Nicola Pecchioni

List of Publications by Year
in descending order

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Version: 2024-02-01

94	5,145	109321	91884
papers	citations	35 h-index	69 g-index

98	98	98	5126
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Durum wheat genome highlights past domestication signatures and future improvement targets. Nature Genetics, 2019, 51, 885-895.	21.4	576
2	Natural variation in a homolog of Antirrhinum CENTRORADIALIS contributed to spring growth habit and environmental adaptation in cultivated barley. Nature Genetics, 2012, 44, 1388-1392.	21.4	477
3	Molecular and Structural Characterization of Barley Vernalization Genes. Plant Molecular Biology, 2005, 59, 449-467.	3.9	258
4	Uptake and agronomic efficiency of nitrogen in winter barley and winter wheat. European Journal of Agronomy, 1998, 9, 11-20.	4.1	245
5	Two loci on chromosome 5H determine low-temperature tolerance in a â€˜Nureâ€™ (winter) Ã— â€˜Tremoisâ€™ (spring) barley map. Theoretical and Applied Genetics, 2004, 108, 670-680.	3.6	199
6	Chromosome regions and stress-related sequences involved in resistance to abiotic stress in Triticeae. Plant Molecular Biology, 2002, 48, 649-665.	3.9	190
7	CBF gene copy number variation at Frost Resistance-2 is associated with levels of freezing tolerance in temperate-climate cereals. Theoretical and Applied Genetics, 2010, 121, 21-35.	3.6	151
8	Fine mapping of a HvCBF gene cluster at the frost resistance locus Fr-H2 in barley. Theoretical and Applied Genetics, 2007, 115, 1083-1091.	3.6	145
9	Mapping regulatory genes as candidates for cold and drought stress tolerance in barley. Theoretical and Applied Genetics, 2006, 112, 445-454.	3.6	128
10	Expression levels of barley Cbf genes at the Frost resistanceâ€H2 locus are dependent upon alleles at Frâ€H1 and Frâ€H2. Plant Journal, 2007, 51, 308-321.	5.7	121
11	Genome-wide association mapping of frost tolerance in barley (Hordeum vulgare L.). BMC Genomics, 2013, 14, 424.	2.8	101
12	Patterns of genetic diversity and linkage disequilibrium in a highly structured Hordeum vulgare association-mapping population for the Mediterranean basin. Theoretical and Applied Genetics, 2009, 119, 175-187.	3.6	99
13	Gene expression in grapevine cultivars in response to Bois Noir phytoplasma infection. Plant Science, 2009, 176, 792-804.	3.6	94
14	Basal Host Resistance of Barley to Powdery Mildew: Connecting Quantitative Trait Loci and Candidate Genes. Molecular Plant-Microbe Interactions, 2010, 23, 91-102.	2.6	94
15	The impact of climate change on barley yield in the Mediterranean basin. European Journal of Agronomy, 2019, 106, 1-11.	4.1	93
16	Genetic dissection of the relationships between grain yield components by genome-wide association mapping in a collection of tetraploid wheats. PLoS ONE, 2018, 13, e0190162.	2.5	85
17	Mixed model association scans of multi-environmental trial data reveal major loci controlling yield and yield related traits in Hordeum vulgare in Mediterranean environments. Theoretical and Applied Genetics, 2011, 122, 1363-1373.	3.6	75
18	QTLs for barley yield adaptation to Mediterranean environments in the â€˜Nureâ€™ÂÃ—Ââ€˜Tremoisâ€™ biparental population. Euphytica, 2014, 197, 73-86.	1.2	74

