Ana Butron

List of Publications by Year
in descending order

119 papers	2,500 citations	186209 28 h-index	302012 39 g-index
119 all docs	119 docs citations	119 times ranked	1683 citing authors

#	Article	IF	Citations
1	A Genome-Wide Association Study Reveals Genes Associated with Fusarium Ear Rot Resistance in a Maize Core Diversity Panel. G3: Genes, Genomes, Genetics, 2013, 3, 2095-2104.	0.8	98
2	Genome-wide association study reveals a set of genes associated with resistance to the Mediterranean corn borer (Sesamia nonagrioides L.) in a maize diversity panel. BMC Plant Biology, 2015, 15, 35.	1.6	73
3	Relationships among Kernel Weight, Early Vigor, and Growth in Maize. Crop Science, 1999, 39, 654-658.	0.8	63
4	Maize (Zea mays L.) Genetic Factors for Preventing Fumonisin Contamination. Journal of Agricultural and Food Chemistry, 2006, 54, 6113-6117.	2.4	63
5	Identification of quantitative trait loci involved in the response to cold stress in maize (Zea mays L.). Molecular Breeding, 2014, 33, 363-371.	1.0	60
6	Resistance of Maize Inbreds to Pink Stem Borer. Crop Science, 1999, 39, 102-107.	0.8	59
7	Critical environmental and genotypic factors for Fusarium verticillioides infection, fungal growth and fumonisin contamination in maize grown in northwestern Spain. International Journal of Food Microbiology, 2014, 177, 63-71.	2.1	59
8	Inheritance of Cold Tolerance at Emergence and during Early Season Growth in Maize. Crop Science, 2000, 40, 1579-1585.	0.8	57
9	Control of preharvest aflatoxin contamination in maize by pyramiding QTL involved in resistance to ear-feeding insects and invasion by Aspergillus spp.. European Journal of Agronomy, 2003, 19, 563-572.	1.9	56
10	Genetic Factors Involved in Fumonisin Accumulation in Maize Kernels and Their Implications in Maize Agronomic Management and Breeding. Toxins, 2015, 7, 3267-3296.	1.5	52
11	Putative Role of Pith Cell Wall Phenylpropanoids inSesamia nonagrioides(Lepidoptera:Â Noctuidae) Resistance. Journal of Agricultural and Food Chemistry, 2006, 54, 2274-2279.	2.4	49
12	Genetic variation at bx1 controls DIMBOA content in maize. Theoretical and Applied Genetics, 2010, 120, 721-734.	1.8	49
13	QTL mapping for Mediterranean corn borer resistance in European flint germplasm using recombinant inbred lines. BMC Genomics, 2010, 11, 174.	1.2	43
14	Mapping of QTL for resistance to the Mediterranean corn borer attack using the intermated B73ÂÃ—ÂMo17 (IBM) population of maize. Theoretical and Applied Genetics, 2009, 119, 1451-1459.	1.8	42
15	Defense Mechanisms of Maize against Pink Stem Borer. Crop Science, 1998, 38, 1159-1163.	0.8	39
16	Evaluation of the European Union Maize Landrace Core Collection for Resistance to Sesamia nonagrioides (Lepidoptera: Noctuidae) and Ostrinia nubilalis (Lepidoptera: Crambidae). Journal of Economic Entomology, 2004, 97, 628-634.	0.8	37
17	Mapping of resistance to corn borers in a MAGIC population of maize. BMC Plant Biology, 2019, 19, 431.	1.6	37
18	QTLs for Resistance to Fusarium Ear Rot in a Multiparent Advanced Generation Intercross (MAGIC) Maize Population. Plant Disease, 2019, 103, 897-904.	0.7	37

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19	Genetic regulation of cold-induced albinism in the maize inbred line A661. Journal of Experimental Botany, 2013, 64, 3657-3667.	2.4	36
20	Combining Abilities for Maize Stem Antibiosis, Yield Loss, and Yield under Infestation and Non Infestation with Pink Stem Borer. Crop Science, 1999, 39, 691-696.	0.8	34
21	Direct Response of a Maize Synthetic to Recurrent Selection for Resistance to Stem Borers. Crop Science, 2008, 48, 113-118.	0.8	34
22	Inheritance of maize resistance to gibberella and fusarium ear rots and kernel contamination with deoxynivalenol and fumonisins. Plant Pathology, 2015, 64, 1053-1060.	1.2	34
23	Diferulate Content of Maize Sheaths Is Associated with Resistance to the Mediterranean Corn Borer Sesamia nonagrioides (Lepidoptera:â€‰ Noctuidae). Journal of Agricultural and Food Chemistry, 2006, 54, 9140-9144.	2.4	33
24	Environmental factors related to fungal infection and fumonisin accumulation during the development and drying of white maize kernels. International Journal of Food Microbiology, 2013, 164, 15-22.	2.1	32
25	Inheritance of Resistance to Ear Damage Caused by <I>Sesamia nonagrioides</I> (Lepidoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock 1C	0.8	30
26	Performance of Crosses among French and Spanish Maize Populations across Environments. Crop Science, 2005, 45, 1052-1057.	0.8	30
27	White Maize: Genetics of Quality and Agronomic Performance. Crop Science, 2008, 48, 1373-1381.	0.8	30
28	Identification of QTL for resistance to Mediterranean corn borer in a maize tropical line to improve temperate germplasm. BMC Plant Biology, 2015, 15, 265.	1.6	30
29	Changes in Phenolic Concentrations during Recurrent Selection for Resistance to the Mediterranean Corn Borer (Sesamia nonagrioides Lef.). Journal of Agricultural and Food Chemistry, 2008, 56, 8017-8022.	2.4	29
30	Identification of genes related to germination in aged maize seed by screening natural variability. Journal of Experimental Botany, 2009, 60, 4151-4157.	2.4	29
31	Effect of Recurrent Selection on the Genetic Structure of Two Broadâ€Based Spanish Maize Populations. Crop Science, 2012, 52, 1493-1502.	0.8	29
32	Occurrence of <scp>F</scp>usarium species in maize kernels grown in northwestern <scp>S</scp>pain. Plant Pathology, 2014, 63, 946-951.	1.2	29
33	Quantitative Trait Loci for Cold Tolerance in the Maize IBM Population. International Journal of Plant Sciences, 2008, 169, 551-556.	0.6	28
34	Ear Resistance of Sweet Corn Populations to Sesamia nonagrioides (Lepidoptera: Noctuidae) and Ostrinia nubilalis (Lepidoptera: Pyralidae). Journal of Economic Entomology, 1999, 92, 732-739.	0.8	27
35	Inheritance of Antibiosis to Sesamia nonagrioides (Lepidoptera: Noctuidae) in Maize. Journal of Economic Entomology, 1999, 92, 994-998.	0.8	25
36	Assessment of corn resistance to fumonisin accumulation in a broad collection of inbred lines. Field Crops Research, 2013, 149, 193-202.	2.3	25

