Marco Catto

List of Publications by Year
in descending order

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87	3,594	117625 34	138484 58
papers	citations	h-index	g-index

87	87	87	4160
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Coumarin: A Natural, Privileged and Versatile Scaffold for Bioactive Compounds. Molecules, 2018, 23, 250.	3.8	388
2	Coumarins Derivatives as Dual Inhibitors of Acetylcholinesterase and Monoamine Oxidase. Journal of Medicinal Chemistry, 2001, 44, 3195-3198.	6.4	267
3	Inhibition of Monoamine Oxidases by Functionalized Coumarin Derivatives:Â Biological Activities, QSARs, and 3D-QSARs. Journal of Medicinal Chemistry, 2000, 43, 4747-4758.	6.4	248
4	Human recombinant monoamine oxidase B as reliable and efficient enzyme source for inhibitor screening. Bioorganic and Medicinal Chemistry, 2005, 13, 6212-6217.	3.0	121
5	Structural Insights into Monoamine Oxidase Inhibitory Potency and Selectivity of 7-Substituted Coumarins from Ligand- and Target-Based Approaches. Journal of Medicinal Chemistry, 2006, 49, 4912-4925.	6.4	104
6	Discovery of a Novel Class of Potent Coumarin Monoamine Oxidase B Inhibitors: Development and Biopharmacological Profiling of 7-[(3-Chlorobenzyl)oxy]-4-[(methylamino)methyl]-2H-chromen-2-one Methanesulfonate (NW-1772) as a Highly Potent, Selective, Reversible, and Orally Active Monoamine Oxidase B Inhibitor. Journal of Medicinal Chemistry, 2009, 52, 6685-6706.	6.4	100
7	9,10â€Anthraquinone hinders Î²â€aggregation: How does a small molecule interfere with AÎ²â€peptide amyloid fibrillation?. Protein Science, 2009, 18, 792-800.	7.6	91
8	Structure-Based Design and Optimization of Multitarget-Directed 2H-Chromen-2-one Derivatives as Potent Inhibitors of Monoamine Oxidase B and Cholinesterases. Journal of Medicinal Chemistry, 2015, 58, 5561-5578.	6.4	89
9	Inhibition of Monoamine Oxidase-B by Condensed Pyridazines and Pyrimidines:Â Effects of Lipophilicity and Structureâ^'Activity Relationships. Journal of Medicinal Chemistry, 1998, 41, 3812-3820.	6.4	84
10	Design, synthesis and biological evaluation of coumarin alkylamines as potent and selective dual binding site inhibitors of acetylcholinesterase. Bioorganic and Medicinal Chemistry, 2013, 21, 146-152.	3.0	80
11	Impact of Species-Dependent Differences on Screening, Design, and Development of MAO B Inhibitors. Journal of Medicinal Chemistry, 2006, 49, 6264-6272.	6.4	79
12	Design, Synthesis, and Biological Evaluation of Imidazolyl Derivatives of 4,7-Disubstituted Coumarins as Aromatase Inhibitors Selective over 17-Î±-Hydroxylase/C17â^'20 Lyase. Journal of Medicinal Chemistry, 2011, 54, 1613-1625.	6.4	78
13	Exploring Basic Tail Modifications of Coumarin-Based Dual Acetylcholinesterase-Monoamine Oxidase B Inhibitors: Identification of Water-Soluble, Brain-Permeant Neuroprotective Multitarget Agents. Journal of Medicinal Chemistry, 2016, 59, 6791-6806.	6.4	76
14	Potent inhibitors of human LAT1 (SLC7A5) transporter based on dithiazole and dithiazine compounds for development of anticancer drugs. Biochemical Pharmacology, 2017, 143, 39-52.	4.4	72
15	Inactivation of the glutamine/amino acid transporter ASCT2 by 1,2,3-dithiazoles: proteoliposomes as a tool to gain insights in the molecular mechanism of action and of antitumor activity. Toxicology and Applied Pharmacology, 2012, 265, 93-102.	2.8	64
