MarÃ-a Isabel RodrÃ-guez-Franco

List of Publications by Year
in descending order

87 papers	3,582 citations	136950 32 h-index	138484 58 g-index
89 all docs	89 docs citations	89 times ranked	3972 citing authors

#	Article	IF	Citations
1	Novel Tacrineâ^'8-Hydroxyquinoline Hybrids as Multifunctional Agents for the Treatment of Alzheimerâ€™s Disease, with Neuroprotective, Cholinergic, Antioxidant, and Copper-Complexing Properties. Journal of Medicinal Chemistry, 2010, 53, 4927-4937.	6.4	253
2	New Tacrineâ€“4-Oxo-4H-chromene Hybrids as Multifunctional Agents for the Treatment of Alzheimerâ€™s Disease, with Cholinergic, Antioxidant, and Î²-Amyloid-Reducing Properties. Journal of Medicinal Chemistry, 2012, 55, 1303-1317.	6.4	244
3	Novel Tacrineâ^'Melatonin Hybrids as Dual-Acting Drugs for Alzheimer Disease, with Improved Acetylcholinesterase Inhibitory and Antioxidant Properties. Journal of Medicinal Chemistry, 2006, 49, 459-462.	6.4	240
4	Pyrano[3,2-c]quinolineâ^'6-Chlorotacrine Hybrids as a Novel Family of Acetylcholinesterase- and Î²-Amyloid-Directed Anti-Alzheimer Compounds. Journal of Medicinal Chemistry, 2009, 52, 5365-5379.	6.4	164
5	Tacrineâ€“Melatonin Hybrids as Multifunctional Agents for Alzheimer's Disease, with Cholinergic, Antioxidant, and Neuroprotective Properties. ChemMedChem, 2009, 4, 828-841.	3.2	154
6	Tacripyrines, the First Tacrineâ^'Dihydropyridine Hybrids, as Multitarget-Directed Ligands for the Treatment of Alzheimerâ€™s Disease. Journal of Medicinal Chemistry, 2009, 52, 2724-2732.	6.4	134
7	Antiobesity effects of the novel in vivo neutral cannabinoid receptor antagonist 5-(4-chlorophenyl)-1-(2,4-dichlorophenyl)-3-hexyl-1H-1,2,4-triazole â€“ LH 21. Neuropharmacology, 2006, 51, 358-366.	4.1	116
8	The alkaloids of Banisteriopsis caapi, the plant source of the Amazonian hallucinogen Ayahuasca, stimulate adult neurogenesis in vitro. Scientific Reports, 2017, 7, 5309.	3.3	112
9	Neuroprotective and Cholinergic Properties of Multifunctional Glutamic Acid Derivatives for the Treatment of Alzheimerâ€™s Disease. Journal of Medicinal Chemistry, 2009, 52, 7249-7257.	6.4	97
10	Huprineâ€“Tacrine Heterodimers as Anti-Amyloidogenic Compounds of Potential Interest against Alzheimerâ€™s and Prion Diseases. Journal of Medicinal Chemistry, 2012, 55, 661-669.	6.4	90
11	New Melatoninâ€“N,N-Dibenzyl(N-methyl)amine Hybrids: Potent Neurogenic Agents with Antioxidant, Cholinergic, and Neuroprotective Properties as Innovative Drugs for Alzheimerâ€™s Disease. Journal of Medicinal Chemistry, 2014, 57, 3773-3785.	6.4	81
12	N-Benzylpiperidine derivatives of 1,2,4-thiadiazolidinone as new acetylcholinesterase inhibitors. European Journal of Medicinal Chemistry, 2000, 35, 913-922.	5.5	78
13	Synthesis, biological assessment, and molecular modeling of racemic 7-aryl-9,10,11,12-tetrahydro-7H-benzo[7,8]chromeno[2,3-b]quinolin-8-amines as potential drugs for the treatment of Alzheimer's disease. European Journal of Medicinal Chemistry, 2012, 54, 750-763.	5.5	66
14	Discovery of 5-(4-Hydroxyphenyl)-3-oxo-pentanoic Acid [2-(5-Methoxy-1H-indol-3-yl)-ethyl]-amide as a Neuroprotectant for Alzheimerâ€™s Disease by Hybridization of Curcumin and Melatonin. ACS Chemical Neuroscience, 2014, 5, 690-699.	3.5	66
15	Novel Tacrineâ€Grafted Ugi Adducts as Multipotent Antiâ€Alzheimer Drugs: A Synthetic Renewal in Tacrineâ€“Ferulic Acid Hybrids. ChemMedChem, 2015, 10, 523-539.	3.2	62
