

Jaime Kigel

List of Publications by Year in descending order

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77
papers

3,973
citations

147726

31
h-index

118793

62
g-index

78
all docs

78
docs citations

78
times ranked

5851
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing the Effects of Land-use Change on Plant Traits, Communities and Ecosystem Functioning in Grasslands: A Standardized Methodology and Lessons from an Application to 11 European Sites. <i>Annals of Botany</i> , 2007, 99, 967-985.	1.4	453
2	Vegetation response to grazing management in a Mediterranean herbaceous community: a functional group approach. <i>Journal of Applied Ecology</i> , 2000, 37, 224-237.	1.9	265
3	Leaf traits capture the effects of land use changes and climate on litter decomposability of grasslands across Europe. <i>Ecology</i> , 2009, 90, 598-611.	1.5	243
4	Annual plant–shrub interactions along an aridity gradient. <i>Basic and Applied Ecology</i> , 2006, 7, 268-279.	1.2	211
5	Grazing effect on diversity of annual plant communities in a semi-arid rangeland: interactions with small-scale spatial and temporal variation in primary productivity. <i>Journal of Ecology</i> , 2002, 90, 936-946.	1.9	203
6	Biochemical and Molecular Characterization of a Barley Seed Î²-Glucosidase. <i>Journal of Biological Chemistry</i> , 1995, 270, 15789-15797.	1.6	169
7	Differential sensitivity to high temperature of stages in the reproductive development of common bean (<i>Phaseolus vulgaris</i> L.). <i>Field Crops Research</i> , 1994, 36, 201-212.	2.3	168
8	Plant survival in relation to seed size along environmental gradients: a long-term study from semi-arid and Mediterranean annual plant communities. <i>Journal of Ecology</i> , 2010, 98, 697-704.	1.9	135
9	Effects of grazing on soil seed bank dynamics: An approach with functional groups. <i>Journal of Vegetation Science</i> , 2003, 14, 375-386.	1.1	123
10	Site productivity and plant size explain the response of annual species to grazing exclusion in a Mediterranean semi-arid rangeland. <i>Journal of Ecology</i> , 2004, 92, 297-309.	1.9	121
11	Middle-Eastern plant communities tolerate 9 years of drought in a multi-site climate manipulation experiment. <i>Nature Communications</i> , 2014, 5, 5102.	5.8	117
12	Few multiyear precipitation–reduction experiments find a shift in the productivity–precipitation relationship. <i>Global Change Biology</i> , 2016, 22, 2570-2581.	4.2	105
13	Impact of abundance weighting on the response of seed traits to climate and land use. <i>Journal of Ecology</i> , 2008, 96, 355-366.	1.9	92
14	Effects of <i>Azospirillum brasilense</i> on root morphology of common bean (<i>Phaseolus vulgaris</i> L.) under different water regimes. <i>Biology and Fertility of Soils</i> , 2000, 32, 259-264.	2.3	87
15	Effects of <i>Azospirillum brasilense</i> on nodulation and growth of common bean (<i>Phaseolus vulgaris</i> L.). <i>Soil Biology and Biochemistry</i> , 1997, 29, 923-929.	4.2	81
16	Increase in Dry Weight and Total Nitrogen Content in <i>Zea mays</i> and <i>Setaria italica</i> Associated with Nitrogen-fixing <i>Azospirillum</i> spp.. <i>Plant Physiology</i> , 1980, 66, 746-749.	2.3	80
17	Photoinhibition of Stem Elongation by Blue and Red Light. <i>Plant Physiology</i> , 1991, 95, 1049-1056.	2.3	75
18	Recovery of plant species composition and ecosystem function after cessation of grazing in a Mediterranean grassland. <i>Plant and Soil</i> , 2010, 329, 365-378.	1.8	67

