemical Society, 1999, 121, 7559-7573.	13.7	338
12	The Rauhutâ€"Currier reaction: a history and its synthetic application. Tetrahedron, 2009, 65, 4069-4084.	1.9	324
13	Iridium-Catalyzed Hydrogenation of N-Heterocyclic Compounds under Mild Conditions by an Outer-Sphere Pathway. Journal of the American Chemical Society, 2011, 133, 7547-7562.	13.7	296
14	C2-Symmetric Cationic Copper(II) Complexes as Chiral Lewis Acids: Counterion Effects in the Enantioselective Dielsâ€"Alder Reaction. Angewandte Chemie International Edition in English, 1995, 34, 798-800.	4.4	287
15	Catalytic Ring-Closing Metathesis of Dienes: Application to the Synthesis of Eight-Membered Rings. Journal of the American Chemical Society, 1995, 117, 2108-2109.	13.7	282
16	Bis(oxazoline)copper(II) complexes as chiral catalysts for the enantioselective Diels-Alder reaction. Journal of the American Chemical Society, 1993, 115, 6460-6461.	13.7	266
17	Bis(oxazoline) and Bis(oxazolinyl)pyridine Copper Complexes as Enantioselective Dielsâˆ'Alder Catalysts:â€‰ Reaction Scope and Synthetic Applications. Journal of the American Chemical Society, 1999, 121, 7582-7594.	13.7	255
18	Selection of Enantioselective Acyl Transfer Catalysts from a Pooled Peptide Library through a Fluorescence-Based Activity Assay:â€‰ An Approach to Kinetic Resolution of Secondary Alcohols of Broad Structural Scope. Journal of the American Chemical Society, 2001, 123, 6496-6502.	13.7	254

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19	Stereospecific Cï£¿H Oxidation with H₂O₂ Catalyzed by a Chemically Robust Siteâ€Isolated Iron Catalyst. Angewandte Chemie - International Edition, 2009, 48, 5720-5723.	13.8	254
20	Kinetic Resolution of Alcohols Catalyzed by Tripeptides Containing theN-Alkylimidazole Substructure. Journal of the American Chemical Society, 1998, 120, 1629-1630.	13.7	242
21	Asymmetric Epoxidation with H₂O₂ by Manipulating the Electronic Properties of Non-heme Iron Catalysts. Journal of the American Chemical Society, 2013, 135, 14871-14878.	13.7	216
22	A Biomimetic Approach to Asymmetric Acyl Transfer Catalysis. Journal of the American Chemical Society, 1999, 121, 11638-11643.	13.7	213
23	Site-Selective Derivatization and Remodeling of Erythromycin A by Using Simple Peptide-Based Chiral Catalysts. Angewandte Chemie - International Edition, 2006, 45, 5616-5619.	13.8	208
24	Asymmetric Azidationâˆ’Cycloaddition with Open-Chain Peptide-Based Catalysts. A Sequential Enantioselective Route to Triazoles. Journal of the American Chemical Society, 2002, 124, 2134-2136.	13.7	203
25	Synthesis of Conformationally Restricted Amino Acids and Peptides Employing Olefin Metathesis. Journal of the American Chemical Society, 1995, 117, 5855-5856.	13.7	194
26	Peptide-Based Catalysts Reach the Outer Sphere through Remote Desymmetrization and Atroposelectivity. Accounts of Chemical Research, 2019, 52, 199-215.	15.6	194
27	A Chemosensor-Based Approach to Catalyst Discovery in Solution and on Solid Support. Journal of the American Chemical Society, 1999, 121, 4306-4307.	13.7	193
28	Enantioselective Rauhutâˆ’Currier Reactions Promoted by Protected Cysteine. Journal of the American Chemical Society, 2007, 129, 256-257.	13.7	191
29	Discovery of a Catalytic Asymmetric Phosphorylation through Selection of a Minimal Kinase Mimic:Â A Concise Total Synthesis ofd-myo-Inositol-1-Phosphate. Journal of the American Chemical Society, 2001, 123, 10125-10126.	13.7	188
