

Jos G Barroso

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

100 papers	3,200 citations	27 h-index	53 g-index
101 ext. papers	3,542 ext. citations	2.7 avg, IF	4.61 L-index

#	Paper	IF	Citations
100	Essential Oil Variability of Azorean <i>Cryptomeria japonica</i> Leaves under Different Distillation Methods, Part 1: Color, Yield and Chemical Composition Analysis. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 452	2.6	1
99	Characterization of cuticular compounds of the cerambycid beetles <i>Monochamus galloprovincialis</i> , <i>Arhopalus syriacus</i> , and <i>Pogonocherus perroudi</i> , potential vectors of pinewood nematode. <i>Entomologia Experimentalis Et Applicata</i> , 2021 , 169, 183-194	2.1	0
98	Chemotypes and terpene synthase genes in <i>Thymus</i> genus: State of the art. <i>Industrial Crops and Products</i> , 2018 , 124, 530-547	5.9	20
97	<i>Pinus halepensis</i> , <i>Pinus pinaster</i> , <i>Pinus pinea</i> and <i>Pinus sylvestris</i> Essential Oils Chemotypes and Monoterpene Hydrocarbon Enantiomers, before and after Inoculation with the Pinewood Nematode <i>Bursaphelenchus xylophilus</i> . <i>Chemistry and Biodiversity</i> , 2017 , 14, e1600153	2.5	18
96	Mineral and volatile composition of <i>Quercus</i> mel from Portugal. <i>European Food Research and Technology</i> , 2016 , 242, 171-178	3.4	2
95	Medicinal and Aromatic Plants (MAP): How Do They Adapt to the Environment?. <i>Medicinal and Aromatic Plants of the World</i> , 2015 , 87-112	0.1	2
94	Essential oil from <i>Artemisia herba-alba</i> Asso grown wild in Algeria: Variability assessment and comparison with an updated literature survey. <i>Arabian Journal of Chemistry</i> , 2014 , 7, 243-251	5.9	43
93	Identification and characterization of a second isogene encoding β -terpinene synthase in <i>Thymus caespititius</i> . <i>Journal of Plant Physiology</i> , 2014 , 171, 1017-27	3.6	19
92	Volatile-oils composition, and bioactivity of the essential oils of <i>Plectranthus barbatus</i> , <i>P. neochilus</i> , and <i>P. ornatus</i> grown in Portugal. <i>Chemistry and Biodiversity</i> , 2014 , 11, 719-32	2.5	18
91	Yield and chemical composition of the essential oil of Moroccan chamomile [<i>Cladanthus mixtus</i> (L.) Chevall.] growing wild at different sites in Morocco. <i>Flavour and Fragrance Journal</i> , 2013 , 28, 360-366	2.5	8
90	Glandular trichomes, histochemical localization of secretion, and essential oil composition in <i>Plectranthus grandidentatus</i> growing in Portugal. <i>Flavour and Fragrance Journal</i> , 2013 , 28, 393-401	2.5	9
89	Propolis volatiles characterisation from acaricide-treated and -untreated beehives maintained at Algarve (Portugal). <i>Natural Product Research</i> , 2013 , 27, 743-9	2.3	13
88	Genomic characterization, molecular cloning and expression analysis of two terpene synthases from <i>Thymus caespititius</i> (Lamiaceae). <i>Planta</i> , 2013 , 238, 191-204	4.7	28
87	Chemical Composition and Antioxidant Activity of Essential Oils from <i>Cinnamodendron dinisii</i> Schwacke and <i>Siparuna guianensis</i> Aublet. <i>Antioxidants</i> , 2013 , 2, 384-97	7.1	48
86	Chemical analyses of the essential oils from leaves of <i>Mikania glauca</i> Mart. ex Baker. <i>Journal of Essential Oil Research</i> , 2012 , 24, 599-604	2.3	4
85	Bioassays against pinewood nematode: assessment of a suitable dilution agent and screening for bioactive essential oils. <i>Molecules</i> , 2012 , 17, 12312-29	4.8	23
84	Chemical variability of the essential oils from <i>Rosa canina</i> L. and <i>Rosa sempervirens</i> L. flowers collected at Tunisia. <i>Journal of Essential Oil Research</i> , 2012 , 24, 475-480	2.3	7