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19	Determinants of barley grain yield in a wide range of Mediterranean environments. Field Crops Research, 2011, 120, 169-178.	5.1	73
20	Use of Spent Coffee Ground Compost in Peat-Based Growing Media for the Production of Basil and Tomato Potting Plants. Communications in Soil Science and Plant Analysis, 2016, 47, 356-368.	1.4	72
21	The carotenoid biosynthetic and catabolic genes in wheat and their association with yellow pigments. BMC Genomics, 2017, 18, 122.	2.8	72
22	Isolate-specific QTLs of resistance to leaf stripe (Pyrenophora graminea) in the 'Steptoe' Ã— 'Morex' spring barley cross. Theoretical and Applied Genetics, 2003, 106, 668-675.	3.6	68
23	Effects of solid and liquid digestate for hydroponic baby leaf lettuce (Lactuca sativa L.) cultivation. Scientia Horticulturae, 2019, 244, 172-181.	3.6	66
24	Inside the CBF locus in Poaceae. Plant Science, 2011, 180, 39-45.	3.6	60
25	Update on the genomics and basic biology of Brachypodium. Trends in Plant Science, 2014, 19, 414-418.	8.8	60
26	Iodine Fortification Plant Screening Process and Accumulation in Tomato Fruits and Potato Tubers. Communications in Soil Science and Plant Analysis, 2011, 42, 706-718.	1.4	59
27	Biomass production and dry matter partitioning of processing tomato under organic vs conventional cropping systems in a Mediterranean environment. Scientia Horticulturae, 2017, 224, 163-170.	3.6	52
28	Quantitative resistance to barley leaf stripe (Pyrenophora graminea) is dominated by one major locus. Theoretical and Applied Genetics, 1996, 93-93, 97-101.	3.6	50
29	Phenolic acids profile, nutritional and phytochemical compounds, antioxidant properties in colored barley grown in southern Italy. Food Research International, 2018, 113, 221-233.	6.2	50
30	Carbon footprint and energetic analysis of tomato production in the organic vs the conventional cropping systems in Southern Italy. Journal of Cleaner Production, 2019, 220, 836-845.	9.3	49
31	Dual-purpose barley and oat in a Mediterranean environment. Field Crops Research, 2006, 99, 158-166.	5.1	48
32	High expression level of a gene coding for a chloroplastic amino acid selective channel protein is correlated to cold acclimation in cereals. Plant Molecular Biology, 1999, 41, 233-243.	3.9	47
33	Copy number variation at the HvCBF4â€“HvCBF2 genomic segment is a major component of frost resistance in barley. Plant Molecular Biology, 2016, 92, 161-175.	3.9	45
34	Mapping adaptation of barley to droughted environments. Euphytica, 2008, 161, 35-45.	1.2	44
35	Barley adaptation and improvement in the Mediterranean basin. Plant Breeding, 2008, 127, 554-560.	1.9	40
36	Physiological responses of processing tomato in organic and conventional Mediterranean cropping systems. Scientia Horticulturae, 2015, 190, 161-172.	3.6	39

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37	Identification and mapping of a new leaf stripe resistance gene in barley (Hordeum vulgare L.). Theoretical and Applied Genetics, 2001, 102, 1286-1291.	3.6	34
38	Transcriptome profiling of short-term response to chilling stress in tolerant and sensitive Oryza sativa ssp. Japonica seedlings. Functional and Integrative Genomics, 2018, 18, 627-644.	3.5	34
39	Pyramiding Ty-1/Ty-3 and Ty-2 in tomato hybrids dramatically inhibits symptom expression and accumulation of tomato yellow leaf curl disease inducing viruses. Archives of Phytopathology and Plant Protection, 2017, 50, 213-227.	1.3	33
40	Changes in allele frequencies in landraces, old and modern barley cultivars of marker loci close to QTL for grain yield under high and low input conditions. Euphytica, 2008, 163, 435-447.	1.2	32
41	Iodine uptake and distribution in horticultural and fruit tree species. Italian Journal of Agronomy, 2012, 7, 32.	1.0	32
42	Changes in yield components, morphological, physiological and fruit quality traits in processing tomato cultivated in Italy since the 1930â€™s. Scientia Horticulturae, 2019, 257, 108726.	3.6	32
43	Characterization of ornamental Datura plants transformed by Agrobacterium rhizogenes. In Vitro Cellular and Developmental Biology - Plant, 1997, 33, 101-106.	2.1	30
44	Markerâ€assisted characterization of frost tolerance in barley (Hordeum vulgare L.). Plant Breeding, 2009, 128, 381-386.	1.9	29
45	Mineral composition of durum wheat grain and pasta under increasing atmospheric CO2 concentrations. Food Chemistry, 2018, 242, 53-61.	8.2	29
46	Technological Quality and Nutritional Value of Two Durum Wheat Varieties Depend on Both Genetic and Environmental Factors. Journal of Agricultural and Food Chemistry, 2019, 67, 2384-2395.	5.2	29
47	Barleyâ€”Pyrenophora gramineainteraction: QTL analysis and gene mapping. Plant Breeding, 1999, 118, 29-35.	1.9	28
48	QTLs for resistance to the false brome rust Puccinia brachypodii in the model grass Brachypodium distachyon L.. Genome, 2012, 55, 152-163.	2.0	28
49	Pelleting is a successful method to eliminate the presence of Clostridium spp. from the digestate of biogas plants. Biomass and Bioenergy, 2015, 81, 479-482.	5.7	28
50	Candidate gene expression profiling in two contrasting tomato cultivars under chilling stress. Biologia Plantarum, 2014, 58, 283-295.	1.9	26
51	Physiological responses to chilling in cultivars of processing tomato released and cultivated over the past decades in Southern Europe. Scientia Horticulturae, 2018, 231, 118-125.	3.6	26
52	Genomic regions determining resistance to leaf stripe (Pyrenophora graminea) in barley. Genome, 2002, 45, 460-466.	2.0	24
53	Evaluation of two groups of quinoa (Chenopodium quinoa Willd.) accessions with different seed colours for adaptation to the Mediterranean environment. Crop and Pasture Science, 2018, 69, 1264.	1.5	23
54	Development of PCR-based markers on chromosome 5H for assisted selection of frost-tolerant genotypes in barley. Molecular Breeding, 2004, 14, 265-273.	2.1	21

