Maria JosÃ© Umbelino Ferreira

List of Publications by Year
in descending order

119 papers	3,391 citations	117625 34 h-index	206112 48 g-index
124 all docs	124 docs citations	124 times ranked	3580 citing authors

#	Article	IF	Citations
1	Momordica balsamina: phytochemistry and pharmacological potential of a gifted species. Phytochemistry Reviews, 2022, 21, 617-646.	6.5	9
2	Alkaloids in Future Drug Discovery. Molecules, 2022, 27, 1347.	3.8	11
3	Research Progress on Natural Diterpenoids in Reversing Multidrug Resistance. Frontiers in Pharmacology, 2022, 13, 815603.	3.5	1
4	Alkylated monoterpene indole alkaloid derivatives as potent P-glycoprotein inhibitors in resistant cancer cells. European Journal of Medicinal Chemistry, 2021, 210, 112985.	5.5	13
5	Natural products in drug discovery and human health. Phytochemistry Reviews, 2021, 20, 1-4.	6.5	8
6	BBIT20 inhibits homologous DNA repair with disruption of the BRCA1â€“BARD1 interaction in breast and ovarian cancer. British Journal of Pharmacology, 2021, 178, 3627-3647.	5.4	13
7	Editorial: â€œNatural Products as a Tool to Design New anti-MDR Lead Molecules.â€• Frontiers in Pharmacology, 2021, 12, 694674.	3.5	0
8	Exploring the Monoterpene Indole Alkaloid Scaffold for Reversing P-Glycoprotein-Mediated Multidrug Resistance in Cancer. Pharmaceuticals, 2021, 14, 862.	3.8	8
9	Pedrolane, a Polycyclic Diterpene Scaffold Containing a Bicyclo[2.2.1]heptane System, from Euphorbia pedroi. Organic Letters, 2021, 23, 274-278.	4.6	16
10	Nitrogen-containing naringenin derivatives for reversing multidrug resistance in cancer. Bioorganic and Medicinal Chemistry, 2020, 28, 115798.	3.0	16
11	Overcoming Multidrug Resistance: Flavonoid and Terpenoid Nitrogen-Containing Derivatives as ABC Transporter Modulators. Molecules, 2020, 25, 3364.	3.8	44
12	Epoxylathyrane Derivatives as MDR-Selective Compounds for Disabling Multidrug Resistance in Cancer. Frontiers in Pharmacology, 2020, 11, 599.	3.5	16
13	Theoretical insights on helix repacking as the origin of P-glycoprotein promiscuity. Scientific Reports, 2020, 10, 9823.	3.3	15
14	Cucurbalsaminones Aâ€“C, Rearranged Triterpenoids with a 5/6/3/6/5-Fused Pentacyclic Carbon Skeleton from Momordica balsamina, as Multidrug Resistance Reversers. Journal of Natural Products, 2019, 82, 2138-2143.	3.0	7
15	Effective MDR reversers through phytochemical study of Euphorbia boetica. Phytochemical Analysis, 2019, 30, 498-511.	2.4	7
16	Monoterpene indole alkaloids as leads for targeting multidrug resistant cancer cells from the African medicinal plant Tabernaemontana elegans. Phytochemistry Reviews, 2019, 18, 971-987.	6.5	6
17	Bioactive compounds from the African medicinal plant Cleistochlamys kirkii as resistance modifiers in bacteria. Phytotherapy Research, 2018, 32, 1039-1046.	5.8	14
18	Optimizing the flavanone core toward new selective nitrogen-containing modulators of ABC transporters. Future Medicinal Chemistry, 2018, 10, 725-741.	2.3	28

#	Article	IF	Citations
19	Monoterpene indole alkaloid azine derivatives as MDR reversal agents. Bioorganic and Medicinal Chemistry, 2018, 26, 421-434.	3.0	25
20	Terpenoids from Euphorbia pedroi as Multidrug-Resistance Reversers. Journal of Natural Products, 2018, 81, 2032-2040.	3.0	37