30	Pursuit of Noncovalent Interactions for Strategic Site-Selective Catalysis. Accounts of Chemical Research, 2017, 50, 609-615.	15.6	188
31	Light - driven deracemization enabled by excited - state electron transfer. Science, 2019, 366, 364-369.	12.6	188
32	Potent Noncovalent Inhibitors of the Main Protease of SARS-CoV-2 from Molecular Sculpting of the Drug Perampanel Guided by Free Energy Perturbation Calculations. ACS Central Science, 2021, 7, 467-475.	11.3	182
33	Enantioselective Synthesis of 3-Arylquinazolin-4(3<i>H</i>)-ones via Peptide-Catalyzed Atroposelective Bromination. Journal of the American Chemical Society, 2015, 137, 12369-12377.	13.7	181
34	Thiazolylalanine-Derived Catalysts for Enantioselective Intermolecular Aldehydeâˆ’Imine Cross-Couplings. Journal of the American Chemical Society, 2005, 127, 1654-1655.	13.7	174
35	Dual Catalyst Control in the Amino Acid-Peptide-Catalyzed Enantioselective Baylisâˆ’Hillman Reaction. Organic Letters, 2003, 5, 3741-3743.	4.6	166
36	Applications of Nonenzymatic Catalysts to the Alteration of Natural Products. Chemical Reviews, 2017, 117, 11894-11951.	47.7	166

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37	Enantiodivergence in Small-Molecule Catalysis of Asymmetric Phosphorylation:â€‰ Concise Total Syntheses of the Enantiomeric d-myo-Inositol-1-phosphate and d-myo-Inositol-3-phosphate. Journal of the American Chemical Society, 2002, 124, 11653-11656.	13.7	157
38	Spontaneous transfer of chirality in an atropisomerically enriched two-axis system. Nature, 2014, 509, 71-75.	27.8	153
39	Aspartate-Catalyzed Asymmetric Epoxidation Reactions. Journal of the American Chemical Society, 2007, 129, 8710-8711.	13.7	150
40	A peptide-based catalyst approach to regioselective functionalization of carbohydrates. Tetrahedron, 2003, 59, 8869-8875.	1.9	145
41	Combinatorial evolution of site- and enantioselective catalysts for polyene epoxidation. Nature Chemistry, 2012, 4, 990-995.	13.6	144
42	Minimal Acylase-Like Peptides. Conformational Control of Absolute Stereospecificity. Journal of Organic Chemistry, 1998, 63, 6784-6785.	3.2	142
43	Total synthesis and isolation of citrinalin and cyclopiamine congeners. Nature, 2014, 509, 318-324.	27.8	140
44	Vibrational Characterization of Simple Peptides Using Cryogenic Infrared Photodissociation of H₂-Tagged, Mass-Selected Ions. Journal of the American Chemical Society, 2011, 133, 6440-6448.	13.7	139
45	Fluorescence-Based Screening of Asymmetric Acylation Catalysts through Parallel Enantiomer Analysis. Identification of a Catalyst for Tertiary Alcohol Resolution. Journal of Organic Chemistry, 2001, 66, 5522-5527.	3.2	135
46	Enantioselective Synthesis of Atropisomeric Benzamides through Peptide-Catalyzed Bromination. Journal of the American Chemical Society, 2013, 135, 2963-2966.	13.7	133
47	Biologically inspired non-heme iron-catalysts for asymmetric epoxidation; design principles and perspectives. Chemical Communications, 2015, 51, 14285-14298.	4.1	133
48	Pyridylalanine (Pal)-Peptide Catalyzed Enantioselective Allenoate Additions to N-Acyl Imines. Journal of the American Chemical Society, 2009, 131, 6105-6107.	13.7	130
49	Regio- and Stereoselective Synthesis of Fluoroalkenes by Directed Au(I) Catalysis. Organic Letters, 2009, 11, 4318-4321.	4.6	127
