

Roberto Pilu

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7267384/roberto-pilu-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

66

papers

1,598

citations

22

h-index

38

g-index

69

ext. papers

1,953

ext. citations

4.9

avg, IF

4.79

L-index

#	Paper	IF	Citations
66	Chronic dietary intake of plant-derived anthocyanins protects the rat heart against ischemia-reperfusion injury. <i>Journal of Nutrition</i> , 2008 , 138, 747-52	4.1	166
65	Phenotypic, genetic and molecular characterization of a maize low phytic acid mutant (lpa241). <i>Theoretical and Applied Genetics</i> , 2003 , 107, 980-7	6	122
64	Arundo donax L.: a non-food crop for bioenergy and bio-compound production. <i>Biotechnology Advances</i> , 2014 , 32, 1535-49	17.8	106
63	Phytic acid prevents oxidative stress in seeds: evidence from a maize (Zea mays L.) low phytic acid mutant. <i>Journal of Experimental Botany</i> , 2009 , 60, 967-78	7	99
62	A defective ABC transporter of the MRP family, responsible for the bean lpa1 mutation, affects the regulation of the phytic acid pathway, reduces seed myo-inositol and alters ABA sensitivity. <i>New Phytologist</i> , 2011 , 191, 70-83	9.8	88
61	Anthocyanins in corn: a wealth of genes for human health. <i>Planta</i> , 2014 , 240, 901-11	4.7	83
60	The Maize lpa241 Mutation Causes a Remarkable Variability of Expression and Some Pleiotropic Effects. <i>Crop Science</i> , 2005 , 45, 2096-2105	2.4	51
59	New energy crop giant cane (Arundo donax L.) can substitute traditional energy crops increasing biogas yield and reducing costs. <i>Bioresource Technology</i> , 2015 , 191, 197-204	11	47
58	pl-bol3, a complex allele of the anthocyanin regulatory pl1 locus that arose in a naturally occurring maize population. <i>Plant Journal</i> , 2003 , 36, 510-21	6.9	47
57	Bioaccumulation of heavy metals from wastewater through a Typha latifolia and Thelypteris palustris phytoremediation system. <i>Chemosphere</i> , 2020 , 241, 125018	8.4	46
56	Dietary cyanidin 3-glucoside from purple corn ameliorates doxorubicin-induced cardiotoxicity in mice. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2017 , 27, 462-469	4.5	39
55	Genetic characterization of an Italian Giant Reed (Arundo donax L.) clones collection: exploiting clonal selection. <i>Euphytica</i> , 2014 , 196, 169-181	2.1	39
54	A paramutation phenomenon is involved in the genetics of maize low phytic acid1-241 (lpa1-241) trait. <i>Heredity</i> , 2009 , 102, 236-45	3.6	37
53	Exploitation of Common Bean Flours with Low Antinutrient Content for Making Nutritionally Enhanced Biscuits. <i>Frontiers in Plant Science</i> , 2016 , 7, 928	6.2	29
52	Genetic studies regarding the control of seed pigmentation of an ancient European pointed maize (Zea mays L.) rich in phlobaphenes: the Nero Spinoso from the Camonica valley. <i>Genetic Resources and Crop Evolution</i> , 2017 , 64, 761-773	2	27
51	Development and study of a maize cultivar rich in anthocyanins: coloured polenta, a new functional food. <i>Plant Breeding</i> , 2014 , 133, 210-217	2.4	27
50	Characterization of the first dominant dwarf maize mutant carrying a single amino acid insertion in the VHYP domain of the dwarf8 gene. <i>Molecular Breeding</i> , 2009 , 24, 375-385	3.4	27

