# Jos G Barroso

## List of Publications by Citations



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| 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 | Factors affecting secondary metabolite production in plants: volatile components and essential oils. *Flavour and Fragrance Journal*, **2008**, 23, 213-226 | 2.5 | 633 |
| 99 | Antimicrobial and antioxidant properties of some commercial essential oils. *Flavour and Fragrance Journal*, **1998**, 13, 235-244 | 2.5 | 368 |
| 98 | Antibacterial and antioxidant activities of essential oils isolated from Thymbra capitata L. (Cav.) andOriganum vulgare L. *Journal of Agricultural and Food Chemistry*, **2005**, 53, 8162-8 | 5.7 | 114 |
| 97 | Antimicrobial activity of essential oils isolated from Portuguese endemic species of Thymus. *Letters in Applied Microbiology*, **2003**, 36, 35-40 | 2.9 | 114 |
| 96 | Portuguese Thymbra and Thymus species volatiles: chemical composition and biological activities. *Current Pharmaceutical Design*, **2008**, 14, 3120-40 | 3.3 | 100 |
| 95 | In vitro evaluation of antioxidant activity of essential oils and their components. *Flavour and Fragrance Journal*, **2000**, 15, 12-16 | 2.5 | 98 |
| 94 | Composition and antioxidant activity of Thymus vulgaris volatiles: comparison between supercritical fluid extraction and hydrodistillation. *Journal of Separation Science*, **2010**, 33, 2211-8 | 3.4 | 56 |
| 93 | Plectranthus madagascariensis: Morphology of the Glandular Trichomes, Essential Oil Composition, and Its Biological Activity. *International Journal of Plant Sciences*, **1998**, 159, 31-38 | 2.6 | 52 |
| 92 | Growth and essential oil composition of hairy root cultures of Levisticum officinale W.D.J. Koch (lovage). *Plant Science*, **2005**, 168, 1089-1096 | 5.3 | 49 |
| 91 | Chemical Composition and Antioxidant Activity of Essential Oils from Cinnamodendron dinisii Schwacke and Siparuna guianensis Aublet. *Antioxidants*, **2013**, 2, 384-97 | 7.1 | 48 |
| 90 | Antioxidant activity of six Portuguese thyme species essential oils. *Flavour and Fragrance Journal*, **2010**, 25, 150-155 | 2.5 | 48 |
| 89 | Herbicidal activity of volatiles from coriander, winter savory, cotton lavender, and thyme isolated by hydrodistillation and supercritical fluid extraction. *Journal of Agricultural and Food Chemistry*, **2010**, 58, 11007-13 | 5.7 | 45 |
| 88 | Essential oil from Artemisia herba-alba Asso grown wild in Algeria: Variability assessment and comparison with an updated literature survey. *Arabian Journal of Chemistry*, **2014**, 7, 243-251 | 5.9 | 43 |
| 87 | Genetic diversity and chemical polymorphism of Thymus caespititius from Pico, São Jorge and Terceira islands (Azores). *Biochemical Systematics and Ecology*, **2008**, 36, 790-797 | 1.4 | 43 |
| 86 | Nematicidal activity of essential oils and volatiles derived from Portuguese aromatic flora against the pinewood nematode, Bursaphelenchus xylophilus. *Journal of Nematology*, **2010**, 42, 8-16 | 1.1 | 42 |
| 85 | Chemical Composition, Leaf Trichome Types and Biological Activities of the Essential Oils of Four Related Salvia Species Indigenous to Southern Africa. *Journal of Essential Oil Research*, **2006**, 18, 72-79 | 2.3 | 41 |
| 84 | Enrichment of the thymoquinone content in volatile oil from Satureja montana using supercritical fluid extraction. *Journal of Separation Science*, **2009**, 32, 328-34 | 3.4 | 38 |

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| 83 | Chemotaxonomy of Hypericum genus from Portugal: Geographical distribution and essential oils composition of Hypericum perfoliatum, Hypericum humifusum, Hypericum linarifolium and Hypericum pulchrum. *Biochemical Systematics and Ecology*, **2008**, 36, 40-50 | 1.4 | 38 |
| 82 | Micromorphology of trichomes and composition of essential oil of Teucrium capitatum. *Flavour and Fragrance Journal*, **2004**, 19, 336-340 | 2.5 | 37 |