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55	The nuclearâ€“cytoplasmic interaction controls carotenoid content in wheat. Euphytica, 2008, 159, 325-331.	1.2	21
56	Comparison of gluten peptides and potential prebiotic carbohydrates in old and modern Triticum turgidum ssp. genotypes. Food Research International, 2019, 120, 568-576.	6.2	21
57	Effect of the nud gene on grain yield in barley. Czech Journal of Genetics and Plant Breeding, 2012, 48, 10-22.	0.8	20
58	Testing the influence of digestate from biogas on growth and volatile compounds of basil (Ocimum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Medicinal and Aromatic Plants, 2018, 11, 18-26.	1.5	20
59	QTL alleles from a winter feed type can improve malting quality in barley. Plant Breeding, 2009, 128, 598-605.	1.9	19
60	The barley Frost resistance-H2 locus. Functional and Integrative Genomics, 2014, 14, 85-100.	3.5	19
61	Quantitative trait loci for agronomic traits in tetraploid wheat for enhancing grain yield in Kazakhstan environments. PLoS ONE, 2020, 15, e0234863.	2.5	19
62	Anthocyanin profile and antioxidant capacity in coloured barley. International Journal of Food Science and Technology, 2019, 54, 2478-2486.	2.7	18
63	Determinants of barley grain yield in drought-prone Mediterranean environments. Italian Journal of Agronomy, 2013, 8, 1.	1.0	17
64	Genome-Wide Association Mapping of Prostrate/Erect Growth Habit in Winter Durum Wheat. International Journal of Molecular Sciences, 2020, 21, 394.	4.1	17
65	Amplified Fragment Length Polymorphism (AFLP) Markers for Barley Malt Fingerprinting. Journal of Cereal Science, 1999, 29, 257-260.	3.7	14
66	A genotypic and phenotypic information source for marker-assisted selection of cereals: the CEREALAB database. Database: the Journal of Biological Databases and Curation, 2011, 2011, baq038-baq038.	3.0	14
67	A major QTL for resistance to soil-borne cereal mosaic virus derived from an old Italian durum wheat cultivar. Journal of Plant Interactions, 2012, 7, 290-300.	2.1	14
68	Characterization of an Italian rice germplasm collection with genetic markers useful for breeding to improve eating and cooking quality. Euphytica, 2013, 194, 383-399.	1.2	14
69	Amplified fragment length polymorphism markers for DNA fingerprinting in the genus Salvia. Plant Biosystems, 2011, 145, 274-277.	1.6	13
70	Genetic and Management Effects on Barley Yield and Phenology in the Mediterranean Basin. Frontiers in Plant Science, 2021, 12, 655406.	3.6	12
71	Phyletic relationships within the genus Hordeum using PCR-based markers. Genetic Resources and Crop Evolution, 2001, 48, 447-458.	1.6	11
72	Genetic aspects of floral fragrance in plants. Biochemistry (Moscow), 2007, 72, 351-358.	1.5	11

