

# Tomas Hudlicky

## List of Publications by Year in descending order

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279  
papers

11,190  
citations

36203

51  
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48187

88  
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307  
all docs

307  
docs citations

307  
times ranked

5481  
citing authors

#	ARTICLE	IF	CITATIONS
1	Use of cyclopropanes and their derivatives in organic synthesis. <i>Chemical Reviews</i> , 1989, 89, 165-198.	23.0	893
2	Modern Methods of Monosaccharide Synthesis from Non-Carbohydrate Sources. <i>Chemical Reviews</i> , 1996, 96, 1195-1220.	23.0	226
3	Anionic approaches to the construction of cyclopentanoids. <i>Chemical Reviews</i> , 1989, 89, 1467-1486.	23.0	213
4	Applications of biotransformations and biocatalysis to complexity generation in organic synthesis. <i>Chemical Society Reviews</i> , 2009, 38, 3117.	18.7	205
5	Completion of the seven-step pathway from tabersonine to the anticancer drug precursor vindoline and its assembly in yeast. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6224-6229.	3.3	195
6	A short synthesis of (+)-lycoridine. <i>Journal of the American Chemical Society</i> , 1992, 114, 9694-9696.	6.6	187
7	Total Synthesis and Biological Evaluation of Amaryllidaceae Alkaloids: Narciclasine, ent-7-Deoxypancratistatin, Regioisomer of 7-Deoxypancratistatin, 10b-epi-Deoxypancratistatin, and Truncated Derivatives. <i>Journal of Organic Chemistry</i> , 2002, 67, 8726-8743.	1.7	182
8	From Discovery to Application: 50 Years of the Vinylcyclopropane-Cyclopentene Rearrangement and Its Impact on the Synthesis of Natural Products. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4864-4876.	7.2	182
9	Design Constraints in Practical Syntheses of Complex Molecules: Current Status, Case Studies with Carbohydrates and Alkaloids, and Future Perspectives. <i>Chemical Reviews</i> , 1996, 96, 3-30.	23.0	176
10	Celebrating 20 Years of SYNLETT - Special Account On the Merits of Biocatalysis and the Impact of Arene cis-Dihydrodiols on Enantioselective Synthesis. <i>Synlett</i> , 2009, 2009, 685-703.	1.0	175
11	Enantioselective synthesis through microbial oxidation of arenes. 1. Efficient preparation of terpene and prostanoid synthons. <i>Journal of the American Chemical Society</i> , 1988, 110, 4735-4741.	6.6	162
12	Microbial oxidation of chloroaromatics in the enantiodivergent synthesis of pyrrolizidine alkaloids: trihydroxyheliotridanes. <i>Journal of Organic Chemistry</i> , 1990, 55, 4683-4687.	1.7	159
13	Toluene Dioxygenase-Mediated cis-Dihydroxylation of Aromatics in Enantioselective Synthesis. Asymmetric Total Syntheses of Pancratistatin and 7-Deoxypancratistatin, Promising Antitumor Agents. <i>Journal of the American Chemical Society</i> , 1996, 118, 10752-10765.	6.6	157
14	Efficient and enantiodivergent synthesis of (+)- and (-)-pinitol. <i>Journal of the American Chemical Society</i> , 1990, 112, 9439-9440.	6.6	150
15	First Total Synthesis of (+)-Pancratistatin: An Unusual Set of Problems. <i>Journal of the American Chemical Society</i> , 1995, 117, 3643-3644.	6.6	144
16	Cyclopentene annulation via intramolecular addition of diazoketones to 1,3-dienes. Applications to the synthesis of cyclopentanoid terpenes. <i>Journal of Organic Chemistry</i> , 1980, 45, 5020-5027.	1.7	130
17	Chemoenzymatic Synthesis of Inositols, Conditritols, and Cyclitol Analogues. <i>Chemical Reviews</i> , 2011, 111, 4223-4258.	23.0	130
18	Toward a reagent-free synthesis. <i>Green Chemistry</i> , 1999, 1, 57-59.	4.6	113