| 81 | Salvia officinalis L. essential oils: effect of hydrodistillation time on the chemical composition, antioxidant and antimicrobial activities. *Natural Product Research*, **2011**, 25, 526-41 | 2.3 | 36 |
| 80 | Antioxidant Capacity of the Essential Oils From Lavandula luisieri, L. stoechas subsp. lusitanica, L. stoechas subsp. lusitanica x L. luisieri and L. viridis Grown in Algarve (Portugal). *Journal of Essential Oil Research*, **2009**, 21, 327-336 | 2.3 | 36 |
| 79 | Chemical polymorphism of the essential oils from populations of Thymus caespititius grown on the island S. Jorge (Azores). *Phytochemistry*, **2000**, 55, 241-6 | 4 | 35 |
| 78 | Composition of the Essential Oils from Leaves and Flowers of Achillea millefolium L. ssp. millefolium. *Flavour and Fragrance Journal*, **1992**, 7, 219-222 | 2.5 | 33 |
| 77 | Antioxidant activities of the supercritical and conventional Satureja montana extracts. *Journal of Food Science*, **2009**, 74, C713-7 | 3.4 | 30 |
| 76 | Genomic characterization, molecular cloning and expression analysis of two terpene synthases from Thymus caespititius (Lamiaceae). *Planta*, **2013**, 238, 191-204 | 4.7 | 28 |
| 75 | A combined approach using RAPD, ISSR and volatile analysis for the characterization of Thymus caespititius from Flores, Corvo and Graciosa islands (Azores, Portugal). *Biochemical Systematics and Ecology*, **2009**, 37, 670-677 | 1.4 | 28 |
| 74 | Composition of the essential oil and micromorphology of trichomes of Teucrium salviastrum, an endemic species from Portugal. *Flavour and Fragrance Journal*, **2002**, 17, 287-291 | 2.5 | 27 |
| 73 | Hairy root cultures of Anethum graveolens (dill): establishment, growth, time-course study of their essential oil and its comparison with parent plant oils. *Biotechnology Letters*, **2002**, 24, 1031-1036 | 3 | 27 |
| 72 | Essential oils from Azorean Laurus azorica. *Phytochemistry*, **2001**, 57, 245-50 | 4 | 27 |
| 71 | Composition of the essential oil of Hypericum foliosum Aiton from five Azorean islands. *Flavour and Fragrance Journal*, **1999**, 14, 283-286 | 2.5 | 26 |
| 70 | Essential Oil Composition and Glandular Trichomes of Marrubium vulgare L. Growing Wild in Algeria. *Journal of Essential Oil Research*, **2006**, 18, 369-373 | 2.3 | 25 |
| 69 | Menthol and geraniol biotransformation and glycosylation capacity of Levisticum officinale hairy roots. *Planta Medica*, **2009**, 75, 387-91 | 3.1 | 24 |
| 68 | Seasonal Variation in the Composition of the Essential Oil of Crithmum maritimum L.. *Flavour and Fragrance Journal*, **1992**, 7, 147-150 | 2.5 | 24 |
| 67 | Bioassays against pinewood nematode: assessment of a suitable dilution agent and screening for bioactive essential oils. *Molecules*, **2012**, 17, 12312-29 | 4.8 | 23 |
| 66 | Chemical polymorphism of populations of Thymus caespititius grown on the islands Corvo, Flores, São Miguel and Terceira (Azores) and on Madeira, assessed by analysis of their essential oils. *Plant Science*, **2005**, 169, 1112-1117 | 5.3 | 23 |

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| 65 | Composition of the essential oil of Juniperus cedrus Webb & Berth. grown on Madeira. *Flavour and Fragrance Journal*, **2002**, 17, 111-114 | 2.5 | 23 |
| 64 | Effect of the volatile constituents isolated from Thymus albicans, Th. mastichina, Th. carnosus and Thymbra capitata in sunflower oil. *Molecular Nutrition and Food Research*, **2003**, 47, 397-402 | | 23 |
| 63 | Foeniculum vulgare Essential Oils: Chemical Composition, Antioxidant and Antimicrobial Activities. *Natural Product Communications*, **2010**, 5, 1934578X1000500 | 0.9 | 22 |
| 62 | Origanum glandulosum Desf. grown wild in Algeria: essential oil composition and glycosidic bound volatiles. *Flavour and Fragrance Journal*, **2005**, 20, 209-212 | 2.5 | 22 |