16	Tandem Cleavage of HydrogenatedÎ²- andÎ³-Carbolinesâ^' New Practical Synthesis of Tetrahydroazocino[4,5-b]indoles and Tetrahydroazocino[5,4-b]indoles Showing Acetylcholinesterase Inhibitory Activity. European Journal of Organic Chemistry, 2004, 2004, 3128-3135.	2.4	62
17	Homo- and hetero-bivalent edrophonium-like ammonium salts as highly potent, dual binding site AChE inhibitors. Bioorganic and Medicinal Chemistry, 2008, 16, 7450-7456.	3.0	60
18	Design, Synthesis, and Biological Evaluation of Coumarin Derivatives Tethered to an Edrophoniumâ€like Fragment as Highly Potent and Selective Dual Binding Site Acetylcholinesterase Inhibitors. ChemMedChem, 2010, 5, 1616-1630.	3.2	58

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19	Discovery, Biological Evaluation, and Structureâ€“Activity and â˜Selectivity Relationships of 6â€²-Substituted (E)-2-(Benzofuran-3(2H)-ylidene)-N-methylacetamides, a Novel Class of Potent and Selective Monoamine Oxidase Inhibitors. Journal of Medicinal Chemistry, 2013, 56, 2651-2664.	6.4	56
20	In silico design of novel 2H-chromen-2-one derivatives as potent and selective MAO-B inhibitors. European Journal of Medicinal Chemistry, 2015, 89, 98-105.	5.5	55
21	Lipophilicity Plays a Major Role in Modulating the Inhibition of Monoamine Oxidase B by 7-Substituted Coumarins. Chemistry and Biodiversity, 2006, 3, 134-149.	2.1	52
22	Design, synthesis and biological evaluation of indane-2-arylhydrazinylmethylene-1,3-diones and indol-2-aryldiazenylmethylene-3-ones as Î²-amyloid aggregation inhibitors. European Journal of Medicinal Chemistry, 2010, 45, 1359-1366.	5.5	51
23	Design, biological evaluation and X-ray crystallography of nanomolar multifunctional ligands targeting simultaneously acetylcholinesterase and glycogen synthase kinase-3. European Journal of Medicinal Chemistry, 2019, 168, 58-77.	5.5	51
24	Searching for Multi-Targeting Neurotherapeutics against Alzheimerâ€™s: Discovery of Potent AChE-MAO B Inhibitors through the Decoration of the 2H-Chromen-2-one Structural Motif. Molecules, 2016, 21, 362.	3.8	43
25	Homodimeric Bis-Quaternary Heterocyclic Ammonium Salts as Potent Acetyl- and Butyrylcholinesterase Inhibitors: A Systematic Investigation of the Influence of Linker and Cationic Heads over Affinity and Selectivity. Journal of Medicinal Chemistry, 2011, 54, 2627-2645.	6.4	42
26	Design, synthesis and biological evaluation of 5-hydroxy, 5-substituted-pyrimidine-2,4,6-triones as potent inhibitors of gelatinases MMP-2 and MMP-9. European Journal of Medicinal Chemistry, 2012, 58, 368-376.	5.5	42
27	Fine molecular tuning at position 4 of 2H-chromen-2-one derivatives in the search of potent and selective monoamine oxidase B inhibitors. European Journal of Medicinal Chemistry, 2013, 70, 723-739.	5.5	41
28	Investigating 1,2,3,4,5,6-hexahydroazepino[4,3-b]indole as scaffold of butyrylcholinesterase-selective inhibitors with additional neuroprotective activities for Alzheimer's disease. European Journal of Medicinal Chemistry, 2019, 177, 414-424.	5.5	41
29	Investigating alkyl nitrates as nitric oxide releasing precursors of multitarget acetylcholinesterase-monoamine oxidase B inhibitors. European Journal of Medicinal Chemistry, 2019, 161, 292-309.	5.5	41
30	Synthesis and Biological Properties of Coumarin Derivatives. A Review. ChemistrySelect, 2021, 6, 5848-5870.	1.5	41
31	Multitarget Therapeutic Leads for Alzheimerâ€™s Disease: Quinolizidinyl Derivatives of Biâ€•and Tricyclic Systems as Dual Inhibitors of Cholinesterases and Î²â€Amyloid (AÎ²) Aggregation. ChemMedChem, 2015, 10, 1040-1053.	3.2	40
