Francisco LeÃ“n

List of Publications by Year
in descending order

129	2,620	136950	265206
papers	citations	32	42
		h-index	g-index

138	138	138	2675
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Lack of Contribution of 7-Hydroxymitragynine to the Antinociceptive Effects of Mitragynine in Mice: A Pharmacokinetic and Pharmacodynamic Study. Drug Metabolism and Disposition, 2022, 50, 158-167.	3.3	11
2	Plant growth and phytoactive alkaloid synthesis in kratom [Mitragyna speciosa (Korth.)] in response to varying radiance. PLoS ONE, 2022, 17, e0259326.	2.5	11
3	Effects of Mitragynine and its Active Metabolites on the Reinforcing Effects of Remifentanil and Cocaine in Rats Selfâ€Administering Remifentanil. FASEB Journal, 2022, 36, .	0.5	0
4	Natural Products Inhibitors of Monoamine Oxidasesâ€"Potential New Drug Leads for Neuroprotection, Neurological Disorders, and Neuroblastoma. Molecules, 2022, 27, 4297.	3.8	23
5	Coumarins and other constituents from Deverra battandieri. Phytochemistry Letters, 2021, 42, 129-133.	1.2	3
6	Preclinical pharmacokinetic study of speciociliatine, a kratom alkaloid, in rats using an UPLC-MS/MS method. Journal of Pharmaceutical and Biomedical Analysis, 2021, 194, 113778.	2.8	10
7	Kratom (Mitragyna speciosa Korth.): A description on the ethnobotany, alkaloid chemistry, and neuropharmacology. Studies in Natural Products Chemistry, 2021, 69, 195-225.	1.8	6
8	Exploring the Chemistry of Alkaloids from Malaysian Mitragyna speciosa (Kratom) and the Role of Oxindoles on Human Opioid Receptors. Journal of Natural Products, 2021, 84, 1034-1043.	3.0	45
9	Proposed Mechanism for the Antitrypanosomal Activity of Quercetin and Myricetin Isolated from Hypericum afrum Lam.: Phytochemistry, In Vitro Testing and Modeling Studies. Molecules, 2021, 26, 1009.	3.8	11
10	Pharmacokinetics of Eleven Kratom Alkaloids Following an Oral Dose of Either Traditional or Commercial Kratom Products in Rats. Journal of Natural Products, 2021, 84, 1104-1112.	3.0	29
11	Oral Pharmacokinetics in Beagle Dogs of the Mitragynine Metabolite, 7-Hydroxymitragynine. European Journal of Drug Metabolism and Pharmacokinetics, 2021, 46, 459-463.	1.6	3
12	Assessment of Contribution of 7â€Hydroxymitragynine and Mitragynine Pseudoindoxyl to the MUâ€Opioid Activity of Mitragynine. FASEB Journal, 2021, 35, .	0.5	0
13	Serotonin 5â€HT _{1A} Receptor Activity of Kratom Alkaloids Mitragynine, Paynantheine, and Speciogynine. FASEB Journal, 2021, 35, .	0.5	2
14	Pharmacological Characterization of Mitragynine: Antinociception, Respiratory Depression, Selfâ€Administration, Drug Discrimination, Tolerance, and withdrawal in Rats. FASEB Journal, 2021, 35, .	0.5	0
15	Mitragynine Attenuates the Development of Tolerance to and Withdrawal from Morphine in Rats. FASEB Journal, 2021, 35, .	0.5	0
16	The Lofexidineâ€Like Discriminative Effects of the Primary Kratom Alkaloid Mitragynine in Rats. FASEB Journal, 2021, 35, .	0.5	1
17	Novel Approaches, Drug Candidates, and Targets in Pain Drug Discovery. Journal of Medicinal Chemistry, 2021, 64, 6523-6548.	6.4	42
18	Structureâ€"Activity Relationships of the Antimalarial Agent Artemisinin 10. Synthesis and Antimalarial Activity of Enantiomers of rac-5Î²-Hydroxy-d-Secoartemisinin and Analogs: Implications Regarding the Mechanism of Action. Molecules, 2021, 26, 4163.	3.8	6

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19	Activity of Mitragyna speciosa (â€œKratomâ€) Alkaloids at Serotonin Receptors. Journal of Medicinal Chemistry, 2021, 64, 13510-13523.	6.4	30