50	Determination of Noncovalent Docking by Infrared Spectroscopy of Cold Gas-Phase Complexes. Science, 2012, 335, 694-698.	12.6	127
51	Dual Catalyst Control in the Enantioselective Intramolecular Moritaâˆ’Baylisâˆ’Hillman Reaction. Organic Letters, 2005, 7, 3849-3851.	4.6	126
52	A peptide-catalyzed asymmetric Stetter reaction. Chemical Communications, 2005, , 195-197.	4.1	123
53	Enantioselective sulfonylation reactions mediated by a tetrapeptide catalyst. Nature Chemistry, 2009, 1, 630-634.	13.6	121
54	Functional Analysis of an Aspartateâ€Based Epoxidation Catalyst with Amideâ€toâ€Alkene Peptidomimetic Catalyst Analogues. Angewandte Chemie - International Edition, 2008, 47, 6707-6711.	13.8	120

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55	Ï€ Pauli Repulsion Are Antagonistic for Protein Stability. Journal of the American Chemical Society, 2010, 132, 6651-6653.	13.7	120
56	Disparate Catalytic Scaffolds for Atroposelective Cyclodehydration. Journal of the American Chemical Society, 2019, 141, 6698-6705.	13.7	120
57	Diastereo- and Enantioselective Addition of Anilide-Functionalized Allenoates to <i>N</i>-Acylimines Catalyzed by a Pyridylalanine-Based Peptide. Journal of the American Chemical Society, 2014, 136, 3285-3292.	13.7	119
58	A Biomimetic Iron Catalyst for the Epoxidation of Olefins with Molecular Oxygen at Room Temperature. Angewandte Chemie - International Edition, 2011, 50, 1425-1429.	13.8	118
59	Chemoselective and Enantioselective Oxidation of Indoles Employing Aspartyl Peptide Catalysts. Journal of the American Chemical Society, 2011, 133, 9104-9111.	13.7	116
60	Amine-Catalyzed Coupling of Allenic Esters to Î±,Î²-Unsaturated Carbonyls. Journal of the American Chemical Society, 2003, 125, 12394-12395.	13.7	115
61	Asymmetric Catalysis Mediated by Synthetic Peptides, Version 2.0: Expansion of Scope and Mechanisms. Chemical Reviews, 2020, 120, 11479-11615.	47.7	115
62	Regioselective Oxidation of Nonactivated Alkyl Câ€"H Groups Using Highly Structured Non-Heme Iron Catalysts. Journal of Organic Chemistry, 2013, 78, 1421-1433.	3.2	112
63	Incorporation of Peptide Isosteres into Enantioselective Peptide-Based Catalysts as Mechanistic Probes. Angewandte Chemie - International Edition, 2001, 40, 2824-2827.	13.8	104
64	A Case of Remote Asymmetric Induction in the Peptide-Catalyzed Desymmetrization of a Bis(phenol). Journal of the American Chemical Society, 2008, 130, 16358-16365.	13.7	102
65	Peptide-Catalyzed Kinetic Resolution of Formamides and Thioformamides as an Entry to Nonracemic Amines. Journal of the American Chemical Society, 2010, 132, 2870-2871.	13.7	102
66	Diversity of Secondary Structure in Catalytic Peptides with Î²-Turn-Biased Sequences. Journal of the American Chemical Society, 2017, 139, 492-516.	13.7	101
67	Divergent Control of Point and Axial Stereogenicity: Catalytic Enantioselective Câˆ'N Bondâ€Forming Crossâ€Coupling and Catalystâ€Controlled Atroposelective Cyclodehydration. Angewandte Chemie - International Edition, 2018, 57, 6251-6255.	13.8	101
68	Bis(imine)-copper(II) complexes as chiral lewis acid catalysts for the Diels-Alder reaction. Tetrahedron Letters, 1993, 34, 7027-7030.	1.4	98
