

Maria J Matos

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123
papers

3,239
citations

32
h-index

53
g-index

142
ext. papers

3,862
ext. citations

5.1
avg, IF

5.33
L-index

#	Paper	IF	Citations
123	Chromone: a valid scaffold in medicinal chemistry. <i>Chemical Reviews</i> , 2014 , 114, 4960-92	68.1	443
122	Chemo- and Regioselective Lysine Modification on Native Proteins. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4004-4017	16.4	145
121	Synthesis and study of a series of 3-arylcoumarins as potent and selective monoamine oxidase B inhibitors. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 7127-37	8.3	119
120	A new series of 3-phenylcoumarins as potent and selective MAO-B inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 3268-70	2.9	108
119	Stoichiometric and irreversible cysteine-selective protein modification using carbonylacrylic reagents. <i>Nature Communications</i> , 2016 , 7, 13128	17.4	107
118	Potential pharmacological uses of chalcones: a patent review (from June 2011 - 2014). <i>Expert Opinion on Therapeutic Patents</i> , 2015 , 25, 351-66	6.8	100
117	Synthesis and evaluation of 6-methyl-3-phenylcoumarins as potent and selective MAO-B inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 5053-5	2.9	86
116	3-Substituted coumarins as dual inhibitors of AChE and MAO for the treatment of Alzheimer's disease. <i>MedChemComm</i> , 2012 , 3, 213-218	5	73
115	New halogenated 3-phenylcoumarins as potent and selective MAO-B inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 5157-60	2.9	73
114	Synthesis and electrochemical and biological studies of novel coumarin-chalcone hybrid compounds. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 6136-45	8.3	72
113	Chemoselective Installation of Amine Bonds on Proteins through Aza-Michael Ligation. <i>Journal of the American Chemical Society</i> , 2017 , 139, 18365-18375	16.4	59
112	Focusing on new monoamine oxidase inhibitors: differently substituted coumarins as an interesting scaffold. <i>Current Topics in Medicinal Chemistry</i> , 2012 , 12, 2210-39	3	58
111	Synthesis of coumarin-chalcone hybrids and evaluation of their antioxidant and trypanocidal properties. <i>MedChemComm</i> , 2013 , 4, 993	5	56
110	Looking for new targets: simple coumarins as antibacterial agents. <i>Medicinal Chemistry</i> , 2012 , 8, 1140-5	1.8	54
109	A thioether-directed palladium-cleavable linker for targeted bioorthogonal drug decaging. <i>Chemical Science</i> , 2018 , 9, 4185-4189	9.4	52
108	Novel 2-phenylbenzofuran derivatives as selective butyrylcholinesterase inhibitors for Alzheimer's disease. <i>Scientific Reports</i> , 2018 , 8, 4424	4.9	51
107	New halogenated phenylcoumarins as tyrosinase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 3342-5	2.9	50