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19	Microbial Oxidation of Aromatics in Enantiocontrolled Synthesis. 3. Design of Amino Cyclitols (exo-Nitrogenous) and Total Synthesis of (+)-Lycoricidine via Acylnitrosyl Cycloaddition to Polarized 1-Halo-1,3-cyclohexadienes. <i>Journal of the American Chemical Society</i> , 1994, 116, 5108-5115.	6.6	110
20	Morphine Synthesis and Biosynthesis-An Update. <i>Current Organic Chemistry</i> , 2000, 4, 343-362.	0.9	108
21	Synthesis of Morphine Alkaloids and Derivatives. <i>Topics in Current Chemistry</i> , 2011, 309, 33-66.	4.0	97
22	Biocatalysis as the strategy of choice in the exhaustive enantiomerically controlled synthesis of conduritols. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1991, , 2907.	0.9	96
23	Topological selectivity in the intramolecular [4 + 1] pyrroline annulation. Formal total stereospecific synthesis of (.+.)-supinidine, (.+.)-isoretronecanol, and (.+.)-trachelanthamidine. <i>Journal of the American Chemical Society</i> , 1986, 108, 3755-3762.	6.6	93
24	The [2 + 3] and [3 + 4] annulation of enones. Enantiocontrolled total synthesis of (-)-retigeranic acid. <i>Journal of the American Chemical Society</i> , 1989, 111, 6691-6707.	6.6	88
25	Medium-Scale Preparation of Useful Metabolites of Aromatic Compounds via Whole-Cell Fermentation with Recombinant Organisms. <i>Organic Process Research and Development</i> , 2002, 6, 525-532.	1.3	85
26	Symmetry-Based Design for the Chemoenzymatic Synthesis of Oseltamivir (Tamiflu) from Ethyl Benzoate. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4229-4231.	7.2	85
27	An enantiodivergent approach to D- and L-erythrose via microbial oxidation of chlorobenzene. <i>Tetrahedron Letters</i> , 1989, 30, 4053-4054.	0.7	84
28	A short chemoenzymatic synthesis of (+)-narciclasine. <i>Tetrahedron Letters</i> , 1999, 40, 3077-3080.	0.7	84
29	Synthesis of eburnamonine and dehydroaspidospermidine. <i>Journal of Organic Chemistry</i> , 1988, 53, 1953-1957.	1.7	83
30	Microbial Oxidation of Aromatics in Enantiocontrolled Synthesis. 2. Rational Design of Aza Sugars (endo-Nitrogenous). Total Synthesis of (+)-Kifunensine, Mannojuirimycin, and Other Glycosidase Inhibitors. <i>Journal of the American Chemical Society</i> , 1994, 116, 5099-5107.	6.6	82
31	Synthesis and biological activity of some structural modifications of pancratistatin. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004, 14, 2911-2915.	1.0	80
32	Rearrangements of Vinylcyclopropanes and Related Systems. , 1991, , 899-970.		79
33	The Quest for a Practical Synthesis of Morphine Alkaloids and Their Derivatives by Chemoenzymatic Methods. <i>Accounts of Chemical Research</i> , 2015, 48, 674-687.	7.6	79
34	Stereospecific synthesis of aminocyclitols via cycloadditions of unsymmetrical, optically pure dienes: conduramine A-1 and dihydroconduramine A-1. <i>Tetrahedron Letters</i> , 1991, 32, 6077-6080.	0.7	78
35	Reactions of Indole Derivatives with Oxiranes and Aziridines on Silica. Synthesis of Î²-Carbolin-1-one Mimic of Pancratistatin. <i>Journal of Organic Chemistry</i> , 2005, 70, 3490-3499.	1.7	74
36	Synthesis of Amaryllidaceae Constituents and Unnatural Derivatives. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5642-5691.	7.2	71

