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	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
2	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
3	Synthesis and in vitro study of nitro- and methoxy-2-phenylbenzofurans as human monoamine oxidase inhibitors. Bioorganic Chemistry, 2021, 107, 104616.	4.1	12
4	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
5	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
6	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
7	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
8	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
9	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
10	Structure-Activity Relationship of Potent Photo-Switchable Neuromuscular Inhibitors. Biophysical Journal, 2019, 116, 395a.	0.5	0
11	Functional Characterization of Novel Photo-Switchable Neuromuscular Blockers. Biophysical Journal, 2018, 114, 297a.	0.5	0
12	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
13	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
14	The Melatonin Analog IQM316 May Induce Adult Hippocampal Neurogenesis and Preserve Recognition Memories in Mice. Cell Transplantation, 2018, 27, 423-437.	2.5	15
15	Optimization of Bicyclic Lactam Derivatives as NMDA Receptor Antagonists. ChemMedChem, 2017, 12, 537-545.	3.2	5
16	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
17	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
18	Recent Advances in Neurogenic Small Molecules as Innovative Treatments for Neurodegenerative Diseases. Molecules, 2016, 21, 1165.	3.8	29

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19	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
20	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
21	3â€Amidocoumarins as Potential Multifunctional Agents against Neurodegenerative Diseases. ChemMedChem, 2015, 10, 2071-2079.	3.2	24
22	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
23	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
24	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
25	New coumarin-based fluorescent melatonin ligands. Design, synthesis and pharmacological characterization. European Journal of Medicinal Chemistry, 2015, 103, 370-373.	5.5	15
26	Novel Tacrineâ€Crafted Ugi Adducts as Multipotent Antiâ€Alzheimer Drugs: A Synthetic Renewal in Tacrineâ€“Ferulic Acid Hybrids. ChemMedChem, 2015, 10, 523-539.	3.2	62
27	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
28	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
29	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
30	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
31	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
32	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
33	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
34	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
35	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
36	PP2A Ligand ITH12246 Protects against Memory Impairment and Focal Cerebral Ischemia in Mice. ACS Chemical Neuroscience, 2013, 4, 1267-1277.	3.5	20

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37	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
38	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
39	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
40	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
41	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
42	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
43	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
44	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
45	Multi-target novel neuroprotective compound ITH33/IQM9.21 inhibits calcium entry, calcium signals and exocytosis. Cell Calcium, 2011, 50, 359-369.	2.4	15
46	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
47	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
48	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
49	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
50	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
51	Tacrineâ€“Melatonin Hybrids as Multifunctional Agents for Alzheimer's Disease, with Cholinergic, Antioxidant, and Neuroprotective Properties. ChemMedChem, 2009, 4, 828-841.	3.2	154
52	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
53	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
54	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

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55	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
56	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
57	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
58	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
59	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
60	1-Benzyl-4-chloromethylpiperidine: A Building Block in the Synthesis of Compounds of Pharmacological Interest. Synthesis, 2002, 2002, 911-915.	2.3	9
61	Non-Cholinergic Pharmacotherapy Approaches to the Future Treatment of Alzheimers Disease. Mini-Reviews in Medicinal Chemistry, 2002, 2, 37-50.	2.4	33
62	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
63	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
64	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
65	A mild and efficient method for the regioselective iodination of pyrazoles. Tetrahedron Letters, 2001, 42, 863-865.	1.4	58
66	O-Pyrazolylpropynyl-Hydroxylamines as Versatile Intermediates in the Synthesis of Compounds of Pharmacological Interest. Synthesis, 2001, 2001, 1711-1715.	2.3	27
67	Synthesis of NewN-(4-Pyridyl)-1-aminopyrazoles and Their Muscarinic and Adrenergic Properties. Archiv Der Pharmazie, 2000, 333, 118-122.	4.1	12
68	N-Benzylpiperidine derivatives of 1,2,4-thiadiazolidinone as new acetylcholinesterase inhibitors. European Journal of Medicinal Chemistry, 2000, 35, 913-922.	5.5	78
69	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
70	Synthesis of New N-(4-Pyridyl)-1-aminopyrazoles and Their Muscarinic and Adrenergic Properties. Archiv Der Pharmazie, 2000, 333, 118-122.	4.1	2
71	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
72	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

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73	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
74	Regioselective lipase-catalyzed synthesis of l-glutamic Î±-monoamide derivatives. Effect of the N-blocking group. Tetrahedron, 1997, 53, 11745-11752.	1.9	17
75	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
76	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
77	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
78	Mucor miehei lipase catalyzed transesterifications on aromatic and heteroaromatic substrates. A general survey. Tetrahedron, 1994, 50, 6999-7008.	1.9	8
79	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
80	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
81	Regioselective Enzyme-catalyzed Synthesis of Pyrazole-containing Podands. Heterocycles, 1993, 36, 2019.	0.7	7
82	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
83	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
84	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
85	Caesium-Assisted Cyclization of Large Polyether Hexa- and Octaester Pyrazolic Crowns. Synthetic Communications, 1987, 17, 105-110.	2.1	7
86	Synthesis, cytostatic and trichomonacide activities of 3,5-bis-(halomethyl)pyrazoles. European Journal of Medicinal Chemistry, 1987, 22, 445-451.	5.5	20
87	SYNTHESIS OF NEW MACROCYCLIC POLYETHER DI- OR TETRAESTER LIGANDS CONTAINING PYRAZOLE UNITS. Chemistry Letters, 1984, 13, 425-428.	1.3	14