21	Triterpenoids from Momordica balsamina with a Collateral Sensitivity Effect for Tackling Multidrug Resistance in Cancer Cells. Planta Medica, 2018, 84, 1372-1379.	1.3	23
22	Dregamine and tabernaemontanine derivatives as ABCB1 modulators on resistant cancer cells. European Journal of Medicinal Chemistry, 2017, 128, 247-257.	5.5	30
23	Lathyrol and epoxylathyrol derivatives: Modulation of Cdr1p and Mdr1p drug-efflux transporters of Candida albicans in Saccharomyces cerevisiae model. Bioorganic and Medicinal Chemistry, 2017, 25, 3278-3284.	3.0	12
24	Exploring Jolkinol D Derivatives To Overcome Multidrug Resistance in Cancer. Journal of Natural Products, 2017, 80, 1411-1420.	3.0	24
25	About Pâ€glycoprotein: a new drugable domain is emerging from structural data. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2017, 7, e1316.	14.6	15
26	Structure-function relationships in ABCG2: insights from molecular dynamics simulations and molecular docking studies. Scientific Reports, 2017, 7, 15534.	3.3	48
27	Optimizing the macrocyclic diterpenic core toward the reversal of multidrug resistance in cancer. Future Medicinal Chemistry, 2016, 8, 629-645.	2.3	12
28	Overcoming Multidrug Resistance in Candida albicans: Macrocyclic Diterpenes from Euphorbia Species as Potent Inhibitors of Drug Efflux Pumps. Planta Medica, 2016, 82, 1180-1185.	1.3	18
29	Vobasinylâ€“Iboga Alkaloids from Tabernaemontana elegans: Cell Cycle Arrest and Apoptosis-Inducing Activity in HCT116 Colon Cancer Cells. Journal of Natural Products, 2016, 79, 2624-2634.	3.0	21
30	Triterpenoids from Momordica balsamina: Reversal of ABCB1-mediated multidrug resistance. Bioorganic and Medicinal Chemistry, 2016, 24, 5061-5067.	3.0	27
31	(3â€²R)-hydroxytabernaelegantine C: A bisindole alkaloid with potent apoptosis inducing activity in colon (HCT116, SW620) and liver (HepG2) cancer cells. Journal of Ethnopharmacology, 2016, 194, 236-244.	4.1	18
32	Jatrophane diterpenes and cancer multidrug resistance â€“ ABCB1 efflux modulation and selective cell death induction. Phytomedicine, 2016, 23, 968-978.	5.3	41
33	Cleistochlamys kirkii chemical constituents: Antibacterial activity and synergistic effects against resistant Staphylococcus aureus strains. Journal of Ethnopharmacology, 2016, 178, 180-187.	4.1	24
34	Euphorbia Species-derived Diterpenes and Coumarins as Multidrug Resistance Modulators in Human Colon Carcinoma Cells. Anticancer Research, 2016, 36, 2259-64.	1.1	4
35	12,17-Cyclojatrophane and Jatrophane Constituents of Euphorbia welwitschii. Journal of Natural Products, 2015, 78, 2684-2690.	3.0	16
36	Do adsorbed drugs onto P-glycoprotein influence its efflux capability?. Physical Chemistry Chemical Physics, 2015, 17, 22023-22034.	2.8	14

#	Article	IF	Citations
37	Monoterpene indole alkaloid hydrazone derivatives with apoptosis inducing activity in human HCT116 colon and HepG2 liver carcinoma cells. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 3556-3559.	2.2	24
38	Enhancing activity of antibiotics against Staphylococcus aureus: Zanthoxylum capense constituents and derivatives. Phytomedicine, 2015, 22, 469-476.	5.3	32
