Francesca Cardona

List of Publications by Year in descending order

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112 papers 4,552 citations

34 h-index 63 g-index

145 all docs 145
docs citations

145 times ranked 3922 citing authors

#	Article	IF	Citations
1	Photoswitchable inhibitors of human \hat{l}^2 -glucocerebrosidase. Organic and Biomolecular Chemistry, 2022, 20, 1637-1641.	2.8	9
2	3,4,5â€Trihydroxypiperidine Based Multivalent Glucocerebrosidase (GCase) Enhancers. ChemBioChem, 2022, 23, .	2.6	8
3	Synthesis of a New \hat{I}^2 -Galactosidase Inhibitor Displaying Pharmacological Chaperone Properties for GM1 Gangliosidosis. Molecules, 2022, 27, 4008.	3.8	2
4	Women in Bioorganic Chemistry. Molecules, 2022, 27, 4290.	3.8	О
5	GCase Enhancers: A Potential Therapeutic Option for Gaucher Disease and Other Neurological Disorders. Pharmaceuticals, 2022, 15, 823.	3.8	12
6	Synthesis of Azasugar–Sulfonamide conjugates and their Evaluation as Inhibitors of Carbonic Anhydrases: the Azasugar Approach to Selectivity. European Journal of Organic Chemistry, 2021, 2021, 2604-2614.	2.4	2
7	Piperidine Azasugars Bearing Lipophilic Chains: Stereoselective Synthesis and Biological Activity as Inhibitors of Glucocerebrosidase (GCase). Journal of Organic Chemistry, 2021, 86, 12745-12761.	3.2	11
8	Hybrid Multivalent Jack Bean α-Mannosidase Inhibitors: The First Example of Gold Nanoparticles Decorated with Deoxynojirimycin Inhitopes. Molecules, 2021, 26, 5864.	3.8	7
9	Multivalent resorcinarene clusters decorated with DAB-1 inhitopes: targeting Golgi α-mannosidase from Drosophila melanogaster. Organic Chemistry Frontiers, 2021, 8, 6648-6656.	4.5	3
10	New Frontiers on Human Safe Insecticides and Fungicides: An Opinion on Trehalase Inhibitors. Molecules, 2020, 25, 3013.	3.8	23
11	Synthesis of "All-Cis―Trihydroxypiperidines from a Carbohydrate-Derived Ketone: Hints for the Design of New β-Gal and GCase Inhibitors. Molecules, 2020, 25, 4526.	3.8	3
12	Allyl Cyanate/Isocyanate Rearrangement in Glycals: Stereoselective Synthesis of 1-Amino and Diamino Sugar Derivatives. Organic Letters, 2020, 22, 9041-9046.	4.6	9
13	Imino―and Azasugar Protonation Inside Human Acid βâ€Glucosidase, the Enzyme that is Defective in Gaucher Disease. Angewandte Chemie, 2020, 132, 10552-10555.	2.0	6
14	Imino―and Azasugar Protonation Inside Human Acid βâ€Glucosidase, the Enzyme that is Defective in Gaucher Disease. Angewandte Chemie - International Edition, 2020, 59, 10466-10469.	13.8	16
15	Glucocerebrosidase (GCase) activity modulation by 2-alkyl trihydroxypiperidines: Inhibition and pharmacological chaperoning. Bioorganic Chemistry, 2020, 98, 103740.	4.1	16
16	Glycomimetic Based Approach toward Selective Carbonic Anhydrase Inhibitors. ACS Medicinal Chemistry Letters, 2020, 11, 727-731.	2.8	12
17	Reductive Amination Routes in the Synthesis of Piperidine IminoSugars. European Journal of Organic Chemistry, 2020, 2020, 4447-4462.	2.4	20
18	Synthesis of multimeric pyrrolidine iminosugar inhibitors of human \hat{l}^2 -glucocerebrosidase and \hat{l} ±-galactosidase A: First example of a multivalent enzyme activity enhancer for Fabry disease. European Journal of Medicinal Chemistry, 2020, 192, 112173.	5.5	16

