Elena Prats

List of Publications by Year
in descending order

63 papers	3,364 citations	159585 30 h-index	144013 57 g-index
64 all docs	64 docs citations	64 times ranked	4303 citing authors

#	Article	IF	Citations
1	Breeding oat for resistance to the crown rust pathogen Puccinia coronata f. sp. avenae: achievements and prospects. Theoretical and Applied Genetics, 2022, 135, 3709-3734.	3.6	5
2	Drought resistance in oat involves ABA-mediated modulation of transpiration and root hydraulic conductivity. Environmental and Experimental Botany, 2021, 182, 104333.	4.2	18
3	Population genomics of Mediterranean oat (A. sativa) reveals high genetic diversity and three loci for heading date. Theoretical and Applied Genetics, 2021, 134, 2063-2077.	3.6	10
4	Genomic prediction and training set optimization in a structured Mediterranean oat population. Theoretical and Applied Genetics, 2021, 134, 3595-3609.	3.6	12
5	Deciphering Main Climate and Edaphic Components Driving Oat Adaptation to Mediterranean Environments. Frontiers in Plant Science, 2021, 12, 780562.	3.6	3
6	RUST: A Robust, User-Friendly Script Tool for Rapid Measurement of Rust Disease on Cereal Leaves. Plants, 2020, 9, 1182.	3.5	8
7	Genomic Approaches for Climate Resilience Breeding in Oats. , 2020, , 133-169.		9
8	Salicylic acid regulates polyamine biosynthesis during drought responses in oat. Plant Signaling and Behavior, 2019, 14, e1651183.	2.4	24
9	Deciphering Root Architectural Traits Involved to Cope With Water Deficit in Oat. Frontiers in Plant Science, 2019, 10, 1558.	3.6	19
10	Multi-Environmental Trials Reveal Genetic Plasticity of Oat Agronomic Traits Associated With Climate Variable Changes. Frontiers in Plant Science, 2018, 9, 1358.	3.6	12
11	Fatty Acid Profile Changes During Gradual Soil Water Depletion in Oats Suggests a Role for Jasmonates in Coping With Drought. Frontiers in Plant Science, 2018, 9, 1077.	3.6	69
12	Quantum Cascade Lasers-Based Detection of Nitric Oxide. Methods in Molecular Biology, 2018, 1747, 49-57.	0.9	2
13	Cytoskeleton reorganization/disorganization is a key feature of induced inaccessibility for defence to successive pathogen attacks. Molecular Plant Pathology, 2017, 18, 662-671.	4.2	7
14	Higher rust resistance and similar yield of oat landraces versus cultivars under high temperature and drought. Agronomy for Sustainable Development, 2017, 37, 1.	5.3	31
15	Reduced nitric oxide levels during drought stress promote drought tolerance in barley and is associated with elevated polyamine biosynthesis. Scientific Reports, 2017, 7, 13311.	3.3	79
16	Assessment of field pea (Pisum sativum L.) grain yield, aerial biomass and flowering date stability in Mediterranean environments. Crop and Pasture Science, 2017, 68, 915.	1.5	13
17	Chromatographic Methods to Evaluate Nutritional Quality in Oat. Methods in Molecular Biology, 2017, 1536, 115-125.	0.9	3
18	Compromised Photosynthetic Electron Flow and H2O2 Generation Correlate with Genotype-Specific Stomatal Dysfunctions during Resistance against Powdery Mildew in Oats. Frontiers in Plant Science, 2016, 7, 1660.	3.6	4