39	InÂvivo evaluation of isolated triterpenes and semi-synthetic derivatives as antimalarial agents. European Journal of Medicinal Chemistry, 2015, 102, 398-402.	5.5	19
40	Do Drugs Have Access to the P-Glycoprotein Drug-Binding Pocket through Gates?. Journal of Chemical Theory and Computation, 2015, 11, 4525-4529.	5.3	23
41	Epoxylathyrol Derivatives: Modulation of ABCB1-Mediated Multidrug Resistance in Human Colon Adenocarcinoma and Mouse T-Lymphoma Cells. Journal of Natural Products, 2015, 78, 2215-2228.	3.0	30
42	P-glycoprotein and membrane roles in multidrug resistance. Future Medicinal Chemistry, 2015, 7, 929-946.	2.3	64
43	Reversing cancer multidrug resistance: insights into the efflux by <scp>ABC</scp> transports from in silico studies. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2015, 5, 27-55.	14.6	26
44	Diterpenes from Euphorbia piscatoria: Synergistic Interaction of Lathyranes with Doxorubicin on Resistant Cancer Cells. Planta Medica, 2014, 80, 1739-1745.	1.3	29
45	Euphorbia and Momordica metabolites for overcoming multidrug resistance. Phytochemistry Reviews, 2014, 13, 915-935.	6.5	34
46	Improving the MDR reversal activity of 6,17-epoxylathyrane diterpenes. Bioorganic and Medicinal Chemistry, 2014, 22, 6392-6400.	3.0	34
47	Dual-stage triterpenoids from an African medicinal plant targeting the malaria parasite. Bioorganic and Medicinal Chemistry, 2014, 22, 3887-3890.	3.0	14
48	6-Acetonyldihydrochelerythrine Is a Potent Inducer of Apoptosis in HCT116 and SW620 Colon Cancer Cells. Journal of Natural Products, 2014, 77, 1825-1830.	3.0	12
49	Macrocyclic diterpenes resensitizing multidrug resistant phenotypes. Bioorganic and Medicinal Chemistry, 2014, 22, 3696-3702.	3.0	20
50	Zanthoxylum capense constituents and derivatives: Effects on the activity of antibiotics against Staphylococcus aureus strains. Planta Medica, 2014, 80, .	1.3	0
51	Apoptosis inducing activity of benzophenanthridine-type alkaloids and 2-arylbenzofuran neolignans in HCT116 colon carcinoma cells. Phytomedicine, 2013, 20, 923-929.	5.3	33
52	Monoterpene bisindole alkaloids, from the African medicinal plant Tabernaemontana elegans, induce apoptosis in HCT116 human colon carcinoma cells. Journal of Ethnopharmacology, 2013, 149, 463-470.	4.1	37
53	Anti-inflammatory guaiane-type sesquiterpenes from the fruits of Pittosporum undulatum. Phytochemistry, 2013, 95, 308-314.	2.9	25
54	Zanthoxylum capense constituents with antimycobacterial activity against Mycobacterium tuberculosis in vitro and ex vivo within human macrophages. Journal of Ethnopharmacology, 2013, 146, 417-422.	4.1	53

#	Article	IF	Citations
55	QSAR studies of macrocyclic diterpenes with P-glycoprotein inhibitory activity. European Journal of Pharmaceutical Sciences, 2013, 48, 542-553.	4.0	24
56	Molecular Docking Characterizes Substrate-Binding Sites and Efflux Modulation Mechanisms within P-Glycoprotein.. Journal of Chemical Information and Modeling, 2013, 53, 1747-1760.	5.4	136
57	Enhancing Macrocyclic Diterpenes as Multidrug-Resistance Reversers: Structureâ€“Activity Studies on Jolkinol D Derivatives. Journal of Medicinal Chemistry, 2013, 56, 748-760.	6.4	61
58	Assessing the Stabilization of Pâ€Glycoproteinâ€™s Nucleotideâ€Binding Domains by the Linker, Using Molecular Dynamics. Molecular Informatics, 2013, 32, 529-540.	2.5	17
