Rosa M Varela

List of Publications by Year
in descending order

91 papers	3,125 citations	147801 31 h-index	175258 52 g-index
91 all docs	91 docs citations	91 times ranked	2750 citing authors

#	Article	IF	Citations
1	Strigolactones: New players in the nitrogenâ€“phosphorus signalling interplay. Plant, Cell and Environment, 2022, 45, 512-527.	5.7	25
2	Strategies for the synthesis of canonical, non-canonical and analogues of strigolactones, and evaluation of their parasitic weed germination activity. Phytochemistry Reviews, 2022, 21, 1627-1659.	6.5	14
3	Encapsulation of Cynara Cardunculus Guaiane-type Lactones in Fully Organic Nanotubes Enhances Their Phytotoxic Properties. Journal of Agricultural and Food Chemistry, 2022, 70, 3644-3653.	5.2	7
4	Evaluation of the phytotoxic and antifungal activity of <scp>C₁₇</scp>â€sesquiterpenoids as potential biopesticides. Pest Management Science, 2022, 78, 4240-4251.	3.4	2
5	Acyl Derivatives of Eudesmanolides To Boost their Bioactivity: An Explanation of Behavior in the Cell Membrane Using a Molecular Dynamics Approach. ChemMedChem, 2021, 16, 1297-1307.	3.2	7
6	One-Step Encapsulation of ortho-Disulfides in Functionalized Zinc MOF. Enabling Metalâ€“Organic Frameworks in Agriculture. ACS Applied Materials & Interfaces, 2021, 13, 7997-8005.	8.0	14
7	Sunflower Metabolites Involved in Resistance Mechanisms against Broomrape. Agronomy, 2021, 11, 501.	3.0	6
8	Pharmacological Activities of Aminophenoxazinones. Molecules, 2021, 26, 3453.	3.8	8
9	A Study on the Phytotoxic Potential of the Seasoning Herb Marjoram (Origanum majorana L.) Leaves. Molecules, 2021, 26, 3356.	3.8	17
10	Search of New Tools for Weed Control Using Piptocarpha rotundifolia, a Dominant Species in the Cerrado. Journal of Agricultural and Food Chemistry, 2021, 69, 8684-8694.	5.2	2
11	Bioactive Diterpenes from the Brazilian Native Plant (Moquiniastrum pulchrum) and Their Application in Weed Control. Molecules, 2021, 26, 4632.	3.8	1
12	Synthesis of Pertyolides A, B, and C: A Synthetic Procedure to C17-Sesquiterpenoids and a Study of Their Phytotoxic Activity. Journal of Natural Products, 2021, 84, 2295-2302.	3.0	6
13	Allelopathic Activity of Strigolactones on the Germination of Parasitic Plants and Arbuscular Mycorrhizal Fungi Growth. Agronomy, 2021, 11, 2174.	3.0	11
14	Phytochemical Study of Safflower Roots (Carthamus tinctorius) on the Induction of Parasitic Plant Germination and Weed Control. Journal of Chemical Ecology, 2020, 46, 871-880.	1.8	13
15	Synthesis of Active Strigolactone Analogues Based on Eudesmane- and Guaiane-Type Sesquiterpene Lactones. Journal of Agricultural and Food Chemistry, 2020, 68, 9636-9645.	5.2	13
16	Effect of Shading on the Sesquiterpene Lactone Content and Phytotoxicity of Cultivated Cardoon Leaf Extracts. Journal of Agricultural and Food Chemistry, 2020, 68, 11946-11953.	5.2	16
17	Exogenous strigolactones impact metabolic profiles and phosphate starvation signalling in roots. Plant, Cell and Environment, 2020, 43, 1655-1668.	5.7	35
18	Evaluation of the Phytotoxicity of Urochloa humidicola Roots by Bioassays and Microscopic Analysis. Characterization of New Compounds. Journal of Agricultural and Food Chemistry, 2020, 68, 4851-4864.	5.2	5