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19	Studies for the Multimerization of DABâ€1â€Based Iminosugars through Iteration of the Nitrone Cycloaddition/Ringâ€Opening/Allylation Sequence. European Journal of Organic Chemistry, 2019, 2019, 4897-4905.	2.4	3
20	Structural basis of the inhibition of GH1 \hat{l}^2 -glucosidases by multivalent pyrrolidine iminosugars. Bioorganic Chemistry, 2019, 89, 103026.	4.1	12
21	Dual targeting of PTP1B and glucosidases with new bifunctional iminosugar inhibitors to address type 2 diabetes. Bioorganic Chemistry, 2019, 87, 534-549.	4.1	32
22	Stereoselective Synthesis of C-2 Alkylated Trihydroxypiperidines: Novel Pharmacological Chaperones for Gaucher Disease. ACS Medicinal Chemistry Letters, 2019, 10, 621-626.	2.8	20
23	Multimerization of DAB-1 onto Au GNPs affords new potent and selective $\langle i \rangle N \langle i \rangle$ -acetylgalactosamine-6-sulfatase (GALNS) inhibitors. Organic and Biomolecular Chemistry, 2018, 16, 8604-8612.	2.8	20
24	Probing the Influence of Linker Length and Flexibility in the Design and Synthesis of New Trehalase Inhibitors. Molecules, 2018, 23, 436.	3.8	9
25	Alkoxyallene-Based Stereodivergent Syntheses of (â^')-Hyacinthacine B ₄ and of Putative Hyacinthacine C ₅ Structure. Journal of Organic Chemistry, 2017, 82, 5835-5844.	3.2	24
26	On the Oxidation of Hydroxylamines with o-lodoxybenzoic Acid (IBX). Synthesis, 2017, 49, 2890-2900.	2.3	14
27	A step forward towards sustainable aerobic alcohol oxidation: new and revised catalysts based on transition metals on solid supports. Green Chemistry, 2017, 19, 2030-2050.	9.0	156
28	Accessing 2-substituted piperidine iminosugars by organometallic addition/intramolecular reductive amination: aldehyde vs. nitrone route. Organic and Biomolecular Chemistry, 2017, 15, 9121-9126.	2.8	11
29	Diruthenium Diacetate Catalysed Aerobic Oxidation of Hydroxylamines and Improved Chemoselectivity by Immobilisation to Lysozyme. ChemCatChem, 2017, 9, 4225-4230.	3.7	10
30	Mechanistic Insight into the Binding of Multivalent Pyrrolidines to αâ€Mannosidases. Chemistry - A European Journal, 2017, 23, 14585-14596.	3.3	32
31	Oxidation of N,N-Disubstituted Hydroxylamines to Nitrones: The Search for More Sustainable Selective and Practical Stoichiometric Oxidants. Chimia, 2017, 71, 558.	0.6	10
32	From glycals to aminosugars: a challenging test for new stereoselective aminohydroxylation and related methodologies. Organic and Biomolecular Chemistry, 2016, 14, 5186-5204.	2.8	44
33	Evidence for a multivalent effect in inhibition of sulfatases involved in lysosomal storage disorders (LSDs). RSC Advances, 2016, 6, 64847-64851.	3.6	20
34	Are enzymes sensitive to the multivalent effect? Emerging evidence with glycosidases. Tetrahedron Letters, 2016, 57, 5407-5415.	1.4	54
35	Cycloadditions of Sugarâ€Derived ÂNitrones Targeting Polyhydroxylated Indolizidines. European Journal of Organic Chemistry, 2016, 2016, 1588-1598.	2.4	27
36	Gold Supported on Silica Catalyzes the Aerobic Oxidation of <i>N</i> , <i>N</i> ,ê€Disubstituted Hydroxylamines to Nitrones. European Journal of Organic Chemistry, 2015, 2015, 6541-6546.	2.4	11

