

Roberto Pilu

List of Publications by Year in Descending Order

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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	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
65	Low-Phytate Grains to Enhance Phosphorus Sustainability in Agriculture: Chasing Drought Stress in lpa1-1 Mutant. <i>Agronomy</i> , 2022 , 12, 721	3.6	0
64	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
63	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
62	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
61	Pigmented Corn Varieties as Functional Ingredients for Gluten-Free Products. <i>Foods</i> , 2021 , 10,	4.9	3
60	Skin toxicity following radiotherapy in patients with breast carcinoma: is anthocyanin supplementation beneficial?. <i>Clinical Nutrition</i> , 2021 , 40, 2068-2077	5.9	2
59	Arundo donax 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
58	Biorefinery Approach Applied to the Valorization of Purple Corn Cobs. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 3781-3791	8.3	2
57	Characterization of Mais delle Fiorine (Zea mays 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
56	Phytic Acid and Transporters: What Can We Learn from Mutants. <i>Plants</i> , 2020 , 9,	4.5	14
55	Phlobaphenes modify pericarp thickness in maize and accumulation of the fumonisin mycotoxins. <i>Scientific Reports</i> , 2020 , 10, 1417	4.9	16
54	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
53	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
52	Genetic Improvement of L.: Opportunities and Challenges. <i>Plants</i> , 2020 , 9,	4.5	3
51	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
50	Bioaccumulation of heavy metals from wastewater through a Typha latifolia and Thelypteris palustris phytoremediation system. <i>Chemosphere</i> , 2020 , 241, 125018	8.4	46

49	Influence of Clonal Variation on the Efficiency of Arundo donax Propagation Methods. <i>Journal of Plant Growth Regulation</i> , 2019 , 38, 1449-1457	4.7	4
48	lpa1-5525: A New lpa1 Mutant Isolated in a Mutagenized Population by a Novel Non-Disrupting Screening Method. <i>Plants</i> , 2019 , 8,	4.5	5
47	Evaluation of concentration of heavy metals in animal rearing system. <i>Italian Journal of Animal Science</i> , 2019 , 18, 1372-1384	2.2	23
46	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
45	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
44	Genetic studies regarding the control of seed pigmentation of an ancient European pointed maize (<i>Zea mays</i> L.) rich in phlobaphenes: the Nero Spinoso from the Camonica valley. <i>Genetic Resources and Crop Evolution</i> , 2017 , 64, 761-773	2	27
43	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
42	Sugars Production for Green Chemistry from 2nd Generation Crop (Arundo donax L.): A Full Field Approach.. <i>ChemistrySelect</i> , 2016 , 1, 2617-2623	1.8	3
41	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
40	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
39	Assessing pigmented pericarp of maize kernels as possible source of resistance to fusarium ear rot, Fusarium spp. infection and fumonisin accumulation. <i>International Journal of Food Microbiology</i> , 2016 , 227, 56-62	5.8	10
38	Study on the inflorescences of Arundo donax L. clones sampled in Italy. <i>Revista Brasileira De Botanica</i> , 2016 , 39, 275-285	1.2	5
37	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
36	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
35	Paramutation phenomena in plants. <i>Seminars in Cell and Developmental Biology</i> , 2015 , 44, 2-10	7.5	18
34	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
33	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
32	Anthocyanins in Staple Crops 2015 , 247-273		2

31	Genetic characterization of an Italian Giant Reed (<i>Arundo donax</i> L.) clones collection: exploiting clonal selection. <i>Euphytica</i> , 2014 , 196, 169-181	2.1	39
30	<i>Arundo donax</i> L.: a non-food crop for bioenergy and bio-compound production. <i>Biotechnology Advances</i> , 2014 , 32, 1535-49	17.8	106
29	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
28	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
27	Anthocyanins in corn: a wealth of genes for human health. <i>Planta</i> , 2014 , 240, 901-11	4.7	83
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, 4622-30	5.7	21
25	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	
24	Study and characterization of a novel functional food: purple popcorn. <i>Molecular Breeding</i> , 2013 , 31, 575-585	3.4	22
23	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	0.7	20
22	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, 4313-28	7	20
21	A quantitative trait locus involved in maize yield is tightly associated to the r1 gene on the long arm of chromosome 10. <i>Molecular Breeding</i> , 2012 , 30, 799-807	3.4	4
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	2.4	22
19	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
18	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	9.8	88
17	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
16	Effect of flavonoid pigments on the accumulation of fumonisin B1 in the maize kernel. <i>Journal of Applied Genetics</i> , 2011 , 52, 145-52	2.5	20
15	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
14	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, 1189-99	4.7	22

13	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	3.4	27
12	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
11	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
10	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, 967-78	7	99
9	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
8	Isolation and characterization of a new mutant allele of brachytic 2 maize gene. <i>Molecular Breeding</i> , 2007 , 20, 83-91	3.4	23
7	<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
6	A mutational approach to the study of seed development in maize. <i>Journal of Experimental Botany</i> , 2007 , 58, 1197-205	7	8
5	Characterization of the Ra1 maize gene involved in inflorescence architecture. <i>Sexual Plant Reproduction</i> , 2006 , 19, 145-150		5
4	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
3	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
2	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
1	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