83	Antimicrobial activity, cytotoxicity and intracellular growth inhibition of Portuguese Thymus essential oils. <i>Revista Brasileira De Farmacognosia</i> , 2011 , 21, 1012-1024	2	12
82	ISSR molecular characterization and leaf volatiles analysis of Pittosporum undulatum Vent. naturalized in the Azores archipelago (Portugal). <i>Industrial Crops and Products</i> , 2011 , 33, 710-719	5.9	17
81	Salvia officinalis L. essential oils: effect of hydrodistillation time on the chemical composition, antioxidant and antimicrobial activities. <i>Natural Product Research</i> , 2011 , 25, 526-41	2.3	36
80	Volatiles from Thymbra and Thymus species of the Western Mediterranean Basin, Portugal and Macaronesia. <i>Natural Product Communications</i> , 2010 , 5, 1934578X1000500	0.9	5
79	Foeniculum vulgare Essential Oils: Chemical Composition, Antioxidant and Antimicrobial Activities. <i>Natural Product Communications</i> , 2010 , 5, 1934578X1000500	0.9	22
78	Herbicidal activity of volatiles from coriander, winter savory, cotton lavender, and thyme isolated by hydrodistillation and supercritical fluid extraction. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 11007-13	5.7	45
77	Volatile and molecular analysis of Juniperus brevifolia (Seub.) Antoine, an Azorean endemic species. <i>Biochemical Systematics and Ecology</i> , 2010 , 38, 621-629	1.4	4
76	Antioxidant activity of six Portuguese thyme species essential oils. <i>Flavour and Fragrance Journal</i> , 2010 , 25, 150-155	2.5	48
75	Volatiles from Plicanthus hirtellus (F. Weber) R.M. Schust. and Radula boryana (F. Weber) Nees (Hepaticae) grown in Sã Tomã Príncipe Archipelago. <i>Flavour and Fragrance Journal</i> , 2010 , 25, 219-222	2.5	11
74	Composition and antioxidant activity of Thymus vulgaris volatiles: comparison between supercritical fluid extraction and hydrodistillation. <i>Journal of Separation Science</i> , 2010 , 33, 2211-8	3.4	56
73	Nematicidal activity of essential oils and volatiles derived from Portuguese aromatic flora against the pinewood nematode, Bursaphelenchus xylophilus. <i>Journal of Nematology</i> , 2010 , 42, 8-16	1.1	42
72	Volatiles from Thymbra and Thymus species of the western Mediterranean basin, Portugal and Macaronesia. <i>Natural Product Communications</i> , 2010 , 5, 1465-76	0.9	12
71	Menthol and geraniol biotransformation and glycosylation capacity of Levisticum officinale hairy roots. <i>Planta Medica</i> , 2009 , 75, 387-91	3.1	24
70	Volatile and molecular characterization of two Portuguese endemic species: Angelica lignescens and Melanoselinum decipiens. <i>Biochemical Systematics and Ecology</i> , 2009 , 37, 98-105	1.4	11
69	Assessment of the essential oil composition of Tornabenea annua, Tornabenea insularis and Tornabenea tenuissima fruits from Cape Verde Islands. <i>Biochemical Systematics and Ecology</i> , 2009 , 37, 474-478	1.4	4
68	A combined approach using RAPD, ISSR and volatile analysis for the characterization of Thymus caespititius from Flores, Corvo and Graciosa islands (Azores, Portugal). <i>Biochemical Systematics and Ecology</i> , 2009 , 37, 670-677	1.4	28
67	Chaerophyllum azoricum Trel. grown in the Azores archipelago, Portugal: evaluation of the genetic diversity using molecular markers and comparison with volatile oils profiles. <i>Flavour and Fragrance Journal</i> , 2009 , 24, 259-265	2.5	4
66	Liverwort Radula species from Portugal: chemotaxonomical evaluation of volatiles composition. <i>Flavour and Fragrance Journal</i> , 2009 , 24, 316-325	2.5	13