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19	Effects of Temperature, Nitrogen Fertilization, and Plant Age on Nitrogen Fixation by <i>Setaria italica</i> Inoculated with <i>Azospirillum brasilense</i> (strain cd). <i>Plant Physiology</i> , 1981, 68, 340-343.	2.3	66
20	From desert to Mediterranean rangelands: will increasing drought and inter-annual rainfall variability affect herbaceous annual primary productivity?. <i>Climatic Change</i> , 2013, 119, 785-798.	1.7	65
21	A community-level test of the leaf-height-seed ecology strategy scheme in relation to grazing conditions. <i>Journal of Vegetation Science</i> , 2009, 20, 392-402.	1.1	52
22	Rainfall manipulation experiments as simulated by terrestrial biosphere models: Where do we stand?. <i>Global Change Biology</i> , 2020, 26, 3336-3355.	4.2	50
23	Invasion of <i>Pinus halepensis</i> from plantations into adjacent natural habitats. <i>Applied Vegetation Science</i> , 2005, 8, 85-92.	0.9	49
24	Relationships Between Flowering Time and Rainfall Gradients Across Mediterranean-Desert Transects. <i>Israel Journal of Ecology and Evolution</i> , 2011, 57, 91-109.	0.2	41
25	Plant diversity partitioning in grazed Mediterranean grassland at multiple spatial and temporal scales. <i>Journal of Applied Ecology</i> , 2011, 48, 1260-1268.	1.9	40
26	Photothermal control of the imposition of summer dormancy in <i>Poa bulbosa</i> , a perennial grass geophyte. <i>Physiologia Plantarum</i> , 1999, 105, 633-640.	2.6	37
27	Similarity between seed bank and vegetation in a semi-arid annual plant community: The role of productivity and grazing. <i>Journal of Vegetation Science</i> , 2006, 17, 29-36.	1.1	36
28	Testing the limits of resistance: a 19-year study of Mediterranean grassland response to grazing regimes. <i>Global Change Biology</i> , 2015, 21, 1939-1950.	4.2	36
29	Spatial and temporal activity of cattle grazing in Mediterranean oak woodland. <i>Applied Animal Behaviour Science</i> , 2017, 187, 45-53.	0.8	36
30	Variation in Onset of Summer Dormancy and Flowering Capacity Along an Aridity Gradient in <i>Poa bulbosa</i> L., a Geophytic Perennial Grass. <i>Annals of Botany</i> , 2003, 91, 391-400.	1.4	33
31	Size traits and site conditions determine changes in seed bank structure caused by grazing exclusion in semiarid annual plant communities. <i>Ecography</i> , 2006, 29, 11-20.	2.1	33
32	Seed coat structure and oxygen availability control low-temperature germination of melon (<i>Cucumis</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.6	31
33	Opposite Effects of Daylength and Temperature on Flowering and Summer Dormancy of <i>Poa bulbosa</i> . <i>Annals of Botany</i> , 2006, 97, 659-666.	1.4	30
34	Landscape-scale density-dependent recruitment of oaks in planted forests: More is not always better. <i>Ecology</i> , 2013, 94, 1718-1728.	1.5	30
35	Effect of fruit load on the water balance of melon plants infected with <i>Monosporascus cannonballus</i> . <i>Physiological and Molecular Plant Pathology</i> , 2002, 60, 39-49.	1.3	28
36	Seed coat structure and oxygen availability control low-temperature germination of melon (<i>Cucumis</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.6	26

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37	Hormonal control of inflorescence development in plantlets of calla lily (<i>Zantedeschia</i> spp.) grown in vitro. <i>Plant Growth Regulation</i> , 2004, 42, 7-14.	1.8	25
38	Regulation of Summer Dormancy by Water Deficit and ABA in <i>Poa bulbosa</i> Ecotypes. <i>Annals of Botany</i> , 2007, 99, 293-299.	1.4	24
39	Climate change scenarios of herbaceous production along an aridity gradient: vulnerability increases with aridity. <i>Oecologia</i> , 2015, 177, 971-979.	0.9	24
40	Seedling Emergence and Phenotypic Response of Common Bean Germplasm to Different Temperatures under Controlled Conditions and in Open Field. <i>Frontiers in Plant Science</i> , 2016, 7, 1087.	1.7	23
41	Abscisic acid involvement in the induction of summer-dormancy in <i>Poa bulbosa</i> , a grass geophyte. <i>Physiologia Plantarum</i> , 1998, 102, 163-170.	2.6	21
42	Branching, flowering and pod-set patterns in snap-bean (<i>Phaseolus vulgaris</i> L.) as affected by temperature. <i>Canadian Journal of Plant Science</i> , 1991, 71, 1233-1242.	0.3	20
43	Countervailing effects on pine and oak leaf litter decomposition in human-altered Mediterranean ecosystems. <i>Oecologia</i> , 2015, 177, 1039-1051.	0.9	20
44	Interactive effects of grazing and shrubs on the annual plant community in semi-arid Mediterranean shrublands. <i>Journal of Vegetation Science</i> , 2007, 18, 869-878.	1.1	19
45	The soil seed bank can buffer long-term compositional changes in annual plant communities. <i>Journal of Ecology</i> , 2021, 109, 1275-1283.	1.9	18
46	Seed germination of melon (<i>Cucumis melo</i>) at sub- and supra-optimal temperatures. <i>Scientia Horticulturae</i> , 1990, 45, 55-63.	1.7	17
47	Are semiarid shrubs resilient to drought and grazing? Differences and similarities among species and habitats in a long-term study. <i>Journal of Arid Environments</i> , 2014, 102, 1-8.	1.2	17
48	Ecotypic variation of summer dormancy relaxation associated with rainfall gradient in the geophytic grass <i>Poa bulbosa</i> . <i>Annals of Botany</i> , 2010, 105, 617-625.	1.4	15
49	Consequences of climate and body size on the foraging performance of seed-eating ants. <i>Ecological Entomology</i> , 2014, 39, 427-435.	1.1	15
50	No precipitation legacy effects on above-ground net primary production and species diversity in grazed Mediterranean grassland: a 21-year experiment. <i>Journal of Vegetation Science</i> , 2017, 28, 260-269.	1.1	14
51	Nurse plants promote taxonomic and functional diversity in an arid Mediterranean annual plant community. <i>Journal of Vegetation Science</i> , 2020, 31, 658-666.	1.1	14
52	Cooperative effects of blue and red light in the inhibition of hypocotyl elongation of de-etiolated castor bean. <i>Plant Science Letters</i> , 1981, 21, 83-88.	1.9	12
53	Temperature affects plant development, flowering and tuber dormancy in calla lily (<i>Zantedeschia</i>). <i>Journal of Horticultural Science and Biotechnology</i> , 2002, 77, 170-176.	0.9	12
54	Variation in Endogenous Gibberellins, Abscisic Acid, and Carbohydrate Content During the Growth Cycle of Colored <i>Zantedeschia</i> spp., a Tuberous Geophyte. <i>Journal of Plant Growth Regulation</i> , 2008, 27, 211-220.	2.8	12