20	Computationally Assisted Lead Optimization of Novel Potent and Selective MAO-B Inhibitors. Biomedicines, 2021, 9, 1304.	3.2	5
21	Pharmacological Comparison of Mitragynine and 7-Hydroxymitragynine: In Vitro Affinity and Efficacy forÎ¼-Opioid Receptor and Opioid-Like Behavioral Effects in Rats. Journal of Pharmacology and Experimental Therapeutics, 2021, 376, 410-427.	2.5	52
22	Exploration of cytochrome P450 inhibition mediated drug-drug interaction potential of kratom alkaloids. Toxicology Letters, 2020, 319, 148-154.	0.8	36
23	Patterns and reasons for kratom (Mitragyna speciosa) use among current and former opioid poly-drug users. Journal of Ethnopharmacology, 2020, 249, 112462.	4.1	61
24	Bioanalytical method development and validation of corynantheidine, a kratom alkaloid, using UPLC-MS/MS, and its application to preclinical pharmacokinetic studies. Journal of Pharmaceutical and Biomedical Analysis, 2020, 180, 113019.	2.8	14
25	Investigation of the Adrenergic and Opioid Binding Affinities, Metabolic Stability, Plasma Protein Binding Properties, and Functional Effects of Selected Indole-Based Kratom Alkaloids. Journal of Medicinal Chemistry, 2020, 63, 433-439.	6.4	92
26	Lyophilized Kratom Tea as a Therapeutic Option for Opioid Dependence. Drug and Alcohol Dependence, 2020, 216, 108310.	3.2	40
27	Pharmacokinetics and Safety of Mitragynine in Beagle Dogs. Planta Medica, 2020, 86, 1278-1285.	1.3	19
28	Metabolism of a Kratom Alkaloid Metabolite in Human Plasma Increases Its Opioid Potency and Efficacy. ACS Pharmacology and Translational Science, 2020, 3, 1063-1068.	4.9	36
29	Challenges and future directions of potential natural products leads against 2019-nCoV outbreak. Current Plant Biology, 2020, 24, 100180.	4.7	7
30	Evaluation of the rewarding effects of mitragynine and 7â€hydroxymitragynine in an intracranial self-stimulation procedure in male and female rats. Drug and Alcohol Dependence, 2020, 215, 108235.	3.2	19
31	Effects of Nutrient Fertility on Growth and Alkaloidal Content in Mitragyna speciosa (Kratom). Frontiers in Plant Science, 2020, 11, 597696.	3.6	17
32	Chlorinated Guaiane-Type Sesquiterpene Lactones as Cytotoxic Agents against Human Tumor Cells. International Journal of Molecular Sciences, 2020, 21, 9767.	4.1	9
33	3-O-Formyl -27-Hydroxyfusidic Acid: A New Metabolite of Fusidic Acid by Cunninghamella echinulata. Records of Natural Products, 2020, 14, 292-296.	1.3	4
34	Characterization of Chemical Compounds and Antioxidant Activity of Centaurea solstitialis sp. schouwii (DC.) Q. et S. (Asteraceae). Current Bioactive Compounds, 2020, 16, 618-626.	0.5	2
35	Abuse liability and therapeutic potential of the Mitragyna speciosa (kratom) alkaloids mitragynine and 7â€hydroxymitragynine. Addiction Biology, 2019, 24, 874-885.	2.6	103
36	Perspective on the Therapeutics of Anti-Snake Venom. Molecules, 2019, 24, 3276.	3.8	45

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37	The effects of mitragynine and morphine on schedule-controlled responding and antinociception in rats. Psychopharmacology, 2019, 236, 2725-2734.	3.1	40
38	Simultaneous quantification of ten key Kratom alkaloids in Mitragyna speciosa leaf extracts and commercial products by ultraâ€performance liquid chromatographyâ^'tandem mass spectrometry. Drug Testing and Analysis, 2019, 11, 1162-1171.	2.6	62
39	Total Phenolic and Flavonoid Content and Biological Activities of Extracts and Isolated Compounds of Cytisus villosus Pourr.. Biomolecules, 2019, 9, 732.	4.0	15