32	CE can identify small molecules that selectively target soluble oligomers of amyloid Î² protein and display antifibrillogenic activity. Electrophoresis, 2009, 30, 1418-1429.	2.4	39
33	Synthesis and Monoamine Oxidase Inhibitory Activity of New Pyridazine-, Pyrimidine- and 1,2,4-Triazine-Containing Tricyclic Derivatives. Journal of Medicinal Chemistry, 2007, 50, 5364-5371.	6.4	37
34	Novel chemotypes targeting tubulin at the colchicine binding site and unbiasing P-glycoprotein. European Journal of Medicinal Chemistry, 2017, 139, 792-803.	5.5	37
35	Design, synthesis and biological evaluation of benzo[e][1,2,4]triazin-7(1H)-one and [1,2,4]-triazino[5,6,1-jk]carbazol-6-one derivatives as dual inhibitors of beta-amyloid aggregation and acetyl/butyryl cholinesterase. European Journal of Medicinal Chemistry, 2012, 58, 84-97.	5.5	35
36	Mannich base approach to 5-methoxyisatin 3-(4-isopropylphenyl)hydrazone: A water-soluble prodrug for a multitarget inhibition of cholinesterases, beta-amyloid fibrillization and oligomer-induced cytotoxicity. European Journal of Pharmaceutical Sciences, 2017, 109, 381-388.	4.0	33

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37	Ester derivatives of annulated tetrahydroazocines: A new class of selective acetylcholinesterase inhibitors. Bioorganic and Medicinal Chemistry, 2006, 14, 7205-7212.	3.0	30
38	Docking-based classification models for exploratory toxicology studies on high-quality estrogenic experimental data. Future Medicinal Chemistry, 2015, 7, 1921-1936.	2.3	30
39	Quinolino[3,4- b]quinoxalines and pyridazino[4,3- c]quinoline derivatives: Synthesis, inhibition of topoisomerase IIÎ±, G-quadruplex binding and cytotoxic properties. European Journal of Medicinal Chemistry, 2016, 123, 704-717.	5.5	30
40	A rational approach to elucidate human monoamine oxidase molecular selectivity. European Journal of Pharmaceutical Sciences, 2017, 101, 90-99.	4.0	29
41	Discovery of Potent Dual Binding Site Acetylcholinesterase Inhibitors via Homoâ€•and Heterodimerization of Coumarinâ€Based Moieties. ChemMedChem, 2017, 12, 1349-1358.	3.2	28
42	Design, synthesis, and biological evaluation of glycine-based molecular tongs as inhibitors of AÎ²1â€“40 aggregation in vitro. Bioorganic and Medicinal Chemistry, 2008, 16, 4810-4822.	3.0	27
43	Synthesis and biophysical evaluation of arylhydrazono-1H-2-indolinones as Î²-amyloid aggregation inhibitors. European Journal of Medicinal Chemistry, 2011, 46, 275-284.	5.5	27
44	First Selective Dual Inhibitors of Tau Phosphorylation and Beta-Amyloid Aggregation, Two Major Pathogenic Mechanisms in Alzheimerâ€™s Disease. ACS Chemical Neuroscience, 2014, 5, 1198-1202.	3.5	27
45	Natural Scaffolds with Multi-Target Activity for the Potential Treatment of Alzheimerâ€™s Disease. Molecules, 2018, 23, 2182.	3.8	27
46	Structureâ€“property relationship study of the HPLC enantioselective retention of neuroprotective 7â€[(1â€alkylpiperidinâ€3â€yl)methoxy]coumarin derivatives on an amyloseâ€based chiral stationary phase. Journal of Separation Science, 2018, 41, 1376-1384.	2.5	26
47	Mind the Gap! A Journey towards Computational Toxicology. Molecular Informatics, 2016, 35, 294-308.	2.5	25
48	Discovery of new 7-substituted-4-imidazolylmethyl coumarins and 4â€²-substituted-2-imidazolyl acetophenones open analogues as potent and selective inhibitors of steroid-11Î²-hydroxylase. European Journal of Medicinal Chemistry, 2015, 89, 106-114.	5.5	22
