

Maria Carlota Vaz Patto

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6448475/publications.pdf>

Version: 2024-02-01

94
papers

2,720
citations

236833

25
h-index

206029

48
g-index

95
all docs

95
docs citations

95
times ranked

2770
citing authors

#	ARTICLE	IF	CITATIONS
1	Abiotic Stress Responses in Legumes: Strategies Used to Cope with Environmental Challenges. <i>Critical Reviews in Plant Sciences</i> , 2015, 34, 237-280.	2.7	212
2	Cereal landraces for sustainable agriculture. A review. <i>Agronomy for Sustainable Development</i> , 2010, 30, 237-269.	2.2	197
3	Achievements and Challenges in Improving the Nutritional Quality of Food Legumes. <i>Critical Reviews in Plant Sciences</i> , 2015, 34, 105-143.	2.7	187
4	Breeding Annual Grain Legumes for Sustainable Agriculture: New Methods to Approach Complex Traits and Target New Cultivar Ideotypes. <i>Critical Reviews in Plant Sciences</i> , 2015, 34, 381-411.	2.7	140
5	Lathyrus improvement for resistance against biotic and abiotic stresses: From classical breeding to marker assisted selection. <i>Euphytica</i> , 2006, 147, 133-147.	0.6	133
6	Cross-species amplification of <i>Medicago truncatula</i> microsatellites across three major pulse crops. <i>Theoretical and Applied Genetics</i> , 2005, 110, 1210-1217.	1.8	127
7	Screening techniques and sources of resistance to rusts and mildews in grain legumes. <i>Euphytica</i> , 2006, 147, 255-272.	0.6	90
8	Relevance, structure and analysis of ferulic acid in maize cell walls. <i>Food Chemistry</i> , 2018, 246, 360-378.	4.2	89
9	Assessing the genetic diversity of Portuguese maize germplasm using microsatellite markers. <i>Euphytica</i> , 2004, 137, 63-72.	0.6	84
10	Lathyrus diversity: available resources with relevance to crop improvement – <i>L. sativus</i> and <i>L. cicera</i> as case studies. <i>Annals of Botany</i> , 2014, 113, 895-908.	1.4	74
11	The impact of CdSe/ZnS Quantum Dots in cells of <i>Medicago sativa</i> in suspension culture. <i>Journal of Nanobiotechnology</i> , 2010, 8, 24.	4.2	66
12	Development of a genetic composite map of <i>Vicia faba</i> using F2 populations derived from trisomic plants. <i>Theoretical and Applied Genetics</i> , 1999, 98, 736-743.	1.8	54
13	Identification of common genomic regions controlling resistance to <i>Mycosphaerella pinodes</i> , earliness and architectural traits in different pea genetic backgrounds. <i>Euphytica</i> , 2011, 182, 43-52.	0.6	50
14	Performance index: An expeditious tool to screen for improved drought resistance in the <i>Lathyrus</i> genus. <i>Journal of Integrative Plant Biology</i> , 2014, 56, 610-621.	4.1	46
15	<i>Lathyrus sativus</i> transcriptome resistance response to <i>Ascochyta lathyri</i> investigated by deepSuperSAGE analysis. <i>Frontiers in Plant Science</i> , 2015, 6, 178.	1.7	43
16	Collecting maize (<i>Zea mays</i> L. convar. <i>mays</i>) with potential technological ability for bread making in Portugal. <i>Genetic Resources and Crop Evolution</i> , 2007, 54, 1555-1563.	0.8	40
17	Allelic diversity in the transcriptomes of contrasting rust-infected genotypes of <i>Lathyrus sativus</i> , a lasting resource for smart breeding. <i>BMC Plant Biology</i> , 2014, 14, 376.	1.6	37
18	Characterization of resistance to powdery mildew (<i>Erysiphe pisi</i>) in a germplasm collection of <i>Lathyrus sativus</i> . <i>Plant Breeding</i> , 2006, 125, 308-310.	1.0	35