40	Metabolite profiling and identification of enzymes responsible for the metabolism of mitragynine, the major alkaloid of Mitragyna speciosa (kratom). Xenobiotica, 2019, 49, 1279-1288.	1.1	70
41	Comparative Pharmacokinetics of Mitragynine after Oral Administration of Mitragyna speciosa (Kratom) Leaf Extracts in Rats. Planta Medica, 2019, 85, 340-346.	1.3	36
42	Centaurea microcarpa Coss. & Dur. (Asteraceae) extracts: New cyanogenic glucoside and other constituents. Natural Product Research, 2019, 33, 3070-3076.	1.8	7
43	Motives for using Kratom (Mitragyna speciosa Korth.) among regular users in Malaysia. Journal of Ethnopharmacology, 2019, 233, 34-40.	4.1	41
44	Computationally aided stereochemical assignment of undescribed bisabolenes from Calea urticifolia. Phytochemistry, 2019, 157, 145-150.	2.9	3
45	Evaluation of triazole and isoxazole derivatives as potential anti-infective agents. Medicinal Chemistry Research, 2018, 27, 1269-1275.	2.4	27
46	3â€²-Hydroxy-3,4â€²-dimethoxyflavone-induced cell death in human leukaemia cells is dependent on caspases and reactive oxygen species and attenuated by the inhibition of JNK/SAPK. Chemico-Biological Interactions, 2018, 288, 1-11.	4.0	11
47	Inhibition of human monoamine oxidase A and B by flavonoids isolated from two Algerian medicinal plants. Phytomedicine, 2018, 40, 27-36.	5.3	58
48	Secondary metabolites from the aerial parts of Cytisus villosus Pourr.. Phytochemistry Letters, 2018, 24, 1-5.	1.2	13
49	Humulene derivatives from Saharian Asteriscus graveolens. Tetrahedron Letters, 2018, 59, 2668-2670.	1.4	7
50	Secondary metabolites from two Hispaniola Ageratina species and their cytotoxic activity. Medicinal Chemistry Research, 2018, 27, 1792-1799.	2.4	8
51	Isolation, Antioxidant and Antimicrobial Activities of Ecdysteroids from Serratula cichoracea. Current Bioactive Compounds, 2018, 14, 60-66.	0.5	15
52	Molecular Modeling Evaluation of the Enantiomers of a Novel Adenylyl Cyclase 2 Inhibitor. Journal of Chemical Information and Modeling, 2017, 57, 322-334.	5.4	8
53	3â€²-Hydroxy-3,4â€²-dimethoxyflavone blocks tubulin polymerization and is a potent apoptotic inducer in human SK-MEL-1 melanoma cells. Bioorganic and Medicinal Chemistry, 2017, 25, 6060-6070.	3.0	9
54	A New Î”-2-Carene-Î²-D-Glucopyranoside from Fagonia Longispina. Natural Product Communications, 2017, 12, 1934578X1701200.	0.5	0

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55	Interactions of Desmethoxyyangonin, a Secondary Metabolite fromRenealmia alpinia, with Human Monoamine Oxidase-A and Oxidase-B. Evidence-based Complementary and Alternative Medicine, 2017, 2017, 1-10.	1.2	7
56	Components and antioxidant, anti-inflammatory, anti-ulcer and antinociceptive activities of the endemic species Stachys mialhesi de NoÃ©. Arabian Journal of Chemistry, 2016, 9, S191-S197.	4.9	9
57	Secondary Metabolites and Antioxidant Activity of Limonium duriusculum (de Girard) Kuntze Extracts. Asian Journal of Chemistry, 2016, 28, 2695-2700.	0.3	2
58	Quantitative Determination of Betaine, Choline, Acetylcholine, and 20-Hydroxyecdysone Simultaneously from Atriplex Species by UHPLC-UV-MS. Natural Product Communications, 2016, 11, 1934578X1601101.	0.5	1
59	Secondary Metabolites, Evaluation of the DPPH Free-Radical Scavenging Effect by Electron Spin Resonance and Antibacterial Activity of the Endemic Species Stachys circinata. Chemistry of Natural Compounds, 2016, 52, 552-554.	0.8	1
60	Sesquiterpenoids Isolated from Two Species of the Asteriscus Alliance. Journal of Natural Products, 2016, 79, 1292-1297.	3.0	15
