Rosa Rao

List of Publications by Year
in descending order

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36 papers	1,207 citations	361413 20 h-index	377865 34 g-index
37 all docs	37 docs citations	37 times ranked	1444 citing authors

#	Article	IF	Citations
1	Transcriptome and Metabolome Reprogramming in Tomato Plants by Trichoderma harzianum strain T22 Primes and Enhances Defense Responses Against Aphids. Frontiers in Physiology, 2019, 10, 745.	2.8	116
2	Plant-to-plant communication mediating in-flight orientation of Aphidius ervi. Journal of Chemical Ecology, 2002, 28, 1703-1715.	1.8	88
3	Systemin Regulates Both Systemic and Volatile Signaling in Tomato Plants. Journal of Chemical Ecology, 2007, 33, 669-681.	1.8	76
4	Systemin-dependent salinity tolerance in tomato: evidence of specific convergence of abiotic and biotic stress responses. Physiologia Plantarum, 2010, 138, 10-21.	5.2	70
5	DNA Markers for Food Products Authentication. Diversity, 2014, 6, 579-596.	1.7	69
6	Molecular interactions between the olive and the fruit fly Bactrocera oleae. BMC Plant Biology, 2012, 12, 86.	3.6	65
7	Prosystemin Overexpression in Tomato Enhances Resistance to Different Biotic Stresses by Activating Genes of Multiple Signaling Pathways. Plant Molecular Biology Reporter, 2015, 33, 1270-1285.	1.8	56
8	Inducible Expression of a Phytolacca heterotepala Ribosome-Inactivating Protein Leads to Enhanced Resistance Against Major Fungal Pathogens in Tobacco. Phytopathology, 2005, 95, 206-215.	2.2	52
9	Plant-to-plant communication triggered by systemin primes anti-herbivore resistance in tomato. Scientific Reports, 2017, 7, 15522.	3.3	50
10	SNP genotyping reveals genetic diversity between cultivated landraces and contemporary varieties of tomato. BMC Genomics, 2013, 14, 835.	2.8	49
11	Genetic diversity in Italian tomato landraces: Implications for the development of a core collection. Scientia Horticulturae, 2014, 168, 138-144.	3.6	47
12	Relationships of Campanian olive cultivars: comparative analysis of molecular and phenotypic data. Genome, 2009, 52, 692-700.	2.0	41
13	Functional analysis of an immune gene of Spodoptera littoralis by RNAi. Journal of Insect Physiology, 2014, 64, 90-97.	2.0	40
14	DNA Fingerprinting and Quality Traits of Corbarino Cherry-like Tomato Landraces. Journal of Agricultural and Food Chemistry, 2004, 52, 3366-3371.	5.2	39
15	Morphological and genetic diversity among and within common bean (Phaseolus vulgaris L.) landraces from the Campania region (Southern Italy). Scientia Horticulturae, 2014, 180, 72-78.	3.6	37
16	Molecular and chemical mechanisms involved in aphid resistance in cultivated tomato. New Phytologist, 2010, 187, 1089-1101.	7.3	33
17	The transcriptional response to the olive fruit fly (Bactrocera oleae) reveals extended differences between tolerant and susceptible olive (Olea europaea L.) varieties. PLoS ONE, 2017, 12, e0183050.	2.5	32
18	Molecular diversity and genetic relationships of southern Italian olive cultivars as depicted by AFLP and morphological traits. Journal of Horticultural Science and Biotechnology, 2009, 84, 261-266.	1.9	31

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19	Tomato Plants Treated with Systemin Peptide Show Enhanced Levels of Direct and Indirect Defense Associated with Increased Expression of Defense-Related Genes. Plants, 2019, 8, 395.	3.5	28
20	Towards the Genomic Basis of Local Adaptation in Landraces. Diversity, 2017, 9, 51.	1.7	25
21	Molecular and Phenotypic Diversity of Traditional European Plum (Prunus domestica L.) Germplasm of Southern Italy. Sustainability, 2019, 11, 4112.	3.2	24
22	SSR fingerprint reveals mislabeling in commercial processed tomato products. Food Control, 2015, 51, 397-401.	5.5	20
23	Identification of zucchini varieties in commercial food products by DNA typing. Food Control, 2018, 84, 197-204.	5.5	18
24	Prosystemin, a prohormone that modulates plant defense barriers, is an intrinsically disordered protein. Protein Science, 2018, 27, 620-632.	7.6	16
25	The Application of Trichoderma Strains or Metabolites Alters the Olive Leaf Metabolome and the Expression of Defense-Related Genes. Journal of Fungi (Basel, Switzerland), 2020, 6, 369.	3.5	15
26	Systemin-inducible defence against pests is costly in tomato. Biologia Plantarum, 2011, 55, 305-311.	1.9	13
27	Diversity and Relationships among Neglected Apricot (Prunus armeniaca L.) Landraces Using Morphological Traits and SSR Markers: Implications for Agro-Biodiversity Conservation. Plants, 2021, 10, 1341.	3.5	12
28	The expression of the tomato prosystemin in tobacco induces alterations irrespective of its functional domain. Plant Cell, Tissue and Organ Culture, 2016, 125, 509-519.	2.3	11
29	De Novo Transcriptome Assembly of Cucurbita Pepo L. Leaf Tissue Infested by Aphis Gossypii. Data, 2018, 3, 36.	2.3	8
30	Colonization of Solanum melongena and Vitis vinifera Plants by Botrytis cinerea Is Strongly Reduced by the Exogenous Application of Tomato Systemin. Journal of Fungi (Basel, Switzerland), 2021, 7, 15.	3.5	8
31	Combination of the Systemin peptide with the beneficial fungus Trichoderma afroharzianum T22 improves plant defense responses against pests and diseases. Journal of Plant Interactions, 2022, 17, 569-579.	2.1	6
32	TPS Genes Silencing Alters Constitutive Indirect and Direct Defense in Tomato. International Journal of Molecular Sciences, 2018, 19, 2748.	4.1	5
33	Tomato Prosystemin Is Much More than a Simple Systemin Precursor. Biology, 2022, 11, 124.	2.8	3
34	Not Only Systemin: Prosystemin Harbors Other Active Regions Able to Protect Tomato Plants. Frontiers in Plant Science, 2022, 13, .	3.6	2
35	Development and Yield Traits Indicate That the Constitutive Wound Response Phenotype of Prosystemin Overexpressing Tomato Plants Entails No Fitness Penalty. Agronomy, 2021, 11, 1148.	3.0	0
36	Genotypic diversity and population structure of the apricot landraces of the Campania region (Southern Italy) based on fluorescent SSRs. Genetic Resources and Crop Evolution, 0, , .	1.6	0