Lucas BorrÃ¡s

List of Publications by Year
in descending order

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75 papers	3,326 citations	201575 27 h-index	155592 55 g-index
75 all docs	75 docs citations	75 times ranked	2062 citing authors

#	Article	IF	Citations
1	Seed dry weight response to sourceâ€“sink manipulations in wheat, maize and soybean: a quantitative reappraisal. Field Crops Research, 2004, 86, 131-146.	2.3	667
2	Leaf senescence in maize hybrids: plant population, row spacing and kernel set effects. Field Crops Research, 2003, 82, 13-26.	2.3	175
3	Maize Kernel Weight Response to Postflowering Sourceâ€“Sink Ratio. Crop Science, 2001, 41, 1816-1822.	0.8	159
4	Control of Kernel Weight and Kernel Water Relations by Post-flowering Source-sink Ratio in Maize. Annals of Botany, 2003, 91, 857-867.	1.4	143
5	Sourceâ€“sink relations and kernel weight differences in maize temperate hybrids. Field Crops Research, 2006, 95, 316-326.	2.3	138
6	Predicting maize kernel sink capacity early in development. Field Crops Research, 2006, 95, 223-233.	2.3	126
7	Resource distribution and the tradeâ€off between seed number and seed weight: a comparison across crop species. Annals of Applied Biology, 2010, 156, 91-102.	1.3	118
8	Trait dissection of maize kernel weight: Towards integrating hierarchical scales using a plant growth approach. Field Crops Research, 2010, 118, 1-12.	2.3	107
9	Kernel water relations and duration of grain filling in maize temperate hybrids. Field Crops Research, 2007, 101, 1-9.	2.3	103
10	Synchronous Pollination within and between Ears Improves Kernel Set in Maize. Crop Science, 2000, 40, 1056-1061.	0.8	98
11	Coupling time to silking with plant growth rate in maize. Field Crops Research, 2007, 102, 73-85.	2.3	81
12	Maize reproductive development and kernel set under limited plant growth environments. Journal of Experimental Botany, 2018, 69, 3235-3243.	2.4	77
13	Characterization of Grainâ€Filling Patterns in Diverse Maize Germplasm. Crop Science, 2009, 49, 999-1009.	0.8	74
14	Relationship between assimilate supply per seed during seed filling and soybean seed composition. Field Crops Research, 2009, 112, 90-96.	2.3	66
15	Kernel weight dependence upon plant growth at different grain-filling stages in maize and sorghum. Australian Journal of Agricultural Research, 2008, 59, 280.	1.5	63
16	Maize Kernel Composition and Postâ€Flowering Sourceâ€Sink Ratio. Crop Science, 2002, 42, 781-790.	0.8	59
17	Relative importance of biological nitrogen fixation and mineral uptake in high yielding soybean cultivars. Plant and Soil, 2017, 418, 191-203.	1.8	44
18	Exploring genotype, management, and environmental variables influencing grain yield of late-sown maize in central Argentina. Agricultural Systems, 2016, 146, 11-19.	3.2	43

