

# Roberto Pilu

## List of Publications by Year in descending order

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Version: 2024-02-01

67  
papers

2,250  
citations

201575

27  
h-index

233338

45  
g-index

69  
all docs

69  
docs citations

69  
times ranked

2640  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chronic Dietary Intake of Plant-Derived Anthocyanins Protects the Rat Heart against Ischemia-Reperfusion Injury <sup>3</sup> . <i>Journal of Nutrition</i> , 2008, 138, 747-752.	1.3	210
2	<i>Arundo donax</i> L.: A non-food crop for bioenergy and bio-compound production. <i>Biotechnology Advances</i> , 2014, 32, 1535-1549.	6.0	151
3	Phenotypic, genetic and molecular characterization of a maize low phytic acid mutant (lpa241). <i>Theoretical and Applied Genetics</i> , 2003, 107, 980-987.	1.8	142
4	Anthocyanins in corn: a wealth of genes for human health. <i>Planta</i> , 2014, 240, 901-911.	1.6	123
5	Phytic acid prevents oxidative stress in seeds: evidence from a maize ( <i>Zea mays</i> L.) low phytic acid mutant. <i>Journal of Experimental Botany</i> , 2009, 60, 967-978.	2.4	122
6	A defective ABC transporter of the MRP family, responsible for the bean <i>lpa1</i> 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.	3.5	100
7	Bioaccumulation of heavy metals from wastewater through a <i>Typha latifolia</i> and <i>Thelypteris palustris</i> phytoremediation system. <i>Chemosphere</i> , 2020, 241, 125018.	4.2	65
8	The Maize lpa241 Mutation Causes a Remarkable Variability of Expression and Some Pleiotropic Effects. <i>Crop Science</i> , 2005, 45, 2096-2105.	0.8	63
9	Dietary cyanidin 3-glucoside from purple corn ameliorates doxorubicin-induced cardiotoxicity in mice. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2017, 27, 462-469.	1.1	58
10	New energy crop giant cane ( <i>Arundo donax</i> L.) can substitute traditional energy crops increasing biogas yield and reducing costs. <i>Bioresource Technology</i> , 2015, 191, 197-204.	4.8	56
11	pl-bol3, a complex allele of the anthocyanin regulatory <i>pl1</i> locus that arose in a naturally occurring maize population. <i>Plant Journal</i> , 2003, 36, 510-521.	2.8	51
12	A paramutation phenomenon is involved in the genetics of maize low phytic acid1-241 (lpa1-241) trait. <i>Heredity</i> , 2009, 102, 236-245.	1.2	47
13	Genetic characterization of an Italian Giant Reed ( <i>Arundo donax</i> L.) clones collection: exploiting clonal selection. <i>Euphytica</i> , 2014, 196, 169-181.	0.6	43
14	Exploitation of Common Bean Flours with Low Antinutrient Content for Making Nutritionally Enhanced Biscuits. <i>Frontiers in Plant Science</i> , 2016, 7, 928.	1.7	43
15	Characterization of the first dominant dwarf maize mutant carrying a single amino acid insertion in the VHYNP domain of the dwarf8 gene. <i>Molecular Breeding</i> , 2009, 24, 375-385.	1.0	41
16	Evaluation of concentration of heavy metals in animal rearing system. <i>Italian Journal of Animal Science</i> , 2019, 18, 1372-1384.	0.8	41
17	Development and study of a maize cultivar rich in anthocyanins: coloured polenta, a new functional food. <i>Plant Breeding</i> , 2014, 133, 210-217.	1.0	40
18	Effect of flavonoid pigments on the accumulation of fumonisin B1 in the maize kernel. <i>Journal of Applied Genetics</i> , 2011, 52, 145-152.	1.0	38

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19	Genetic studies regarding the control of seed pigmentation of an ancient European pointed maize ( <i>Zea mays</i> ssp. <i>indurata</i> ) Tj ETQq1. <i>Crop Evolution</i> , 2017, 64, 761-773.	1.0784314	37
20	Study of Low Phytic Acid1-7 ( <i>lpa1-7</i> ), a New <i>ZmMRP4</i> Mutation in Maize. <i>Journal of Heredity</i> , 2012, 103, 598-605.	1.0	35
21	Study and characterization of a novel functional food: purple popcorn. <i>Molecular Breeding</i> , 2013, 31, 575-585.	1.0	35
22	<i>Arundo donax</i> 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.	4.8	35
23	Phlobaphenes modify pericarp thickness in maize and accumulation of the fumonisin mycotoxins. <i>Scientific Reports</i> , 2020, 10, 1417.	1.6	34
24	The low phytic acid1-241 ( <i>lpa1-241</i> ) maize mutation alters the accumulation of anthocyanin pigment in the kernel. <i>Planta</i> , 2010, 231, 1189-1199.	1.6	30
25	Phytic Acid and Transporters: What Can We Learn from low phytic acid Mutants?. <i>Plants</i> , 2020, 9, 69.	1.6	30
26	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, 4622-4630.	2.4	29
27	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.	3.2	29
28	Isolation and characterization of a new mutant allele of brachytic 2 maize gene. <i>Molecular Breeding</i> , 2007, 20, 83-91.	1.0	28
29	A mutation in the FZL gene of <i>Arabidopsis</i> causing alteration in chloroplast morphology results in a lesion mimic phenotype. <i>Journal of Experimental Botany</i> , 2013, 64, 4313-4328.	2.4	27
30	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.	1.8	25
31	Paramutation: Just a Curiosity or Fine Tuning of Gene Expression in the Next Generation?. <i>Current Genomics</i> , 2011, 12, 298-306.	0.7	24
32	Giant cane ( <i>Arundo donax</i> 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.	2.9	24
33	Analysis of chromosome number and speculations on the origin of <i>Arundo donax</i> L. (Giant Reed). <i>Cytology and Genetics</i> , 2013, 47, 237-241.	0.2	23
34	Paramutation phenomena in plants. <i>Seminars in Cell and Developmental Biology</i> , 2015, 44, 2-10.	2.3	23
35	MRP Transporters and Low Phytic Acid Mutants in Major Crops: Main Pleiotropic Effects and Future Perspectives. <i>Frontiers in Plant Science</i> , 2020, 11, 1301.	1.7	23
36	<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.	1.3	23