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37	Human Acid βâ€Glucosidase Inhibition by Carbohydrate Derived Iminosugars: Towards New Pharmacological Chaperones for Gaucher Disease. ChemBioChem, 2015, 16, 2054-2064.	2.6	45
38	Exploring architectures displaying multimeric presentations of a trihydroxypiperidine iminosugar. Beilstein Journal of Organic Chemistry, 2015, 11, 2631-2640.	2.2	12
39	Osmium-Catalyzed Tethered Aminohydroxylation of Glycals: A Stereodirected Access to 2- and 3-Aminosugars. Organic Letters, 2015, 17, 728-731.	4.6	12
40	Oxidation of <i>N</i> , <i>N</i> -Disubstituted Hydroxylamines to Nitrones with Hypervalent Iodine Reagents. Organic Letters, 2015, 17, 4082-4085.	4.6	52
41	Gold nanoparticles are suitable cores for building tunable iminosugar multivalency. RSC Advances, 2015, 5, 95817-95822.	3.6	13
42	New synthesis and biological evaluation of uniflorine A derivatives: towards specific insect trehalase inhibitors. Organic and Biomolecular Chemistry, 2015, 13, 886-892.	2.8	16
43	6-Azido hyacinthacine A ₂ gives a straightforward access to the first multivalent pyrrolizidine architectures. Organic and Biomolecular Chemistry, 2014, 12, 6250.	2.8	27
44	N-Bridged 1-deoxynojirimycin dimers as selective insect trehalase inhibitors. Carbohydrate Research, 2014, 389, 46-49.	2.3	9
45	Polyhydroxyaminoâ€Piperidineâ€Type Iminosugars and Pipecolic Acid Analogues from a <scp>D</scp> â€Mannoseâ€Derived Aldehyde. European Journal of Organic Chemistry, 2014, 2014, 5419-5432.	2.4	32
46	Synthesis of novel enantiopure ionic liquids from (S)-malic acid. Arkivoc, 2014, 2014, 54-64.	0.5	1
47	Stereocomplementary Routes to Hydroxylated Nitrogen Heterocycles: Total Syntheses of Casuarine, Australine, and 7â€ <i>epi</i>	3.3	52
48	Synthesis and Glycosidase Inhibition Studies of 5â€Methylâ€Substituted Tetrahydroxyindolizidines and â€pyrrolizidines Related to Natural Hyacinthacines B. European Journal of Organic Chemistry, 2013, 2013, 4047-4056.	2.4	31
49	Natural Iminosugar (+)-Lentiginosine Inhibits ATPase and Chaperone Activity of Hsp90. PLoS ONE, 2012, 7, e43316.	2.5	38
50	Synthesis and biological evaluation of nojirimycin- and pyrrolidine-based trehalase inhibitors. Beilstein Journal of Organic Chemistry, 2012, 8, 514-521.	2.2	22
51	Transition metal based catalysts in the aerobic oxidation of alcohols. Green Chemistry, 2012, 14, 547.	9.0	597
52	Double Reductive Amination and Selective Strecker Reaction of a <scp>D</scp> â€Lyxaric Aldehyde: Synthesis of Diversely Functionalized 3,4,5â€Trihydroxypiperidines. European Journal of Organic Chemistry, 2012, 2012, 3920-3924.	2.4	36
53	Building Multivalent Iminosugar-Based Ligands on Calixarene Cores via Nitrone Cycloadditions. Journal of Organic Chemistry, 2012, 77, 6980-6988.	3.2	40
54	(â^')â€(1 <i>R</i> ,2 <i>R</i> ,7 <i>S,</i> 8a <i>R</i>)â€1,2,7â€Trihydroxyindolizidine ((â^')â€7 <i>S</i> â€OHâ€Lenti Synthesis and Proapoptotic Activity. ChemPlusChem, 2012, 77, 224-233.	ginosine):	15

