Maria José Umbelino Ferreira

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	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
2	Insights on P-Glycoprotein's Efflux Mechanism Obtained by Molecular Dynamics Simulations. Journal of Chemical Theory and Computation, 2012, 8, 1853-1864.	5.3	102
3	Inhibition of Multidrug Resistance of Cancer Cells by Natural Diterpenes, Triterpenes and Carotenoids. Current Pharmaceutical Design, 2006, 12, 287-311.	1.9	83
4	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
5	Antimycobacterial evaluation and preliminary phytochemical investigation of selected medicinal plants traditionally used in Mozambique. Journal of Ethnopharmacology, 2011, 137, 114-120.	4.1	71
6	P-glycoprotein and membrane roles in multidrug resistance. Future Medicinal Chemistry, 2015, 7, 929-946.	2.3	64
7	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
8	Enhancing Macrocyclic Diterpenes as Multidrug-Resistance Reversers: Structure–Activity Studies on Jolkinol D Derivatives. Journal of Medicinal Chemistry, 2013, 56, 748-760.	6.4	61
9	Multidrug Resistance Reversal and Apoptosis Induction in Human Colon Cancer Cells by Some Flavonoids Present in <i>Citrus</i> Plants. Journal of Natural Products, 2012, 75, 1896-1902.	3.0	60
10	Bioactive Diterpenoids, a New Jatrophane and Twoent-Abietanes, and Other Constituents fromEuphorbiapubescens. Journal of Natural Products, 2004, 67, 902-904.	3.0	59
11	New Macrocyclic Lathyrane Diterpenes, fromEuphorbia lagascae,as Inhibitors of Multidrug Resistance of Tumour Cells. Planta Medica, 2006, 72, 162-168.	1.3	59
12	Toward a Better Pharmacophore Description of P-Glycoprotein Modulators, Based on Macrocyclic Diterpenes from <i>Euphorbia</i> Species. Journal of Chemical Information and Modeling, 2011, 51, 1315-1324.	5.4	59
13	Antitumor activity of terpenoids against classical and atypical multidrug resistant cancer cells. Phytomedicine, 2010, 17, 441-448.	5.3	58
14	Isoflavones as Apoptosis Inducers in Human Hepatoma HuHâ€7 Cells. Phytotherapy Research, 2011, 25, 1819-1824.	5.8	56
15	Evaluation of the Antiviral and Antimicrobial Activities of Triterpenes Isolated fromEuphorbia segetalis. Natural Product Research, 2003, 17, 375-380.	1.8	54
16	Induction of apoptosis in HuH-7 cancer cells by monoterpene and Î ² -carboline indole alkaloids isolated from the leaves of Tabernaemontana elegans. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 4255-4258.	2.2	53
17	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
18	Antiplasmodial Activity of Lignans and Extracts from <i>Pycnanthus angolensis</i> . Planta Medica, 2008, 74, 1408-1412.	1.3	50

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19	Tabernines Aâ^'C, β-Carbolines from the Leaves of <i>Tabernaemontana elegans</i> . Journal of Natural Products, 2009, 72, 1147-1150.	3.0	49
20	Structure-function relationships in ABCG2: insights from molecular dynamics simulations and molecular docking studies. Scientific Reports, 2017, 7, 15534.	3.3	48
21	New antimalarials with a triterpenic scaffold from Momordica balsamina. Bioorganic and Medicinal Chemistry, 2010, 18, 5254-5260.	3.0	47
22	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
23	Antibacterial activity of some African medicinal plants used traditionally against infectious diseases. Pharmaceutical Biology, 2012, 50, 481-489.	2.9	46
24	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
25	Antibacterial activity of ergosterol peroxide againstMycobacterium tuberculosis: dependence upon system and medium employed. Phytotherapy Research, 2007, 21, 601-604.	5.8	44
26	Overcoming Multidrug Resistance: Flavonoid and Terpenoid Nitrogen-Containing Derivatives as ABC Transporter Modulators. Molecules, 2020, 25, 3364.	3.8	44
27	Cucurbitane-Type Triterpenoids from the African Plant <i>Momordica balsamina</i> . Journal of Natural Products, 2009, 72, 2009-2013.	3.0	41
28	Jatrophane diterpenes and cancer multidrug resistance – ABCB1 efflux modulation and selective cell death induction. Phytomedicine, 2016, 23, 968-978.	5.3	41
29	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
30	Jatrophane Diterpenes from <i>Euphorbia mellifera</i> 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
31	Antileishmanial activity of piceatannol isolated from <i>Euphorbia lagascae</i> seeds. Phytotherapy Research, 2008, 22, 455-457.	5.8	38
32	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
33	Terpenoids from <i>Euphorbia pedroi</i> as Multidrug-Resistance Reversers. Journal of Natural Products, 2018, 81, 2032-2040.	3.0	37
34	Lagaspholones A and B:Â Two New Jatropholane-Type Diterpenes fromEuphorbialagascae. Organic Letters, 2007, 9, 489-492.	4.6	36
35	Three New Jatrophane Polyesters and Antiproliferative Constituents from <i>Euphorbia tuckeyana</i> . Planta Medica, 2008, 74, 61-68.	1.3	35
36	Euphorbia and Momordica metabolites for overcoming multidrug resistance. Phytochemistry Reviews, 2014, 13, 915-935.	6.5	34