61	Isolation of Acacetin from Calea urticifolia with Inhibitory Properties against Human Monoamine Oxidase-A and -B. Journal of Natural Products, 2016, 79, 2538-2544.	3.0	32
62	Flavonoids from Perovskia atriplicifolia and Their in Vitro Displacement of the Respective Radioligands for Human Opioid and Cannabinoid Receptors. Journal of Natural Products, 2015, 78, 1461-1465.	3.0	21
63	Secondary Metabolites from Linaria tingitana. Chemistry of Natural Compounds, 2015, 51, 1202-1203.	0.8	6
64	Antinociceptive activity of extracts and secondary metabolites from wild growing and micropropagated plants of Renealmia alpinia. Journal of Ethnopharmacology, 2015, 165, 191-197.	4.1	9
65	In vitro opioid receptor affinity and in vivo behavioral studies of Nelumbo nucifera flower. Journal of Ethnopharmacology, 2015, 174, 57-65.	4.1	17
66	Isolation, chemical profiling, and standardization of betaine, choline, acetylcholine, and 20-hydroxyecdysone from Atriplex species. Planta Medica, 2015, 81, .	1.3	2
67	Secondary metabolites isolated from Salvia bogotensis. Planta Medica, 2015, 81, .	1.3	0
68	In vitro opioid receptor displacement affinity and in vitro behavioral studies by tetrad assay of Nelumbo nucifera flower. Planta Medica, 2015, 81, .	1.3	0
69	Isolation of acacetin from Calea urticifolia as a potent inhibitor of human monoamine oxidase-A and B. Planta Medica, 2015, 81, .	1.3	0
70	Flavanones from Miconia prasina. Phytochemistry Letters, 2014, 7, 130-132.	1.2	16
71	Phenolic compounds, antioxidant activity and ultrastructural study from Protea hybrid â€˜Susaraâ€™. Industrial Crops and Products, 2014, 55, 230-237.	5.2	8
72	Psychopharmacological Indole Alkaloids from Terrestrial Plants. , 2014, , 40-55.		2

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73	Investigation of Nelumbo nucifera flower for human opioid receptor displacement affinity. Planta Medica, 2014, 80, .	1.3	0
74	Cannabinoid and opioid radioligand displacement by secondary metabolites from Banisteriopsis caapi. Planta Medica, 2014, 80, .	1.3	0
75	New strategy toward the diverted synthesis of oxidized abietane diterpenes via oxidation of 6,7-dehydroferruginol methyl ether with dimethyldioxirane. Tetrahedron Letters, 2013, 54, 4479-4482.	1.4	8
76	Fatty Acids with in Vitro Binding Affinity for Human Opioid Receptors from the Fungus Emericella nidulans. Journal of Agricultural and Food Chemistry, 2013, 61, 10476-10480.	5.2	3
77	Neocosmospora sp.-Derived Resorcylic Acid Lactones with in Vitro Binding Affinity for Human Opioid and Cannabinoid Receptors. Journal of Natural Products, 2013, 76, 824-828.	3.0	35
78	A chemotaxonomic study of endemic species of genus Tanacetum from the Canary Islands. Phytochemistry, 2013, 92, 87-104.	2.9	28
79	Secondary Metabolites from Eupenicillium parvum and Their in Vitro Binding Affinity for Human Opioid and Cannabinoid Receptors. Planta Medica, 2013, 79, 1756-1761.	1.3	22
80	A New Flavonoid C-Glycoside from Solanum elaeagnifolium with Hepatoprotective and Curative Activities against Paracetamol- Induced Liver Injury in Mice. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2013, 68, 19-28.	1.4	10
81	Secondary Metabolites from the Fungus Emericella Nidulans. Natural Product Communications, 2013, 8, 1934578X1300800.	0.5	7
82	A New Flavonoid C-Glycoside from Solanum elaeagnifolium with Hepatoprotective and Curative Activities against Paracetamol-Induced Liver Injury in Mice. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2013, 68, 0019.	1.4	6