#	ARTICLE	IF	CITATIONS
19	Free polyamine and polyamine regulation during preâ€penetration and penetration resistance events in oat against crown rust (<i>Puccinia coronata</i> f. sp. <i>avenae</i>). Plant Pathology, 2016, 65, 392-401.	2.4	16
20	BTH and BABA induce resistance in pea against rust (Uromyces pisi) involving differential phytoalexin accumulation. Planta, 2015, 242, 1095-1106.	3.2	26
21	A metabolomic study in oats (<scp><i>A</i></scp><i>vena sativa</i>) highlights a drought tolerance mechanism based upon salicylate signalling pathways and the modulation of carbon, antioxidant and photoâ€oxidative metabolism. Plant, Cell and Environment, 2015, 38, 1434-1452.	5.7	73
22	Genome-wide association study for crown rust (Puccinia coronata f. sp. avenae) and powdery mildew (Blumeria graminis f. sp. avenae) resistance in an oat (Avena sativa) collection of commercial varieties and landraces. Frontiers in Plant Science, 2015, 6, 103.	3.6	43
23	Quantitative Trait Loci Associated to Drought Adaptation in Pea (Pisum sativum L.). Plant Molecular Biology Reporter, 2015, 33, 1768-1778.	1.8	51
24	Abiotic Stress Responses in Legumes: Strategies Used toÂCope with Environmental Challenges. Critical Reviews in Plant Sciences, 2015, 34, 237-280.	5.7	212
25	Resistance to rusts (Uromyces pisi and U. viciae-fabae) in pea. Czech Journal of Genetics and Plant Breeding, 2014, 50, 135-143.	0.8	13
26	Changes in polyamine profile in host and non-host oatâ€“powdery mildew interactions. Phytochemistry Letters, 2014, 8, 207-212.	1.2	10
27	Quantum Dot and Superparamagnetic Nanoparticle Interaction with Pathogenic Fungi: Internalization and Toxicity Profile. ACS Applied Materials & Interfaces, 2014, 6, 9100-9110.	8.0	71
28	Adaptation of oat (Avena sativa) cultivars to autumn sowings in Mediterranean environments. Field Crops Research, 2014, 156, 111-122.	5.1	44
29	Genetic Diversity and Population Structure Among Oat Cultivars and Landraces. Plant Molecular Biology Reporter, 2013, 31, 1305-1314.	1.8	55
30	Stomatal lockâ€up following pathogenic challenge: source or symptom of costs of resistance in crops?. Plant Pathology, 2013, 62, 72-82.	2.4	13
31	Integrating nitric oxide into salicylic acid and jasmonic acid/ ethylene plant defense pathways. Frontiers in Plant Science, 2013, 4, 215.	3.6	167
32	Targeting sources of drought tolerance within an Avena spp. collection through multivariate approaches. Planta, 2012, 236, 1529-1545.	3.2	18
33	Identification and characterization of sources of resistance in <i>Avena sativa</i>, <i>A.Âbyzantina</i> and <i>A.Âstrigosa</i> germplasm against a pathotype of <i>Puccinia coronata</i> f.sp. <i>avenae</i> with virulence against the <i>Pc94</i> resistance gene. Plant Pathology, 2012, 61, 315-322.	2.4	22
34	Methods of nitric oxide detection in plants: A commentary. Plant Science, 2011, 181, 509-519.	3.6	119
35	Resistance to powdery mildew (<i>Blumeria graminis</i> f.sp. <i>avenae</i>) in oat seedlings and adult plants. Plant Pathology, 2011, 60, 846-856.	2.4	35
36	Blumeria graminis Interactions with Barley Conditioned by Different Single R Genes Demonstrate a Temporal and Spatial Relationship Between Stomatal Dysfunction and Cell Death. Phytopathology, 2010, 100, 21-32.	2.2	13