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37	$\Delta^2$ -Carboline-1-one Mimic of the Anticancer Amaryllidaceae Constituent Pancratistatin: Synthesis and Biological Evaluation. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 5342-5346.	7.2	69
38	Total synthesis of (+)-hirsutene. <i>Journal of the American Chemical Society</i> , 1980, 102, 6351-6353.	6.6	67
39	Short syntheses of eburnamonine via $\beta$ -oxycyclopropylcarbonyl and related intermediates. <i>Journal of the American Chemical Society</i> , 1978, 100, 4893-4894.	6.6	66
40	Enantioselective synthesis of (-)-zeylena from styrene. <i>Journal of Organic Chemistry</i> , 1989, 54, 4239-4243.	1.7	65
41	Short Chemoenzymatic Free Synthesis of Oseltamivir (Tamiflu): Approaching the Potential for Process Efficiency. <i>Advanced Synthesis and Catalysis</i> , 2010, 352, 195-200.	2.1	64
42	Chemoenzymatic Synthesis of All Four Stereoisomers of Sphingosine from Chlorobenzene: $\Delta$ Glycosphingolipid Precursors 1a. <i>Journal of Organic Chemistry</i> , 1998, 63, 510-520.	1.7	63
43	Total syntheses of ent-conduramine A and ent-7-deoxypancratistatin. <i>Tetrahedron Letters</i> , 1999, 40, 3081-3084.	0.7	61
44	Short Chemoenzymatic Total Synthesis of ent-Hydromorphone: An Oxidative Dearomatization/Intramolecular [4+2] Cycloaddition/Amination Sequence. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4355-4358.	7.2	61
45	Chemoenzymatic Synthesis of Amaryllidaceae Constituents and Biological Evaluation of their C-1 Analogues. The Next Generation Synthesis of 7-Deoxypancratistatin and trans-Dihydrolycoricidine. <i>Journal of Organic Chemistry</i> , 2010, 75, 3069-3084.	1.7	59
46	Biocatalysis as a Rational Approach to Enantiodivergent Synthesis of Highly Oxygenated Compounds: (+)- and (-)-Pinitol and Other Cyclitols. <i>Israel Journal of Chemistry</i> , 1991, 31, 229-238.	1.0	58
47	Synthesis, Structure, and Biological Evaluation of Novel N- and O-Linked Diinositols. <i>Journal of the American Chemical Society</i> , 2002, 124, 10416-10426.	6.6	57
48	Stereocontrolled total synthesis of pentalenenes via [2 + 3] and [4 + 1] cyclopentene annulation methodologies. <i>Journal of Organic Chemistry</i> , 1987, 52, 4641-4644.	1.7	56
49	Rosmarinic Acid, a Rosemary Extract Polyphenol, Increases Skeletal Muscle Cell Glucose Uptake and Activates AMPK. <i>Molecules</i> , 2017, 22, 1669.	1.7	55
50	New diol metabolites derived by biooxidation of chlorostyrenes with <i>Pseudomonas putida</i> : Determination of absolute stereochemistry and enantiomeric excess by convergent syntheses. <i>Tetrahedron: Asymmetry</i> , 1993, 4, 1365-1386.	1.8	54
51	Several Generations of Chemoenzymatic Synthesis of Oseltamivir (Tamiflu): Evolution of Strategy, Quest for a Process-Quality Synthesis, and Evaluation of Efficiency Metrics. <i>Journal of Organic Chemistry</i> , 2011, 76, 10050-10067.	1.7	54
52	Design, Synthesis, and Biological Evaluation of Matrix Metalloproteinase Inhibitors Derived from a Modified Proline Scaffold. <i>Journal of Medicinal Chemistry</i> , 1999, 42, 5426-5436.	2.9	53
53	Stability Relationships in Bicyclic Ketones. <i>Synlett</i> , 2005, 2005, 2911-2914.	1.0	53
54	An evolutionary perspective of microbial oxidations of aromatic compounds in enantioselective synthesis. <i>Advances in Asymmetric Synthesis</i> , 1995, , 271-312.	0.4	53