16	A New Tacrineâ€“Melatonin Hybrid Reduces Amyloid Burden and Behavioral Deficits in a Mouse Model of Alzheimerâ€™s Disease. Neurotoxicity Research, 2010, 17, 421-431.	2.7	59
17	Î±-Aryl-N-alkyl Nitrones, as Potential Agents for Stroke Treatment: Synthesis, Theoretical Calculations, Antioxidant, Anti-inflammatory, Neuroprotective, and Brainâ€“Blood Barrier Permeability Properties. Journal of Medicinal Chemistry, 2012, 55, 153-168.	6.4	59
18	A mild and efficient method for the regioselective iodination of pyrazoles. Tetrahedron Letters, 2001, 42, 863-865.	1.4	58

#	Article	IF	Citations
19	Multi-target-directed ligands for Alzheimer's disease: Discovery of chromone-based monoamine oxidase/cholinesterase inhibitors. European Journal of Medicinal Chemistry, 2018, 158, 781-800.	5.5	58
20	Novel Huprine Derivatives with Inhibitory Activity toward Î²â€Amyloid Aggregation and Formation as Diseaseâ€Modifying Antiâ€Alzheimer Drug Candidates. ChemMedChem, 2010, 5, 1855-1870.	3.2	56
21	N-Methyl-N-((1-methyl-5-(3-(1-(2-methylbenzyl)piperidin-4-yl)propoxy)-1H-indol-2-yl)methyl)prop-2-yn-1-amine, a New Cholinesterase and Monoamine Oxidase Dual Inhibitor. Journal of Medicinal Chemistry, 2014, 57, 10455-10463.	6.4	56
22	Pyridonepezils, new dual AChE inhibitors as potential drugs for the treatment of Alzheimer's disease: Synthesis, biological assessment, and molecular modeling. European Journal of Medicinal Chemistry, 2012, 57, 296-301.	5.5	53
23	Synthesis, Pharmacological Assessment, and Molecular Modeling of Acetylcholinesterase/Butyrylcholinesterase Inhibitors: Effect against Amyloid-Î²-Induced Neurotoxicity. ACS Chemical Neuroscience, 2013, 4, 547-565.	3.5	49
24	Design and synthesis of N-benzylpiperidineâ€“purine derivatives as new dual inhibitors of acetyl- and butyrylcholinesterase. Bioorganic and Medicinal Chemistry, 2005, 13, 6795-6802.	3.0	46
25	Old phenothiazine and dibenzothiadiazepine derivatives for tomorrowâ€™s neuroprotective therapies against neurodegenerative diseases. European Journal of Medicinal Chemistry, 2010, 45, 6152-6158.	5.5	46
26	N-Acylaminophenothiazines: Neuroprotective agents displaying multifunctional activities for a potential treatment of Alzheimerâ€™s disease. European Journal of Medicinal Chemistry, 2011, 46, 2224-2235.	5.5	46
27	New cinnamic â€“ N-benzylpiperidine and cinnamic â€“ N,N-dibenzyl(N-methyl)amine hybrids as Alzheimer-directed multitarget drugs with antioxidant, cholinergic, neuroprotective and neurogenic properties. European Journal of Medicinal Chemistry, 2016, 121, 376-386.	5.5	46
28	Multipotent, Permeable Drug ASS234 Inhibits Aβ Aggregation, Possesses Antioxidant Properties and Protects from Aβ-induced Apoptosis In Vitro. Current Alzheimer Research, 2013, 10, 797-808.	1.4	45
29	Effects of a tacrine-8-hydroxyquinoline hybrid (IQM-622) on AÎ² accumulation and cell death: Involvement in hippocampal neuronal loss in Alzheimer's disease. Neurobiology of Disease, 2012, 46, 682-691.	4.4	42
30	Neurogenic and neuroprotective donepezil-flavonoid hybrids with sigma-1 affinity and inhibition of key enzymes in Alzheimer's disease. European Journal of Medicinal Chemistry, 2018, 156, 534-553.	5.5	38
31	Non-Cholinergic Pharmacotherapy Approaches to the Future Treatment of Alzheimers Disease. Mini-Reviews in Medicinal Chemistry, 2002, 2, 37-50.	2.4	33