65	Enrichment of the thymoquinone content in volatile oil from <i>Satureja montana</i> using supercritical fluid extraction. <i>Journal of Separation Science</i> , 2009 , 32, 328-34	3.4	38
64	Supercritical fluid extraction of the volatile oil from <i>Santolina chamaecyparissus</i> . <i>Journal of Separation Science</i> , 2009 , 32, 3215-22	3.4	18
63	Biotransformation of menthol and geraniol by hairy root cultures of <i>Anethum graveolens</i> : effect on growth and volatile components. <i>Biotechnology Letters</i> , 2009 , 31, 897-903	3	21
62	Antioxidant activities of the supercritical and conventional <i>Satureja montana</i> extracts. <i>Journal of Food Science</i> , 2009 , 74, C713-7	3.4	30
61	Antioxidant Capacity of the Essential Oils From <i>Lavandula luisieri</i> , <i>L. stoechas</i> subsp. <i>lusitanica</i> , <i>L. stoechas</i> subsp. <i>lusitanica</i> x <i>L. luisieri</i> and <i>L. viridis</i> Grown in Algarve (Portugal). <i>Journal of Essential Oil Research</i> , 2009 , 21, 327-336	2.3	36
60	Volatile compounds from the symbiotic system <i>Azolla filiculoides</i> - <i>Anabaena azollae</i> bacteria. <i>Plant Biosystems</i> , 2009 , 143, 268-274	1.6	6
59	Chemotaxonomy of <i>Hypericum</i> genus from Portugal: Geographical distribution and essential oils composition of <i>Hypericum perforatum</i> , <i>Hypericum humifusum</i> , <i>Hypericum linariifolium</i> and <i>Hypericum pulchrum</i> . <i>Biochemical Systematics and Ecology</i> , 2008 , 36, 40-50	1.4	38
58	Genetic diversity and chemical polymorphism of <i>Thymus caespitius</i> from Pico, Sã Jorge and Terceira islands (Azores). <i>Biochemical Systematics and Ecology</i> , 2008 , 36, 790-797	1.4	43
57	Portuguese <i>Thymbra</i> and <i>Thymus</i> species volatiles: chemical composition and biological activities. <i>Current Pharmaceutical Design</i> , 2008 , 14, 3120-40	3.3	100
56	Nitrogen stress induction on <i>Levisticum officinale</i> hairy roots grown in darkness and under photoperiod conditions: effect on growth and volatile components. <i>Biotechnology Letters</i> , 2008 , 30, 1263-70	3	6
55	Factors affecting secondary metabolite production in plants: volatile components and essential oils. <i>Flavour and Fragrance Journal</i> , 2008 , 23, 213-226	2.5	633
54	Assessment of the Antioxidant Ability of <i>Thymus albicans</i> , <i>T. mastichina</i> , <i>T. camphoratus</i> and <i>T. carnosus</i> Essential Oils by TBARS and Micellar Model systems. <i>Natural Product Communications</i> , 2007 , 2, 1934578X0700200	0.9	11
53	<i>Pittosporum undulatum</i> Vent. grown in Portugal: secretory structures, seasonal variation and enantiomeric composition of its essential oil. <i>Flavour and Fragrance Journal</i> , 2007 , 22, 1-9	2.5	14
52	Composition of the leaf, flower and fruit volatile oils of <i>Pittosporum tobira</i> (Thunb.) W. T. Aiton grown in three locations in Portugal. <i>Flavour and Fragrance Journal</i> , 2007 , 22, 311-316	2.5	7
51	Supercritical carbon dioxide extraction of volatiles from <i>Satureja fruticosa</i> Bguinot. <i>Flavour and Fragrance Journal</i> , 2007 , 22, 438-442	2.5	19
50	Essential oil composition of <i>Pterospartum tridentatum</i> grown in Portugal. <i>Food Chemistry</i> , 2007 , 102, 1083-1088	8.5	15
49	<i>Asterella africana</i> (Mont.) A. Evans grown on Madeira and in mainland Portugal: morphological data and composition of the essential oil. <i>Flavour and Fragrance Journal</i> , 2006 , 21, 534-538	2.5	7
48	Constituents of the essential oil of sea fennel (<i>Crithmum maritimum</i> L.) growing wild in Turkey. <i>Journal of Medicinal Food</i> , 2006 , 9, 128-30	2.8	14