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37	Benzothiadiazole and BABA improve resistance to Uromyces pisi (Pers.) Wint. in Pisum sativum L. with an enhancement of enzymatic activities and total phenolic content. European Journal of Plant Pathology, 2010, 128, 483-493.	1.7	40
38	Parasitic plant infection is partially controlled through symbiotic pathways. Weed Research, 2010, 50, 76-82.	1.7	21
39	Proteomics of Plant Pathogenic Fungi. Journal of Biomedicine and Biotechnology, 2010, 2010, 1-36.	3.0	127
40	Model legumes contribute to faba bean breeding. Field Crops Research, 2010, 115, 253-269.	5.1	64
41	Breeding approaches for crenate broomrape (<i>Orobanche crenata</i> Forsk.) management in pea (<i>Pisum sativum</i> L.). Pest Management Science, 2009, 65, 553-559.	3.4	71
42	Characterization of Resistance Mechanisms to Powdery Mildew (Erysiphe betae) in Beet (Beta) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	2.2	10
43	Variability of interactions between barrel medic (<i>Medicago truncatula</i>) genotypes and <i>Orobanche </i>species. Annals of Applied Biology, 2008, 153, 117-126.	2.5	35
44	Pathogen-derived nitric oxide influences formation of the appressorium infection structure in the phytopathogenic fungus Blumeria graminis. Research in Microbiology, 2008, 159, 476-480.	2.1	67
45	The hypersensitive response; the centenary is upon us but how much do we know?. Journal of Experimental Botany, 2008, 59, 501-520.	4.8	597
46	Enemy at the Gates. Plant Signaling and Behavior, 2007, 2, 275-277.	2.4	16
47	<i>Medicago truncatula</i> as a Model for Nonhost Resistance in Legume-Parasitic Plant Interactions. Plant Physiology, 2007, 145, 437-449.	4.8	52
48	Effects of Phenylpropanoid and Energetic Metabolism Inhibition on Faba Bean Resistance Mechanisms to Rust. Phytopathology, 2007, 97, 60-65.	2.2	14
49	Differential Effects of Phenylalanine Ammonia Lyase, Cinnamyl Alcohol Dehydrogenase, and Energetic Metabolism Inhibition on Resistance of Appropriate Host and Nonhost Cerealâ€"Rust Interactions. Phytopathology, 2007, 97, 1578-1583.	2.2	17
50	Characterization of Resistance Mechanisms to <i>Erysiphe pisi</i> in <i>Medicago truncatula</i>. Phytopathology, 2007, 97, 1049-1053.	2.2	29
51	Constitutive Coumarin Accumulation on Sunflower Leaf Surface Prevents Rust Germ Tube Growth and Appressorium Differentiation. Crop Science, 2007, 47, 1119-1124.	1.8	33
52	Plant resistance to parasitic plants: molecular approaches to an old foe. New Phytologist, 2007, 173, 703-712.	7.3	89
53	Antifungal Activity of a New Phenolic Compound from Capitulum of a Head Rot-resistant Sunflower Genotype. Journal of Chemical Ecology, 2007, 33, 2245-2253.	1.8	24
54	NO way to live; the various roles of nitric oxide in plantâ€"pathogen interactions. Journal of Experimental Botany, 2006, 57, 489-505.	4.8	207

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55	Cellular basis of resistance to different formae speciales of<i>Blumeria graminis</i>in<i>Hordeum chilense</i>, wheat, and tritordeum and agroticum amphiloids. Canadian Journal of Plant Pathology, 2006, 28, 577-587.	1.4	3
56	Induced inaccessibility and accessibility in the oat powdery mildew system: insights gained from use of metabolic inhibitors and silicon nutrition. Molecular Plant Pathology, 2006, 7, 47-59.	4.2	9
57	Fungitoxic effect of scopolin and related coumarins on Sclerotinia sclerotiorum. A way to overcome sunflower head rot. Euphytica, 2006, 147, 451-460.	1.2	44
58	Biotechnology approaches to overcome biotic and abiotic stress constraints in legumes. Euphytica, 2006, 147, 1-24.	1.2	214
59	Stomatal lock-open, a consequence of epidermal cell death, follows transient suppression of stomatal opening in barley attacked by Blumeria graminis. Journal of Experimental Botany, 2006, 57, 2211-2226.	4.8	58
60	Nitric oxide contributes both to papilla-based resistance and the hypersensitive response in barley attacked byBlumeria graminisf. sp.hordei. Molecular Plant Pathology, 2005, 6, 65-78.	4.2	87
61	Title is missing!. Euphytica, 2003, 132, 321-329.	1.2	31
62	Acibenzolar- S -methyl-induced resistance to sunflower rust (Puccinia helianthi) is associated with an enhancement of coumarins on foliar surface. Physiological and Molecular Plant Pathology, 2002, 60, 155-162.	2.5	65
63	AGRONOMIC ASPECTS OF THE SUNFLOWER 7-HYDROXYLATED SIMPLE COUMARINS / ASPECTOS AGRONÃ“MICOS DE LAS CUMARINAS SIMPLES 7- HIDROXILADAS EN GIRASOL / ASPECTS AGRONOMIQUES DE 7 COUMARINES HYDROXYLES SIMPLES CHEZ LE TOURNESOL. Helia, 2000, 23, 105-112.	0.4	7