| 61 | Biotransformation of menthol and geraniol by hairy root cultures of Anethum graveolens: effect on growth and volatile components. *Biotechnology Letters*, **2009**, 31, 897-903 | 3 | 21 |
| 60 | Biotransformation of monoterpenes and sesquiterpenes by cell suspension cultures of Achillea millefolium L. ssp. millefolium. *Biotechnology Letters*, **1996**, 18, 863-868 | 3 | 21 |
| 59 | Analysis of the Essential Oil of Crithmum maritimum L.. *Journal of Essential Oil Research*, **1991**, 3, 313-316 | 2.3 | 21 |
| 58 | Chemotypes and terpene synthase genes in Thymus genus: State of the art. *Industrial Crops and Products*, **2018**, 124, 530-547 | 5.9 | 20 |
| 57 | Composition of the Essential Oils from Two Populations of Achillea millefolium L. ssp. millefolium. *Journal of Chromatographic Science*, **1992**, 30, 392-395 | 1.4 | 20 |
| 56 | Identification and characterization of a second isogene encoding γ-terpinene synthase in Thymus caespititius. *Journal of Plant Physiology*, **2014**, 171, 1017-27 | 3.6 | 19 |
| 55 | Supercritical carbon dioxide extraction of volatiles from Satureja fruticosa Bﾨguinot. *Flavour and Fragrance Journal*, **2007**, 22, 438-442 | 2.5 | 19 |
| 54 | Volatile-oils composition, and bioactivity of the essential oils of Plectranthus barbatus, P. neochilus, and P. ornatus grown in Portugal. *Chemistry and Biodiversity*, **2014**, 11, 719-32 | 2.5 | 18 |
| 53 | Pinus halepensis, Pinus pinaster, Pinus pinea and Pinus sylvestris Essential Oils Chemotypes and Monoterpene Hydrocarbon Enantiomers, before and after Inoculation with the Pinewood Nematode Bursaphelenchus xylophilus. *Chemistry and Biodiversity*, **2017**, 14, e1600153 | 2.5 | 18 |
| 52 | Supercritical fluid extraction of the volatile oil from Santolina chamaecyparissus. *Journal of Separation Science*, **2009**, 32, 3215-22 | 3.4 | 18 |
| 51 | Essential oils from seven populations of Juniperus brevifolia (Seub.) Antoine, an endemic species of the Azores. *Flavour and Fragrance Journal*, **2000**, 15, 31-39 | 2.5 | 18 |
| 50 | Composition of the essential oil of Chaerophyllum azoricum Trel., an endemic species of the Azores archipelago. *Flavour and Fragrance Journal*, **1999**, 14, 287-289 | 2.5 | 18 |
| 49 | ISSR molecular characterization and leaf volatiles analysis of Pittosporum undulatum Vent. naturalized in the Azores archipelago (Portugal). *Industrial Crops and Products*, **2011**, 33, 710-719 | 5.9 | 17 |
| 48 | Composition of the Essential Oil of Lavandula pinnata L. fil. var. pinnata grown on madeira. *Flavour and Fragrance Journal*, **1995**, 10, 93-96 | 2.5 | 17 |

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| 47 | Glandular trichomes and essential oils of Helichrysum stoechas. *Israel Journal of Plant Sciences*, **2001**, 49, 115-122 | 0.6 | 17 |
| 46 | Essential oil composition of Pterospartum tridentatum grown in Portugal. *Food Chemistry*, **2007**, 102, 1083-1088 | 8.5 | 15 |
| 45 | Composition of the Essential Oil of Teucrium heterophyllum L'Hér. Grown on Madeira. *Flavour and Fragrance Journal*, **1996**, 11, 129-132 | 2.5 | 15 |
| 44 | Pittosporum undulatum Vent. grown in Portugal: secretory structures, seasonal variation and enantiomeric composition of its essential oil. *Flavour and Fragrance Journal*, **2007**, 22, 1-9 | 2.5 | 14 |
| 43 | Constituents of the essential oil of sea fennel (Crithmum maritimum L.) growing wild in Turkey. *Journal of Medicinal Food*, **2006**, 9, 128-30 | 2.8 | 14 |
| 42 | Propolis volatiles characterisation from acaricide-treated and -untreated beehives maintained at Algarve (Portugal). *Natural Product Research*, **2013**, 27, 743-9 | 2.3 | 13 |
| 41 | Liverwort Radula species from Portugal: chemotaxonomical evaluation of volatiles composition. *Flavour and Fragrance Journal*, **2009**, 24, 316-325 | 2.5 | 13 |
| 40 | Chemical polymorphism of the essential oils from populations of Thymus caespititius grown on the islands Pico, Faial and Graciosa (Azores). *Phytochemical Analysis*, **2003**, 14, 228-31 | 3.4 | 13 |