59	Antibacterial Benzofuran Neolignans and Benzophenanthridine Alkaloids from the Roots ofZanthoxylum capense. Planta Medica, 2012, 78, 148-153.	1.3	30
60	In Vitro Schistosomicidal Activity of Balsaminol F and Karavilagenin C. Planta Medica, 2012, 78, 1912-1917.	1.3	20
61	Antibacterial activity of some African medicinal plants used traditionally against infectious diseases. Pharmaceutical Biology, 2012, 50, 481-489.	2.9	46
62	Colon Adenocarcinoma Multidrug Resistance Reverted by Euphorbia Diterpenes: Structure-Activity Relationships and Pharmacophore Modeling. Anti-Cancer Agents in Medicinal Chemistry, 2012, 12, 1015-1024.	1.7	22
63	Multidrug Resistance Reversal and Apoptosis Induction in Human Colon Cancer Cells by Some Flavonoids Present in Citrus Plants. Journal of Natural Products, 2012, 75, 1896-1902.	3.0	60
64	Jatrophane Diterpenes from Euphorbia mellifera and Their Activity as P-Glycoprotein Modulators on Multidrug-Resistant Mouse Lymphoma and Human Colon Adenocarcinoma Cells. Journal of Natural Products, 2012, 75, 1915-1921.	3.0	39
65	Insights on P-Glycoproteinâ€™s Efflux Mechanism Obtained by Molecular Dynamics Simulations. Journal of Chemical Theory and Computation, 2012, 8, 1853-1864.	5.3	102
66	Dibenzylbutaneâ€and Butyrolactoneâ€type Lignans as Apoptosis Inducers in Human Hepatoma HuHâ€7 Cells. Phytotherapy Research, 2012, 26, 692-696.	5.8	22
67	Inhibition of efflux pumps in meticillin-resistant Staphylococcus aureus and Enterococcus faecalis resistant strains by triterpenoids from Momordica balsamina. International Journal of Antimicrobial Agents, 2011, 37, 70-74.	2.5	61
68	Antimycobacterial evaluation and preliminary phytochemical investigation of selected medicinal plants traditionally used in Mozambique. Journal of Ethnopharmacology, 2011, 137, 114-120.	4.1	71
69	Toward a Better Pharmacophore Description of P-Glycoprotein Modulators, Based on Macrocyclic Diterpenes from Euphorbia Species. Journal of Chemical Information and Modeling, 2011, 51, 1315-1324.	5.4	59
70	Piceatannol, an Antitumor Compound from Euphorbia lagascae Seeds. , 2011, , 453-460.		0
71	Triterpenoids as inhibitors of erythrocytic and liver stages of Plasmodium infections. Bioorganic and Medicinal Chemistry, 2011, 19, 7474-7481.	3.0	33
72	Karavilagenin C derivatives as antimalarials. Bioorganic and Medicinal Chemistry, 2011, 19, 330-338.	3.0	23

#	Article	IF	Citations
73	Isoflavones as Apoptosis Inducers in Human Hepatoma HuHâ€7 Cells. Phytotherapy Research, 2011, 25, 1819-1824.	5.8	56
74	Phytochemical characterization of antimycobacterial crude extracts from medicinal plants traditionally used in Mozambique. Planta Medica, 2011, 77, .	1.3	1
75	Triterpenoids as inhibitors of Plasmodium liver-stage development. Planta Medica, 2011, 77, .	1.3	0
76	Antitumor activity of terpenoids against classical and atypical multidrug resistant cancer cells. Phytomedicine, 2010, 17, 441-448.	5.3	58
77	Toxocara canis: Potential activity of natural products against second-stage larvae in vitro and in vivo. Experimental Parasitology, 2010, 126, 191-197.	1.2	25
78	New antimalarials with a triterpenic scaffold from Momordica balsamina. Bioorganic and Medicinal Chemistry, 2010, 18, 5254-5260.	3.0	47