106	Synthesis and structure-activity relationships of novel amino/nitro substituted 3-arylcoumarins as antibacterial agents. <i>Molecules</i> , 2013 , 18, 1394-404	4.8	49
105	Tyrosinase inhibitor activity of coumarin-resveratrol hybrids. <i>Molecules</i> , 2009 , 14, 2514-20	4.8	48
104	Coumarins [An Important Class of Phytochemicals 2015 ,		47
103	MAO inhibitory activity modulation: 3-Phenylcoumarins versus 3-benzoylcoumarins. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011 , 21, 4224-7	2.9	46
102	Remarkable antioxidant properties of a series of hydroxy-3-arylcoumarins. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 3900-6	3.4	44
101	8-Substituted 3-arylcoumarins as potent and selective MAO-B inhibitors: synthesis, pharmacological evaluation, and docking studies. <i>ChemMedChem</i> , 2012 , 7, 464-70	3.7	44
100	2-Phenylbenzofuran derivatives as butyrylcholinesterase inhibitors: Synthesis, biological activity and molecular modeling. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 2308-13	2.9	43
99	Chalcone-based derivatives as new scaffolds for hA3 adenosine receptor antagonists. <i>Journal of Pharmacy and Pharmacology</i> , 2013 , 65, 697-703	4.8	40
98	Synthesis of 3-arylcoumarins via Suzuki-cross-coupling reactions of 3-chlorocoumarin. <i>Tetrahedron Letters</i> , 2011 , 52, 1225-1227	2	40
97	Design and discovery of tyrosinase inhibitors based on a coumarin scaffold. <i>RSC Advances</i> , 2015 , 5, 94227-94235	3.9	39
96	Hydroxycoumarins as selective MAO-B inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012 , 22, 258-61	2.9	39
95	New insights into highly potent tyrosinase inhibitors based on 3-heteroarylcoumarins: Anti-melanogenesis and antioxidant activities, and computational molecular modeling studies. <i>Bioorganic and Medicinal Chemistry</i> , 2017 , 25, 1687-1695	3.4	37
94	Novel (coumarin-3-yl)carbamates as selective MAO-B inhibitors: synthesis, in vitro and in vivo assays, theoretical evaluation of ADME properties and docking study. <i>European Journal of Medicinal Chemistry</i> , 2013 , 63, 151-61	6.8	37
93	Antibacterial Activity and Molecular Docking Studies of a Selected Series of Hydroxy-3-arylcoumarins. <i>Molecules</i> , 2019 , 24,	4.8	36
92	Coumarin versus Chromone Monoamine Oxidase B Inhibitors: Quo Vadis?. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 7206-7212	8.3	35
91	Efficient and irreversible antibody-cysteine bioconjugation using carbonylacrylic reagents. <i>Nature Protocols</i> , 2019 , 14, 86-99	18.8	32
90	Trending Topics on Coumarin and Its Derivatives in 2020. <i>Molecules</i> , 2021 , 26,	4.8	31
89	Insight into the functional and structural properties of 3-arylcoumarin as an interesting scaffold in monoamine oxidase B inhibition. <i>ChemMedChem</i> , 2014 , 9, 1488-500	3.7	29