| 39 | Morphological stability of Pimpinella anisum hairy root cultures and time-course study of their essential oils. *Biotechnology Letters*, **1999**, 21, 859-864 | 3 | 13 |
| 38 | The essential oils of two endemic Teucrium species from Madeira: T. abutiloides L'Hér. and T. betonicum L'Hér. *Flavour and Fragrance Journal*, **1993**, 8, 277-280 | 2.5 | 13 |
| 37 | Antimicrobial activity, cytotoxicity and intracellular growth inhibition of Portuguese Thymus essential oils. *Revista Brasileira De Farmacognosia*, **2011**, 21, 1012-1024 | 2 | 12 |
| 36 | Thymus carnosus Boiss.: Effect of Harvesting Period, Collection Site and Type of Plant Material on Essential Oil Composition. *Journal of Essential Oil Research*, **2005**, 17, 422-426 | 2.3 | 12 |
| 35 | Volatiles from Thymbra and Thymus species of the western Mediterranean basin, Portugal and Macaronesia. *Natural Product Communications*, **2010**, 5, 1465-76 | 0.9 | 12 |
| 34 | Volatile and molecular characterization of two Portuguese endemic species: Angelica lignescens and Melanoselinum decipiens. *Biochemical Systematics and Ecology*, **2009**, 37, 98-105 | 1.4 | 11 |
| 33 | Volatiles from Plicanthus hirtellus (F. Weber) R.M. Schust. and Radula boryana (F. Weber) Nees (Hepaticae) grown in São Tomé e Príncipe Archipelago. *Flavour and Fragrance Journal*, **2010**, 25, 219-222 | 2.5 | 11 |
| 32 | Assessment of the Antioxidant Ability of Thymus albicans, T. mastichina, T. camphoratus and T. carnosus Essential Oils by TBARS and Micellar Model systems. *Natural Product Communications*, **2007**, 2, 1934578X0700200 | 0.9 | 11 |
| 31 | Comparison of the essential oil composition of four Plagiochila species: P. bifaria, P. maderensis, P. retrorsa and P. stricta. *Flavour and Fragrance Journal*, **2005**, 20, 703-709 | 2.5 | 11 |
| 30 | Accumulation of stress metabolites in cell suspension cultures of Hyoscyamus albus. *Phytochemistry*, **1994**, 35, 371-375 | 4 | 11 |

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| 29 | The essential oils of two endemic Portuguese thyme species: Thymus capitellatus Hoffmanns. & Link and T. lotocephalus G. López & R. Morales. *Flavour and Fragrance Journal*, **1993**, 8, 53-57 | 2.5 | 11 |
| 28 | Composition of the essential oil of artemisia argentea l'hér., an endemic species of the madeira archipelago. *Flavour and Fragrance Journal*, **1994**, 9, 229-232 | 2.5 | 10 |
| 27 | Glandular trichomes, histochemical localization of secretion, and essential oil composition in Plectranthus grandidentatus growing in Portugal. *Flavour and Fragrance Journal*, **2013**, 28, 393-401 | 2.5 | 9 |
| 26 | Composition of the essential oil of Teucrium haenseleri Boiss.. *Flavour and Fragrance Journal*, **1997**, 12, 355-357 | 2.5 | 9 |
| 25 | Biological Activities and Composition of Salvia muirii L. Bol. Essential Oil. *Journal of Essential Oil Research*, **2006**, 18, 48-51 | 2.3 | 9 |
| 24 | Essential oil composition of Thymus lotocephallus G. López & R. Morales, collected during flowering and vegetative phases. *Flavour and Fragrance Journal*, **2001**, 16, 417-421 | 2.5 | 9 |
| 23 | Yield and chemical composition of the essential oil of Moroccan chamomile [Cladanthus mixtus (L.) Chevall.] growing wild at different sites in Morocco. *Flavour and Fragrance Journal*, **2013**, 28, 360-366 | 2.5 | 8 |
| 22 | Effect of the essential volatile oils isolated from Thymbra capitata (L.) Cav. on olive and sunflower oils. *Grasas Y Aceites*, **2003**, 54, | 1.3 | 8 |
| 21 | Chemical variability of the essential oils from Rosa canina L. and Rosa sempervirens L. flowers collected at Tunisia. *Journal of Essential Oil Research*, **2012**, 24, 475-480 | 2.3 | 7 |