#	ARTICLE	IF	CITATIONS
19	Genetic diversity of Moroccan populations of <i>Orobanche foetida</i> : evolving from parasitising wild hosts to crop plants. <i>Weed Research</i> , 2008, 48, 179-186.	0.8	34
20	Transferability of molecular markers from major legumes to <i>Lathyrus</i> spp. for their application in mapping and diversity studies. <i>Molecular Biology Reports</i> , 2014, 41, 269-283.	1.0	34
21	Identification and characterization of partial resistance to rust in a germplasm collection of <i>Lathyrus sativus</i> L.. <i>Plant Breeding</i> , 2009, 128, 495-500.	1.0	33
22	Fusarium Wilt Management in Legume Crops. <i>Agronomy</i> , 2020, 10, 1073.	1.3	32
23	Morphology and AFLP markers suggest three <i>Hordeum chilense</i> ecotypes that differ in avoidance to rust fungi. <i>Canadian Journal of Botany</i> , 2001, 79, 204-213.	1.2	32
24	Comparison of selection methods on "Pigarro", a Portuguese improved maize population with fasciation expression. <i>Euphytica</i> , 2008, 163, 481-499.	0.6	31
25	Establishing the Bases for Introducing the Unexplored Portuguese Common Bean Germplasm into the Breeding World. <i>Frontiers in Plant Science</i> , 2017, 8, 1296.	1.7	30
26	Characterisation of nutritional quality traits of a chickpea (<i>Cicer arietinum</i>) germplasm collection exploited in chickpea breeding in Europe. <i>Crop and Pasture Science</i> , 2017, 68, 1031.	0.7	28
27	Natural Variation in Portuguese Common Bean Germplasm Reveals New Sources of Resistance Against <i>Fusarium oxysporum</i> f. sp. <i>phaseoli</i> and Resistance-Associated Candidate Genes. <i>Phytopathology</i> , 2020, 110, 633-647.	1.1	28
28	Traditional Foods From Maize (<i>Zea mays</i> L.) in Europe. <i>Frontiers in Nutrition</i> , 2021, 8, 683399.	1.6	28
29	Title is missing!. <i>European Journal of Plant Pathology</i> , 2001, 107, 795-803.	0.8	27
30	Genetic Architecture of Ear Fasciation in Maize (<i>Zea mays</i>) under QTL Scrutiny. <i>PLoS ONE</i> , 2015, 10, e0124543.	1.1	27
31	Genetic diversity evolution through participatory maize breeding in Portugal. <i>Euphytica</i> , 2008, 161, 283-291.	0.6	25
32	Long-term on-farm participatory maize breeding by stratified mass selection retains molecular diversity while improving agronomic performance. <i>Evolutionary Applications</i> , 2018, 11, 254-270.	1.5	25
33	Legume Breeding for the Agroecological Transition of Global Agri-Food Systems: A European Perspective. <i>Frontiers in Plant Science</i> , 2021, 12, 782574.	1.7	25
34	Pre and posthaustorial resistance to rusts in <i>Lathyrus cicera</i> L.. <i>Euphytica</i> , 2009, 165, 27-34.	0.6	24
35	Maize flour parameters that are related to the consumer perceived quality of "broa" specialty bread. <i>Food Science and Technology</i> , 2016, 36, 259-267.	0.8	23
36	Resistance reaction to powdery mildew (<i>Erysiphe pisi</i>) in a germplasm collection of <i>Lathyrus cicera</i> from Iberian origin. <i>Genetic Resources and Crop Evolution</i> , 2007, 54, 1517-1521.	0.8	21

