

Maria Herrero

List of Publications by Year in descending order

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85
papers

4,529
citations

94433

37
h-index

110387

64
g-index

85
all docs

85
docs citations

85
times ranked

3572
citing authors

#	ARTICLE	IF	CITATIONS
1	Glycoprotein composition along the pistil of <i>Malus x domestica</i> and the modulation of pollen tube growth. <i>BMC Plant Biology</i> , 2014, 14, 1.	3.6	524
2	Global warming and sexual plant reproduction. <i>Trends in Plant Science</i> , 2009, 14, 30-36.	8.8	458
3	The "effective pollination period" in fruit trees. <i>Scientia Horticulturae</i> , 2001, 90, 1-17.	3.6	160
4	Pistil strategies controlling pollen tube growth. <i>Sexual Plant Reproduction</i> , 1996, 9, 343-347.	2.2	135
5	Effect of temperature on pollen tube kinetics and dynamics in sweet cherry, <i>Prunus avium</i> (Rosaceae). <i>American Journal of Botany</i> , 2004, 91, 558-564.	1.7	123
6	The Effect of Temperature on Pollen Germination, Pollen Tube Growth, and Stigmatic Receptivity in Peach. <i>Plant Biology</i> , 2005, 7, 476-483.	3.8	123
7	Effects of pre-blossom temperatures on flower development and fruit set in apricot. <i>Scientia Horticulturae</i> , 2002, 92, 125-135.	3.6	120
8	The effect of temperature on stigmatic receptivity in sweet cherry (<i>Prunus avium</i> L.). <i>Plant, Cell and Environment</i> , 2003, 26, 1673-1680.	5.7	105
9	Influence of genotype-temperature interaction on pollen performance. <i>Journal of Evolutionary Biology</i> , 2005, 18, 1494-1502.	1.7	94
10	Male and female synchrony and the regulation of mating in flowering plants. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2003, 358, 1019-1024.	4.0	91
11	INFLUENCE OF THE PISTIL ON POLLEN TUBE KINETICS IN PEACH (<i>PRUNUS PERSICA</i>). <i>American Journal of Botany</i> , 1989, 76, 1441-1447.	1.7	88
12	Pollen selection. <i>Theoretical and Applied Genetics</i> , 1992, 83-83, 663-672.	3.6	82
13	Dynamics of pollen tube growth under different competition regimes. <i>Sexual Plant Reproduction</i> , 1996, 9, 153-160.	2.2	81
14	Graft establishment between compatible and incompatible <i>Prunus</i> spp. <i>Journal of Experimental Botany</i> , 1994, 45, 393-401.	4.8	73
15	Stamen development and winter dormancy in apricot (<i>Prunus armeniaca</i>). <i>Annals of Botany</i> , 2011, 108, 617-625.	2.9	72
16	From pollination to fertilization in fruit trees. <i>Plant Growth Regulation</i> , 1992, 11, 27-32.	3.4	68
17	Assessing allergen levels in peach and nectarine cultivars. <i>Annals of Allergy, Asthma and Immunology</i> , 2007, 99, 42-47.	1.0	68
18	Pollen tube growth following compatible and incompatible intraspecific pollinations in <i>Petunia hybrida</i> . <i>Planta</i> , 1980, 148, 217-221.	3.2	67