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37	Improving the MDR reversal activity of 6,17-epoxylathyrane diterpenes. Bioorganic and Medicinal Chemistry, 2014, 22, 6392-6400.	3.0	34
38	Triterpenoids as inhibitors of erythrocytic and liver stages of Plasmodium infections. Bioorganic and Medicinal Chemistry, 2011, 19, 7474-7481.	3.0	33
39	Apoptosis inducing activity of benzophenanthridine-type alkaloids and 2-arylbenzofuran neolignans in HCT116 colon carcinoma cells. Phytomedicine, 2013, 20, 923-929.	5.3	33
40	Enhancing activity of antibiotics against Staphylococcus aureus: Zanthoxylum capense constituents and derivatives. Phytomedicine, 2015, 22, 469-476.	5.3	32
41	Pubescenes, Jatrophane Diterpenes, fromEuphorbia pubescens,with Multidrug Resistance Reversing Activity on Mouse Lymphoma Cells. Planta Medica, 2004, 70, 81-84.	1.3	30
42	Synergistic interaction between p-glycoprotein modulators and epirubicine on resistant cancer cells. Bioorganic and Medicinal Chemistry, 2008, 16, 9323-9330.	3.0	30
43	Antibacterial Benzofuran Neolignans and Benzophenanthridine Alkaloids from the Roots of <i>Zanthoxylum capense</i> . Planta Medica, 2012, 78, 148-153.	1.3	30
44	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
45	Dregamine and tabernaemontanine derivatives as ABCB1 modulators on resistant cancer cells. European Journal of Medicinal Chemistry, 2017, 128, 247-257.	5.5	30
46	Euphopubescenol and Euphopubescene, Two New Jatrophane Polyesters, and Lathyrane-type Diterpenes fromEuphorbia pubescens. Planta Medica, 2004, 70, 244-249.	1.3	29
47	Diterpenes from Euphorbia piscatoria: Synergistic Interaction of Lathyranes with Doxorubicin on Resistant Cancer Cells. Planta Medica, 2014, 80, 1739-1745.	1.3	29
48	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
49	Optimizing the flavanone core toward new selective nitrogen-containing modulators of ABC transporters. Future Medicinal Chemistry, 2018, 10, 725-741.	2.3	28
50	Triterpenoids from Momordica balsamina: Reversal of ABCB1-mediated multidrug resistance. Bioorganic and Medicinal Chemistry, 2016, 24, 5061-5067.	3.0	27
51	Phenolic Compounds as Selective Antineoplasic Agents against Multidrug-resistant Human Cancer Cells. Planta Medica, 2010, 76, 975-980.	1.3	26
52	Reversing cancer multidrug resistance: insights into the efflux by <scp>ABC</scp> transports from <i>in silico</i> studies. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2015, 5, 27-55.	14.6	26
53	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
54	Anti-inflammatory guaiane-type sesquiterpenes from the fruits of Pittosporum undulatum. Phytochemistry, 2013, 95, 308-314.	2.9	25