88	Quaternization of Vinyl/Alkynyl Pyridine Enables Ultrafast Cysteine-Selective Protein Modification and Charge Modulation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6640-6644	16.4	28
87	Coumarin derivatives as promising xanthine oxidase inhibitors. <i>International Journal of Biological Macromolecules</i> , 2018 , 120, 1286-1293	7.9	27
86	Monoamine oxidase inhibitors: ten years of docking studies. <i>Current Topics in Medicinal Chemistry</i> , 2012 , 12, 2145-62	3	25
85	Heterocyclic Antioxidants in Nature: Coumarins. <i>Current Organic Chemistry</i> , 2017 , 21, 311-324	1.7	25
84	Synthesis, antioxidant and antichagasic properties of a selected series of hydroxy-3-arylcoumarins. <i>Bioorganic and Medicinal Chemistry</i> , 2017 , 25, 621-632	3.4	24
83	Study of coumarin-resveratrol hybrids as potent antioxidant compounds. <i>Molecules</i> , 2015 , 20, 3290-308	4.8	24
82	In search for new chemical entities as adenosine receptor ligands: development of agents based on benzo-pyrone skeleton. <i>European Journal of Medicinal Chemistry</i> , 2012 , 54, 914-8	6.8	24
81	Design, synthesis and antibacterial study of new potent and selective coumarin-chalcone derivatives for the treatment of tenacibaculosis. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 7045-52	3.4	23
80	Synthesis, pharmacological study and docking calculations of new benzo[f]coumarin derivatives as dual inhibitors of enzymatic systems involved in neurodegenerative diseases. <i>Future Medicinal Chemistry</i> , 2014 , 6, 371-83	4.1	23
79	MAO inhibitory activity of 2-arylbenzofurans versus 3-arylcoumarins: synthesis, in vitro study, and docking calculations. <i>ChemMedChem</i> , 2013 , 8, 956-66	3.7	23
78	Synthesis and evaluation of antioxidant and trypanocidal properties of a selected series of coumarin derivatives. <i>Future Medicinal Chemistry</i> , 2013 , 5, 1911-22	4.1	23
77	PEGylated PLGA Nanoparticles As a Smart Carrier to Increase the Cellular Uptake of a Coumarin-Based Monoamine Oxidase B Inhibitor. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39557-39563	9.5	23
76	Potent and selective MAO-B inhibitory activity: amino- versus nitro-3-arylcoumarin derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015 , 25, 642-8	2.9	21
75	Synthesis and Biological Evaluation of Homogeneous Thiol-Linked NHC*-Au-Albumin and -Trastuzumab Bioconjugates. <i>Chemistry - A European Journal</i> , 2018 , 24, 12250-12253	4.8	21
74	Oxidative Stress and Neurodegenerative Diseases: Looking for a Therapeutic Solution Inspired on Benzopyran Chemistry. <i>Current Topics in Medicinal Chemistry</i> , 2015 , 15, 432-445	3	21
73	Trends in therapeutic drug conjugates for bacterial diseases: a patent review. <i>Expert Opinion on Therapeutic Patents</i> , 2017 , 27, 179-189	6.8	19
72	Bioactive Coumarins from Marine Sources: Origin, Structural Features and Pharmacological Properties. <i>Current Topics in Medicinal Chemistry</i> , 2015 , 15, 1755-66	3	18
71	Novel Coumarin-Quinoline Hybrids: Design of Multitarget Compounds for Alzheimer's Disease. <i>ChemistrySelect</i> , 2019 , 4, 551-558	1.8	18

70	Synthesis and adenosine receptors binding affinities of a series of 3-arylcoumarins. <i>Journal of Pharmacy and Pharmacology</i> , 2013 , 65, 1590-7	4.8	14
69	3-Amidocoumarins as Potential Multifunctional Agents against Neurodegenerative Diseases. <i>ChemMedChem</i> , 2015 , 10, 2071-9	3.7	14
68	Tyrosine-like condensed derivatives as tyrosinase inhibitors. <i>Journal of Pharmacy and Pharmacology</i> , 2012 , 64, 742-6	4.8	12
67	MAO inhibitory activity of bromo-2-phenylbenzofurans: synthesis, study, and docking calculations. <i>MedChemComm</i> , 2017 , 8, 1788-1796	5	12
66	Lipodystrophy defined by Fat Mass Ratio in HIV-infected patients is associated with a high prevalence of glucose disturbances and insulin resistance. <i>BMC Infectious Diseases</i> , 2012 , 12, 180	4	12
65	Targeting adenosine receptors with coumarins: synthesis and binding activities of amide and carbamate derivatives. <i>Journal of Pharmacy and Pharmacology</i> , 2013 , 65, 30-4	4.8	12
64	Monoamino oxidase a: an interesting pharmacological target for the development of multi-target QSAR. <i>Mini-Reviews in Medicinal Chemistry</i> , 2012 , 12, 947-58	3.2	12
63	Interest of antioxidant agents in parasitic diseases. The case study of coumarins. <i>Current Topics in Medicinal Chemistry</i> , 2015 , 15, 850-6	3	12
62	Enhancement of the Anti-Aggregation Activity of a Molecular Chaperone Using a Rationally Designed Post-Translational Modification. <i>ACS Central Science</i> , 2019 , 5, 1417-1424	16.8	11
61	Insight into the interactions between novel coumarin derivatives and human A3 adenosine receptors. <i>ChemMedChem</i> , 2014 , 9, 2245-53	3.7	11
60	Crystal structures of three 6-substituted coumarin-3-carboxamide derivatives. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2016 , 72, 926-32	0.7	11
59	3-Arylcoumarins as highly potent and selective monoamine oxidase B inhibitors: Which chemical features matter?. <i>Bioorganic Chemistry</i> , 2020 , 101, 103964	5.1	10
58	Coumarin-Rasagiline Hybrids as Potent and Selective hMAO-B Inhibitors, Antioxidants, and Neuroprotective Agents. <i>ChemMedChem</i> , 2020 , 15, 532-538	3.7	10
57	Unexpected one-step synthesis of 3-benzoyl-2-phenylbenzofurans under Wittig conditions. <i>Tetrahedron Letters</i> , 2018 , 59, 1711-1714	2	10
56	In silico genotoxicity of coumarins: application of the Phenol-Explorer food database to functional food science. <i>Food and Function</i> , 2017 , 8, 2958-2966	6.1	10
55	Structural alerts for predicting clastogenic activity of pro-oxidant flavonoid compounds: quantitative structure-activity relationship study. <i>Journal of Biomolecular Screening</i> , 2012 , 17, 216-24		10
54	Prevalence of obesity and its relationship to clinical lipodystrophy in HIV-infected adults on anti-retroviral therapy. <i>Journal of Endocrinological Investigation</i> , 2012 , 35, 964-70	5.2	10
53	Combined 3D-QSAR and docking analysis for the design and synthesis of chalcones as potent and selective monoamine oxidase B inhibitors. <i>Bioorganic Chemistry</i> , 2021 , 108, 104689	5.1	10