49	Insights into Structure-Activity Relationships of 3-Arylhydrazonoindolin-2-One Derivatives for Their Multitarget Activity on Î²-Amyloid Aggregation and Neurotoxicity. Molecules, 2018, 23, 1544.	3.8	22
50	A Prospective Repurposing of Dantrolene as a Multitarget Agent for Alzheimerâ€™s Disease. Molecules, 2019, 24, 4298.	3.8	20
51	Multitarget Biological Profiling of New Naphthoquinone and Anthraquinone-Based Derivatives for the Treatment of Alzheimerâ€™s Disease. ACS Chemical Neuroscience, 2021, 12, 447-461.	3.5	20
52	Evaluation of Waterâ€Soluble Mannich Base Prodrugs of 2,3,4,5â€Tetrahydroazepino[4,3â€b]indolâ€1(6H)â€one as Multitargetâ€Directed Agents for Alzheimer's Disease. ChemMedChem, 2021, 16, 589-598.	3.2	19
53	Solid phase synthesis of a molecular library of pyrimidines, pyrazoles, and isoxazoles with biological potential. Tetrahedron Letters, 2010, 51, 1702-1705.	1.4	18
54	Probing Fluorinated Motifs onto Dual AChE-MAO B Inhibitors: Rational Design, Synthesis, Biological Evaluation, and Early-ADME Studies. Journal of Medicinal Chemistry, 2022, 65, 3962-3977.	6.4	18

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55	3,4-Dihydroquinazoline derivatives inhibit the activities of cholinesterase enzymes. Bioorganic and Medicinal Chemistry Letters, 2017, 27, 1179-1185.	2.2	16
56	Indenocinnoline derivatives as G-quadruplex binders, topoisomerase IIÎ± inhibitors and antiproliferative agents. Bioorganic and Medicinal Chemistry, 2017, 25, 2625-2634.	3.0	15
57	Chasing ChEs-MAO B Multi-Targeting 4-Aminomethyl-7-Benzyloxy-2H-Chromen-2-ones. Molecules, 2019, 24, 4507.	3.8	15
58	Structure-based design of novel donepezil-like hybrids for a multi-target approach to the therapy of Alzheimer's disease. European Journal of Medicinal Chemistry, 2022, 237, 114358.	5.5	14
59	First Synthesis of Racemic Trans Propargylamino-Donepezil, a Pleiotrope Agent Able to Both Inhibit AChE and MAO-B, with Potential Interest against Alzheimerâ€™s Disease. Molecules, 2021, 26, 80.	3.8	13
60	Insights into the Complex Formed by Matrix Metalloproteinase-2 and Alloxan Inhibitors: Molecular Dynamics Simulations and Free Energy Calculations. PLoS ONE, 2011, 6, e25597.	2.5	12
61	Investigation on the influence of (Z)-3-(2-(3-chlorophenyl)hydrazono)-5,6-dihydroxyindolin-2-one (PT2) on Î²-amyloid(1â€“40) aggregation and toxicity. Archives of Biochemistry and Biophysics, 2014, 560, 73-82.	3.0	12
62	The Triazole Ring as a Privileged Scaffold for Putative Antifungals: Synthesis and Evaluation of a Series of New Analogues. ChemMedChem, 2021, 16, 134-144.	3.2	11
63	Dual Reversible Coumarin Inhibitors Mutually Bound to Monoamine Oxidase B and Acetylcholinesterase Crystal Structures. ACS Medicinal Chemistry Letters, 2022, 13, 499-506.	2.8	11
64	Identification of compounds that inhibit growth of 2-amino-1-methyl-6-phenylimidazo(4,5-b)pyridineâ€“resistant cancer cells. Molecular Cancer Therapeutics, 2005, 4, 1026-1030.	4.1	9
65	Pharmacophore Modeling and 3D-QSAR Study of Indole and Isatin Derivatives as Antiamyloidogenic Agents Targeting Alzheimerâ€™s Disease. Molecules, 2020, 25, 5773.	3.8	9
66	First-in-Class Isonipecotamide-Based Thrombin and Cholinesterase Dual Inhibitors with Potential for Alzheimer Disease. Molecules, 2021, 26, 5208.	3.8	9
67	Discovery of a Potent and Selective Heteroâ€Bivalent AChE Inhibitor via Bioisosteric Replacement. Molecular Informatics, 2011, 30, 133-136.	2.5	8