47	Essential Oil Composition and Glandular Trichomes of Marrubium vulgare L. Growing Wild in Algeria. <i>Journal of Essential Oil Research</i> , 2006 , 18, 369-373	2.3	25
46	Chemical Composition, Leaf Trichome Types and Biological Activities of the Essential Oils of Four Related Salvia Species Indigenous to Southern Africa. <i>Journal of Essential Oil Research</i> , 2006 , 18, 72-79	2.3	41
45	Biological Activities and Composition of Salvia muirii L. Bol. Essential Oil. <i>Journal of Essential Oil Research</i> , 2006 , 18, 48-51	2.3	9
44	Simple gas chromatographic method for the stereodifferentiation of methyl nilate, a chiral alpha-methyl-beta-hydroxy ester. <i>Journal of Chromatography A</i> , 2006 , 1108, 225-30	4.5	3
43	Growth and essential oil composition of hairy root cultures of Levisticum officinale W.D.J. Koch (lovage). <i>Plant Science</i> , 2005 , 168, 1089-1096	5.3	49
42	Chemical polymorphism of populations of Thymus caespititius grown on the islands Corvo, Flores, S� Miguel and Terceira (Azores) and on Madeira, assessed by analysis of their essential oils. <i>Plant Science</i> , 2005 , 169, 1112-1117	5.3	23
41	Thymus carnosus Boiss.: Effect of Harvesting Period, Collection Site and Type of Plant Material on Essential Oil Composition. <i>Journal of Essential Oil Research</i> , 2005 , 17, 422-426	2.3	12
40	Antibacterial and antioxidant activities of essential oils isolated from Thymbra capitata L. (Cav.) and Origanum vulgare L. <i>Journal of Agricultural and Food Chemistry</i> , 2005 , 53, 8162-8	5.7	114
39	Origanum glandulosum Desf. grown wild in Algeria: essential oil composition and glycosidic bound volatiles. <i>Flavour and Fragrance Journal</i> , 2005 , 20, 209-212	2.5	22
38	Comparison of the essential oil composition of four Plagiochila species: P. bifaria, P. maderensis, P. retrorsa and P. stricta. <i>Flavour and Fragrance Journal</i> , 2005 , 20, 703-709	2.5	11
37	Micromorphology of trichomes and composition of essential oil of Teucrium capitatum. <i>Flavour and Fragrance Journal</i> , 2004 , 19, 336-340	2.5	37
36	Effect of the volatile constituents isolated from Thymus albicans, Th. mastichina, Th. carnosus and Thymbra capitata in sunflower oil. <i>Molecular Nutrition and Food Research</i> , 2003 , 47, 397-402		23
35	Antimicrobial activity of essential oils isolated from Portuguese endemic species of Thymus. <i>Letters in Applied Microbiology</i> , 2003 , 36, 35-40	2.9	114
34	Chemical polymorphism of the essential oils from populations of Thymus caespititius grown on the islands Pico, Faial and Graciosa (Azores). <i>Phytochemical Analysis</i> , 2003 , 14, 228-31	3.4	13
33	Effect of the essential volatile oils isolated from Thymbra capitata (L.) Cav. on olive and sunflower oils. <i>Grasas Y Aceites</i> , 2003 , 54,	1.3	8
32	Composition of the essential oil of Juniperus cedrus Webb & Berth. grown on Madeira. <i>Flavour and Fragrance Journal</i> , 2002 , 17, 111-114	2.5	23
31	Composition of the essential oil and micromorphology of trichomes of Teucrium salviastrum, an endemic species from Portugal. <i>Flavour and Fragrance Journal</i> , 2002 , 17, 287-291	2.5	27
30	Hairy root cultures of Anethum graveolens (dill): establishment, growth, time-course study of their essential oil and its comparison with parent plant oils. <i>Biotechnology Letters</i> , 2002 , 24, 1031-1036	3	27