69	Catalytic Enantioselective Synthesis of Sulfinate Esters through the Dynamic Resolution of tert-Butanesulfinyl Chloride. Journal of the American Chemical Society, 2004, 126, 8134-8135.	13.7	98
70	Desymmetrization of Glycerol Derivatives with Peptide-Based Acylation Catalysts. Organic Letters, 2005, 7, 3021-3023.	4.6	96
71	Site-Selective Bromination of Vancomycin. Journal of the American Chemical Society, 2012, 134, 6120-6123.	13.7	96
72	Iron Catalyzed Highly Enantioselective Epoxidation of Cyclic Aliphatic Enones with Aqueous H₂O₂. Journal of the American Chemical Society, 2016, 138, 2732-2738.	13.7	95

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73	Asymmetric synthesis of the benzoquinoid ansamycin antitumor antibiotics: total synthesis of (+)-macbecin. Journal of Organic Chemistry, 1993, 58, 471-485.	3.2	91
74	Rapid phenolic O-glycosylation of small molecules and complex unprotected peptides in aqueous solvent. Nature Chemistry, 2018, 10, 644-652.	13.6	91
75	Catalytic Site-Selective Thiocarbonylations and Deoxygenations of Vancomycin Reveal Hydroxyl-Dependent Conformational Effects. Journal of the American Chemical Society, 2012, 134, 9755-9761.	13.7	88
76	Asymmetric Catalysis at a Distance: Catalytic, Site-Selective Phosphorylation of Teicoplanin. Journal of the American Chemical Society, 2013, 135, 12414-12421.	13.7	88
77	Amine-Catalyzed Addition of Azide Ion to Î±,Î²-Unsaturated Carbonyl Compounds. Organic Letters, 1999, 1, 1107-1109.	4.6	83
78	Remote Desymmetrization at Near-Nanometer Group Separation Catalyzed by a Miniaturized Enzyme Mimic. Journal of the American Chemical Society, 2006, 128, 16454-16455.	13.7	81
79	Peptide Bond Isosteres:â€‰ Ester or (E)-Alkene in the Backbone of the Collagen Triple Helix. Organic Letters, 2005, 7, 2619-2622.	4.6	80
80	Divergent Reactivity in Amine- and Phosphine-Catalyzed Câ€“C Bond-Forming Reactions of Allenoates with 2,2,2-Trifluoroacetophenones. ACS Catalysis, 2011, 1, 1347-1350.	11.2	79
81	Synergistic Interplay of a Nonâ€Heme Iron Catalyst and Amino Acid Coligands in H₂O₂ Activation for Asymmetric Epoxidation of Î±â€Alkylâ€Substituted Styrenes. Angewandte Chemie - International Edition, 2015, 54, 2729-2733.	13.8	79
82	A Polymeric and Fluorescent Gel for Combinatorial Screening of Catalysts. Journal of the American Chemical Society, 2000, 122, 11270-11271.	13.7	78
83	Structure-Selectivity Relationships and Structure for a Peptide-Based Enantioselective Acylation Catalyst. Journal of the American Chemical Society, 2004, 126, 6967-6971.	13.7	78
84	Chiral Copper(II) Complex-Catalyzed Reactions of Partially Protected Carbohydrates. Organic Letters, 2013, 15, 6178-6181.	4.6	78
85	Nonenzymatic peptide-based catalytic asymmetric phosphorylation of inositol derivatives. Chemical Communications, 2003, , 1781.	4.1	75
86	Chemical Tailoring of Teicoplanin with Site-Selective Reactions. Journal of the American Chemical Society, 2013, 135, 8415-8422.	13.7	75
87	A chemoselective strategy for late-stage functionalization of complex small molecules with polypeptides and proteins. Nature Chemistry, 2019, 11, 78-85.	13.6	75
88	Development of a Cysteine-Catalyzed Enantioselective Rauhutâˆ’Currier Reaction. Journal of Organic Chemistry, 2010, 75, 5784-5796.	3.2	74
89	An Approach to the Siteâ€Selective Deoxygenation of Hydroxy Groups Based on Catalytic Phosphoramidite Transfer. Angewandte Chemie - International Edition, 2012, 51, 2907-2911.	13.8	74