32	The Sodium Salt of Diethyl 1H-pyrazole-3,5-dicarboxylate as an Efficient Amphiphilic Receptor for Dopamine and Amphetamines. Crystal Structure and Solution Studies. Journal of the American Chemical Society, 2006, 128, 16458-16459.	13.7	33
33	Selective carriers of ammonium ions. I. Synthesis and template effect of cesium chloride and x-ray structure and ionophoric properties of polyether crowns containing 1-methyl-3,5-bis(methylene)-1H-pyrazole units. Journal of Organic Chemistry, 1989, 54, 1391-1398.	3.2	32
34	Novel N-Acetyl Bioisosteres of Melatonin: Melatonergic Receptor Pharmacology, Physicochemical Studies, and Phenotypic Assessment of Their Neurogenic Potential. Journal of Medicinal Chemistry, 2015, 58, 4998-5014.	6.4	32
35	Synthesis, pharmacological assessment, and molecular modeling ofÂ6-chloro-pyridonepezils: New dual AChE inhibitors as potential drugs for the treatment of Alzheimer's disease. European Journal of Medicinal Chemistry, 2013, 67, 64-74.	5.5	30
36	Recent Advances in Neurogenic Small Molecules as Innovative Treatments for Neurodegenerative Diseases. Molecules, 2016, 21, 1165.	3.8	29

#	Article	IF	Citations
37	Potent and selective MAO-B inhibitory activity: Amino- versus nitro-3-arylcoumarin derivatives. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 642-648.	2.2	28
38	Formation of mono- and di- nuclear complexes of Zn2+ from a 26 membered tetraester crown of 3,5-disubstituted pyrazole able to act as neutral and dianionic ligand. Tetrahedron, 1994, 50, 4765-4774.	1.9	27
39	O-Pyrazolylpropynyl-Hydroxylamines as Versatile Intermediates in the Synthesis of Compounds of Pharmacological Interest. Synthesis, 2001, 2001, 1711-1715.	2.3	27
40	The Melatoninâ€“N,N-Dibenzyl(N-methyl)amine Hybrid ITH91/IQM157 Affords Neuroprotection in an in Vitro Alzheimerâ€™s Model via Hemo-oxygenase-1 Induction. ACS Chemical Neuroscience, 2015, 6, 288-296.	3.5	27
41	New flavonoid â€“ N,N-dibenzyl(N-methyl)amine hybrids: Multi-target-directed agents for AlzheimerÂ´s disease endowed with neurogenic properties. Journal of Enzyme Inhibition and Medicinal Chemistry, 2019, 34, 712-727.	5.2	27
42	Benzothiazepine CGP37157 and Its Isosteric 2â€²-Methyl Analogue Provide Neuroprotection and Block Cell Calcium Entry. ACS Chemical Neuroscience, 2012, 3, 519-529.	3.5	26
43	Novel multitarget ligand ITH33/IQM9.21 provides neuroprotection in inÂvitro and inÂvivo models related to brain ischemia. Neuropharmacology, 2013, 67, 403-411.	4.1	25
44	3â€Amidocoumarins as Potential Multifunctional Agents against Neurodegenerative Diseases. ChemMedChem, 2015, 10, 2071-2079.	3.2	24
45	Neurogenic Potential Assessment and Pharmacological Characterization of 6-Methoxy-1,2,3,4-tetrahydro-Î²-carboline (Pinoline) and Melatoninâ€“Pinoline Hybrids. ACS Chemical Neuroscience, 2015, 6, 800-810.	3.5	23
46	New neurogenic lipoic-based hybrids as innovative Alzheimer's drugs with Ïƒ-1 agonism and Î²-secretase inhibition. Future Medicinal Chemistry, 2016, 8, 1191-1207.	2.3	23
47	Enzymatic and solid-phase synthesis of new donepezil-based L- and d-glutamic acid derivatives and their pharmacological evaluation in models related to Alzheimer's disease and cerebral ischemia. European Journal of Medicinal Chemistry, 2017, 130, 60-72.	5.5	21
48	Synthesis, cytostatic and trichomonacide activities of 3,5-bis-(halomethyl)pyrazoles. European Journal of Medicinal Chemistry, 1987, 22, 445-451.	5.5	20
49	Selective dopamine receptors: Synthesis, complexing properties, and molecular modelling studies of new podands derived from 4-hydroxy-1H-pyrazole. Tetrahedron, 1999, 55, 2763-2772.	1.9	20