| 20 | Composition of the leaf, flower and fruit volatile oils of Pittosporum tobira (Thunb.) W. T. Aiton grown in three locations in Portugal. *Flavour and Fragrance Journal*, **2007**, 22, 311-316 | 2.5 | 7 |
| 19 | Asterella africana (Mont.) A. Evans grown on Madeira and in mainland Portugal: morphological data and composition of the essential oil. *Flavour and Fragrance Journal*, **2006**, 21, 534-538 | 2.5 | 7 |
| 18 | Volatile compounds from the symbiotic system Azolla filiculoides-Anabaena azollae bacteria. *Plant Biosystems*, **2009**, 143, 268-274 | 1.6 | 6 |
| 17 | Nitrogen stress induction on Levisticum officinale hairy roots grown in darkness and under photoperiod conditions: effect on growth and volatile components. *Biotechnology Letters*, **2008**, 30, 1265-70 | 2 | 6 |
| 16 | Volatiles from Thymbra and Thymus species of the Western Mediterranean Basin, Portugal and Macaronesia. *Natural Product Communications*, **2010**, 5, 1934578X1000500 | 0.9 | 5 |
| 15 | Morphology and distribution of trichomes in two endemic Teucrium species of Macaronesia. *Acta Botanica Gallica*, **1997**, 144, 363-369 | | 5 |
| 14 | Composition of the essential oil of Micromeria varia Benth. ssp. thymoides (Sol. ex Lowe) Pérez var. thymoides, an endemic species of the madeira archipelago. *Flavour and Fragrance Journal*, **1995**, 10, 199-202 | 2.5 | 5 |
| 13 | Chemical analyses of the essential oils from leaves of Mikania glauca Mart. ex Baker. *Journal of Essential Oil Research*, **2012**, 24, 599-604 | 2.3 | 4 |
| 12 | Assessment of the essential oil composition of Tornabenea annua, Tornabenea insularis and Tornabenea tenuissima fruits from Cape Verde Islands. *Biochemical Systematics and Ecology*, **2009**, 37, 474-478 | 1.4 | 4 |

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| 11 | Chaerophyllum azoricum Trel. grown in the Azores archipelago, Portugal: evaluation of the genetic diversity using molecular markers and comparison with volatile oils profiles. *Flavour and Fragrance Journal*, **2009**, 24, 259-265 | 2.5 | 4 |
| 10 | Volatile and molecular analysis of Juniperus brevifolia (Seub.) Antoine, an Azorean endemic species. *Biochemical Systematics and Ecology*, **2010**, 38, 621-629 | 1.4 | 4 |
| 9 | Composition of the Essential Oil of Monizia edulis Lowe, an Endemic Species of the Madeira Archipelago. *Flavour and Fragrance Journal*, **1997**, 12, 29-31 | 2.5 | 3 |
| 8 | Simple gas chromatographic method for the stereodifferentiation of methyl nilate, a chiral alpha-methyl-beta-hydroxy ester. *Journal of Chromatography A*, **2006**, 1108, 225-30 | 4.5 | 3 |
| 7 | Mineral and volatile composition of ☐gua-mel from Portugal. *European Food Research and Technology*, **2016**, 242, 171-178 | 3.4 | 2 |
| 6 | Medicinal and Aromatic Plants (MAP): How Do They Adapt to the Environment?. *Medicinal and Aromatic Plants of the World*, **2015**, 87-112 | 0.1 | 2 |
| 5 | Composition of the essential oil of Melanoselinum decipiens (Schrad. & Wendl.) Hoffm., an endemic species of the Madeira and Azores Archipelagos. *Flavour and Fragrance Journal*, **1998**, 13, 90-92 | 2.5 | 2 |
| 4 | The Essential Oils of Two Endemic Argyranthemum Species of the Madeira Archipelago: A. pinnatifidum (L. fil.) Lowe spp. pinnatifidum and A. haemotomma (Lowe) Lowe. *Flavour and Fragrance Journal*, **1996**, 11, 211-214 | 2.5 | 2 |
| 3 | Essential Oil Variability of Azorean Cryptomeriajaponica Leaves under Different Distillation Methods, Part 1: Color, Yield and Chemical Composition Analysis. *Applied Sciences (Switzerland)*, **2022**, 12, 452 | 2.6 | 1 |
| 2 | Composition of the Essential Oils from Populations of Crithmum maritimum L. Grown on Four Azorean Islands **2002**, 135-141 | | 1 |
| 1 | Characterization of cuticular compounds of the cerambycid beetles Monochamus galloprovincialis, Arhopalus syriacus, and Pogonocherus perroudi, potential vectors of pinewood nematode. *Entomologia Experimentalis Et Applicata*, **2021**, 169, 183-194 | 2.1 | 0 |