83	Secondary metabolites from the fungus Emericella nidulans. Natural Product Communications, 2013, 8, 1285-8.	0.5	8
84	Cell death triggered by synthetic flavonoids in human leukemia cells is amplified by the inhibition of extracellular signal-regulated kinase signaling. European Journal of Medicinal Chemistry, 2012, 55, 284-296.	5.5	12
85	Antimicrobial and antiprotozoal activities of secondary metabolites from the fungus Eurotium repens. Medicinal Chemistry Research, 2012, 21, 3080-3086.	2.4	43
86	A new flavonoid and other constituents fromCentaurea nicaeensisAll. var.wallianaM.. Natural Product Research, 2012, 26, 203-208.	1.8	23
87	Ayanin diacetate-induced cell death is amplified by TRAIL in human leukemia cells. Biochemical and Biophysical Research Communications, 2012, 428, 116-120.	2.1	4
88	Secondary Metabolites from Two Species of Tolpis and Their Biological Activities. Molecules, 2012, 17, 12895-12909.	3.8	5
89	Cytotoxic sesquiterpene lactones and other constituents of Centaurea omphalotricha. Journal of the Brazilian Chemical Society, 2012, 23, 977-983.	0.6	20
90	Phytochemical study of Halimium halimifolium. Chemistry of Natural Compounds, 2012, 47, 1023-1024.	0.8	3

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91	Benzyl Derivatives within VitroBinding Affinity for Human Opioid and Cannabinoid Receptors from the FungusEurotium repens. Journal of Natural Products, 2011, 74, 1636-1639.	3.0	41
92	Flavonoid aglycones from Centaurea maroccana. Chemistry of Natural Compounds, 2011, 47, 105-106.	0.8	9
93	Flavonoid aglycones and sterol from Chrysanthemum fontanesii. Chemistry of Natural Compounds, 2011, 47, 107-108.	0.8	5
94	Antifungal Metabolites from the Roots of Diospyros virginiana by Overpressure Layer Chromatography. Chemistry and Biodiversity, 2011, 8, 2331-2340.	2.1	26
95	Secondary Metabolites from Two Species of Pulicaria and Their Cytotoxic Activity. Chemistry and Biodiversity, 2011, 8, 2080-2089.	2.1	9
96	Chemotaxonomy of Gonospermum and related genera. Phytochemistry, 2010, 71, 627-634.	2.9	9
97	Phytochemical Characterization of the Leaves of Mitragyna Speciosa Grown in USA. Natural Product Communications, 2009, 4, 1934578X0900400.	0.5	20
98	Chemical constituents of Tolpis species. FÃ¬toterapÃ¬Ã¢, 2009, 80, 437-441.	2.2	8
99	Four flavonoids from the aerial part of Ononis angustissima species. Chemistry of Natural Compounds, 2009, 45, 874-875.	0.8	6
100	A flavonoid with cytotoxic activity and other constituents from Centaurea africana. Phytochemistry Letters, 2009, 2, 114-118.	1.2	29
101	Phytochemical characterization of the leaves of Mitragyna speciosa grown in U.S.A. Natural Product Communications, 2009, 4, 907-10.	0.5	36
102	A New Ceramide from Suillus luteus and Its Cytotoxic Activity against Human Melanoma Cells. Chemistry and Biodiversity, 2008, 5, 120-125.	2.1	20
103	Synthesis of novel spirostanic saponins and their cytotoxic activity. Bioorganic and Medicinal Chemistry, 2008, 16, 2063-2076.	3.0	12
104	A new guaianolide and other constituents from Achillea ligustica. Biochemical Systematics and Ecology, 2008, 36, 461-466.	1.3	10
105	Induction of G2-M phase arrest and apoptosis by Î±-methylene-Î³-butyrolactones in human leukemia cells. Cancer Letters, 2008, 269, 139-147.	7.2	15
106	Sesquiterpene Lactones from Gonospermum gomerae and G. fruticosum and Their Cytotoxic Activities. Journal of Natural Products, 2008, 71, 2015-2020.	3.0	12
107	Mycophenolic Derivatives from Eupenicillium parvum. Journal of Natural Products, 2008, 71, 1915-1918.	3.0	24