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19	Influence of intraovular reserves on ovule fate in apricot (<i>Prunus armeniaca</i> L.). <i>Sexual Plant Reproduction</i> , 1998, 11, 86-93.	2.2	65
20	Ovary starch reserves and flower development in apricot (<i>Prunus armeniaca</i>). <i>Physiologia Plantarum</i> , 2000, 108, 35-41.	5.2	62
21	Seedless fruits and the disruption of a conserved genetic pathway in angiosperm ovule development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 5461-5465.	7.1	62
22	The Significance of the Obturator in the Control of Pollen Tube Entry into the Ovary in Peach (<i>Prunus persica</i>). <i>Annals of Botany</i> , 1987, 60, 681-685.	2.9	61
23	Stigmatic Receptivity Limits The Effective Pollination Period In Kiwifruit. <i>Journal of the American Society for Horticultural Science</i> , 1995, 120, 199-202.	1.0	58
24	Influence of the Pistil on Pollen Tube Kinetics in Peach (<i>Prunus persica</i>). <i>American Journal of Botany</i> , 1989, 76, 1441.	1.7	55
25	Pollen germination of cherimoya (<i>Annona cherimola</i> Mill.).. <i>Scientia Horticulturae</i> , 1999, 81, 251-265.	3.6	51
26	Changes in the Ovary Related to Pollen Tube Guidance. <i>Annals of Botany</i> , 2000, 85, 79-85.	2.9	51
27	Influence of pollination systems on fruit set and fruit quality in kiwifruit (<i>Actinidia deliciosa</i>). <i>Annals of Applied Biology</i> , 1998, 132, 349-355.	2.5	49
28	Dormant Flower Buds Actively Accumulate Starch over Winter in Sweet Cherry. <i>Frontiers in Plant Science</i> , 2018, 9, 171.	3.6	48
29	Asynchronous development of stigmatic receptivity in the pear (<i>Pyrus communis</i> ; Rosaceae) flower. <i>American Journal of Botany</i> , 2003, 90, 78-84.	1.7	47
30	Male gametophytic selection as a plant breeding tool. <i>Scientia Horticulturae</i> , 1996, 65, 321-333.	3.6	46
31	Ovary signals for directional pollen tube growth. <i>Sexual Plant Reproduction</i> , 2001, 14, 3-7.	2.2	46
32	The Diversity of the Pollen Tube Pathway in Plants: Toward an Increasing Control by the Sporophyte. <i>Frontiers in Plant Science</i> , 2016, 7, 107.	3.6	46
33	Development of the ovular structures in peach [<i>Prunus persica</i> (L.) Batsch]. <i>New Phytologist</i> , 1991, 118, 527-533.	7.3	44
34	Pollen performance as affected by the pistilar genotype in sweet cherry (<i>Prunus avium</i> L.). <i>Protoplasma</i> , 1999, 208, 129-135.	2.1	43
35	Arabinogalactan-protein secretion is associated with the acquisition of stigmatic receptivity in the apple flower. <i>Annals of Botany</i> , 2012, 110, 573-584.	2.9	43
36	Identification of self-incompatibility alleles in pear cultivars (<i>Pyrus communis</i> L.). <i>Euphytica</i> , 2002, 128, 325-331.	1.2	42