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55	Novel S-acyl glutathione derivatives prevent amyloid oxidative stress and cholinergic dysfunction in Alzheimer disease models. Free Radical Biology and Medicine, 2012, 52, 1362-1371.	2.9	52
56	Synthesis of Novel Iminosugarâ€Based Trehalase Inhibitors by Crossâ€Metathesis Reactions. European Journal of Organic Chemistry, 2011, 2011, 3995-4000.	2.4	12
57	Total Synthesis of (+)â€Hyacinthacine A ₁ , (+)â€7aâ€ <i>epi</i> à6€Hyacinthacine A ₁ , (6 <i>R</i>)â€6â€Hydroxyhyacinthacine A ₁ and (6 <i>S</i>)â€6â€Hydroxyâ€7aâ€ <i>epi</i> à6€hyacinthacine A ₁ . European Journal of Organic Chemistry, 2011, 2011, 7155-7162.	tl 2a∉ ine	36
58	Synthesis of a Novel Tetrahydroxylated β-Homoproline. Synlett, 2011, 2011, 231-234.	1.8	4
59	Chapter 10. Trehalose mimetics as inhibitors of trehalose processing enzymes. Carbohydrate Chemistry, 2011, , 259-302.	0.3	3
60	Synthesis, Biological Evaluation and Docking Studies of Casuarine Analogues: Effects of Structural Modifications at Ring B on Inhibitory Activity Towards Glucoamylase. European Journal of Organic Chemistry, 2010, 2010, 5574-5585.	2.4	47
61	The novel proapoptotic activity of nonnatural enantiomer of Lentiginosine. Glycobiology, 2010, 20, 500-506.	2.5	44
62	A membrane-bound trehalase from Chironomus riparius larvae: purification and sensitivity to inhibition. Glycobiology, 2010, 20, 1186-1195.	2.5	36
63	Casuarine-6-O-α-d-glucoside and its analogues are tight binding inhibitors of insect and bacterial trehalases. Chemical Communications, 2010, 46, 2629.	4.1	40
64	Novel I-Tartaric Acid Derived Pyrrolidinium Cations for the Synthesis of Chiral Ionic Liquids. Synlett, 2009, 2009, 747-750.	1.8	6
65	Total Syntheses of Casuarine and Its 6â€ <i>O</i> àâ€Î±â€Glucoside: Complementary Inhibition towards Glycoside Hydrolases of the GH31 and GH37 Families. Chemistry - A European Journal, 2009, 15, 1627-1636.	3.3	92
66	Stereocontrolled Cyclic Nitrone Cycloaddition Strategy for the Synthesis of Pyrrolizidine and Indolizidine Alkaloids. Chemistry - A European Journal, 2009, 15, 7808-7821.	3.3	229
67	Metal-catalysed 1,2-diamination reactions. Nature Chemistry, 2009, 1, 269-275.	13.6	325
68	Total Synthesis of (â^')-Uniflorine A. Journal of Natural Products, 2009, 72, 2058-2060.	3.0	32
69	N-Glycosylhydroxylamines as Masked Polyhydroxylated Chiral Nitrones in Cycloaddition Reactions: An Access to Pyrrolizidines. Heterocycles, 2009, 79, 883.	0.7	6
70	Oneâ∈Pot Synthesis of Nitrones from Primary Amines and Aldehydes Catalyzed by Methyltrioxorhenium. ChemSusChem, 2008, 1, 327-332.	6.8	38
71	Nucleophilic Additions to Cyclic Nitrones en Route to Iminocyclitols – Total Syntheses of DMDP, 6â€deoxyâ€DMDP, DABâ€1, CYBâ€3, Nectrisine, and Radicamine B. European Journal of Organic Chemistry, 2008 2008, 2929-2947.	, 2.4	119
72	Ionic liquids in methyltrioxorhenium catalyzed epoxidation–methanolysis of glycals under homogeneous and heterogeneous conditions. Journal of Molecular Catalysis A, 2008, 284, 108-115.	4.8	13