79	Substrates and modulators of the multidrug transporter Cdr1p of Candida albicans in antifungal extracts of medicinal plants. Mycoses, 2010, 53, 305-310.	4.0	10
80	Phenolic Compounds as Selective Antineoplasic Agents against Multidrug-resistant Human Cancer Cells. Planta Medica, 2010, 76, 975-980.	1.3	26
81	Antimycobacterial activity of traditional medicinal plants used in Mozambique. Planta Medica, 2010, 76, .	1.3	0
82	Antitumor-promoting activity of lignans: inhibition of human cytomegalovirus IE gene expression. Anticancer Research, 2010, 30, 451-4.	1.1	13
83	Stilbenes as multidrug resistance modulators and apoptosis inducers in human adenocarcinoma cells. Anticancer Research, 2010, 30, 4587-93.	1.1	20
84	New potent P-glycoprotein modulators with the cucurbitane scaffold and their synergistic interaction with doxorubicin on resistant cancer cells. Bioorganic and Medicinal Chemistry, 2009, 17, 6942-6951.	3.0	46
85	Induction of apoptosis in HuH-7 cancer cells by monoterpene and Î²-carboline indole alkaloids isolated from the leaves of Tabernaemontana elegans. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 4255-4258.	2.2	53
86	Cucurbitane-Type Triterpenoids from the African Plant Momordica balsamina. Journal of Natural Products, 2009, 72, 2009-2013.	3.0	41
87	Tabernines Aâ€'C, Î²-Carbolines from the Leaves of Tabernaemontana elegans. Journal of Natural Products, 2009, 72, 1147-1150.	3.0	49
88	Evaluation of cucurbitane-type triterpenoids from Momordica balsamina on P-glycoprotein (ABCB1) by flow cytometry and real-time fluorometry. Anticancer Research, 2009, 29, 3989-93.	1.1	5
89	Multidrug resistance modulation and apoptosis induction of cancer cells by terpenic compounds isolated from Euphorbia species. Anticancer Research, 2009, 29, 4467-72.	1.1	20
90	Antileishmanial activity of piceatannol isolated from Euphorbia lagascae seeds. Phytotherapy Research, 2008, 22, 455-457.	5.8	38

#	Article	IF	Citations
91	Synergistic interaction between p-glycoprotein modulators and epirubicine on resistant cancer cells. Bioorganic and Medicinal Chemistry, 2008, 16, 9323-9330.	3.0	30
92	Three New Jatrophane Polyesters and Antiproliferative Constituents from Euphorbia tuckeyana. Planta Medica, 2008, 74, 61-68.	1.3	35
93	Antiplasmodial Activity of Lignans and Extracts fromPycnanthus angolensis. Planta Medica, 2008, 74, 1408-1412.	1.3	50
94	Lagaspholones A and B:Â Two New Jatropholane-Type Diterpenes fromEuphorbialagascae. Organic Letters, 2007, 9, 489-492.	4.6	36
95	Apoptosis induction and modulation of P-glycoprotein mediated multidrug resistance by new macrocyclic lathyrane-type diterpenoids. Bioorganic and Medicinal Chemistry, 2007, 15, 546-554.	3.0	71
96	Antibacterial activity of ergosterol peroxide againstMycobacterium tuberculosis: dependence upon system and medium employed. Phytotherapy Research, 2007, 21, 601-604.	5.8	44
97	Macrocyclic lathyrane diterpenes as antitumor promoters. Anticancer Research, 2007, 27, 201-5.	1.1	14
98	Inhibition of MRP1 transport activity by phenolic and terpenic compounds isolated from Euphorbia species. Anticancer Research, 2007, 27, 4127-33.	1.1	20