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73	Genomic Approaches to Identify Molecular Bases of Crop Resistance to Diseases and to Develop Future Breeding Strategies. International Journal of Molecular Sciences, 2021, 22, 5423.	4.1	11
74	Cucurbita pepo L. can be transformed by Agrobacterium rhizogenes. Plant Cell, Tissue and Organ Culture, 1997, 51, 89-93.	2.3	10
75	The PCRâ€Based Marker MWG2018 Linked to the RDG2A Leaf Stripe Resistance Gene Is a Useful Tool for Assessing Barley Resistance in Breeding Programs. Crop Science, 2003, 43, 1036-1042.	1.8	10
76	Influence of environmental and genetic factors on content of toxic and immunogenic wheat gluten peptides. European Journal of Agronomy, 2020, 118, 126091.	4.1	10
77	RFLP analysis of highly polymorphic loci in barley. Theoretical and Applied Genetics, 1993, 85, 926-930.	3.6	9
78	Expressed sequence tags from cold-acclimatized barley can identify novel plant genes. Plant Breeding, 2001, 120, 497-502.	1.9	9
79	CNV and Structural Variation in Plants: Prospects of NGS Approaches. , 2015, , 211-232.		8
80	Agronomic and molecular evaluation of cocksfoot and tall fescue cultivars for adaptation to an Algerian drought-prone environment. Euphytica, 2016, 212, 371-386.	1.2	8
81	Genetic diversity in cultivated Osteospermum as revealed by random amplified polymorphic DNA analysis. Plant Breeding, 2000, 119, 351-355.	1.9	7
82	Random amplified polymorphic DNA (RAPD) analysis for the verification of hybridity in interspecific crosses of Alstroemeria. Plant Breeding, 2000, 119, 443-445.	1.9	7
83	QTL Analysis of Five Morpho-Physiological Traits in Bread Wheat Using Two Mapping Populations Derived from Common Parents. Genes, 2021, 12, 604.	2.4	7
84	The novel heptyl phorolic acid cannabinoids content in different Cannabis sativa L. accessions. Talanta, 2021, 235, 122704.	5.5	7
85	Characterization of Celiac Disease-Related Epitopes and Gluten Fractions, and Identification of Associated Loci in Durum Wheat. Agronomy, 2020, 10, 1231.	3.0	6
86	Influence of CNV on transcript levels of HvCBF genes at Fr-H2 locus revealed by resequencing in resistant barley cv. â€˜Nureâ€™ and expression analysis. Plant Science, 2020, 290, 110305.	3.6	5
87	Beneficial Effects of Eruca sativa Defatted Seed Meal on Visceral Pain and Intestinal Damage Resulting from Colitis in Rats. Foods, 2022, 11, 580.	4.3	4
88	Evaluation of Cucurbita pepo germplasm for staminate flower production and adaptation to the frozen food industry. Scientia Horticulturae, 2016, 213, 321-330.	3.6	3
89	Genetic variability among different Italian populations of the aphidMyzus persicae. Caryologia, 2006, 59, 326-333.	0.3	2
90	Haplotype structure around the nud locus in barley and its association with resistance to leaf stripe (Pyrenophora graminea). Plant Breeding, 2007, 126, 24-29.	1.9	2

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91	Genetic structure and proposed conservation strategy for natural populations of Calycanthus chinensis Cheng et S.Y. Chang (Calycanthaceae). Canadian Journal of Plant Science, 2008, 88, 179-186.	0.9	2
92	Nitrogen Use Efficiency in Durum Wheat (Triticum durum Desf.) Grown under Semiarid Conditions in Algeria. Agronomy, 2022, 12, 1284.	3.0	2
93	Detection of Singleâ€feature Polymorphisms (SFPs) between two tomato varieties and their application in defining the introgressions of resistance loci. Plant Breeding, 2015, 134, 226-232.	1.9	1
94	Brachypodium as a Model for Grass and Cereal Diseases. Plant Genetics and Genomics: Crops and Models, 2015, , 275-290.	0.3	0