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19	Quantification of Strigolactones. Methods in Molecular Biology, 2020, 2083, 199-208.	0.9	1
20	Phosphate acquisition efficiency in wheat is related to root:shoot ratio, strigolactone levels, and PHO2 regulation. Journal of Experimental Botany, 2019, 70, 5631-5642.	4.8	40
21	Microwave-Assisted Extraction of Ricinine from Ricinus communis Leaves. Antioxidants, 2019, 8, 438.	5.1	9
22	In Situ Eco Encapsulation of Bioactive Agrochemicals within Fully Organic Nanotubes. ACS Applied Materials & Interfaces, 2019, 11, 41925-41934.	8.0	13
23	Preparation and Phytotoxicity Evaluation of 11,13-Dehydro seco-Guaianolides. Journal of Natural Products, 2019, 82, 2501-2508.	3.0	4
24	Easy Access to Alkoxy, Amino, Carbamoyl, Hydroxy, and Thiol Derivatives of Sesquiterpene Lactones and Evaluation of Their Bioactivity on Parasitic Weeds. Journal of Agricultural and Food Chemistry, 2019, 67, 10764-10773.	5.2	16
25	Phytotoxicity Study of Ortho-Disubstituted Disulfides and Their Acyl Derivatives. ACS Omega, 2019, 4, 2362-2368.	3.5	13
26	Influence of Genotype and Harvest Time on the Cynara cardunculus L. Sesquiterpene Lactone Profile. Journal of Agricultural and Food Chemistry, 2019, 67, 6487-6496.	5.2	30
27	Facile synthesis of anhydrojudaicin and 11,13-dehydroanhydrojudaicin, two eudesmanolide-skeleton lactones with potential allelopathic activity. Phytochemistry Letters, 2019, 31, 229-236.	1.2	11
28	The Specialized Roles in Carotenogenesis and Apocarotenogenesis of the Phytoene Synthase Gene Family in Saffron. Frontiers in Plant Science, 2019, 10, 249.	3.6	32
29	Effect of flavonoids isolated from Tridax procumbens on the growth and toxin production of Microcystis aeruginos. Aquatic Toxicology, 2019, 211, 81-91.	4.0	18
30	Hydrolysable Tannins and Biological Activities of Meriania hernandoi and Meriania nobilis (Melastomataceae). Molecules, 2019, 24, 746.	3.8	7
31	The extraction procedure improves the allelopathic activity of cardoon (Cynara cardunculus var.) Tj ETQq1 1 0.784314 rgBT /Overlock	5.2	32
32	A new UHPLCâ€MS/MS method for the direct determination of strigolactones in root exudates and extracts. Phytochemical Analysis, 2019, 30, 110-116.	2.4	26
33	Ecological Relevance of the Major Allelochemicals in Lycopersicon esculentum Roots and Exudates. Journal of Agricultural and Food Chemistry, 2018, 66, 4638-4644.	5.2	25
34	Phytotoxic studies of naphthoquinone intermediates from the synthesis of the natural product Naphthotectone. Research on Chemical Intermediates, 2017, 43, 4387-4400.	2.7	8
35	Phytotoxicity Study on Bidens sulphurea Sch. Bip. as a Preliminary Approach for Weed Control. Journal of Agricultural and Food Chemistry, 2017, 65, 5161-5172.	5.2	23
36	Bioactivity and quantitative analysis of isohexenylnaphthazarins in root periderm of two Echium spp.: E.Âplantagineum and E.Âgaditanum. Phytochemistry, 2017, 141, 162-170.	2.9	13