#	ARTICLE	IF	CITATIONS
37	Characterization of Soaking Process™ Impact in Common Beans Phenolic Composition: Contribute from the Unexplored Portuguese Germplasm. <i>Foods</i> , 2019, 8, 296.	1.9	21
38	First genetic linkage map of <i>Lathyrus cicera</i> based on RNA sequencing-derived markers: Key tool for genetic mapping of disease resistance. <i>Horticulture Research</i> , 2018, 5, 45.	2.9	19
39	Genome-wide association study for kernel composition and flour pasting behavior in wholemeal maize flour. <i>BMC Plant Biology</i> , 2019, 19, 123.	1.6	19
40	Cereal Landraces for Sustainable Agriculture. , 2011, , 147-186.		19
41	Brief communication. New isozyme loci in faba bean (<i>Vicia faba</i> L.): genetic analysis and mapping using trisomics. <i>Journal of Heredity</i> , 1998, 89, 271-275.	1.0	18
42	QTL mapping provides evidence for lack of association of the avoidance of leaf rust in <i>Hordeum chilense</i> with stomata density. <i>Theoretical and Applied Genetics</i> , 2003, 106, 1283-1292.	1.8	17
43	Consumer-Driven Improvement of Maize Bread Formulations with Legume Fortification. <i>Foods</i> , 2019, 8, 235.	1.9	16
44	Variation in Pea (<i>Pisum sativum</i> L.) Seed Quality Traits Defined by Physicochemical Functional Properties. <i>Foods</i> , 2019, 8, 570.	1.9	15
45	Hydroxycinnamic Acids and Their Derivatives in Broa, a Traditional Ethnic Maize Bread. <i>Foods</i> , 2020, 9, 1471.	1.9	15
46	Legume Crops and Biotrophic Pathogen Interactions: A Continuous Cross-Talk of a Multilayered Array of Defense Mechanisms. <i>Plants</i> , 2020, 9, 1460.	1.6	15
47	Human bioavailability of phenolic compounds found in common beans: the use of high-resolution MS to evaluate inter-individual variability. <i>British Journal of Nutrition</i> , 2020, 123, 273-292.	1.2	13
48	Common bean SNP alleles and candidate genes affecting photosynthesis under contrasting water regimes. <i>Horticulture Research</i> , 2021, 8, 4.	2.9	13
49	Extent and pattern of genetic differentiation within and between European populations of <i>Phelipanche ramosa</i> revealed by amplified fragment length polymorphism analysis. <i>Weed Research</i> , 2009, 49, 48-55.	0.8	12
50	Relationship between seed traits and pasting and cooking behaviour in a pulse germplasm collection. <i>Crop and Pasture Science</i> , 2018, 69, 892.	0.7	12
51	A diversity of resistance sources to <i>Fusarium oxysporum</i> f. sp. <i>pisi</i> found within grass pea germplasm. <i>Plant and Soil</i> , 2021, 463, 19-38.	1.8	12
52	Disclosing the Nutritional Quality Diversity of Portuguese Common Beans™The Missing Link for Their Effective Use in Protein Quality Breeding Programs. <i>Agronomy</i> , 2021, 11, 221.	1.3	11
53	Identification of resistance to rust (<i>Uromyces appendiculatus</i>) and powdery mildew (<i>Erysiphe diffusa</i>) in Portuguese common bean germplasm. <i>Plant Breeding</i> , 2013, 132, 654-657.	1.0	10
54	Partial Resistance Against <i>Erysiphe pisi</i> and <i>E. trifolii</i> Under Different Genetic Control in <i>Lathyrus cicera</i> : Outcomes from a Linkage Mapping Approach. <i>Plant Disease</i> , 2020, 104, 2875-2884.	0.7	10

#	ARTICLE	IF	CITATIONS
55	Improvement of wheat cookiesâ€™ nutritional quality, by partial substitution with common bean and maize flours, sustained human glycemia and enhanced satiety perception. <i>Cereal Chemistry</i> , 2021, 98, 1123-1134.	1.1	10
56	Shared and tailored common bean transcriptomic responses to combined fusarium wilt and water deficit. <i>Horticulture Research</i> , 2021, 8, 149.	2.9	10
57	Advances in pea breeding. <i>Burleigh Dodds Series in Agricultural Science</i> , 2019, , 575-606.	0.1	10
58	Grass Pea (<i>Lathyrus sativus</i> L.)â€™A Sustainable and Resilient Answer to Climate Challenges. <i>Agronomy</i> , 2022, 12, 1324.	1.3	10
59	Grain legume protein quality: a hot subject. <i>Arbor</i> , 2016, 192, a314.	0.1	9
60	Setting Up Decision-Making Tools toward a Quality-Oriented Participatory Maize Breeding Program. <i>Frontiers in Plant Science</i> , 2017, 8, 2203.	1.7	9
61	Warm Season Grain Legume Landraces From the South of Europe for Germplasm Conservation and Genetic Improvement. <i>Frontiers in Plant Science</i> , 2018, 9, 1524.	1.7	9
62	Metabolomics profile responses to changing environments in a common bean (<i>Phaseolus vulgaris</i> L.) germplasm collection. <i>Food Chemistry</i> , 2022, 370, 131003.	4.2	9
63	Participatory Plant Quality Breeding: An Ancient Art Revisited by Knowledge Sharing. <i>The Portuguese Experience</i> . , 0, , .		8
64	Editorial: Advances in Legume Research. <i>Frontiers in Plant Science</i> , 2018, 9, 501.	1.7	8
65	Application of the CATA methodology with children: Qualitative approach on ballot development and product characterization of innovative products. <i>Food Quality and Preference</i> , 2021, 88, 104083.	2.3	8
66	Broa, an Ethnic Maize Bread, as a Source of Phenolic Compounds. <i>Antioxidants</i> , 2021, 10, 672.	2.2	8
67	The <i>MLO1</i> powdery mildew susceptibility gene in <i>Lathyrus</i> species: The power of high-density linkage maps in comparative mapping and synteny analysis. <i>Plant Genome</i> , 2021, 14, e20090.	1.6	8
68	Unveiling common responses of <i>Medicago truncatula</i> to appropriate and inappropriate rust species. <i>Frontiers in Plant Science</i> , 2014, 5, 618.	1.7	7
69	Is ear value an effective indicator for maize yield evaluation?. <i>Field Crops Research</i> , 2014, 161, 75-86.	2.3	7
70	Maize participatory breeding in Portugal: Comparison of farmer's and breeder's on-farm selection. <i>Plant Breeding</i> , 2017, 136, 861-871.	1.0	7
71	An Improved HILIC HPLC-MS/MS Method for the Determination of Î²-ODAP and Its Î± Isomer in <i>Lathyrus sativus</i> . <i>Molecules</i> , 2019, 24, 3043.	1.7	7
72	Alleles to Enhance Antioxidant Content in Maizeâ€™A Genome-Wide Association Approach. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 4051-4061.	2.4	7