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55	Dynamics of soil nutrients in abandoned sheep corrals in semi-arid Mediterranean planted forests under grazing. <i>Journal of Arid Environments</i> , 2019, 164, 38-45.	1.2	12
56	Temporal and intraclonal variation of flowering and pseudovivipary in <i>Poa bulbosa</i> . <i>Annals of Botany</i> , 2014, 113, 1249-1256.	1.4	11
57	Temporal stability of biomass in annual plant communities is driven by species diversity and asynchrony, but not dominance. <i>Journal of Vegetation Science</i> , 2021, 32, e13012.	1.1	11
58	Effects of grazing on soil seed bank dynamics: An approach with functional groups. , 2003, 14, 375.		11
59	An Integrative Analysis of the Dynamics of Landscape- and Local-Scale Colonization of Mediterranean Woodlands by <i>Pinus halepensis</i> . <i>PLoS ONE</i> , 2014, 9, e90178.	1.1	10
60	Soil seed bank and seedling emergence of <i>Sarcopoterium spinosum</i> as affected by grazing in a patchy semiarid shrubland. <i>Israel Journal of Plant Sciences</i> , 2007, 55, 35-43.	0.3	8
61	A method to differentiate summer-dormant from summer-active tall fescue and orchardgrass accessions at germination stage. <i>Australian Journal of Agricultural Research</i> , 2008, 59, 1092.	1.5	8
62	Understory plant diversity under variable overstory cover in Mediterranean forests at different spatial scales. <i>Forest Ecology and Management</i> , 2021, 494, 119319.	1.4	8
63	The role of the leaves in the regulation of internode elongation in <i>Phaseolus vulgaris</i> . <i>Physiologia Plantarum</i> , 1980, 49, 161-168.	2.6	6
64	Insights into the Drought and Heat Avoidance Mechanism in Summer-Dormant Mediterranean Tall Fescue. <i>Frontiers in Plant Science</i> , 2017, 8, 1971.	1.7	6
65	Ant foraging strategies vary along a natural resource gradient. <i>Oikos</i> , 2021, 130, 66-78.	1.2	6
66	Ant Abundance along a Productivity Gradient: Addressing Two Conflicting Hypotheses. <i>PLoS ONE</i> , 2015, 10, e0131314.	1.1	6
67	Photothermal effects on corm and flower development in <i>Anemone coronaria</i> L.. <i>Scientia Horticulturae</i> , 1989, 40, 247-258.	1.7	5
68	Quantitative vs qualitative vegetation sampling methods: a lesson from a grazing experiment in a Mediterranean grassland. <i>Applied Vegetation Science</i> , 2013, 16, 502-508.	0.9	5
69	Predicting the Formation of a New Upper Canopy Strata after Colonization of Native Shrublands by Pines. <i>Forest Science</i> , 2014, 60, 841-850.	0.5	5
70	Volatiles and Tannins in <i>Pistacia lentiscus</i> and Their Role in Browsing Behavior of Goats (<i>Capra</i>)	0.9	5
71	GA and IAA Interactions Controlling Internode Growth in Decapitated Plants of <i>Phaseolus vulgaris</i> L.. <i>Botanical Gazette</i> , 1981, 142, 7-12.	0.6	4
72	A Developmental Pattern of Flowering in Colored <i>Zantedeschia</i> spp.: Effects of Bud Position and Gibberellin. <i>Journal of Plant Growth Regulation</i> , 2004, 23, 269-279.	2.8	3

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73	Abandoned corrals: colonization and vegetation recovery of ephemeral habitats in silvo-pastoral systems. <i>Journal of Plant Ecology</i> , 2020, 13, 722-731.	1.2	3
74	Control of Bud Sprouting and Elongation in Colored <i>Zantedeschia</i> Tubers by Low-temperature Storage. <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2006, 41, 685-687.	0.5	2
75	Role of endogenous gibberellins in germination of melon (<i>Cucumis melo</i>) seeds. <i>Physiologia Plantarum</i> , 1995, 95, 113-119.	2.6	2
76	A developmental pattern of flowering in colored <i>Zantedeschia</i> spp: Effects of bud position and gibberellin. <i>Journal of Plant Growth Regulation</i> , 2004, 23, 269-279.	2.8	0
77	The relationships between gibberellin and organ size in colored <i>Zantedeschia</i> cv. "Calla Gold"™. <i>Israel Journal of Plant Sciences</i> , 2009, 57, 369-375.	0.3	0