50	PP2A Ligand ITH12246 Protects against Memory Impairment and Focal Cerebral Ischemia in Mice. ACS Chemical Neuroscience, 2013, 4, 1267-1277.	3.5	20
51	Regioselective lipase-catalyzed synthesis of l-glutamic Î±-monoamide derivatives. Effect of the N-blocking group. Tetrahedron, 1997, 53, 11745-11752.	1.9	17
52	Resolution of 1-(4-amino-3-chloro-5-cyanophenyl)-2-bromo-1-ethanol by lipase mediated enantioselective alcoholysis, hydrolysis and acylation. Tetrahedron: Asymmetry, 1998, 9, 2229-2232.	1.8	15
53	Multi-target novel neuroprotective compound ITH33/IQM9.21 inhibits calcium entry, calcium signals and exocytosis. Cell Calcium, 2011, 50, 359-369.	2.4	15
54	Dibenzo[1,4,5]thiadiazepine: A hardly-known heterocyclic system with neuroprotective properties of potential usefulness in the treatment of neurodegenerative diseases. European Journal of Medicinal Chemistry, 2014, 81, 350-358.	5.5	15

#	Article	IF	Citations
55	New coumarin-based fluorescent melatonin ligands. Design, synthesis and pharmacological characterization. European Journal of Medicinal Chemistry, 2015, 103, 370-373.	5.5	15
56	The Melatonin Analog IQM316 May Induce Adult Hippocampal Neurogenesis and Preserve Recognition Memories in Mice. Cell Transplantation, 2018, 27, 423-437.	2.5	15
57	Tuning melatonin receptor subtype selectivity in oxadiazolone-based analogues: Discovery of QR2 ligands and NRF2 activators with neurogenic properties. European Journal of Medicinal Chemistry, 2020, 190, 112090.	5.5	15
58	SYNTHESIS OF NEW MACROCYCLIC POLYETHER DI- OR TETRAESTER LIGANDS CONTAINING PYRAZOLE UNITS. Chemistry Letters, 1984, 13, 425-428.	1.3	14
59	2-Oxaadamant-1-yl Ureas as Soluble Epoxide Hydrolase Inhibitors: In Vivo Evaluation in a Murine Model of Acute Pancreatitis. Journal of Medicinal Chemistry, 2020, 63, 9237-9257.	6.4	14
60	Efficient transport of alkali and ammonium ions by proton-ionizable ester crowns containing 1H-pyrazole units. Symmetric complexing behaviour towards europium observed by13C n.m.r. spectroscopy. Journal of the Chemical Society Chemical Communications, 1988, , 1365-1367.	2.0	13
61	First regioselective mucor miehei lipase catalyzed synthesis of diester crowns. New macrocycles containing a 1,3-bis(1H-pyrazol-1-yl)propane unit. Bioorganic and Medicinal Chemistry Letters, 1994, 4, 2523-2526.	2.2	13
62	Synthesis of NewN-(4-Pyridyl)-1-aminopyrazoles and Their Muscarinic and Adrenergic Properties. Archiv Der Pharmazie, 2000, 333, 118-122.	4.1	12
63	Hindered Inversion/Rotation in Diheteroaryl Alkyl Amines with a N-(1-Pyrazolyl) Group: Dynamic NMR and Molecular Modelling Studies. Tetrahedron, 2000, 56, 1739-1743.	1.9	12
64	Synthesis and muscarinic activities of O-[(Benzyl- or benzoyl-pyrazolyl)propynyl]-oximes of N-methylpiperidinone, 3-tropinone, and 3-quinuclidinone. Bioorganic and Medicinal Chemistry, 2003, 11, 2263-2268.	3.0	12
65	ITH12410/SC058: A New Neuroprotective Compound with Potential in the Treatment of Alzheimerâ€™s Disease. ACS Chemical Neuroscience, 2014, 5, 770-775.	3.5	12
66	Synthesis and in vitro study of nitro- and methoxy-2-phenylbenzofurans as human monoamine oxidase inhibitors. Bioorganic Chemistry, 2021, 107, 104616.	4.1	12
67	From the Design to the In Vivo Evaluation of Benzohomoadamantane-Derived Soluble Epoxide Hydrolase Inhibitors for the Treatment of Acute Pancreatitis. Journal of Medicinal Chemistry, 2021, 64, 5429-5446.	6.4	12