52	Exploring coumarin potentialities: development of new enzymatic inhibitors based on the 6-methyl-3-carboxamidocoumarin scaffold. <i>RSC Advances</i> , 2016 , 6, 49764-49768	3.7	10
51	Thyroid carcinoma in children and adolescents: a retrospective review. <i>Endocrinologia Y Nutricion: Organo De La Sociedad Espanola De Endocrinologia Y Nutricion</i> , 2012 , 59, 105-8		9
50	Structure-Based Optimization of Coumarin hA Adenosine Receptor Antagonists. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 2577-2587	8.3	9
49	Synthesis, molecular docking and cholinesterase inhibitory activity of hydroxylated 2-phenylbenzofuran derivatives. <i>Bioorganic Chemistry</i> , 2019 , 84, 302-308	5.1	9
48	Discovery and optimization of 3-thiophenylcoumarins as novel agents against Parkinson's disease: Synthesis, in vitro and in vivo studies. <i>Bioorganic Chemistry</i> , 2020 , 101, 103986	5.1	8
47	Looking for new xanthine oxidase inhibitors: 3-Phenylcoumarins versus 2-phenylbenzofurans. <i>International Journal of Biological Macromolecules</i> , 2020 , 162, 774-780	7.9	8
46	Development of novel adenosine receptor ligands based on the 3-amidocoumarin scaffold. <i>Bioorganic Chemistry</i> , 2015 , 61, 1-6	5.1	8
45	Synthesis and pharmacological activities of non-flavonoid chromones: a patent review (from 2005 to 2015). <i>Expert Opinion on Therapeutic Patents</i> , 2015 , 25, 1285-304	6.8	8
44	Quaternization of Vinyl/Alkynyl Pyridine Enables Ultrafast Cysteine-Selective Protein Modification and Charge Modulation. <i>Angewandte Chemie</i> , 2019 , 131, 6712-6716	3.6	7
43	New hydroxylated 3-arylcoumarins, synthesis and electrochemical study. <i>Journal of Electroanalytical Chemistry</i> , 2013 , 689, 243-251	4.1	7
42	Regioselective Synthesis of Bromo-Substituted 3-Arylcoumarins. <i>Synthesis</i> , 2010 , 2010, 2763-2766	2.9	7
41	Coumarins as Promising Scaffold for the Treatment of Age-related Diseases - An Overview of the Last Five Years. <i>Current Topics in Medicinal Chemistry</i> , 2017 , 17, 3173-3189	3	7
40	7-Amidocoumarins as Multitarget Agents against Neurodegenerative Diseases: Substitution Pattern Modulation. <i>ChemMedChem</i> , 2021 , 16, 179-186	3.7	7
39	3-Phenyl-coumarin. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012 , 68, o2645		6
38	Facing Chagas Disease: Trypanocidal Properties of New Coumarin-chalcone Scaffolds. <i>Medicinal Chemistry</i> , 2016 , 12, 537-543	1.8	6
37	Evaluation of Trypanocidal and Antioxidant Activities of a Selected Series of 3-amidocoumarins. <i>Medicinal Chemistry</i> , 2018 , 14, 573-584	1.8	6
36	Theobroma cacao L. compounds: Theoretical study and molecular modeling as inhibitors of main SARS-CoV-2 protease. <i>Biomedicine and Pharmacotherapy</i> , 2021 , 140, 111764	7.5	6
35	Coumarins and adenosine receptors: New perceptions in structure-affinity relationships. <i>Chemical Biology and Drug Design</i> , 2018 , 91, 245-256	2.9	5