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55	Intramolecular [4 + 1] pyrroline annulation via azide-diene cycloadditions. 2. Formal stereoselective total syntheses of (.+.)-platynecine, (.+.)-hastanecine, (.+.)-turneforicidine, and (.+.)-dihydroxyheliotridane. <i>Journal of Organic Chemistry</i> , 1988, 53, 2094-2099.	1.7	52
56	General method of synthesis of cyclopentanoid terpenic acids. Stereocontrolled total syntheses of (.+.)-isocomenic acid and (.+.)-epiisocomenic acid. <i>Journal of Organic Chemistry</i> , 1983, 48, 4453-4461.	1.7	50
57	Intramolecular cyclopentene annulation. 3. Synthesis and carbon-13 nuclear magnetic resonance spectroscopy of bicyclic cyclopentene lactones as potential perhydroazulene and/or monoterpene synthons. <i>Journal of Organic Chemistry</i> , 1983, 48, 3422-3428.	1.7	50
58	Rational design of aza sugars via biocatalysis: mannojirimycin and other glycosidase inhibitors. <i>Journal of Organic Chemistry</i> , 1993, 58, 985-987.	1.7	49
59	Oxa- and Azabicyclo[4.1.0]heptenes as New Synthons for C-Disaccharide and Alkaloid Synthesis. Reactivity Trends with Carbon Nucleophiles. <i>Journal of Organic Chemistry</i> , 1994, 59, 4037-4039.	1.7	49
60	Asymmetric Total Synthesis of (+)-7-Deoxypancratistatin. <i>Synlett</i> , 1995, 1995, 1125-1126.	1.0	49
61	Unusual oxidation of 1-halo-1,3-dienes with permanganate. Expedient syntheses of (+)-D-chiro-3-inosose and (+)-D-chiro-inositol from chlorobenzene. <i>Journal of Organic Chemistry</i> , 1993, 58, 2331-2333.	1.7	48
62	General synthesis of inositols by hydrolysis of conduritol epoxides obtained biocatalytically from halogenobenzenes: (+)-D-chiro-inositol, allo-inositol, muco-inositol and neo-inositol. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1993, , 741.	0.9	48
63	Chemoenzymatic enantiodivergent total syntheses of (+)- and (âˆ™)-codeine. <i>Tetrahedron</i> , 2009, 65, 9862-9875.	1.0	48
64	Short, enantioselective synthesis of (âˆ™)-retigeranic acid via [2+3] annulation. <i>Tetrahedron Letters</i> , 1988, 29, 3283-3286.	0.7	47
65	Unexpected Reactivity of the Burgess Reagent with Thiols: A Synthesis of Symmetrical Disulfides. <i>Journal of Organic Chemistry</i> , 2007, 72, 4989-4992.	1.7	47
66	Tetrodotoxin: History, Biology, and Synthesis. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18338-18387.	7.2	47
67	Cyclotrimerization Strategy toward Analogues of Amaryllidaceae Constituents. Synthesis of Deoxygenated Pancratistatin Core. <i>Organic Letters</i> , 2005, 7, 5669-5672.	2.4	46
68	Total Synthesis of (+)-7-Deoxypancratistatin via Aza-Payne Rearrangement and Intramolecular Cyclization. <i>Organic Letters</i> , 2002, 4, 115-117.	2.4	45
69	Enantioselective Total Synthesis and Biological Evaluation of (+)-Kibdelone A and a Tetrahydroxanthone Analogue. <i>Journal of Organic Chemistry</i> , 2013, 78, 7617-7626.	1.7	45
70	Benefits of Unconventional Methods in the Total Synthesis of Natural Products. <i>ACS Omega</i> , 2018, 3, 17326-17340.	1.6	45
71	Intramolecular cyclopentene annulation. 2. Synthesis and carbon-13 nuclear magnetic resonance spectroscopy of bicyclo[4.3.0]non-7-en-2-ones. <i>Journal of Organic Chemistry</i> , 1981, 46, 2911-2915.	1.7	44
72	Intramolecular [4 + 1] pyrroline annulation approach to pyrrolizidine alkaloids. Formal total synthesis of (Â±)-supinidine. <i>Tetrahedron Letters</i> , 1985, 26, 3523-3526.	0.7	44