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37	Chemical evidence for the effect of Urochloa ruziziensis on glyphosateâ€resistant soybeans. Pest Management Science, 2017, 73, 2071-2078.	3.4	13
38	Allelopathy of Bracken Fern (Pteridium arachnoideum): New Evidence from Green Fronds, Litter, and Soil. PLoS ONE, 2016, 11, e0161670.	2.5	28
39	Evaluation of the Allelopathic Potential of Leaf, Stem, and Root Extracts of Ocotea pulchella <scp>Nees et Mart</scp>. Chemistry and Biodiversity, 2016, 13, 1058-1067.	2.1	10
40	The Joint Action of Sesquiterpene Lactones from Leaves as an Explanation for the Activity of Cynara cardunculus. Journal of Agricultural and Food Chemistry, 2016, 64, 6416-6424.	5.2	26
41	Phytotoxicity evaluation of sesquiterpene lactones and diterpenes from species of the Decachaeta , Salvia and Podachaenium genera. Phytochemistry Letters, 2016, 18, 68-76.	1.2	24
42	Phytotoxicity of Triterpenes and Limonoids from the Rutaceae and Meliaceae. 5Î±,6Î²,8Î±,12Î±-Tetrahydro-28-norisotoonafolin â€“ a Potent Phytotoxin from Toona ciliata. Natural Product Communications, 2015, 10, 1934578X1501000.	0.5	5
43	Isolation of Bioactive Compounds from Sunflower Leaves (Helianthus annuusL.) Extracted with Supercritical Carbon Dioxide. Journal of Agricultural and Food Chemistry, 2015, 63, 6410-6421.	5.2	34
44	Phytotoxins from Tithonia diversifolia. Journal of Natural Products, 2015, 78, 1083-1092.	3.0	44
45	Helikaurolides Aâ€“D with a Diterpene-Sesquiterpene Skeleton from Supercritical Fluid Extracts of Helianthus annuus L. var. Arianna. Organic Letters, 2015, 17, 4730-4733.	4.6	12
46	Phytotoxic Potential of Onopordum acanthium L. (Asteraceae). Chemistry and Biodiversity, 2014, 11, 1247-1255.	2.1	12
47	Bio-guided optimization of the ultrasound-assisted extraction of compounds from Annona glabra L. leaves using the etiolated wheat coleoptile bioassay. Ultrasonics Sonochemistry, 2014, 21, 1578-1584.	8.2	25
48	Phytotoxicity of alkaloids, coumarins and flavonoids isolated from 11 species belonging to the Rutaceae and Meliaceae families. Phytochemistry Letters, 2014, 8, 226-232.	1.2	46
49	Phytotoxicity of Cardoon (Cynara cardunculus) Allelochemicals on Standard Target Species and Weeds. Journal of Agricultural and Food Chemistry, 2014, 62, 6699-6706.	5.2	58
50	Allelopathic Potential of Rapanea umbellata Leaf Extracts. Chemistry and Biodiversity, 2013, 10, 1539-1548.	2.1	7
51	Ecological phytochemistry of Cerrado (Brazilian savanna) plants. Phytochemistry Reviews, 2013, 12, 839-855.	6.5	28
52	Phytotoxic effect of bioactive compounds isolated from Myrcia tomentosa (Myrtaceae) leaves. Biochemical Systematics and Ecology, 2013, 46, 29-35.	1.3	31
53	Facile Preparation of Bioactive seco-Guaianolides and Guaianolides from Artemisia gorgonum and Evaluation of Their Phytotoxicity. Journal of Natural Products, 2012, 75, 1967-1973.	3.0	20
54	SAR studies of epoxycurcuphenol derivatives on leukemia CT-CD4 cells. Bioorganic and Medicinal Chemistry, 2012, 20, 6662-6668.	3.0	2

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55	Tectonoelins, new norlignans from a bioactive extract of Tectona grandis. Phytochemistry Letters, 2012, 5, 382-386.	1.2	23
56	Anthratectone and Naphthotectone, Two Quinones from Bioactive Extracts of Tectona grandis. Journal of Chemical Ecology, 2011, 37, 1341-1348.	1.8	30
57	Isolation and Phytotoxicity of Terpenes from Tectona grandis. Journal of Chemical Ecology, 2010, 36, 396-404.	1.8	59
58	Evaluation of various extraction techniques for obtaining bioactive extracts from pine seeds. Food and Bioproducts Processing, 2010, 88, 247-252.	3.6	34
59	Multifunctionalised benzoxazinones in the systems Oryza sativa-Echinochloa crus-galli and Triticum aestivum-Avena fatua as natural-product-based herbicide leads. Pest Management Science, 2010, 66, 1137-1147.	3.4	4
60	Application of Hanschâ€™s Model to Capsaicinoids and Capsinoids: A Study Using the Quantitative Structureâ^'Activity Relationship. A Novel Method for the Synthesis of Capsinoids. Journal of Agricultural and Food Chemistry, 2010, 58, 3342-3349.	5.2	57
61	Combined Strategy for Phytotoxicity Enhancement of Benzoxazinones. Journal of Agricultural and Food Chemistry, 2010, 58, 2047-2053.	5.2	18
62	Aromaticâ€ringâ€functionalised benzoxazinones in the system Oryza sativaâ€“Echinochloa crusâ€galli as biorational herbicide models. Pest Management Science, 2009, 65, 1104-1113.	3.4	9
63	Helikauranoside A, a New Bioactive Diterpene. Journal of Chemical Ecology, 2008, 34, 65-69.	1.8	30
64	Bioactive apocarotenoids from Tectona grandis. Phytochemistry, 2008, 69, 2708-2715.	2.9	55
65	Modified Benzoxazinones in the System Oryza sativaâ^'Echinochloa crus-galli: An Approach to the Development of Biorational Herbicide Models. Journal of Agricultural and Food Chemistry, 2008, 56, 9941-9948.	5.2	7
66	Allelopathyâ€”a natural alternative for weed control. Pest Management Science, 2007, 63, 327-348.	3.4	354
67	Sesquiterpene Lactones as Allelochemicals. Journal of Natural Products, 2006, 69, 795-800.	3.0	40
68	Heliespirones B and C:â€‰ Two New Plant Heliespiranes with a Novel Spiro Heterocyclic Sesquiterpene Skeleton. Organic Letters, 2006, 8, 4513-4516.	4.6	51
69	New Herbicide Models from Benzoxazinones:Â Aromatic Ring Functionalization Effects. Journal of Agricultural and Food Chemistry, 2006, 54, 9843-9851.	5.2	26
70	Bioactive steroids from Oryza sativa L.. Steroids, 2006, 71, 603-608.	1.8	65
71	Structureâ^'Activity Relationship Studies of Benzoxazinones and Related Compounds. Phytotoxicity onEchinochloa crus-galli(L.) P. Beauv.. Journal of Agricultural and Food Chemistry, 2005, 53, 4373-4380.	5.2	28
72	Helivypolide G. A novel dimeric bioactive sesquiterpene lactone. Tetrahedron Letters, 2004, 45, 6567-6570.	1.4	9