99	Euphoportlandols A and B, Tetracylic Diterpene Polyesters fromEuphorbiaportlandicaand Their Anti-MDR Effects in Cancer Cells. Journal of Natural Products, 2006, 69, 950-953.	3.0	40
100	New Macrocyclic Lathyrane Diterpenes, fromEuphorbia lagascae,as Inhibitors of Multidrug Resistance of Tumour Cells. Planta Medica, 2006, 72, 162-168.	1.3	59
101	Inhibition of Multidrug Resistance of Cancer Cells by Natural Diterpenes, Triterpenes and Carotenoids. Current Pharmaceutical Design, 2006, 12, 287-311.	1.9	83
102	Interaction between doxorubicin and the resistance modifier stilbene on multidrug resistant mouse lymphoma and human breast cancer cells. Anticancer Research, 2006, 26, 3541-6.	1.1	29
103	Inhibition of P-glycoprotein transport activity in a resistant mouse lymphoma cell line by diterpenic lactones. Anticancer Research, 2005, 25, 3259-62.	1.1	13
104	The effects of jatrophane derivatives on the reversion of MDR1- and MRP-mediated multidrug resistance in the MDA-MB-231 (HTB-26) cell line. Anticancer Research, 2005, 25, 4173-8.	1.1	17
105	Isoprenoid compounds from Euphorbia portlandica. X-ray structure of lupeportlandol, a new lupane triterpene. Journal of the Brazilian Chemical Society, 2004, 15, 742-747.	0.6	9
106	A New Sesquiterpene-Coumarin Ether and a New Abietane Diterpene and their Effects as Inhibitors of P-Glycoprotein. Planta Medica, 2004, 70, 828-833.	1.3	45
107	Pubescenes, Jatrophane Diterpenes, fromEuphorbia pubescens,with Multidrug Resistance Reversing Activity on Mouse Lymphoma Cells. Planta Medica, 2004, 70, 81-84.	1.3	30
108	Rearranged Jatrophane-Type Diterpenes fromEuphorbiaSpecies. Evaluation of their Effects on the Reversal of Multidrug Resistance. Planta Medica, 2004, 70, 45-49.	1.3	19

#	Article	IF	Citations
109	Euphopubescenol and Euphopubescene, Two New Jatrophane Polyesters, and Lathyrane-type Diterpenes fromEuphorbia pubescens. Planta Medica, 2004, 70, 244-249.	1.3	29
110	Bioactive Diterpenoids, a New Jatrophane and Twoent-Abietanes, and Other Constituents fromEuphorbiapubescens. Journal of Natural Products, 2004, 67, 902-904.	3.0	59
111	Effect of cycloartanes on reversal of multidrug resistance and apoptosis induction on mouse lymphoma cells. Anticancer Research, 2004, 24, 859-64.	1.1	19
112	Evaluation of the Antiviral and Antimicrobial Activities of Triterpenes Isolated fromEuphorbia segetalis. Natural Product Research, 2003, 17, 375-380.	1.8	54
113	Three New Jatrophane-Type Diterpenes fromEuphorbia pubescens. Planta Medica, 2003, 69, 361-366.	1.3	22
114	Cycloartane Triterpenes fromEuphorbia tuckeyana. Natural Product Research, 2001, 15, 363-369.	0.4	10
115	Steroids and a tetracyclic diterpene from Euphorbia boetica. Phytochemistry, 1999, 51, 439-444.	2.9	13
116	A Tetracyclic diterpene and triterpenes from euphorbia segetalis. Phytochemistry, 1998, 49, 179-183.	2.9	18
117	Boeticol, a New Tetracyclic Triterpene from Euphorbia boetica. Journal of Natural Products, 1995, 58, 275-279.	3.0	15
118	Tetra- and Pentacyclic Triterpenes from the Aerial Parts ofEuphorbia piscatoria. Planta Medica, 1994, 60, 581-582.	1.3	9
119	Madeiranes, a New Class of Pentacyclic Triterpenes:D-Friedo-madeir-14-en-3?-ol and -3-one,D:C-Friedomadeir-7-en-3?-ol and -3-one. Helvetica Chimica Acta, 1991, 74, 1329-1338.	1.6	11