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73	Hydrogen Peroxide in Green Oxidation Reactions: Recent Catalytic Processes. , 2008, , 191-212.		32
74	Quasienantiomeric Levoglucosenone and Isolevoglucosenone Allow the Parallel Kinetic Resolution of a Racemic Nitrone. Journal of Organic Chemistry, 2008, 73, 1999-2002.	3.2	23
75	Nucleophilic Additions and Redox Reactions of Polyhydroxypyrroline N-Oxides on the Way to Pyrrolidine Alkaloids: Total Synthesis of Radicamine B. Synlett, 2007, 2007, 2651-2654.	1.8	35
76	Catalytic Oxidation of Imines Based on Methyltrioxorhenium/Urea Hydrogen Peroxide:Â A Mild and Easy Chemo- and Regioselective Entry to Nitrones. Organic Letters, 2007, 9, 473-476.	4.6	91
77	Synthesis of densely functionalized enantiopure indolizidines by ring-closing metathesis (RCM) of hydroxylamines from carbohydrate-derived nitrones. Beilstein Journal of Organic Chemistry, 2007, 3, 44.	2.2	11
78	(+)â€Lentiginosine, a Potent and Selective Inhibitor of Amyloglucosidase: Synthetic Efforts and Disputes on Its Absolute Configuration. European Journal of Organic Chemistry, 2007, 2007, 1551-1565.	2.4	72
79	Fmoc-protected iminosugar modified asparagine derivatives as building blocks for glycomimetics-containing peptides. Bioorganic and Medicinal Chemistry, 2007, 15, 3965-3973.	3.0	13
80	Tetra-n-Propylammonium Perruthenate (TPAP) Catalyzed Aerobic Oxidation of Hydroxylamines to Nitrones. Letters in Organic Chemistry, 2006, 3, 118-120.	0.5	17
81	Methyltrioxorhenium-Catalyzed Epoxidation-Methanolysis of Glycals under Homogeneous and Heterogeneous Conditions. Advanced Synthesis and Catalysis, 2006, 348, 476-486.	4.3	30
82	The Discovery of Novel Metal-Induced Reactions of Nitrones: Not Only Electrophiles and Reagents for [3+2] Cycloadditions. Angewandte Chemie - International Edition, 2005, 44, 7832-7835.	13.8	132
83	New Concise Total Synthesis of (+)-Lentiginosine and Some Structural Analogues. Journal of Organic Chemistry, 2005, 70, 6552-6555.	3.2	72
84	Catalytic Oxidationâ^Phosphorylation of Glycals:  Rate Acceleration and Enhancement of Selectivity with Added Nitrogen Ligands in Common Organic Solvents. Organic Letters, 2005, 7, 725-728.	4.6	21
85	Methyltrioxorhenium-Catalyzed Oxidation of Aromatic Aldoximes. Synlett, 2004, 2004, 1553-1556.	1.8	23
86	Oxidation of N,N-Disubstituted Hydroxylamines to Nitrones with Hydrogen Peroxide Catalyzed by Polymer-Supported Methylrhenium Trioxide Systems. Advanced Synthesis and Catalysis, 2004, 346, 639-647.	4.3	58
87	Iterative Organometallic Addition to Chiral Hydroxylated Cyclic Nitrones: Highly Stereoselective Syntheses of α,α′- and α,α-Substituted Hydroxypyrrolidines ChemInform, 2004, 35, no.	0.0	0
88	Methyltrioxorhenium-Catalyzed Oxidation of Aromatic Aldoximes ChemInform, 2004, 35, no.	0.0	0
89	Indium-Mediated Reduction of Hydroxylamines to Amines ChemInform, 2003, 34, no.	0.0	0
90	Total syntheses of hyacinthacine A2 and 7-deoxycasuarine by cycloaddition to a carbohydrate derived nitrone. Tetrahedron Letters, 2003, 44, 2315-2318.	1.4	141