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73	Regioselectivity in the Reformatskii reaction of 4-bromocrotonate. Role of the catalyst and the solvent in the normal vs. abnormal modes of addition to carbonyl substrates. <i>Journal of Organic Chemistry</i> , 1984, 49, 1845-1848.	1.7	42
74	Microbial Oxidation of Chloroaromatics in the Enantioselective Synthesis of Carbohydrates: L-Ribonic 1 <sup>3</sup> -Lactone. <i>Synlett</i> , 1990, 1990, 159-160.	1.0	42
75	Palladium-Catalyzed N-Demethylation/Acylation of Some Morphine and Tropane Alkaloids. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 2984-2992.	2.1	42
76	Total Synthesis of 7-Deoxypancratistatin-1-carboxaldehyde and Carboxylic Acid via Solvent-Free Intramolecular Aziridine Opening: A Phenanthrene to Phenanthridone Cyclization Strategy. <i>Organic Letters</i> , 2008, 10, 361-364.	2.4	42
77	Chemoenzymic enantiocontrolled synthesis of (-)-specionin. <i>Journal of Organic Chemistry</i> , 1992, 57, 4740-4746.	1.7	41
78	Toluene-Dioxygenase-Mediated cis-Dihydroxylation of Aromatics in Enantioselective Synthesis. Iterative Glycoconjugate Coupling Strategy and Combinatorial Design for the Synthesis of Oligomers of nor-Saccharides, Inositols and Pseudosugars with Interesting Molecular Properties. <i>Synthesis</i> , 1996, 1996, 897-911.	1.2	41
79	Microbial oxidation of naphthalene derivatives. Absolute configuration of metabolites. <i>Tetrahedron Letters</i> , 1990, 31, 13-16.	0.7	40
80	A Model Study Directed Towards a Practical Enantioselective Total Synthesis of (-)-Morphine. <i>Synthesis</i> , 1992, 1992, 174-178.	1.2	40
81	Chemoenzymic Synthesis of D-erythro- and L-threo-C18-Sphingosines. <i>Journal of Organic Chemistry</i> , 1994, 59, 7944-7946.	1.7	40
82	New vinylcyclopropanation methodology and reagents for potential [2 + 3] cyclopentene, dihydrofuran, and pyrroline annulations. <i>Journal of Organic Chemistry</i> , 1986, 51, 4746-4748.	1.7	39
83	Terpenic acids by cyclopentene annulation of exocyclic dienes. Synthesis of the triquinane portion of retigeranic acid. <i>Journal of Organic Chemistry</i> , 1982, 47, 1522-1527.	1.7	38
84	Directed evolution of the dioxygenase complex for the synthesis of furanone flavor compounds. <i>Tetrahedron</i> , 2004, 60, 729-734.	1.0	38
85	Synthesis of Buprenorphine from Oripavine via N-Demethylation of Oripavine Quaternary Salts. <i>Journal of Organic Chemistry</i> , 2011, 76, 4628-4634.	1.7	38
86	Improved Synthesis of Buprenorphine from Thebaine and/or Oripavine via Palladium-Catalyzed N-Demethylation/Acylation and/or Concomitant O-Demethylation. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 613-626.	2.1	38
87	Two topologically distinct total syntheses of (+,-)-sarkomycin. <i>Journal of Organic Chemistry</i> , 1983, 48, 3581-3583.	1.7	37
88	Minimum Alveolar Anesthetic Concentration of Fluorinated Alkanols in Rats. <i>Anesthesia and Analgesia</i> , 1999, 88, 867-876.	1.1	37
89	A Historical Perspective of Morphine Syntheses. <i>Studies in Natural Products Chemistry</i> , 1995, , 43-154.	0.8	36
90	A practical multigram-scale synthesis of allo-inositol. <i>Carbohydrate Research</i> , 1997, 304, 39-42.	1.1	36