49	Arundo donax L. can substitute traditional energy crops for more efficient, environmentally-friendly production of biogas: A Life Cycle Assessment approach. <i>Bioresource Technology</i> , 2018 , 267, 249-256	11	23
48	Evaluation of concentration of heavy metals in animal rearing system. <i>Italian Journal of Animal Science</i> , 2019 , 18, 1372-1384	2.2	23
47	Isolation and characterization of a new mutant allele of brachytic 2 maize gene. <i>Molecular Breeding</i> , 2007 , 20, 83-91	3.4	23
46	Study and characterization of a novel functional food: purple popcorn. <i>Molecular Breeding</i> , 2013 , 31, 575-585	3.4	22
45	Study of low phytic acid1-7 (lpa1-7), a new ZmMRP4 mutation in maize. <i>Journal of Heredity</i> , 2012 , 103, 598-605	2.4	22
44	The low phytic acid1-241 (lpa1-241) maize mutation alters the accumulation of anthocyanin pigment in the kernel. <i>Planta</i> , 2010 , 231, 1189-99	4.7	22
43	Low phytic acid 1 mutation in maize modifies density, starch properties, cations, and fiber contents in the seed. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 4622-30	5.7	21
42	Paramutation: just a curiosity or fine tuning of gene expression in the next generation?. <i>Current Genomics</i> , 2011 , 12, 298-306	2.6	21
41	Analysis of chromosome number and speculations on the origin of Arundo donax L. (Giant Reed). <i>Cytology and Genetics</i> , 2013 , 47, 237-241	0.7	20
40	A mutation in the FZL gene of Arabidopsis causing alteration in chloroplast morphology results in a lesion mimic phenotype. <i>Journal of Experimental Botany</i> , 2013 , 64, 4313-28	7	20
39	Effect of flavonoid pigments on the accumulation of fumonisins B1 in the maize kernel. <i>Journal of Applied Genetics</i> , 2011 , 52, 145-52	2.5	20
38	Paramutation phenomena in plants. <i>Seminars in Cell and Developmental Biology</i> , 2015 , 44, 2-10	7.5	18
37	Phlobaphenes modify pericarp thickness in maize and accumulation of the fumonisins mycotoxins. <i>Scientific Reports</i> , 2020 , 10, 1417	4.9	16
36	Identification of anthocyanins in plant sources and textiles by surface-enhanced Raman spectroscopy (SERS). <i>Journal of Raman Spectroscopy</i> , 2016 , 47, 269-276	2.3	16
35	Giant cane (Arundo donax L.) for biogas production: The effect of two ensilage methods on biomass characteristics and biogas potential. <i>Biomass and Bioenergy</i> , 2016 , 93, 131-136	5.3	16
34	Bioconversion of Giant Cane for Integrated Production of Biohydrogen, Carboxylic Acids, and Polyhydroxyalkanoates (PHAs) in a Multistage Biorefinery Approach. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 15361-15373	8.3	16
33	Giant cane (Arundo donax L.) can substitute traditional energy crops in producing energy by anaerobic digestion, reducing surface area and costs: A full-scale approach. <i>Bioresource Technology</i> , 2016 , 218, 826-32	11	15
32	Phytic Acid and Transporters: What Can We Learn from Mutants. <i>Plants</i> , 2020 , 9,	4.5	14