90	Aqueous Glycosylation of Unprotected Sucrose Employing Glycosyl Fluorides in the Presence of Calcium Ion and Trimethylamine. Journal of the American Chemical Society, 2016, 138, 3175-3182.	13.7	73

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91	Asymmetric phosphorylation through catalytic P(III) phosphoramidite transfer: Enantioselective synthesis of <scp>d</scp> - <i>myo</i> -inositol-6-phosphate. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 20620-20624.	7.1	70
92	Selective partial reduction of quinolines: Hydrosilylation vs. transfer hydrogenation. Journal of Organometallic Chemistry, 2008, 693, 1815-1821.	1.8	67
93	A Nonenzymatic Acid/Peracid Catalytic Cycle for the Baeyerâˆ’Villiger Oxidation. Organic Letters, 2008, 10, 3049-3052.	4.6	67
94	Site- and Stereoselective Chemical Editing of Thiostrepton by Rh-Catalyzed Conjugate Arylation: New Analogues and Collateral Enantioselective Synthesis of Amino Acids. Journal of the American Chemical Society, 2017, 139, 15460-15466.	13.7	67
95	Site-Selective Catalysis of Phenyl Thionoformate Transfer as a Tool for Regioselective Deoxygenation of Polyols. Journal of Organic Chemistry, 2008, 73, 1774-1782.	3.2	66
96	An Approach to the Site-Selective Diversification of Apoptolidin A with Peptide-Based Catalysts. Journal of Natural Products, 2009, 72, 1864-1869.	3.0	66
97	Studies of folded peptide-based catalysts for asymmetric organic synthesis. Biopolymers, 2006, 84, 38-47.	2.4	64
98	Structure Diversification of Vancomycin through Peptide-Catalyzed, Site-Selective Lipidation: A Catalysis-Based Approach To Combat Glycopeptide-Resistant Pathogens. Journal of Medicinal Chemistry, 2015, 58, 2367-2377.	6.4	63
99	Asymmetric synthesis of macbecin I. Journal of Organic Chemistry, 1992, 57, 1067-1069.	3.2	60
100	Amino acid-peptide-catalyzed enantioselective Moritaâ€“Baylisâ€“Hillman reactions. Tetrahedron, 2006, 62, 11450-11459.	1.9	60
101	Asymmetric Syntheses of Phosphatidylinositol-3-Phosphates with Saturated and Unsaturated Side Chains through Catalytic Asymmetric Phosphorylation. Journal of the American Chemical Society, 2004, 126, 13182-13183.	13.7	59
102	Peptide-Catalyzed Conversion of Racemic Oxazol-5(4<i>H</i>)-ones into Enantiomerically Enriched Î±-Amino Acid Derivatives. Journal of Organic Chemistry, 2014, 79, 1542-1554.	3.2	59
103	Phosphothreonine as a Catalytic Residue in Peptideâ€Mediated Asymmetric Transfer Hydrogenations of 8â€Aminoquinolines. Angewandte Chemie - International Edition, 2015, 54, 11173-11176.	13.8	59
104	Catalyst Control over Regio- and Enantioselectivity in Baeyerâ€“Villiger Oxidations of Functionalized Ketones. Journal of the American Chemical Society, 2014, 136, 14019-14022.	13.7	58
105	Distal Stereocontrol Using Guanidinylated Peptides as Multifunctional Ligands: Desymmetrization of Diarylmethanes via Ullman Cross-Coupling. Journal of the American Chemical Society, 2016, 138, 7939-7945.	13.7	57
106	Parameterization and Analysis of Peptide-Based Catalysts for the Atroposelective Bromination of 3-Arylquinazolin-4(3<i>H</i>)-ones. Journal of the American Chemical Society, 2018, 140, 868-871.	13.7	57
107	Synthesis of Atropisomerically Defined, Highly Substituted Biaryl Scaffolds through Catalytic Enantioselective Bromination and Regioselective Crossâ€Coupling. Angewandte Chemie - International Edition, 2011, 50, 5125-5129.	13.8	56