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19	Soybean Nitrogen Uptake and Utilization in Argentina and United States Cultivars. Crop Science, 2014, 54, 1153-1165.	0.8	38
20	Plasticity of sorghum kernel weight to increased assimilate availability. Field Crops Research, 2007, 100, 272-284.	2.3	37
21	Genotypic Differences among Argentinean Maize Hybrids in Yield Response to Stand Density. Agronomy Journal, 2014, 106, 2316-2324.	0.9	37
22	Sorghum Kernel Weight. Crop Science, 2005, 45, 553-561.	0.8	36
23	Spatial and temporal plant-to-plant variability effects on soybean yield. European Journal of Agronomy, 2018, 98, 14-24.	1.9	36
24	Physiological strategies for seed number determination in soybean: Biomass accumulation, partitioning and seed set efficiency. Field Crops Research, 2012, 135, 58-66.	2.3	35
25	Kernel number and kernel weight determination in dent and popcorn maize. Field Crops Research, 2011, 120, 360-369.	2.3	34
26	The Genetic Architecture of Maize (Zea mays L.) Kernel Weight Determination. G3: Genes, Genomes, Genetics, 2014, 4, 1611-1621.	0.8	34
27	Crop Management Options for Maximizing Maize Kernel Hardness. Agronomy Journal, 2016, 108, 1561-1570.	0.9	33
28	Maize Kernel Composition and Post-Flowering Source-Sink Ratio. Crop Science, 2002, 42, 781.	0.8	33
29	Sowing date and maize grain quality for dry milling. European Journal of Agronomy, 2018, 92, 1-8.	1.9	32
30	Independent genetic control of maize (Zea mays L.) kernel weight determination and its phenotypic plasticity. Journal of Experimental Botany, 2014, 65, 4479-4487.	2.4	29
31	Enhanced kernel set promoted by synchronous pollination determines a tradeoff between kernel number and kernel weight in temperate maize hybrids. Field Crops Research, 2008, 105, 172-181.	2.3	28
32	Dissecting the genetic basis of physiological processes determining maize kernel weight using the IBM (B73Ã—Mo17) Syn4 population. Field Crops Research, 2013, 145, 33-43.	2.3	28
33	Modeling Anthesis to Silking in Maize Using a Plant Biomass Framework. Crop Science, 2009, 49, 937-948.	0.8	26
34	Physiological Processes Leading to Similar Yield in Contrasting Soybean Maturity Groups. Agronomy Journal, 2017, 109, 158-167.	0.9	24
35	Radiation use efficiency increased over a century of maize (Zea maysL.) breeding in the US corn belt. Journal of Experimental Botany, 2022, 73, 5503-5513.	2.4	21
36	Predicting maize kernel number using QTL information. Field Crops Research, 2015, 172, 119-131.	2.3	20

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37	Genotype and Nitrogen Effects over Maize Kernel Hardness and Endosperm Zein Profiles. Crop Science, 2016, 56, 1225-1233.	0.8	20
38	Carotenoid profiles in maize genotypes with contrasting kernel hardness. Journal of Cereal Science, 2021, 99, 103206.	1.8	20
39	Linking assimilate supply and seed developmental processes that determine soybean seed composition. European Journal of Agronomy, 2011, 35, 184-191.	1.9	19
40	Physiological differences in yield related traits between flint and dent Argentinean commercial maize genotypes. European Journal of Agronomy, 2015, 68, 50-56.	1.9	19
41	Sowing date, genotype choice, and water environment control soybean yields in central Argentina. Crop Science, 2021, 61, 715-728.	0.8	19
42	Correlations Between Parental Inbred Lines and Derived Hybrid Performance for Grain Filling Traits in Maize. Crop Science, 2013, 53, 1636-1645.	0.8	17
43	Dry milling grain quality changes in Argentinean maize genotypes released from 1965 to 2016. Field Crops Research, 2018, 226, 74-82.	2.3	17
44	Management and environmental factors explaining soybean seed protein variability in central Argentina. Field Crops Research, 2019, 240, 34-43.	2.3	17
45	Maize kernel color depends on the interaction between hardness and carotenoid concentration. Journal of Cereal Science, 2020, 91, 102901.	1.8	16
46	Counting Maize Kernels through Digital Image Analysis. Crop Science, 2011, 51, 2796-2800.	0.8	15
47	Variation in Seed Protein Concentration and Seed Size Affects Soybean Crop Growth and Development. Crop Science, 2016, 56, 3196-3208.	0.8	15
48	Siteâ€Specific Covariates Affecting Yield Response to Nitrogen of Lateâ€Sown Maize in Central Argentina. Agronomy Journal, 2018, 110, 1544-1553.	0.9	15
49	Management options for reducing maize yield gaps in contrasting sowing dates. Field Crops Research, 2020, 251, 107779.	2.3	15
50	Agronomy and plant breeding are key to combating food crisis. Nature, 2008, 453, 1177-1177.	13.7	14
51	Exploring soybean management options for environments with contrasting water availability. Journal of Agronomy and Crop Science, 2019, 205, 274-282.	1.7	14
52	Genotypic diversity in sorghum inbred lines for grain-filling patterns and other related agronomic traits. Crop and Pasture Science, 2011, 62, 1026.	0.7	13
53	Maize Kernel Hardness, Endosperm Zein Profiles, and Ethanol Production. Bioenergy Research, 2017, 10, 760-771.	2.2	13
54	Aphid Resistance: An Overlooked Ecological Dimension of Nonstructural Carbohydrates in Cereals. Frontiers in Plant Science, 2020, 11, 937.	1.7	13