29	Composition of the Essential Oils from Populations of <i>Crithmum maritimum</i> L. Grown on Four Azorean Islands 2002 , 135-141		1
28	Essential oils from Azorean <i>Laurus azorica</i> . <i>Phytochemistry</i> , 2001 , 57, 245-50	4	27
27	Essential oil composition of <i>Thymus lotocephallus</i> G. Lpez & R. Morales, collected during flowering and vegetative phases. <i>Flavour and Fragrance Journal</i> , 2001 , 16, 417-421	2.5	9
26	Glandular trichomes and essential oils of <i>Helichrysum stoechas</i> . <i>Israel Journal of Plant Sciences</i> , 2001 , 49, 115-122	0.6	17
25	In vitro evaluation of antioxidant activity of essential oils and their components. <i>Flavour and Fragrance Journal</i> , 2000 , 15, 12-16	2.5	98
24	Essential oils from seven populations of <i>Juniperus brevifolia</i> (Seub.) Antoine, an endemic species of the Azores. <i>Flavour and Fragrance Journal</i> , 2000 , 15, 31-39	2.5	18
23	Chemical polymorphism of the essential oils from populations of <i>Thymus caespititius</i> grown on the island S. Jorge (Azores). <i>Phytochemistry</i> , 2000 , 55, 241-6	4	35
22	Morphological stability of <i>Pimpinella anisum</i> hairy root cultures and time-course study of their essential oils. <i>Biotechnology Letters</i> , 1999 , 21, 859-864	3	13
21	Composition of the essential oil of <i>Hypericum foliosum</i> Aiton from five Azorean islands. <i>Flavour and Fragrance Journal</i> , 1999 , 14, 283-286	2.5	26
20	Composition of the essential oil of <i>Chaerophyllum azoricum</i> Trel., an endemic species of the Azores archipelago. <i>Flavour and Fragrance Journal</i> , 1999 , 14, 287-289	2.5	18
19	Composition of the essential oil of <i>Melanoselinum decipiens</i> (Schrad. & Wendl.) Hoffm., an endemic species of the Madeira and Azores Archipelagos. <i>Flavour and Fragrance Journal</i> , 1998 , 13, 90-92	2.5	2
18	Antimicrobial and antioxidant properties of some commercial essential oils. <i>Flavour and Fragrance Journal</i> , 1998 , 13, 235-244	2.5	368
17	<i>Plectranthus madagascariensis</i> : Morphology of the Glandular Trichomes, Essential Oil Composition, and Its Biological Activity. <i>International Journal of Plant Sciences</i> , 1998 , 159, 31-38	2.6	52
16	Morphology and distribution of trichomes in two endemic <i>Teucrium</i> species of Macaronesia. <i>Acta Botanica Gallica</i> , 1997 , 144, 363-369		5
15	Composition of the Essential Oil of <i>Monizia edulis</i> Lowe, an Endemic Species of the Madeira Archipelago. <i>Flavour and Fragrance Journal</i> , 1997 , 12, 29-31	2.5	3
14	Composition of the essential oil of <i>Teucrium haenseleri</i> Boiss.. <i>Flavour and Fragrance Journal</i> , 1997 , 12, 355-357	2.5	9
13	Composition of the Essential Oil of <i>Teucrium heterophyllum</i> L'HER. Grown on Madeira. <i>Flavour and Fragrance Journal</i> , 1996 , 11, 129-132	2.5	15
12	The Essential Oils of Two Endemic <i>Argyranthemum</i> Species of the Madeira Archipelago: <i>A. pinnatifidum</i> (L. fil.) Lowe spp. <i>pinnatifidum</i> and <i>A. haemotomma</i> (Lowe) Lowe. <i>Flavour and Fragrance Journal</i> , 1996 , 11, 211-214	2.5	2

11	Biotransformation of monoterpenes and sesquiterpenes by cell suspension cultures of <i>Achillea millefolium</i> L. ssp. <i>millefolium</i> . <i>Biotechnology Letters</i> , 1996 , 18, 863-868	3	21
10	Composition of the Essential Oil of <i>Lavandula pinnata</i> L. fil. var. <i>pinnata</i> grown on madeira. <i>Flavour and Fragrance Journal</i> , 1995 , 10, 93-96	2.5	17
9	Composition of the essential oil of <i>Micromeria varia</i> Benth. ssp. <i>thymoides</i> (Sol. ex Lowe) PÉez var. <i>thymoides</i> , an endemic species of the madeira archipelago. <i>Flavour and Fragrance Journal</i> , 1995 , 10, 199-202	2.5	5
8	Accumulation of stress metabolites in cell suspension cultures of <i>Hyoscyamus albus</i> . <i>Phytochemistry</i> , 1994 , 35, 371-375	4	11
7	Composition of the essential oil of <i>artemisia argentea</i> L'HÉ, an endemic species of the madeira archipelago. <i>Flavour and Fragrance Journal</i> , 1994 , 9, 229-232	2.5	10
6	The essential oils of two endemic Portuguese thyme species: <i>Thymus capitellatus</i> Hoffmanns. & Link and <i>T. lotocephalus</i> G. LÉez & R. Morales. <i>Flavour and Fragrance Journal</i> , 1993 , 8, 53-57	2.5	11
5	The essential oils of two endemic <i>Teucrium</i> species from Madeira: <i>T. abutiloides</i> L'HÉ and <i>T. betonicum</i> L'HÉ. <i>Flavour and Fragrance Journal</i> , 1993 , 8, 277-280	2.5	13
4	Composition of the Essential Oils from Two Populations of <i>Achillea millefolium</i> L. ssp. <i>millefolium</i> . <i>Journal of Chromatographic Science</i> , 1992 , 30, 392-395	1.4	20
3	Seasonal Variation in the Composition of the Essential Oil of <i>Crithmum maritimum</i> L.. <i>Flavour and Fragrance Journal</i> , 1992 , 7, 147-150	2.5	24
2	Composition of the Essential Oils from Leaves and Flowers of <i>Achillea millefolium</i> L. ssp. <i>millefolium</i> . <i>Flavour and Fragrance Journal</i> , 1992 , 7, 219-222	2.5	33
1	Analysis of the Essential Oil of <i>Crithmum maritimum</i> L.. <i>Journal of Essential Oil Research</i> , 1991 , 3, 313-316.	6.3	21