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37	Identification of anthocyanins in plant sources and textiles by surface-enhanced Raman spectroscopy (SERS). <i>Journal of Raman Spectroscopy</i> , 2016, 47, 269-276.	1.2	21
38	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.	1.6	20
39	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.	1.8	19
40	Study and Characterization of an Ancient European Flint White Maize Rich in Anthocyanins: Millo Corvo from Galicia. <i>PLoS ONE</i> , 2015, 10, e0126521.	1.1	19
41	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.	2.1	17
42	Giant cane ( <i>Arundo donax</i> 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, 826-832.	4.8	17
43	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.	1.2	16
44	Mutations in Two Independent Genes Lead to Suppression of the Shoot Apical Meristem in Maize. <i>Plant Physiology</i> , 2002, 128, 502-511.	2.3	14
45	A mutational approach to the study of seed development in maize. <i>Journal of Experimental Botany</i> , 2007, 58, 1197-1205.	2.4	14
46	Pigmented Corn Varieties as Functional Ingredients for Gluten-Free Products. <i>Foods</i> , 2021, 10, 1770.	1.9	13
47	Characterization of "Mais delle Fiorine" ( <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.	0.8	13
48	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.	1.1	12
49	Biorefinery Approach Applied to the Valorization of Purple Corn Cobs. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3781-3791.	3.2	10
50	Nanometer-scale structure of alkali-soluble bio-macromolecules of maize plant residues explains their recalcitrance in soil. <i>Chemosphere</i> , 2009, 76, 523-528.	4.2	9
51	lpa1-5525: A New lpa1 Mutant Isolated in a Mutagenized Population by a Novel Non-Disrupting Screening Method. <i>Plants</i> , 2019, 8, 209.	1.6	9
52	Skin toxicity following radiotherapy in patients with breast carcinoma: is anthocyanin supplementation beneficial?. <i>Clinical Nutrition</i> , 2021, 40, 2068-2077.	2.3	9
53	Micropore surface area of alkali-soluble plant macromolecules (humic acids) drives their decomposition rates in soil. <i>Chemosphere</i> , 2010, 78, 1036-1041.	4.2	8
54	Genetic Improvement of <i>Arundo donax</i> L.: Opportunities and Challenges. <i>Plants</i> , 2020, 9, 1584.	1.6	8

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55	Characterization of the Ra1 maize gene involved in inflorescence architecture. Sexual Plant Reproduction, 2006, 19, 145-150.	2.2	7
56	Bacterial Communities in the Embryo of Maize Landraces: Relation with Susceptibility to Fusarium Ear Rot. Microorganisms, 2021, 9, 2388.	1.6	7
57	Study on the inflorescences of <i>Arundo donax</i> L. clones sampled in Italy. Revista Brasileira De Botanica, 2016, 39, 275-285.	0.5	6
58	Influence of Clonal Variation on the Efficiency of <i>Arundo donax</i> Propagation Methods. Journal of Plant Growth Regulation, 2019, 38, 1449-1457.	2.8	5
59	<i>Arabidopsis thaliana</i> plants overexpressing <i>Ramosa1</i> maize gene show an increase in organ size due to cell expansion. Sexual Plant Reproduction, 2007, 20, 191-198.	2.2	4
60	A quantitative trait locus involved in maize yield is tightly associated to the <i>r1</i> gene on the long arm of chromosome 10. Molecular Breeding, 2012, 30, 799-807.	1.0	4
61	Sugars Production for Green Chemistry from 2 <sup>nd</sup> Generation Crop ( <i>Arundo donax</i> ) Tj ETQq1 1 0.784314 rgBT /Overbo	0.7	4
62	The Ancient Varieties of Mountain Maize: The Inheritance of the Pointed Character and Its Effect on the Natural Drying Process. Agronomy, 2021, 11, 2295.	1.3	3
63	Low-Phytate Grains to Enhance Phosphorus Sustainability in Agriculture: Chasing Drought Stress in <i>lpa1-1</i> Mutant. Agronomy, 2022, 12, 721.	1.3	3
64	Agriculture in Marginal Areas: Reintroduction of Rye and Wheat Varieties for Breadmaking in the Antrona Valley. Agronomy, 2022, 12, 1695.	1.3	3
65	<i>Brachytic2</i> mutation is able to counteract the main pleiotropic effects of brown <i>midrib3</i> mutant in maize. Scientific Reports, 2022, 12, 2446.	1.6	2
66	Letter to the editor. Food and Chemical Toxicology, 2013, 53, 454.	1.8	1
67	Expression of <i>Arabidopsis thaliana</i> S-ACP-DES3 in <i>Escherichia coli</i> for high-performance biodiesel production. RSC Advances, 2014, 4, 63387-63392.	1.7	1