#	ARTICLE	IF	CITATIONS
73	Thermal imaging to phenotype traditional maize landraces for drought tolerance. <i>Comunicata Scientiae</i> , 2015, 6, 334.	0.4	7
74	Positioning Portugal into the context of world production and research in grain legumes. <i>Revista De Ci�ncias Agr�rias</i> , 2016, 39, 471-489.	0.2	7
75	Association Mapping of <i>Lathyrus sativus</i> Disease Response to <i>Uromyces pisi</i> Reveals Novel Loci Underlying Partial Resistance. <i>Frontiers in Plant Science</i> , 2022, 13, 842545.	1.7	7
76	Achievements and Challenges towards a Sustainable Conservation and Use of ‘Galega vulgaris’ Olea europaea Variety. <i>Agronomy</i> , 2020, 10, 1467.	1.3	6
77	Volatilome – Genome-Wide Association Study on Wholemeal Maize Flour. <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 7809-7818.	2.4	6
78	Grass Pea. <i>Handbook of Plant Breeding</i> , 2015, , 251-265.	0.1	5
79	Elucidating potential utilization of Portuguese common bean varieties in rice based processed foods. <i>Journal of Food Science and Technology</i> , 2018, 55, 1056-1064.	1.4	5
80	Grass pea and pea phylogenetic relatedness reflected at <i>Fusarium oxysporum</i> host range. <i>Crop Protection</i> , 2021, 141, 105495.	1.0	5
81	Accessing Ancestral Origin and Diversity Evolution by Net Divergence of an Ongoing Domestication Mediterranean Olive Tree Variety. <i>Frontiers in Plant Science</i> , 2021, 12, 688214.	1.7	5
82	Grass pea natural variation reveals oligogenic resistance to <i>Fusarium oxysporum</i> f. sp. <i>pisi</i> . <i>Plant Genome</i> , 2021, 14, e20154.	1.6	5
83	Portuguese Common Bean Natural Variation Helps to Clarify the Genetic Architecture of the Legume’s Nutritional Composition and Protein Quality. <i>Plants</i> , 2022, 11, 26.	1.6	5
84	Comprehensive Two-Dimensional Gas Chromatography as a Powerful Strategy for the Exploration of Broas Volatile Composition. <i>Molecules</i> , 2022, 27, 2728.	1.7	5
85	Two Sides of the Same Coin: The Impact of Grain Legumes on Human Health: Common Bean (<i>Phaseolus</i>) Tj ETQq1 1 0.784314 rgBT / 0		
86	Projection to latent correlative structures, a dimension reduction strategy for spectral-based classification. <i>RSC Advances</i> , 2021, 11, 29124-29129.	1.7	4
87	Maize Open-Pollinated Populations Physiological Improvement: Validating Tools for Drought Response Participatory Selection. <i>Sustainability</i> , 2019, 11, 6081.	1.6	3
88	Integrating Phenotypic and Gene Expression Linkage Mapping to Dissect Rust Resistance in Chickling Pea. <i>Frontiers in Plant Science</i> , 2022, 13, 837613.	1.7	3
89	Shedding Light on the Volatile Composition of Broa, a Traditional Portuguese Maize Bread. <i>Biomolecules</i> , 2021, 11, 1396.	1.8	2
90	Abiotic and Biotic Stresses Interaction in Fabaceae Plants. Contributions from the Grain Legumes/Soilborne Vascular Diseases/Drought Stress Triangle. , 2020, , 237-260.		2

#	ARTICLE	IF	CITATIONS
91	Towards a Trait-Based Approach to Potentiate Yield under Drought in Legume-Rich Annual Forage Mixtures. <i>Plants</i> , 2021, 10, 1763.	1.6	2
92	Assessing the environmental sustainability of Portuguese olive growing practices from a life cycle assessment perspective. <i>Journal of Cleaner Production</i> , 2022, 355, 131692.	4.6	2
93	Towards a Trait-Based Approach to Potentiate Yield under Drought in Legume-Rich Annual Forage Mixtures. <i>Plants</i> , 2021, 10, .	1.6	1
94	Aleksandar MikiÄt, the legume (re)searcher. , 0, , .		0