68	Resveratrol-Based MTDLs to Stimulate Defensive and Regenerative Pathways and Block Early Events in Neurodegenerative Cascades. Journal of Medicinal Chemistry, 2022, 65, 4727-4751.	6.4	10
69	Regioselective Mucor miehei lipase catalyzed synthesis of podands containing a 1,3-bis(1H-Pyrazol-1-yl)propane unit. Tetrahedron, 1995, 51, 2417-2426.	1.9	9
70	1-Benzyl-4-chloromethylpiperidine: A Building Block in the Synthesis of Compounds of Pharmacological Interest. Synthesis, 2002, 2002, 911-915.	2.3	9
71	Synthesis of New 1-(But-2-ynyl)pyrazoles: Containing a Pyrrolidine or Diethylamine Moiety and Their Muscarinic Properties. Archiv Der Pharmazie, 2002, 335, 339-346.	4.1	9
72	Synthesis and ionophoric properties of a new series of polyester heterocyclophanes of 3,5-disubstituted 1-methylpyrazole and 2,6-bis(methylene)pyridine. Tetrahedron, 1990, 46, 2917-2926.	1.9	8

#	Article	IF	Citations
73	Mucor miehei lipase catalyzed transesterifications on aromatic and heteroaromatic substrates. A general survey. Tetrahedron, 1994, 50, 6999-7008.	1.9	8
74	Selective carriers of norepinephrine and ammonium ions: Ionophoric properties and molecular modelling studies of diester crown compounds containing a 1,3-bis(1H-pyrazol-1-yl)propane unit. Bioorganic and Medicinal Chemistry, 1997, 5, 363-367.	3.0	8
75	Caesium-Assisted Cyclization of Large Polyether Hexa- and Octaester Pyrazolic Crowns. Synthetic Communications, 1987, 17, 105-110.	2.1	7
76	Regioselective Enzyme-catalyzed Synthesis of Pyrazole-containing Podands. Heterocycles, 1993, 36, 2019.	0.7	7
77	Regioselective lipase catalyzed synthesis of diester crowns. New asymmetric macrocycles containing a 1,3-bis(1H-pyrazol-1-yl)propane unit. Tetrahedron, 1997, 53, 11481-11488.	1.9	6
78	Complete assignment of the1H and13C NMR spectra of someN-benzyl-(piperidin or pyrrolidin)-purines. Magnetic Resonance in Chemistry, 2002, 40, 549-550.	1.9	6
79	Optical control of muscular nicotinic channels with azocuroniums, photoswitchable azobenzenes bearing two N-methyl-N-carbocyclic quaternary ammonium groups. European Journal of Medicinal Chemistry, 2020, 200, 112403.	5.5	6
80	Intermediates in the synthesis of dipyrazolic podands and ester crowns via regioselective lipase catalyzed hydrolysis of a tetraester. Tetrahedron, 1997, 53, 2907-2914.	1.9	5
81	Optimization of Bicyclic Lactam Derivatives as NMDA Receptor Antagonists. ChemMedChem, 2017, 12, 537-545.	3.2	5
82	Identification of tetracyclic lactams as NMDA receptor antagonists with potential application in neurological disorders. European Journal of Medicinal Chemistry, 2020, 194, 112242.	5.5	2
83	Synthesis of New N-(4-Pyridyl)-1-aminopyrazoles and Their Muscarinic and Adrenergic Properties. Archiv Der Pharmazie, 2000, 333, 118-122.	4.1	2
84	Antinociceptive and modulatory effect of pathoplastic changes in spinal glia of a TLR4/CD14 blocking molecule in two models of pain in rat. Biomedicine and Pharmacotherapy, 2022, 150, 112986.	5.6	1
85	Synthesis of New 1â€(Butâ€2â€ynyl)pyrazoles Containing a Pyrrolidine or Diethylamine Moiety and Their Muscarinic Properties.. ChemInform, 2002, 33, 115-115.	0.0	0
86	Functional Characterization of Novel Photo-Switchable Neuromuscular Blockers. Biophysical Journal, 2018, 114, 297a.	0.5	0
87	Structure-Activity Relationship of Potent Photo-Switchable Neuromuscular Inhibitors. Biophysical Journal, 2019, 116, 395a.	0.5	0