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55	Monoterpene indole alkaloid azine derivatives as MDR reversal agents. Bioorganic and Medicinal Chemistry, 2018, 26, 421-434.	3.0	25
56	QSAR studies of macrocyclic diterpenes with P-glycoprotein inhibitory activity. European Journal of Pharmaceutical Sciences, 2013, 48, 542-553.	4.0	24
57	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
58	Cleistochlamys kirkii chemical constituents: Antibacterial activity and synergistic effects against resistant Staphylococcus aureus strains. Journal of Ethnopharmacology, 2016, 178, 180-187.	4.1	24
59	Exploring Jolkinol D Derivatives To Overcome Multidrug Resistance in Cancer. Journal of Natural Products, 2017, 80, 1411-1420.	3.0	24
60	Karavilagenin C derivatives as antimalarials. Bioorganic and Medicinal Chemistry, 2011, 19, 330-338.	3.0	23
61	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
62	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
63	Three New Jatrophane-Type Diterpenes fromEuphorbia pubescens. Planta Medica, 2003, 69, 361-366.	1.3	22
64	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
65	Dibenzylbutane―and Butyrolactoneâ€ŧype Lignans as Apoptosis Inducers in Human Hepatoma HuHâ€7 Cells. Phytotherapy Research, 2012, 26, 692-696.	5.8	22
66	Vobasinyl–Iboga Alkaloids from <i>Tabernaemontana elegans</i> : Cell Cycle Arrest and Apoptosis-Inducing Activity in HCT116 Colon Cancer Cells. Journal of Natural Products, 2016, 79, 2624-2634.	3.0	21
67	In Vitro Schistosomicidal Activity of Balsaminol F and Karavilagenin C. Planta Medica, 2012, 78, 1912-1917.	1.3	20
68	Macrocyclic diterpenes resensitizing multidrug resistant phenotypes. Bioorganic and Medicinal Chemistry, 2014, 22, 3696-3702.	3.0	20
69	Inhibition of MRP1 transport activity by phenolic and terpenic compounds isolated from Euphorbia species. Anticancer Research, 2007, 27, 4127-33.	1.1	20
70	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
71	Stilbenes as multidrug resistance modulators and apoptosis inducers in human adenocarcinoma cells. Anticancer Research, 2010, 30, 4587-93.	1.1	20
72	Rearranged Jatrophane-Type Diterpenes fromEuphorbiaSpecies. Evaluation of their Effects on the Reversal of Multidrug Resistance. Planta Medica, 2004, 70, 45-49.	1.3	19

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73	InÂvivo evaluation of isolated triterpenes and semi-synthetic derivatives as antimalarial agents. European Journal of Medicinal Chemistry, 2015, 102, 398-402.	5.5	19
74	Effect of cycloartanes on reversal of multidrug resistance and apoptosis induction on mouse lymphoma cells. Anticancer Research, 2004, 24, 859-64.	1.1	19
75	A Tetracyclic diterpene and triterpenes from euphorbia segetalis. Phytochemistry, 1998, 49, 179-183.	2.9	18
76	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
77	(3′R)-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
78	Assessing the Stabilization of Pâ€Glycoprotein's Nucleotideâ€Binding Domains by the Linker, Using Molecular Dynamics. Molecular Informatics, 2013, 32, 529-540.	2.5	17
79	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
80	12,17-Cyclojatrophane and Jatrophane Constituents of <i>Euphorbia welwitschii</i> . Journal of Natural Products, 2015, 78, 2684-2690.	3.0	16
81	Nitrogen-containing naringenin derivatives for reversing multidrug resistance in cancer. Bioorganic and Medicinal Chemistry, 2020, 28, 115798.	3.0	16
82	Epoxylathyrane Derivatives as MDR-Selective Compounds for Disabling Multidrug Resistance in Cancer. Frontiers in Pharmacology, 2020, 11, 599.	3.5	16
83	Pedrolane, a Polycyclic Diterpene Scaffold Containing a Bicyclo[2.2.1]heptane System, from <i>Euphorbia pedroi</i> . Organic Letters, 2021, 23, 274-278.	4.6	16
84	Boeticol, a New Tetracyclic Triterpene from Euphorbia boetica. Journal of Natural Products, 1995, 58, 275-279.	3.0	15
85	About Pâ€glycoprotein: a new drugable domain is emerging from structural data. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2017, 7, e1316.	14.6	15
86	Theoretical insights on helix repacking as the origin of P-glycoprotein promiscuity. Scientific Reports, 2020, 10, 9823.	3.3	15
87	Dual-stage triterpenoids from an African medicinal plant targeting the malaria parasite. Bioorganic and Medicinal Chemistry, 2014, 22, 3887-3890.	3.0	14
88	Do adsorbed drugs onto P-glycoprotein influence its efflux capability?. Physical Chemistry Chemical Physics, 2015, 17, 22023-22034.	2.8	14
89	Bioactive compounds from the African medicinal plant <i>Cleistochlamys kirkii</i> as resistance modifiers in bacteria. Phytotherapy Research, 2018, 32, 1039-1046.	5.8	14
90	Macrocyclic lathyrane diterpenes as antitumor promoters. Anticancer Research, 2007, 27, 201-5.	1.1	14

