

# Elena Prats

## List of Publications by Year in descending order

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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	The hypersensitive response; the centenary is upon us but how much do we know?. <i>Journal of Experimental Botany</i> , 2008, 59, 501-520.	4.8	597
2	Biotechnology approaches to overcome biotic and abiotic stress constraints in legumes. <i>Euphytica</i> , 2006, 147, 1-24.	1.2	214
3	Abiotic Stress Responses in Legumes: Strategies Used to Cope with Environmental Challenges. <i>Critical Reviews in Plant Sciences</i> , 2015, 34, 237-280.	5.7	212
4	NO way to live; the various roles of nitric oxide in plant-pathogen interactions. <i>Journal of Experimental Botany</i> , 2006, 57, 489-505.	4.8	207
5	Integrating nitric oxide into salicylic acid and jasmonic acid/ ethylene plant defense pathways. <i>Frontiers in Plant Science</i> , 2013, 4, 215.	3.6	167
6	Proteomics of Plant Pathogenic Fungi. <i>Journal of Biomedicine and Biotechnology</i> , 2010, 2010, 1-36.	3.0	127
7	Methods of nitric oxide detection in plants: A commentary. <i>Plant Science</i> , 2011, 181, 509-519.	3.6	119
8	Plant resistance to parasitic plants: molecular approaches to an old foe. <i>New Phytologist</i> , 2007, 173, 703-712.	7.3	89
9	Nitric oxide contributes both to papilla-based resistance and the hypersensitive response in barley attacked by <i>Blumeria graminis</i> sp. <i>hordei</i> . <i>Molecular Plant Pathology</i> , 2005, 6, 65-78.	4.2	87
10	Reduced nitric oxide levels during drought stress promote drought tolerance in barley and is associated with elevated polyamine biosynthesis. <i>Scientific Reports</i> , 2017, 7, 13311.	3.3	79
11	A metabolomic study in oats ( <i>Avena sativa</i> ) highlights a drought tolerance mechanism based upon salicylate signalling pathways and the modulation of carbon, antioxidant and photooxidative metabolism. <i>Plant, Cell and Environment</i> , 2015, 38, 1434-1452.	5.7	73
12	Breeding approaches for crenate broomrape ( <i>Orobanche crenata</i> Forsk.) management in pea ( <i>Pisum sativum</i> L.). <i>Pest Management Science</i> , 2009, 65, 553-559.	3.4	71
13	Quantum Dot and Superparamagnetic Nanoparticle Interaction with Pathogenic Fungi: Internalization and Toxicity Profile. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 9100-9110.	8.0	71
14	Fatty Acid Profile Changes During Gradual Soil Water Depletion in Oats Suggests a Role for Jasmonates in Coping With Drought. <i>Frontiers in Plant Science</i> , 2018, 9, 1077.	3.6	69
15	Pathogen-derived nitric oxide influences formation of the appressorium infection structure in the phytopathogenic fungus <i>Blumeria graminis</i> . <i>Research in Microbiology</i> , 2008, 159, 476-480.	2.1	67
16	Acibenzolar-S-methyl-induced resistance to sunflower rust ( <i>Puccinia helianthi</i> ) is associated with an enhancement of coumarins on foliar surface. <i>Physiological and Molecular Plant Pathology</i> , 2002, 60, 155-162.	2.5	65
17	Model legumes contribute to faba bean breeding. <i>Field Crops Research</i> , 2010, 115, 253-269.	5.1	64
18	Stomatal lock-open, a consequence of epidermal cell death, follows transient suppression of stomatal opening in barley attacked by <i>Blumeria graminis</i> . <i>Journal of Experimental Botany</i> , 2006, 57, 2211-2226.	4.8	58