31	Study and characterization of an ancient European flint white maize rich in anthocyanins: Millo Corvo from Galicia. <i>PLoS ONE</i> , 2015 , 10, e0126521	3.7	13
30	Mutations in two independent genes lead to suppression of the shoot apical meristem in maize. <i>Plant Physiology</i> , 2002 , 128, 502-11	6.6	13
29	MRP Transporters and Mutants in Major Crops: Main Pleiotropic Effects and Future Perspectives. <i>Frontiers in Plant Science</i> , 2020 , 11, 1301	6.2	11
28	<i>Arundo donax</i> L. Biomass Production in a Polluted Area: Effects of Two Harvest Timings on Heavy Metals Uptake. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 1147	2.6	11
27	Assessing pigmented pericarp of maize kernels as possible source of resistance to fusarium ear rot, <i>Fusarium</i> spp. infection and fumonisin accumulation. <i>International Journal of Food Microbiology</i> , 2016 , 227, 56-62	5.8	10
26	Nanometer-scale structure of alkali-soluble bio-macromolecules of maize plant residues explains their recalcitrance in soil. <i>Chemosphere</i> , 2009 , 76, 523-8	8.4	9
25	Food Containing Bioactive Flavonoids and Other Phenolic or Sulfur Phytochemicals With Antiviral Effect: Can We Design a Promising Diet Against COVID-19?. <i>Frontiers in Nutrition</i> , 2021 , 8, 661331	6.2	9
24	Evaluation of leonardite as a feed additive on lipid metabolism and growth of weaned piglets. <i>Animal Feed Science and Technology</i> , 2020 , 266, 114519	3	8
23	Micropore surface area of alkali-soluble plant macromolecules (humic acids) drives their decomposition rates in soil. <i>Chemosphere</i> , 2010 , 78, 1036-41	8.4	8
22	A mutational approach to the study of seed development in maize. <i>Journal of Experimental Botany</i> , 2007 , 58, 1197-205	7	8
21	Recovery of phenolic compounds from agro-industrial by-products: Evaluating antiradical activities and immunomodulatory properties. <i>Food and Bioproducts Processing</i> , 2021 , 127, 338-348	4.9	8
20	Plant agro-biodiversity needs protection, study and promotion: results of research conducted in Lombardy region (Northern Italy). <i>Biodiversity and Conservation</i> , 2020 , 29, 409-430	3.4	7
19	Characterization of <i>Mais delle Fiorine</i> (<i>Zea mays</i> L.) and nutritional, morphometric and genetic comparison with other maize landraces of Lombardy region (Northern Italy). <i>Genetic Resources and Crop Evolution</i> , 2021 , 68, 2075-2091	2	6
18	<i>lpa1-5525</i> : A New <i>lpa1</i> Mutant Isolated in a Mutagenized Population by a Novel Non-Disrupting Screening Method. <i>Plants</i> , 2019 , 8,	4.5	5
17	Characterization of the <i>Ra1</i> maize gene involved in inflorescence architecture. <i>Sexual Plant Reproduction</i> , 2006 , 19, 145-150		5
16	Study on the inflorescences of <i>Arundo donax</i> L. clones sampled in Italy. <i>Revista Brasileira De Botanica</i> , 2016 , 39, 275-285	1.2	5
15	Influence of Clonal Variation on the Efficiency of <i>Arundo donax</i> Propagation Methods. <i>Journal of Plant Growth Regulation</i> , 2019 , 38, 1449-1457	4.7	4
14	A quantitative trait locus involved in maize yield is tightly associated to the <i>r1</i> gene on the long arm of chromosome 10. <i>Molecular Breeding</i> , 2012 , 30, 799-807	3.4	4

13	The brachytic 2 and 3 maize double mutant shows alterations in plant growth and embryo development. <i>Plant Growth Regulation</i> , 2011 , 64, 185-192	3.2	4
12	Sugars Production for Green Chemistry from 2nd Generation Crop (<i>Arundo donax</i> L.): A Full Field Approach.. <i>ChemistrySelect</i> , 2016 , 1, 2617-2623	1.8	3
11	<i>Arabidopsis thaliana</i> plants overexpressing <i>Ramosa1</i> maize gene show an increase in organ size due to cell expansion. <i>Sexual Plant Reproduction</i> , 2007 , 20, 191-198		3
10	Genetic Improvement of <i>L.</i> : Opportunities and Challenges. <i>Plants</i> , 2020 , 9,	4.5	3
9	Pigmented Corn Varieties as Functional Ingredients for Gluten-Free Products. <i>Foods</i> , 2021 , 10,	4.9	3
8	Anthocyanins in Staple Crops 2015 , 247-273		2
7	Skin toxicity following radiotherapy in patients with breast carcinoma: is anthocyanin supplementation beneficial?. <i>Clinical Nutrition</i> , 2021 , 40, 2068-2077	5.9	2
6	Biorefinery Approach Applied to the Valorization of Purple Corn Cobs. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 3781-3791	8.3	2
5	Expression of <i>Arabidopsis thaliana</i> S-ACP-DES3 in <i>Escherichia coli</i> for high-performance biodiesel production. <i>RSC Advances</i> , 2014 , 4, 63387-63392	3.7	1
4	Brachytic2 mutation is able to counteract the main pleiotropic effects of brown midrib3 mutant in maize.. <i>Scientific Reports</i> , 2022 , 12, 2446	4.9	1
3	The Ancient Varieties of Mountain Maize: The Inheritance of the Pointed Character and Its Effect on the Natural Drying Process. <i>Agronomy</i> , 2021 , 11, 2295	3.6	0
2	Low-Phytate Grains to Enhance Phosphorus Sustainability in Agriculture: Chasing Drought Stress in <i>lpa1-1</i> Mutant. <i>Agronomy</i> , 2022 , 12, 721	3.6	0
1	Long term toxicity of a Roundup herbicide and a Roundup-tolerant genetically modified maize. <i>Food and Chemical Toxicology</i> , 2013 , 53, 454	4.7	