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91	Steroids and a tetracyclic diterpene from Euphorbia boetica. Phytochemistry, 1999, 51, 439-444.	2.9	13
92	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
93	BBIT20 inhibits homologous DNA repair with disruption of the BRCA1–BARD1 interaction in breast and ovarian cancer. British Journal of Pharmacology, 2021, 178, 3627-3647.	5.4	13
94	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
95	Antitumor-promoting activity of lignans: inhibition of human cytomegalovirus IE gene expression. Anticancer Research, 2010, 30, 451-4.	1.1	13
96	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
97	Optimizing the macrocyclic diterpenic core toward the reversal of multidrug resistance in cancer. Future Medicinal Chemistry, 2016, 8, 629-645.	2.3	12
98	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
99	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
100	Alkaloids in Future Drug Discovery. Molecules, 2022, 27, 1347.	3.8	11
101	Cycloartane Triterpenes from <i>Euphorbia tuckeyana</i> . Natural Product Research, 2001, 15, 363-369.	0.4	10
102	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
103	Tetra- and Pentacyclic Triterpenes from the Aerial Parts ofEuphorbia piscatoria. Planta Medica, 1994, 60, 581-582.	1.3	9
104	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
105	Momordica balsamina: phytochemistry and pharmacological potential of a gifted species. Phytochemistry Reviews, 2022, 21, 617-646.	6.5	9
106	Natural products in drug discovery and human health. Phytochemistry Reviews, 2021, 20, 1-4.	6.5	8
107	Exploring the Monoterpene Indole Alkaloid Scaffold for Reversing P-Glycoprotein-Mediated Multidrug Resistance in Cancer. Pharmaceuticals, 2021, 14, 862.	3.8	8
108	Cucurbalsaminones A–C, Rearranged Triterpenoids with a 5/6/3/6/5-Fused Pentacyclic Carbon Skeleton from <i>Momordica balsamina</i> , as Multidrug Resistance Reversers. Journal of Natural Products, 2019, 82, 2138-2143.	3.0	7

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109	Effective MDR reversers through phytochemical study of Euphorbia boetica. Phytochemical Analysis, 2019, 30, 498-511.	2.4	7
110	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
111	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
112	Euphorbia Species-derived Diterpenes and Coumarins as Multidrug Resistance Modulators in Human Colon Carcinoma Cells. Anticancer Research, 2016, 36, 2259-64.	1.1	4
113	Phytochemical characterization of antimycobacterial crude extracts from medicinal plants traditionally used in Mozambique. Planta Medica, 2011, 77, .	1.3	1
114	Research Progress on Natural Diterpenoids in Reversing Multidrug Resistance. Frontiers in Pharmacology, 2022, 13, 815603.	3.5	1
115	Piceatannol, an Antitumor Compound from Euphorbia lagascae Seeds. , 2011, , 453-460.		0
116	Editorial: "Natural Products as a Tool to Design New anti-MDR Lead Molecules.― Frontiers in Pharmacology, 2021, 12, 694674.	3.5	0
117	Antimycobacterial activity of traditional medicinal plants used in Mozambique. Planta Medica, 2010, 76,	1.3	0
118	Triterpenoids as inhibitors of Plasmodium liver-stage development. Planta Medica, 2011, 77, .	1.3	0
119	Zanthoxylum capense constituents and derivatives: Effects on the activity of antibiotics against Stanbylococcus aureus strains. Planta Medica, 2014, 80	1.3	Ο