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55	Environment quality, sowing date, and genotype determine soybean yields in the Argentinean Gran Chaco. European Journal of Agronomy, 2021, 123, 126217.	1.9	13
56	Seed Water Concentration and Accumulation of Protein and Oil in Soybean Seeds. Crop Science, 2014, 54, 2752-2759.	0.8	12
57	Maize Stand Density Yield Response of Parental Inbred Lines and Derived Hybrids. Crop Science, 2017, 57, 32-39.	0.8	12
58	Role of yield genetic progress on the biochemical determinants of maize kernel hardness. Journal of Cereal Science, 2019, 87, 301-310.	1.8	9
59	Physiological processes associated with soybean genetic progress in Argentina. , 2020, 3, e20041.		8
60	Maize long-term genetic progress explains current dominance over sorghum in Argentina. European Journal of Agronomy, 2020, 119, 126122.	1.9	8
61	Genotype and cytokinin effects on soybean yield and biological nitrogen fixation across soil temperatures. Annals of Applied Biology, 2021, 178, 341-354.	1.3	8
62	Quantitative Trait Loci of Plant Attributes Related to Sorghum Grain Number Determination. Crop Science, 2016, 56, 3046-3054.	0.8	7
63	Reduced soybean photosynthetic nitrogen use efficiency associated with evolutionary genetic bottlenecks. Functional Plant Biology, 2016, 43, 862.	1.1	7
64	Maize nitrogen management in soils with influencing water tables within optimum depth. Crop Science, 2021, 61, 1386-1399.	0.8	7
65	Improving Grain Quality in Oil and Cereal Crops. , 2019, , 269-285.		6
66	Physical and chemical kernel traits affect starch digestibility and glycemic index of cooked maize flours. Food Chemistry, 2022, 369, 130953.	4.2	6
67	Development of a decision-making application for optimum soybean and maize fertilization strategies in Mato Grosso. Computers and Electronics in Agriculture, 2022, 193, 106659.	3.7	6
68	Lateâ€season N fertilization effects on soybean seed protein and biological N₂ fixation. Agronomy Journal, 2021, 113, 5076-5086.	0.9	5
69	Crop attributes explaining current grain yield dominance of maize over sorghum. Field Crops Research, 2022, 275, 108346.	2.3	5
70	Adding genotypic differences in reproductive partitioning and grain set efficiency for estimating sorghum grain number. Crop and Pasture Science, 2013, 64, 9.	0.7	4
71	Fungicide Applications and Grain Dry Milling Quality in Lateâ€Sown Maize. Crop Science, 2018, 58, 892-899.	0.8	4
72	Crop phenotyping for physiological breeding in grain crops: A case study for maize. , 2015, , 375-396.		3

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73	Facets of the maximum crop yield problem. Field Crops Research, 2015, 182, 1-2.	2.3	1
74	Improving Grain Quality in Oil and Cereal Crops. , 2018, , 1-17.		1
75	Differential Maize Yield Hybrid Responses to Stand Density Are Correlated to Their Response to Radiation Reductions Around Flowering. Frontiers in Plant Science, 2021, 12, 771739.	1.7	1