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19	Genetic Diversity and Population Structure Among Oat Cultivars and Landraces. <i>Plant Molecular Biology Reporter</i> , 2013, 31, 1305-1314.	1.8	55
20	<i>Medicago truncatula</i> as a Model for Nonhost Resistance in Legume-Parasitic Plant Interactions. <i>Plant Physiology</i> , 2007, 145, 437-449.	4.8	52
21	Quantitative Trait Loci Associated to Drought Adaptation in Pea ( <i>Pisum sativum</i> L.). <i>Plant Molecular Biology Reporter</i> , 2015, 33, 1768-1778.	1.8	51
22	Fungitoxic effect of scopolin and related coumarins on <i>Sclerotinia sclerotiorum</i> . A way to overcome sunflower head rot. <i>Euphytica</i> , 2006, 147, 451-460.	1.2	44
23	Adaptation of oat ( <i>Avena sativa</i> ) cultivars to autumn sowings in Mediterranean environments. <i>Field Crops Research</i> , 2014, 156, 111-122.	5.1	44
24	Genome-wide association study for crown rust ( <i>Puccinia coronata</i> f. sp. <i>avenae</i> ) and powdery mildew ( <i>Blumeria graminis</i> f. sp. <i>avenae</i> ) resistance in an oat ( <i>Avena sativa</i> ) collection of commercial varieties and landraces. <i>Frontiers in Plant Science</i> , 2015, 6, 103.	3.6	43
25	Benzothiadiazole and BABA improve resistance to <i>Uromyces pisi</i> (Pers.) Wint. in <i>Pisum sativum</i> L. with an enhancement of enzymatic activities and total phenolic content. <i>European Journal of Plant Pathology</i> , 2010, 128, 483-493.	1.7	40
26	Variability of interactions between barrel medic ( <i>Medicago truncatula</i> ) genotypes and <i>Orobanche</i> species. <i>Annals of Applied Biology</i> , 2008, 153, 117-126.	2.5	35
27	Resistance to powdery mildew ( <i>Blumeria graminis</i> f.sp. <i>avenae</i> ) in oat seedlings and adult plants. <i>Plant Pathology</i> , 2011, 60, 846-856.	2.4	35
28	Constitutive Coumarin Accumulation on Sunflower Leaf Surface Prevents Rust Germ Tube Growth and Appressorium Differentiation. <i>Crop Science</i> , 2007, 47, 1119-1124.	1.8	33
29	Title is missing!. <i>Euphytica</i> , 2003, 132, 321-329.	1.2	31
30	Higher rust resistance and similar yield of oat landraces versus cultivars under high temperature and drought. <i>Agronomy for Sustainable Development</i> , 2017, 37, 1.	5.3	31
31	Characterization of Resistance Mechanisms to <i>Erysiphe pisi</i> in <i>Medicago truncatula</i> . <i>Phytopathology</i> , 2007, 97, 1049-1053.	2.2	29
32	BTH and BABA induce resistance in pea against rust ( <i>Uromyces pisi</i> ) involving differential phytoalexin accumulation. <i>Planta</i> , 2015, 242, 1095-1106.	3.2	26
33	Antifungal Activity of a New Phenolic Compound from Capitulum of a Head Rot-resistant Sunflower Genotype. <i>Journal of Chemical Ecology</i> , 2007, 33, 2245-2253.	1.8	24
34	Salicylic acid regulates polyamine biosynthesis during drought responses in oat. <i>Plant Signaling and Behavior</i> , 2019, 14, e1651183.	2.4	24
35	Identification and characterization of sources of resistance in <i>Avena sativa</i> , <i>A. byzantina</i> and <i>A. strigosa</i> germplasm against a pathotype of <i>Puccinia coronata</i> f.sp. <i>avenae</i> with virulence against the <i>Pc94</i> resistance gene. <i>Plant Pathology</i> , 2012, 61, 315-322.	2.4	22
36	Parasitic plant infection is partially controlled through symbiotic pathways. <i>Weed Research</i> , 2010, 50, 76-82.	1.7	21