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37	The transition from somatic to germline identity shows conserved and specialized features during angiosperm evolution. <i>New Phytologist</i> , 2017, 216, 495-509.	7.3	41
38	Papillar integrity as an indicator of stigmatic receptivity in kiwifruit (<i>Actinidia deliciosa</i>). <i>Journal of Experimental Botany</i> , 1995, 46, 263-269.	4.8	39
39	Gametophytic competition and selection. <i>Advances in Cellular and Molecular Biology of Plants</i> , 1994, , 372-400.	0.2	38
40	Pistil traits and flower fate in apricot (<i>Prunus armeniaca</i>). <i>Annals of Applied Biology</i> , 2009, 154, 365-375.	2.5	36
41	Stigmatic receptivity in a dichogamous early-divergent angiosperm species, <i>Annona cherimola</i> (Annonaceae): Influence of temperature and humidity. <i>American Journal of Botany</i> , 2011, 98, 265-274.	1.7	36
42	Is there a specific stage to rest? Morphological changes in flower primordia in relation to endodormancy in sweet cherry (<i>Prunus avium</i> L.). <i>Trees - Structure and Function</i> , 2018, 32, 1583-1594.	1.9	36
43	Pollen-pistil interaction in kiwifruit (<i>Actinidia deliciosa</i> ; Actinidiaceae). <i>American Journal of Botany</i> , 1996, 83, 148-154.	1.7	35
44	Pollen development in <i>Annona cherimola</i> Mill. (Annonaceae). Implications for the evolution of aggregated pollen. <i>BMC Plant Biology</i> , 2009, 9, 129.	3.6	35
45	The coexistence of bicellular and tricellular pollen in <i>Annona cherimola</i> (Annonaceae): Implications for pollen evolution. <i>American Journal of Botany</i> , 2009, 96, 802-808.	1.7	35
46	Male-female interaction and temperature variation affect pollen performance in Citrus. <i>Scientia Horticulturae</i> , 2012, 140, 1-7.	3.6	35
47	Prolongation of Embryo Sac Viability in Pear (<i>Pyrus communis</i>) Following Pollination or Treatment with Gibberellic Acid. <i>Annals of Botany</i> , 1987, 60, 287-293.	2.9	32
48	Flower bud differentiation and development in fruiting and non-fruiting shoots in relation to fruit set in apricot (<i>Prunus armeniaca</i> L.). <i>Trees - Structure and Function</i> , 2010, 24, 833-841.	1.9	32
49	The progamic phase of an early-divergent angiosperm, <i>Annona cherimola</i> (Annonaceae). <i>Annals of Botany</i> , 2010, 105, 221-231.	2.9	31
50	Identification of the ligand of Pru p 3, a peach LTP. <i>Plant Molecular Biology</i> , 2017, 94, 33-44.	3.9	31
51	Pollen Tube Behavior in Different Mandarin Hybrids. <i>Journal of the American Society for Horticultural Science</i> , 2009, 134, 583-588.	1.0	31
52	Optimizing Production in the New Generation of Apricot Cultivars: Self-incompatibility, S-RNase Allele Identification, and Incompatibility Group Assignment. <i>Frontiers in Plant Science</i> , 2018, 9, 527.	3.6	30
53	Ultrastructural and physiological differences between buds and mature flowers of <i>Petunia hybrida</i> prior to and following pollination. <i>Planta</i> , 1980, 148, 138-145.	3.2	29
54	Flower emasculation accelerates ovule degeneration and reduces fruit set in sweet cherry. <i>Scientia Horticulturae</i> , 2009, 119, 455-457.	3.6	29

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55	Anther meiosis time is related to winter cold temperatures in apricot (<i>Prunus armeniaca</i> L.). <i>Environmental and Experimental Botany</i> , 2014, 100, 20-25.	4.2	29
56	Pollen–pistil interactions and early fruiting in parthenocarpic citrus. <i>Annals of Botany</i> , 2011, 108, 499-509.	2.9	27
57	Evaluation of pollination as the cause of erratic fruit set in apricot ‘Moniqui’™. <i>The Journal of Horticultural Science</i> , 1996, 71, 801-805.	0.3	26
58	Transition from two to one integument in <i>Prunus</i> species: expression pattern of <i>INNER NO OUTER</i> , <i>INO</i> , <i>ABERRANT TESTA SHAPE</i> and <i>ATS</i> and <i>ETTIN</i> (<i>ETT</i>). <i>New Phytologist</i> , 2015, 208, 584-595.	7.3	26
59	Pollen performance, cell number, and physiological state in the early-divergent angiosperm <i>Annona cherimola</i> Mill. (Annonaceae) are related to environmental conditions during the final stages of pollen development. <i>Sexual Plant Reproduction</i> , 2012, 25, 157-167.	2.2	25
60	Anther and pollen development in sweet cherry (<i>Prunus avium</i> L.) in relation to winter dormancy. <i>Protoplasma</i> , 2019, 256, 733-744.	2.1	25
61	Pollinator selection in kiwifruit (<i>Actinidia deliciosa</i>). <i>The Journal of Horticultural Science</i> , 1994, 69, 697-702.	0.3	24
62	Genomic characterization of self-incompatibility ribonucleases (S-RNases) in loquat (<i>Eriobotrya</i>). <i>Journal of Experimental Botany</i> , 2010, 51, 107-116.	2.1	21
63	Microspore development in <i>Annona</i> (Annonaceae): Differences between monad and tetrad pollen. <i>American Journal of Botany</i> , 2014, 101, 1508-1518.	1.7	21
64	Starch determination in plant tissues using a computerized image analysis system. <i>Physiologia Plantarum</i> , 1997, 99, 105-110.	5.2	20
65	Ovarian self-incompatibility in <i>Narcissus papyraceus</i> (Amaryllidaceae) is the result of a pre-zygotic response. <i>Botanical Journal of the Linnean Society</i> , 2015, 177, 629-643.	1.6	20
66	Mechanisms in the Pistil that Regulate Gametophyte Population in Peach (<i>Prunus persica</i>). , 1992, , 377-381.		19
67	Pollen Tube Pathway in Chalazogamous <i>Pistacia vera</i> L.. <i>International Journal of Plant Sciences</i> , 1998, 159, 566-574.	1.3	17
68	Arabinogalactan proteins mark stigmatic receptivity in the protogynous flowers of <i>Magnolia virginiana</i> (Magnoliaceae). <i>American Journal of Botany</i> , 2014, 101, 1963-1975.	1.7	17
69	Molecular Characterization of Apricot Germplasm from an Old Stone Collection. <i>PLoS ONE</i> , 2011, 6, e23979.	2.5	17
70	Pollen tube access to the ovule is mediated by glycoprotein secretion on the obturator of apple (<i>Malus domestica</i> , Borkh). <i>Annals of Botany</i> , 2017, 119, mcw276.	2.9	16
71	Pollen germination as affected by pollen age in cherimoya. <i>Scientia Horticulturae</i> , 2006, 109, 97-100.	3.6	15
72	Flower strategy and stigma performance in the apple inflorescence. <i>Scientia Horticulturae</i> , 2013, 150, 283-289.	3.6	15