108	Translation of Diverse Aramid- and 1,3-Dicarbonyl-peptides by Wild Type Ribosomes <i>in Vitro</i>. ACS Central Science, 2019, 5, 1289-1294.	11.3	54

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109	Asymmetric Michael addition of Î±-nitro-ketones using catalytic peptides. Tetrahedron Letters, 2007, 48, 1993-1997.	1.4	53
110	<i>N</i>-Methylimidazole-catalyzed Synthesis of Carbamates from Hydroxamic Acids via the Lossen Rearrangement. Organic Letters, 2013, 15, 602-605.	4.6	53
111	Linear Free-Energy Relationship Analysis of a Catalytic Desymmetrization Reaction of a Diarylmethane-bis(phenol). Organic Letters, 2010, 12, 2794-2797.	4.6	52
112	Quasi-biomimetic ring contraction promoted by a cysteine-based nucleophile: Total synthesis of Sch-642305, some analogs and their putative anti-HIV activities. Chemical Science, 2011, 2, 1568.	7.4	52
113	Catalytic Dynamic Kinetic Resolutions in Tandem to Construct Two-Axis Terphenyl Atropisomers. Journal of the American Chemical Society, 2020, 142, 16461-16470.	13.7	52
114	<i>C</i>₂â€Symmetrische, kationische Kupfer(<scp>II</scp>)â€Komplexe als chirale Lewisâ€SÃuren â€“ EinfluÃŸ des Gegenions bei enantioselektiven Dielsâ€Alderâ€Reaktionen. Angewandte Chemie, 1995, 107, 864-867.	2.0	51
115	Dihedral angle restriction within a peptide-based tertiary alcohol kinetic resolution catalyst. Tetrahedron, 2006, 62, 5254-5261.	1.9	50
116	ortho-Acidic aromatic thiols as efficient catalysts of intramolecular Moritaâ€“Baylisâ€“Hillman and Rauhutâ€“Currier reactions. Tetrahedron Letters, 2011, 52, 2148-2151.	1.4	50
117	A Peptide-Embedded Trifluoromethyl Ketone Catalyst for Enantioselective Epoxidation. Organic Letters, 2012, 14, 1138-1141.	4.6	50
118	Cobalt(III)â€Catalyzed Câˆ’H Amidation of Dehydroalanine for the Siteâ€Selective Structural Diversification of Thiostrepton. Angewandte Chemie - International Edition, 2020, 59, 890-895.	13.8	49
119	Catalytic asymmetric and stereodivergent oligonucleotide synthesis. Science, 2021, 371, 702-707.	12.6	49
120	Site-Selective Reactions with Peptide-Based Catalysts. Topics in Current Chemistry, 2015, 372, 157-201.	4.0	48
121	Streamlined Synthesis of Phosphatidylinositol (PI), PI3P, PI3,5P2, and Deoxygenated Analogues as Potential Biological Probes. Journal of Organic Chemistry, 2006, 71, 4919-4928.	3.2	47
122	Chemistry and Biology of Deoxy-myo-inositol Phosphates:Â Stereospecificity of Substrate Interactions within an Archaeal and a Bacterial IMPase. Journal of the American Chemical Society, 2004, 126, 15370-15371.	13.7	46
123	Unified Total Syntheses of the Inositol Polyphosphates:Âd-I-3,5,6P3,d-I-3,4,5P3,d-I-3,4,6P3, andd-I-3,4,5,6P4via Catalytic Enantioselective and Site-Selective Phosphorylation. Journal of Organic Chemistry, 2006, 71, 6923-6931.	3.2	45
124	Peptideâ€Catalyzed Fragment Couplings that Form Axially Chiral Nonâ€<i>C₂</i>â€Symmetric Biaryls. Angewandte Chemie - International Edition, 2020, 59, 2875-2880.	13.8	45
125	Development of a Bio-Inspired Acyl-Anion Equivalent Macrocyclization and Synthesis of a trans-Resorcylide Precursor. Journal of Organic Chemistry, 2007, 72, 5260-5269.	3.2	44
126	Structure-guided design of a perampanel-derived pharmacophore targeting the SARS-CoV-2 main protease. Structure, 2021, 29, 823-833.e5.	3.3	43