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37	Deciphering Root Architectural Traits Involved to Cope With Water Deficit in Oat. <i>Frontiers in Plant Science</i> , 2019, 10, 1558.	3.6	19
38	Targeting sources of drought tolerance within an <i>Avena</i> spp. collection through multivariate approaches. <i>Planta</i> , 2012, 236, 1529-1545.	3.2	18
39	Drought resistance in oat involves ABA-mediated modulation of transpiration and root hydraulic conductivity. <i>Environmental and Experimental Botany</i> , 2021, 182, 104333.	4.2	18
40	Differential Effects of Phenylalanine Ammonia Lyase, Cinnamyl Alcohol Dehydrogenase, and Energetic Metabolism Inhibition on Resistance of Appropriate Host and Nonhost Cereals to Rust Interactions. <i>Phytopathology</i> , 2007, 97, 1578-1583.	2.2	17
41	Enemy at the Gates. <i>Plant Signaling and Behavior</i> , 2007, 2, 275-277.	2.4	16
42	Free polyamine and polyamine regulation during pre-penetration and penetration resistance events in oat against crown rust ( <i>Puccinia coronata</i> f. sp. <i>avenae</i> ). <i>Plant Pathology</i> , 2016, 65, 392-401.	2.4	16
43	Effects of Phenylpropanoid and Energetic Metabolism Inhibition on Faba Bean Resistance Mechanisms to Rust. <i>Phytopathology</i> , 2007, 97, 60-65.	2.2	14
44	<i>Blumeria graminis</i> Interactions with Barley Conditioned by Different Single R Genes Demonstrate a Temporal and Spatial Relationship Between Stomatal Dysfunction and Cell Death. <i>Phytopathology</i> , 2010, 100, 21-32.	2.2	13
45	Stomatal lock-up following pathogenic challenge: source or symptom of costs of resistance in crops?. <i>Plant Pathology</i> , 2013, 62, 72-82.	2.4	13
46	Resistance to rusts ( <i>Uromyces pisi</i> and <i>U. viciae-fabae</i> ) in pea. <i>Czech Journal of Genetics and Plant Breeding</i> , 2014, 50, 135-143.	0.8	13
47	Assessment of field pea ( <i>Pisum sativum</i> L.) grain yield, aerial biomass and flowering date stability in Mediterranean environments. <i>Crop and Pasture Science</i> , 2017, 68, 915.	1.5	13
48	Multi-Environmental Trials Reveal Genetic Plasticity of Oat Agronomic Traits Associated With Climate Variable Changes. <i>Frontiers in Plant Science</i> , 2018, 9, 1358.	3.6	12
49	Genomic prediction and training set optimization in a structured Mediterranean oat population. <i>Theoretical and Applied Genetics</i> , 2021, 134, 3595-3609.	3.6	12
50	Characterization of Resistance Mechanisms to Powdery Mildew ( <i>Erysiphe betae</i> ) in Beet ( <i>Beta</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	2.2	10
51	Changes in polyamine profile in host and non-host oat-powdery mildew interactions. <i>Phytochemistry Letters</i> , 2014, 8, 207-212.	1.2	10
52	Population genomics of Mediterranean oat ( <i>A. sativa</i> ) reveals high genetic diversity and three loci for heading date. <i>Theoretical and Applied Genetics</i> , 2021, 134, 2063-2077.	3.6	10
53	Induced inaccessibility and accessibility in the oat powdery mildew system: insights gained from use of metabolic inhibitors and silicon nutrition. <i>Molecular Plant Pathology</i> , 2006, 7, 47-59.	4.2	9
54	Genomic Approaches for Climate Resilience Breeding in Oats. , 2020, , 133-169.		9

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55	RUST: A Robust, User-Friendly Script Tool for Rapid Measurement of Rust Disease on Cereal Leaves. <i>Plants</i> , 2020, 9, 1182.	3.5	8
56	Cytoskeleton reorganization/disorganization is a key feature of induced inaccessibility for defence to successive pathogen attacks. <i>Molecular Plant Pathology</i> , 2017, 18, 662-671.	4.2	7
57	AGRONOMIC ASPECTS OF THE SUNFLOWER 7-HYDROXYLATED SIMPLE COUMARINS / ASPECTOS AGRONÓMICOS DE LAS CUMARINAS SIMPLES 7- HIDROXILADAS EN GIRASOL / ASPECTS AGRONOMIQUES DE 7 COUMARINES HYDROXYLES SIMPLES CHEZ LE TOURNESOL. <i>Helia</i> , 2000, 23, 105-112.	0.4	7
58	Breeding oat for resistance to the crown rust pathogen <i>Puccinia coronata</i> f. sp. <i>avenae</i> : achievements and prospects. <i>Theoretical and Applied Genetics</i> , 2022, 135, 3709-3734.	3.6	5
59	Compromised Photosynthetic Electron Flow and H <sub>2</sub> O <sub>2</sub> Generation Correlate with Genotype-Specific Stomatal Dysfunctions during Resistance against Powdery Mildew in Oats. <i>Frontiers in Plant Science</i> , 2016, 7, 1660.	3.6	4
60	Cellular basis of resistance to different formae speciales of <i>Blumeria graminis</i> in <i>Hordeum chilense</i> , wheat, and tritordeum and agroticum amphiploids. <i>Canadian Journal of Plant Pathology</i> , 2006, 28, 577-587.	1.4	3
61	Chromatographic Methods to Evaluate Nutritional Quality in Oat. <i>Methods in Molecular Biology</i> , 2017, 1536, 115-125.	0.9	3
62	Deciphering Main Climate and Edaphic Components Driving Oat Adaptation to Mediterranean Environments. <i>Frontiers in Plant Science</i> , 2021, 12, 780562.	3.6	3
63	Quantum Cascade Lasers-Based Detection of Nitric Oxide. <i>Methods in Molecular Biology</i> , 2018, 1747, 49-57.	0.9	2