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91	Investigation of steric and functionality limits in the enzymatic dihydroxylation of benzoate esters. Versatile intermediates for the synthesis of pseudo-sugars, amino cyclitols, and bicyclic ring systems. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 2619.	1.5	36
92	Synthesis of .beta.-methoxy enones via a new two-carbon extension of carboxylic acids. <i>Journal of Organic Chemistry</i> , 1990, 55, 4767-4770.	1.7	35
93	Synthesis of pseudosugars from microbial metabolites. <i>Tetrahedron Letters</i> , 1995, 36, 2591-2594.	0.7	35
94	4-Siloxy-.alpha.-bromocrotonate: a new reagent for [2+3] annulation leading to oxygenated cyclopentenes at low temperatures. <i>Journal of Organic Chemistry</i> , 1990, 55, 2570-2572.	1.7	34
95	Inositol synthesis: concise preparation of l-chiro-inositol and muco-inositol from a common intermediate. <i>Tetrahedron: Asymmetry</i> , 1998, 9, 2011-2014.	1.8	34
96	The Total Synthesis of (±)-Isocomene by an Intramolecular Ene Reaction. Preliminary communication. <i>Helvetica Chimica Acta</i> , 1979, 62, 1493-1496.	1.0	33
97	Cyclotrimerization approach to unnatural structural modifications of pancratistatin and other amaryllidaceae constituents – Synthesis and biological evaluation. <i>Canadian Journal of Chemistry</i> , 2006, 84, 1313-1337.	0.6	33
98	Formal total synthesis of (–)- and (+)-balanol: two complementary enantiodivergent routes from vinyloxiranes and vinylaziridines. <i>Tetrahedron</i> , 2009, 65, 212-220.	1.0	33
99	Chemoenzymatic total synthesis of (-)-neopinone and formal total synthesis of (-)-codeinone from 1-bromoethylbenzene*. <i>Canadian Journal of Chemistry</i> , 2011, 89, 709-729.	0.6	33
100	Recent advances in process development for opiate-derived pharmaceutical agents. <i>Canadian Journal of Chemistry</i> , 2015, 93, 492-501.	0.6	33
101	Improved synthesis and characterization of Pictet-Spengler adducts of phenylpyruvic acid and biogenic amines. <i>Journal of Organic Chemistry</i> , 1981, 46, 1738-1741.	1.7	32
102	Chemoenzymatic synthesis of the morphine skeleton via radical cyclization and a C10–C11 closure. <i>Tetrahedron Letters</i> , 1996, 37, 8155-8158.	0.7	32
103	General Method of Synthesis for Naloxone, Naltrexone, Nalbuphine, and Nalbuphine by the Reaction of Grignard Reagents with an Oxazolidine Derived from Oxymorphone. <i>Advanced Synthesis and Catalysis</i> , 2013, 355, 1869-1873.	2.1	32
104	Oxidation of 2-methoxynaphthalene by toluene, naphthalene and biphenyl dioxygenases: structure and absolute stereochemistry of metabolites. <i>Bioorganic and Medicinal Chemistry</i> , 1994, 2, 727-734.	1.4	31
105	Recent chemoenzymatic total syntheses of natural and unnatural products: Codeine, balanol, pancratistatin, and oseltamivir. <i>Pure and Applied Chemistry</i> , 2010, 82, 1785-1796.	0.9	31
106	Selective Cytotoxicity against Human Osteosarcoma Cells by a Novel Synthetic C-1 Analogue of 7-Deoxypancratistatin Is Potentiated by Curcumin. <i>PLoS ONE</i> , 2011, 6, e28780.	1.1	31
107	Synthesis of C-1 homologues of pancratistatin and their preliminary biological evaluation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 4750-4752.	1.0	31
108	Direct biocatalytic synthesis of functionalized catechols: a green alternative to traditional methods with high effective mass yield. <i>Green Chemistry</i> , 2000, 2, 263-265.	4.6	30