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73	Bioactive apocarotenoids annuionones F and G: structural revision of annuionones A, B and E. Phytochemistry, 2004, 65, 3057-3063.	2.9	42
74	Bioactive Lignans from a Cultivar ofHelianthus annuus. Journal of Agricultural and Food Chemistry, 2004, 52, 6443-6447.	5.2	60
75	Absolute configuration of bioactive expansolides A and B from Aspergillus fumigatus Fresenius. Tetrahedron Letters, 2003, 44, 941-943.	1.4	21
76	Synthesis of heliannane skeletons. Facile preparation of (Â±)-heliannuol D. Tetrahedron, 2003, 59, 1679-1683.	1.9	44
77	Allelopathy as a new strategy for sustainable ecosystems development. Uchu Seibutsu Kagaku, 2003, 17, 18-23.	0.3	62
78	Bioactive terpenoids from sunflower leaves cv. PeredovickÂ®. Phytochemistry, 2002, 61, 687-692.	2.9	108
79	The Use of Allelopathic Studies in the Search for Natural Herbicides. The Journal of Crop Improvement: Innovations in Practiceory and Research, 2001, 4, 237-255.	0.4	50
80	(+)-Brevione A. The first member of a novel family of bioactive spiroditerpenoids isolated from Penicillium brevicompactum Dierckx. Tetrahedron Letters, 2000, 41, 2683-2686.	1.4	47
81	Title is missing!. Journal of Chemical Ecology, 2000, 26, 2173-2186.	1.8	41
82	Bioactive Carotanes fromTrichodermavirens. Journal of Natural Products, 2000, 63, 1197-1200.	3.0	58
83	Novel Bioactive Breviane Spiroditerpenoids fromPenicillium brevicompactumDierckx. Journal of Organic Chemistry, 2000, 65, 9039-9046.	3.2	56
84	Allelochemicals from sunflower leaves cv. Peredovick. Phytochemistry, 1999, 52, 613-621.	2.9	80
85	Heliannuol E. A novel bioactive sesquiterpene of the heliannane family. Tetrahedron Letters, 1999, 40, 4725-4728.	1.4	61
86	New Bioactive Plant Heliannuols from Cultivar Sunflower Leaves1. Journal of Natural Products, 1999, 62, 1636-1639.	3.0	76
87	Fractional Extraction of Compounds from Grape Seeds by Supercritical Fluid Extraction and Analysis for Antimicrobial and Agrochemical Activities. Journal of Agricultural and Food Chemistry, 1999, 47, 5044-5048.	5.2	95
88	Bioactive norsesquiterpenes from Helianthus annuus with potential allelopathic activity. Phytochemistry, 1998, 48, 631-636.	2.9	88
89	Bioactive flavonoids from Helianthus annuus cultivars. Phytochemistry, 1997, 45, 683-687.	2.9	63
90	Potential allelopathic sesquiterpene lactones from sunflower leaves. Phytochemistry, 1996, 43, 1205-1215.	2.9	78

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91	Structural Elucidation and Chemistry of a Novel Family of Bioactive Sesquiterpenes: Heliannuols. Journal of Organic Chemistry, 1994, 59, 8261-8266.	3.2	148