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91	Methyltrioxorhenium catalyzed domino epoxidation-nucleophilic ring opening of glycals. Tetrahedron Letters, 2003, 44, 5589-5592.	1.4	32
92	Indium-Mediated Reduction of Hydroxylamines to Amines. Organic Letters, 2003, 5, 1773-1776.	4.6	76
93	Nitrone Cycloadditions to Isolevoglucosenone:  Ready Access to a New Class of Directly Linked (1→3)-Imino-C-disaccharides. Organic Letters, 2003, 5, 1475-1478.	4.6	16
94	Iterative Organometallic Addition to Chiral Hydroxylated Cyclic Nitrones:  Highly Stereoselective Syntheses of α,αâ€~- and α,α-Substituted Hydroxypyrrolidines. Organic Letters, 2003, 5, 4235-4238.	4.6	77
95	Synthesis of $(1\tilde{A}\dagger 3)$ -C and Homo- $(1\tilde{A}\dagger 3)$ -C-linked Imino-disaccharides Starting from Levoglucosenone and Isolevoglucosenone. Heterocycles, 2002, 56, 181.	0.7	12
96	Total Synthesis of (â^')-Rosmarinecine by Intramolecular Cycloaddition of (S)-Malic Acid Derived Pyrroline N-Oxide. Organic Letters, 2001, 3, 1367-1369.	4.6	56
97	1,3-Dipolar cycloaddition of a nitrone derived from (S)-malic acid to \hat{l}_{\pm},\hat{l}^2 -unsaturated \hat{l} -lactones. Tetrahedron: Asymmetry, 2001, 12, 3163-3172.	1.8	29
98	Kinetic Resolutions by Means of Cycloaddition Reactions. European Journal of Organic Chemistry, 2001, 2001, 2999.	2.4	28
99	Straightforward Access to Enantiomerically Pure, Highly Functionalized Pyrrolizidines by Cycloaddition of Maleic Acid Esters to PyrrolineN-Oxides Derived from Tartaric, Malic and Aspartic Acids â^ Synthesis of (â^)-Hastanecine, 7-epi-Croalbinecine and (â^)-Croalbinecine. European Journal of Organic Chemistry, 2000, 2000, 3633-3645.	2.4	64
100	Diastereoselection in 1,3-dipolar cycloadditions of a chiral cyclic nitrone to \hat{l}_{\pm} , \hat{l}^2 -unsaturated \hat{l} -lactones. Tetrahedron: Asymmetry, 2000, 11, 2015-2022.	1.8	31
101	Synthesis of (Z)-3-Deoxy-3-(1,2,3,6-Tetradeoxy-3,6-Imino-L-Arabino-Hexitol-1-C-Ylidene)-D-Xylo-Hexose Derivatives. First Examples Of Homo-(1â†'3)-C-Linked Iminodisaccharides Journal of Carbohydrate Chemistry, 2000, 19, 555-571.	1.1	15
102	Polyhydroxypyrrolidine Glycosidase Inhibitors Related to (+)-Lentiginosine. Journal of Carbohydrate Chemistry, 2000, 19, 585-601.	1.1	33
103	Oxidation of hydroxylamines to nitrones catalyzed by (salen)Mn(III) complexes. Enantioselective synthesis of a protected cis-dihydroxypyrroline N-oxide with jacobsen catalyst. Tetrahedron Letters, 1999, 40, 1989-1992.	1.4	41
104	A convenient access to (3S)-3-(triisopropylsilyl)oxy-1-pyrroline N-oxide, a useful intermediate for polyfunctionalized enantiopure indolizidine and pyrrolizidine synthesis. Tetrahedron Letters, 1999, 40, 2853-2856.	1.4	53
105	Complete Stereoselective Synthesis of Quasi-Enantiomeric Pseudo Imino-C-disaccharides: Parallel Kinetic Resolution of a Racemiccis-DihydroxypyrrolineN-Oxide by 1,2-Glycals. European Journal of Organic Chemistry, 1999, 1999, 1319-1323.	2.4	24
106	Enantiopure Pyrroline-N-Oxides for the Synthesis of Pyrrolizine and Indolizine Alkaloids. , 1999, , 213-220.		7
107	Straightforward Synthesis of (1â†'2)-Linked Pseudo Aza-C-disaccharides by the Novel Cycloaddition of Enantiopure Cyclic Nitrones to Glycals. Journal of Organic Chemistry, 1998, 63, 7311-7318.	3.2	50
108	Remarkable High-pressure Enhancement of Enantiopure Nitrone Cycloadditions to Glycals: General Access to (1 â†' 2)-Linked Pseudo Aza-C-disaccharides. Synlett, 1998, 1998, 1444-1446.	1.8	14

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109	Molecular Dynamics Simulations on the Complexes of Glucoamylase II (471) from Aspergillus awamori var. X100 with 1-Deoxynojirimycin and Lentiginosine. Journal of Molecular Modeling, 1997, 3, 249-260.	1.8	18
110	New Access to Aza-C-disaccharides by Cycloadditions of Pyrroline N-Oxides to Glycals. Tetrahedron Letters, 1997, 38, 8097-8100.	1.4	22
111	(1S,2S,7R,8aS)- and (1S,2S,7S,8aS)-trihydroxyoctahydroindolizine: Two new glycosidase inhibitors by nitrone cycloaddition strategy. Tetrahedron: Asymmetry, 1996, 7, 1659-1674.	1.8	69
112	Improved Syntheses of (+)-Lentiginosine and (1S,2S,7R,8aS)-Trihydroxyoctahydroindolizine by Butenol Cycloaddition to Enantiopure Protected Dihydroxy Pyrroline N-Oxides. Synlett, 1996, 1996, 761-763.	1.8	55