34	Design, Synthesis and Docking Calculations of Prenylated Chalcones as Selective Monoamine Oxidase B Inhibitors with Antioxidant Activity. <i>ChemistrySelect</i> , 2019 , 4, 7698-7703	1.8	5
33	Synthesis and electrochemical study of new 3-(hydroxyphenyl)benzo[f]coumarins. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 726, 62-70	4.1	4
32	Improved Synthesis of 3-(Aminoaryl)coumarins. <i>Organic Preparations and Procedures International</i> , 2012 , 44, 522-526	1.1	4
31	Importance of (99mTc-sestaMIBI) thyroid scan in a case of amiodarone-induced thyrotoxicosis. <i>Arquivos Brasileiros De Endocrinologia E Metabologia</i> , 2011 , 55, 486-9		4
30	Looking for New Targets: Simple Coumarins as Antibacterial Agents. <i>Medicinal Chemistry</i> , 2012 , 8, 1140-1145		4
29	In silico clastogenic activity of dietary phenolic acids. <i>LWT - Food Science and Technology</i> , 2015 , 61, 216-223	3.1	3
28	Artificial Intelligence Applied to Flavonoid Data in Food Matrices. <i>Foods</i> , 2019 , 8,	4.9	3
27	Synthesis, NMR characterization, X-ray structural analysis and theoretical calculations of amide and ester derivatives of the coumarin scaffold. <i>Journal of Molecular Structure</i> , 2013 , 1041, 144-150	3.4	3
26	Focusing on New Monoamine Oxidase Inhibitors: Differently Substituted Coumarins As An Interesting Scaffold. <i>Current Topics in Medicinal Chemistry</i> , 2013 , 12, 2210-2239	3	3
25	Lysine Bioconjugation on Native Albumin with a Sulfonyl Acrylate Reagent. <i>Methods in Molecular Biology</i> , 2019 , 2033, 25-37	1.4	3
24	Adenosine Receptor Ligands: Coumarin-Chalcone Hybrids as Modulating Agents on the Activity of ARs. <i>Molecules</i> , 2020 , 25,	4.8	3
23	Evaluation of Antioxidant and Antitrypanosomal Properties of a Selected Series of Synthetic 3-Carboxamidocoumarins. <i>ChemistrySelect</i> , 2016 , 1, 4957-4964	1.8	3
22	Learning from nature: the role of albumin in drug delivery. <i>Future Medicinal Chemistry</i> , 2018 , 10, 983-985	4.1	2
21	Progress in the development of small molecules as new human A3 adenosine receptor ligands based on the 3-thiophenylcoumarin core. <i>MedChemComm</i> , 2016 , 7, 845-852	5	2
20	Comparative study of the 3-phenylcoumarin scaffold: Synthesis, X-ray structural analysis and semiempirical calculations of a selected series of compounds. <i>Journal of Molecular Structure</i> , 2013 , 1050, 185-191	3.4	2
19	Synthesis of Regioisomeric Functionalized Benzodifurans and Angelicins. <i>Helvetica Chimica Acta</i> , 2009 , 92, 1309-1314	2	2
18	6-Methyl-2-oxo-N-(quinolin-6-yl)-2H-chromene-3-carboxamide: crystal structure and Hirshfeld surface analysis. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2016 , 72, 1121-5	0.7	2
17	QSAR and Complex Network Recognition of miRNAs in Stem Cells. <i>Current Bioinformatics</i> , 2013 , 8, 438-451	4.7	2