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73	Pollen-Pistil Interaction in Kiwifruit (<i>Actinidia deliciosa</i> ; Actinidiaceae). <i>American Journal of Botany</i> , 1996, 83, 148.	1.7	15
74	Self-incompatibility and Self-fruitfulness in Pear cv. Agua de Aranjuez. <i>Journal of the American Society for Horticultural Science</i> , 2007, 132, 166-171.	1.0	13
75	Molecular S-genotyping and determination of S-RNase-based incompatibility groups in loquat [<i>Eriobotrya japonica</i> (Thunb.) Lindl.]. <i>Euphytica</i> , 2011, 181, 267-275.	1.2	11
76	Male meiosis in sweet cherry is constrained by the chilling and forcing phases of dormancy. <i>Tree Physiology</i> , 2021, 41, 619-630.	3.1	11
77	Flower Bud Dormancy in <i>Prunus</i> Species. , 2015, , 123-135.		10
78	Arabinogalactan proteins mediate intercellular crosstalk in the ovule of apple flowers. <i>Plant Reproduction</i> , 2019, 32, 291-305.	2.2	7
79	Male performance in pistachio (<i>Pistacia vera</i>). <i>The Journal of Horticultural Science</i> , 1994, 69, 1117-1122.	0.3	6
80	Pollen effects on fruit and seed characteristics in pistachio (<i>Pistacia vera</i> L.). <i>Annals of Applied Biology</i> , 1998, 132, 357-364.	2.5	4
81	The influence of the progamic phase for fruiting in the apple tree. <i>Annals of Applied Biology</i> , 2013, 163, 82-90.	2.5	4
82	Ovary Signals for Pollen Tube Guidance in Chalazogamous <i>Mangifera indica</i> L. <i>Frontiers in Plant Science</i> , 2020, 11, 601706.	3.6	4
83	Starch determination in plant tissues using a computerized image analysis system. <i>Physiologia Plantarum</i> , 1997, 99, 105-110.	5.2	1
84	Tropical and Subtropical Fruits. , 2014, , 123-157.		1
85	Ploidia levels in pyrenic and apyrenic <i>œpitangueira</i> accessions. <i>Scientia Agraria Paranaensis</i> , 0, , 89-92.	0.1	0