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109	Opening of a vinyl aziridine with p-toluenesulfonamide under TBAF catalysis: synthesis of 3,4-diamino-3,4-dideoxy-l-chiro-inositol. <i>Tetrahedron Letters</i> , 2001, 42, 6433-6435.	0.7	30
110	Chemoenzymatic Formal Total Synthesis of <i>ent</i> -Codeine and Other Morphinans via Nitrene Cycloadditions and/or Radical Cyclizations. Comparison of Strategies for Control of 4 Stereogenic Centers. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 333-339.	2.1	30
111	Cancer Cell Mitochondria Targeting by Pancratistatin Analogs is Dependent on Functional Complex II and III. <i>Scientific Reports</i> , 2017, 7, 42957.	1.6	30
112	SRN1 mechanism in heteroaromatic nucleophilic substitution. Photostimulation and entrainment of the reaction of lithioacetone with 2-chloroquinoline. <i>Journal of the American Chemical Society</i> , 1975, 97, 374-377.	6.6	29
113	Intramolecular Simmons-Smith reaction and other synthetic alternatives to cyclopropanation of dienic diazo ketones. Parallel decomposition pathways of a sterically congested diazo ketone and its vinylcyclopropane under thermal, photolytic, acid-catalyzed, and radical-release conditions. <i>Journal of Organic Chemistry</i> , 1985, 50, 123-127.	1.7	29
114	Heteroatom cyclopentene annulation. Synthesis of guaiane ring system. <i>Journal of Organic Chemistry</i> , 1985, 50, 4166-4171.	1.7	29
115	Microbial Oxidation of Chloroaromatics in the Enantiocontrolled Synthesis of Cyclitols: (-)-Dihydroconduritol C. <i>Synlett</i> , 1990, 1990, 309-310.	1.0	29
116	An Overview of the Total Synthesis of Pyrrolizidine Alkaloids via [4 + 1]Azide-Diene Annulation Methodology. <i>Synlett</i> , 1990, 1990, 433-440.	1.0	29
117	Yeast-mediated resolution of .beta.-keto esters of prochiral alcohols. <i>Journal of Organic Chemistry</i> , 1991, 56, 3619-3623.	1.7	28
118	Chemoenzymatic Total Synthesis of <i>ent</i> -Oxycodone: Second-, Third-, and Fourth-Generation Strategies. <i>Journal of the American Chemical Society</i> , 2019, 141, 10883-10904.	6.6	28
119	Studies in the regioselectivity of the vinylogous Reformatsky reaction with ambident electrophiles: reversibility, mechanism, and synthetic utility. <i>Journal of Organic Chemistry</i> , 1985, 50, 4300-4306.	1.7	27
120	New oligomers of conduritol-F and muco -inositol. Synthesis and biological evaluation as glycosidase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004, 14, 1209-1212.	1.0	27
121	On the Practical Limits of Determining Isolated Product Yields and Ratios of Stereoisomers: Reflections, Analysis, and Redemption. <i>Synlett</i> , 2010, 2010, 2701-2707.	1.0	27
122	Introduction to Enzymes in Synthesis. <i>Chemical Reviews</i> , 2011, 111, 3995-3997.	23.0	27
123	Direct Synthesis of Naltrexone by Palladium-Catalyzed <i>N</i> -Demethylation/Acylation of Oxymorphone: The Benefit of C-H Activation and the Intramolecular Acyl Transfer from 4-Hydroxy. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 2713-2718.	2.1	27
124	On Hype, Malpractice, and Scientific Misconduct in Organic Synthesis. <i>Helvetica Chimica Acta</i> , 2012, 95, 2052-2062.	1.0	27
125	Stereoselective dimerizations of arene-cis-diol acetonides derived from the oxidation of halobenzenes by <i>Pseudomonas putida</i> : absolute configuration of the adducts by x-ray crystallography. <i>Journal of Organic Chemistry</i> , 1992, 57, 1026-1028.	1.7	26
126	New chiral synthon from bromoethylbenzene: Absolute stereochemistry of a biooxidation metabolite. <i>Tetrahedron: Asymmetry</i> , 1995, 6, 537-542.	1.8	26



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127	Nonimmobilizers and Transitional Compounds May Produce Convulsions by Two Mechanisms. <i>Anesthesia and Analgesia</i> , 1999, 88, 884-892.	1.1	26
128	Studies in Cephalotaxus alkaloids. Stereospecific total synthesis of homoharringtonine. <i>Journal of Organic Chemistry</i> , 1983, 48, 5321-5326.	1.7	25
129	[2+3] Cyclopentene annulation and other trimethylsilyl iodide-mediated rearrangement pathways of vinylcyclopropanes. <i>Tetrahedron Letters</i> , 1987, 28, 167-170.	0.7	25
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