16	Application of KNN algorithm in determining the total antioxidant capacity of flavonoid-containing foods	2	
15	Targeting β (1,4)-Glucosidase in Diabetes Mellitus Type 2: The Role of New Synthetic Coumarins as Potent Inhibitors. <i>Current Topics in Medicinal Chemistry</i> , 2018 , 18, 2327-2337	3	2
14	Chemical and biological analysis of 4-acyloxy-3-nitrocoumarins as trypanocidal agents. <i>Arabian Journal of Chemistry</i> , 2021 , 14, 102975	5.9	2
13	Multitarget therapeutic approaches for Alzheimer's and Parkinson's diseases: an opportunity or an illusion?. <i>Future Medicinal Chemistry</i> , 2021 , 13, 1301-1309	4.1	2
12	Structural elucidation of a series of 6-methyl-3-carboxamidocoumarins. <i>Magnetic Resonance in Chemistry</i> , 2017 , 55, 373-378	2.1	1
11	Sequential dual site-selective protein labelling enabled by lysine modification. <i>Bioorganic and Medicinal Chemistry</i> , 2020 , 28, 115783	3.4	1
10	A silicon-labelled amino acid suitable for late-stage fluorination and unexpected oxidative cleavage reactions in the preparation of a key intermediate in the Strecker synthesis. <i>Peptide Science</i> , 2018 , 110, e24069	3	1
9	A comprehensive ethnobotanical profile of <i>Ocimum campechianum</i> (Lamiaceae): from traditional medicine to phytochemical and pharmacological evidences. <i>Plant Biosystems</i> , 1-35	1.6	1
8	Synthesis and study of the trypanocidal activity of catechol-containing 3-aryl coumarins, inclusion in β -cyclodextrin complexes and combination with benznidazole. <i>Arabian Journal of Chemistry</i> , 2022 , 15, 103641	5.9	0
7	Computer-aided Design of Coumarins for Neurodegenerative Diseases: Trends of the Last Decade. <i>Current Topics in Medicinal Chemistry</i> , 2021 , 21, 2245-2257	3	0
6	Trends in patented chromones for skin diseases. <i>Pharmaceutical Patent Analyst</i> , 2018 , 7, 107-109	0.6	
5	Facing Novel Challenges in Neurodegenerative Diseases Drug Discovery: From Small Molecules to Targeted Therapies. <i>Proceedings (mdpi)</i> , 2019 , 22, 14	0.3	
4	N-(2-Oxo-2H-chromen-3-yl)cyclo-hexane-carboxamide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012 , 68, o3447-8		
3	Study of a Selected Series of 3- and 4-Arylcoumarins as Antifungal Agents against Dermatophytic Fungi: <i>T. rubrum</i> and <i>T. mentagrophytes</i> . <i>ChemistrySelect</i> , 2021 , 6, 9981-9989	1.8	
2	[(2S,3aR,6aR)-5-Oxohexa-hydro-furo[3,2-b]furan-2-yl]methyl acetate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013 , 69, o772		
1	(1S,2S,5S)-2-Methyl-3-oxo-5-(prop-1-en-2-yl)cyclo-hexane-1-carbo-nitrile. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2013 , 69, o799		