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127	Proton-activated fluorescence as a tool for simultaneous screening of combinatorial chemical reactions. Current Opinion in Chemical Biology, 2002, 6, 333-338.	6.1	42
128	Catalytic site-selective synthesis and evaluation of a series of erythromycin analogs. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 6007-6011.	2.2	42
129	Enantioselective Intermolecular Câ€“O Bond Formation in the Desymmetrization of Diarylmethines Employing a Guanidinylated Peptide-Based Catalyst. Journal of the American Chemical Society, 2017, 139, 18107-18114.	13.7	41
130	Enantioselective Synthesis of an Aziridinomitosane and Selective Functionalizations of a Key Intermediate. Journal of Organic Chemistry, 2003, 68, 2728-2734.	3.2	40
131	Polymerâ€Supported Enantioselective Bifunctional Catalysts for Nitroâ€Michael Addition of Ketones and Aldehydes. Chemistry - A European Journal, 2012, 18, 2290-2296.	3.3	40
132	Experimental Lineage and Functional Analysis of a Remotely Directed Peptide Epoxidation Catalyst. Journal of the American Chemical Society, 2014, 136, 5301-5308.	13.7	40
133	Terahertz Spectroscopy of Tetrameric Peptides. Journal of Physical Chemistry Letters, 2019, 10, 2624-2628.	4.6	39
134	Template-promoted dimerization of C-allylglycine: A convenient synthesis of (S,S)-2,7-diaminosuberic acid. Tetrahedron Letters, 1998, 39, 1689-1690.	1.4	38
135	One-Bead-One-Catalyst Approach to Aspartic Acid-Based Oxidation Catalyst Discovery. ACS Combinatorial Science, 2011, 13, 321-326.	3.8	38
136	Enantioselective Synthesis of a Mitosane Core Assisted by Diversity-Based Catalyst Discovery. Organic Letters, 2001, 3, 2879-2882.	4.6	37
137	Optimization of Triarylpyridinone Inhibitors of the Main Protease of SARS-CoV-2 to Low-Nanomolar Antiviral Potency. ACS Medicinal Chemistry Letters, 2021, 12, 1325-1332.	2.8	37
138	Disulfide-Bridged Peptides That Mediate Enantioselective Cycloadditions through Thiyl Radical Catalysis. Organic Letters, 2018, 20, 1621-1625.	4.6	36
139	Aspartyl Oxidation Catalysts That Dial In Functional Group Selectivity, along with Regio- and Stereoselectivity. ACS Central Science, 2016, 2, 733-739.	11.3	35
140	Asymmetric Syntheses of <scp>l,l</scp><i>â€‹</i> and <scp>l,d</scp><i>â€‹</i>Diâ€‹<i>myo</i>â€‹inositolâ€‹1,1â€²â€‹phosphate and their Behavior as Stabilizers of Enzyme Activity at Extreme Temperatures. Angewandte Chemie - International Edition, 2009, 48, 4158-4161.	13.8	34
141	A Synergistic Combinatorial and Chiroptical Study of Peptide Catalysts for Asymmetric Baeyerâ€“Villiger Oxidation. Advanced Synthesis and Catalysis, 2015, 357, 2301-2309.	4.3	34
142	Catalytic Enantioselective Pyridine <i>N</i>-Oxidation. Journal of the American Chemical Society, 2019, 141, 18624-18629.	13.7	34
143	Phosphothreonine (pThr)-Based Multifunctional Peptide Catalysis for Asymmetric Baeyerâ€“Villiger Oxidations of Cyclobutanones. ACS Catalysis, 2019, 9, 242-252.	11.2	34
144	Catalytic Enantioselective Synthesis of Pyridyl Sulfoximines. Journal of the American Chemical Society, 2021, 143, 9230-9235.	13.7	34

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145	Asymmetric Acylation Reactions Catalyzed by Conformationally Biased Octapeptides. Tetrahedron, 2000, 56, 9773-9779.	1.9	33
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