68	Toward a fragment-based approach to MMPs inhibitors: an expedite and efficient synthesis of N-hydroxylactams. Tetrahedron Letters, 2012, 53, 4114-4116.	1.4	8
69	Scouting around 1,2,3,4â€Tetrahydrochromeno[3,2â€•c]pyridinâ€10â€ones for Singleâ€•and Multitarget Ligands Directed towards Relevant Alzheimer's Targets. ChemMedChem, 2020, 15, 1947-1955.	3.2	8
70	Synthesis and Biological Evaluation of Dantroleneâ€Like Hydrazide and Hydrazone Analogues as Multitarget Agents for Neurodegenerative Diseases. ChemMedChem, 2021, 16, 2807-2816.	3.2	8
71	Anticancer potential of novel Î±,Î²-unsaturated Î³-lactam derivatives targeting the PI3K/AKT signaling pathway. Biochemical Pharmacology, 2021, 190, 114659.	4.4	8
72	Away from Flatness: Unprecedented Nitrogen-Bridged Cyclopenta[a]indene Derivatives as Novel Anti-Alzheimer Multitarget Agents. ACS Chemical Neuroscience, 2021, 12, 340-353.	3.5	8

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73	Multitargetâ€Directed Tricyclic Pyridazinones as Gâ€...Proteinâ€Coupled Receptor Ligands and Cholinesterase Inhibitors. ChemMedChem, 2015, 10, 1054-1070.	3.2	7
74	Chiral Separation, X-ray Structure, and Biological Evaluation of a Potent and Reversible Dual Binding Site AChE Inhibitor. ACS Medicinal Chemistry Letters, 2020, 11, 869-876.	2.8	7
75	Homobivalent Lamellarin-Like Schiff Bases: In Vitro Evaluation of Their Cancer Cell Cytotoxicity and Multitargeting Anti-Alzheimerâ€™s Disease Potential. Molecules, 2021, 26, 359.	3.8	7
76	A New Series of Aryloxyacetic Acids Endowed with Multi-Target Activity towards Peroxisome Proliferator-Activated Receptors (PPARs), Fatty Acid Amide Hydrolase (FAAH), and Acetylcholinesterase (AChE). Molecules, 2022, 27, 958.	3.8	7
77	Assessing the Role of a Malonamide Linker in the Design of Potent Dual Inhibitors of Factor Xa and Cholinesterases. Molecules, 2022, 27, 4269.	3.8	7
78	8-Aminomethyl-7-hydroxy-4-methylcoumarins as Multitarget Leads for Alzheimer's Disease. ChemistrySelect, 2016, 1, 2742-2749.	1.5	5
79	Synthesis of 8-phenyl substituted 3-benzazecines with allene moiety, their thermal rearrangement and evaluation as acetylcholinesterase inhibitors. Molecular Diversity, 2022, 26, 1243-1247.	3.9	4
80	Design, synthesis and biological evaluation of light-driven onâ€“off multitarget AChE and MAO-B inhibitors. RSC Medicinal Chemistry, 2022, 13, 873-883.	3.9	4
81	Automated identification of structurally heterogeneous and patentable antiproliferative hits as potential tubulin inhibitors. Chemical Biology and Drug Design, 2018, 92, 1161-1170.	3.2	3
82	Enantiomeric Separation and Molecular Modelling of Bioactive 4-Aryl-3,4-dihydropyrimidin-2(1H)-one Ester Derivatives on Teicoplanin-Based Chiral Stationary Phase. Separations, 2022, 9, 7.	2.4	3
83	Multitarget Drug Design for Neurodegenerative Diseases. Methods in Pharmacology and Toxicology, 2018, , 93-105.	0.2	2
84	Sydnone: Synthesis, Reactivity and Biological Activities. Current Medicinal Chemistry, 2023, 30, 1122-1144.	2.4	1
85	Alloxan Derivatives as Inhibitors of Matrix Metalloproteinase-2: Theoretical Calculations and Experimental Results. Biophysical Journal, 2010, 98, 462a.	0.5	0
86	Repositioning of Dantrolene as a Multitarget Agent for Neurodegenerative Diseases. Proceedings (mdpi), 2019, 22, 7.	0.2	0
87	Design, Synthesis and 5-HT1A Binding Affinity of N-(3-(4-(2-Methoxyphenyl)piperazin-1-yl)propyl)tricyclo[3.3.1.13,7]decan-1-amine and N-(3-(4-(2-Methoxyphenyl)piperazin-1-yl)propyl)-3,5-dimethyl-tricylo[3.3.1.13,7]decan-1-amine. MolBank, 2022, 2022, M1353.	0.5	0