108	The Presence of Capsule inCryptococcus neoformansInfluences the Gene Expression Profile in Dendritic Cells during Interaction with the Fungus. Infection and Immunity, 2008, 76, 1581-1589.	2.2	41

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109	Sesquiterpene lactones and other constituents from Matricaria chamomilla L.. Biochemical Systematics and Ecology, 2007, 35, 533-538.	1.3	12
110	Isolation, Structure Elucidation, Total Synthesis, and Evaluation of New Natural and Synthetic Ceramides on Human SK-MEL-1 Melanoma Cells. Journal of Medicinal Chemistry, 2006, 49, 5830-5839.	6.4	16
111	Revisiting the Reaction Between Diaminomaleonitrile and Aromatic Aldehydes: a Green Chemistry Approach. Molecules, 2006, 11, 858-866.	3.8	18
112	Synthesis andÂantiproliferative activity ofÂnovel sugiol Î²-amino alcohol analogs. European Journal of Medicinal Chemistry, 2006, 41, 1327-1332.	5.5	25
113	A Homo-Isoflavonoid and a Cytotoxic Saponin fromDracaena draco. Chemistry and Biodiversity, 2006, 3, 62-68.	2.1	21
114	Cladocalol, a pentacyclic 28-nor-triterpene from Eucalyptus cladocalyx with cytotoxic activity. Phytochemistry, 2005, 66, 627-632.	2.9	39
115	A new guaianolide and other sesquiterpene lactones from Centaurea acaulis L. (Asteraceae). Biochemical Systematics and Ecology, 2005, 33, 1061-1065.	1.3	20
116	Sesquiterpenoids fromPulicariacanariensisand Their Cytotoxic Activities#. Journal of Natural Products, 2005, 68, 523-531.	3.0	24
117	Flavans of dragonâ€™s blood from Dracaena draco and Dracaena tamaranae. Biochemical Systematics and Ecology, 2004, 32, 179-184.	1.3	31
118	Icogenin, a new cytotoxic steroidal saponin isolated from Dracaena draco. Bioorganic and Medicinal Chemistry, 2004, 12, 4423-4429.	3.0	41
119	Isolation fromEucalyptusoccidentalisand Identification of a New Kaempferol Derivative that Induces Apoptosis in Human Myeloid Leukemia Cells. Journal of Natural Products, 2004, 67, 527-531.	3.0	33
120	Lanostanoid Triterpenes fromLaetiporussulphureusand Apoptosis Induction on HL-60 Human Myeloid Leukemia Cells. Journal of Natural Products, 2004, 67, 2008-2011.	3.0	45
121	Novel Cytostatic Lanostanoid Triterpenes fromGanoderma australe. Helvetica Chimica Acta, 2003, 86, 3088-3095.	1.6	32
122	Steroidal Saponins from the Bark ofDracaenadracoand Their Cytotoxic Activities. Journal of Natural Products, 2003, 66, 793-798.	3.0	55
123	Sesquiterpenoid Derivatives fromGonospermumelegansand Their Cytotoxic Activity for HL-60 Human Promyelocytic Cells#. Journal of Natural Products, 2003, 66, 943-948.	3.0	21
124	Synthesis and Antiproliferative Activity of a New Compound Containing an Î±-Methylene-Î³-Lactone Group. Journal of Medicinal Chemistry, 2002, 45, 2358-2361.	6.4	48
125	New Lanostanoids from the Fungus Ganoderma concinna. Journal of Natural Products, 2002, 65, 417-421.	3.0	57
126	A facile chemoselective deacetylation in the presence of benzoyl and p-bromobenzoyl groups using p-toluenesulfonic acid. Tetrahedron Letters, 2001, 42, 3187-3188.	1.4	33

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127	Phenolic Compounds of Dragon's Blood fromDracaenadraco. Journal of Natural Products, 2000, 63, 1297-1299.	3.0	51
128	Synthesis of 2t-Substituted-1r,3c-BIS(2â€²-Hydroxy-5-Substituted-Benzyl)-Imidazolidines by Reaction of 1,3-BIS(2â€²-Hydroxy-5â€²-Substituted-Benzyl)-Imidazolidines with Aromatic Aldehydes. Synthetic Communications, 2000, 30, 2029-2040.	2.1	4
129	Lanostanoid Triterpenes fromGanodermalucidum. Journal of Natural Products, 1999, 62, 1700-1701.	3.0	46