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37	QTL mapping for maize resistance and yield under infestation with Sesamia nonagrioides. Molecular Breeding, 2014, 34, 1331-1344.	1.0	25
38	Assessing the influence of biogeographical region and phylogenetic history on chemical defences and herbivory in Quercus species. Phytochemistry, 2018, 153, 64-73.	1.4	25
39	Relationship Between Maize Stem Structural Characteristics and Resistance to Pink Stem Borer (Lepidoptera: Noctuidae) Attack. Journal of Economic Entomology, 2003, 96, 1563-1570.	0.8	24
40	Molecular changes in the maize composite EPS12 during selection for resistance to pink stem borer. Theoretical and Applied Genetics, 2005, 110, 1044-1051.	1.8	24
41	Antibiosis of the Pith Maize to Sesamia nonagrioides (Lepidoptera: Noctuidae). Journal of Economic Entomology, 2002, 95, 1044-1048.	0.8	23
42	Rind puncture resistance in maize: inheritance and relationship with resistance to pink stem borer attack. Plant Breeding, 2002, 121, 378-382.	1.0	23
43	Evaluation of the European Union Maize Landrace Core Collection for Resistance to <I>Sesamia nonagrioides</I> (Lepidoptera: Noctuidae) and <I>Ostrinia nubilalis</I> (Lepidoptera: Crambidae). Journal of Economic Entomology, 2004, 97, 628-634.	0.8	22
44	Inducible Maize Defense Mechanisms Against the Corn Borer Sesamia nonagrioides: A Transcriptome and Biochemical Approach. Molecular Plant-Microbe Interactions, 2012, 25, 61-68.	1.4	22
45	Environmental and Genetic Effects on Yield and Secondary Metabolite Production in Brassica rapa Crops. Journal of Agricultural and Food Chemistry, 2012, 60, 5507-5514.	2.4	21
46	Mycotoxins in maize grains grown in organic and conventional agriculture. Food Control, 2015, 52, 98-102.	2.8	21
47	Genome-wide association analysis for fumonisin content in maize kernels. BMC Plant Biology, 2019, 19, 166.	1.6	21
48	Molecular evaluation of two methods for developing maize synthetic varieties. Molecular Breeding, 2003, 12, 329-333.	1.0	20
49	QTL Mapping for Yield and Resistance against Mediterranean Corn Borer in Maize. Frontiers in Plant Science, 2017, 8, 698.	1.7	20
50	Ear Damage of Sweet Corn Inbreds and Their Hybrids under Multiple Corn Borer Infestation. Crop Science, 2002, 42, 724-729.	0.8	19
51	Yield Evaluation of Maize Cultivars across Environments with Different Levels of Pink Stem Borer Infestation. Crop Science, 2004, 44, 741-747.	0.8	19
52	Comparison of two methods of reciprocal recurrent selection in maize (Zea mays L.). Theoretical and Applied Genetics, 2012, 124, 1183-1191.	1.8	19
53	Hydroxycinnamate Synthesis and Association with Mediterranean Corn Borer Resistance. Journal of Agricultural and Food Chemistry, 2016, 64, 539-551.	2.4	19
54	Defensive changes in maize leaves induced by feeding of Mediterranean corn borer larvae. BMC Plant Biology, 2017, 17, 44.	1.6	19

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55	Recurrent Selection for Corn Earworm (Lepidoptera: Noctuidae) Resistance in Three Closely Related Corn Southern Synthetics. Journal of Economic Entomology, 2002, 95, 458-462.	0.8	18
56	Resistance to reduce corn borer damage in maize for bread, in Spain. Crop Protection, 2009, 28, 134-138.	1.0	18
57	Genetic Relationship Between Maize Resistance to Corn Borer Attack and Yield. Crop Science, 2012, 52, 1176-1180.	0.8	18
58	Assessing white maize resistance to fumonisin contamination. European Journal of Plant Pathology, 2014, 138, 283-292.	0.8	18
59	Genomics of Maize Resistance to Fusarium Ear Rot and Fumonisin Contamination. Toxins, 2020, 12, 431.	1.5	18
60	Antibiosis of the Pith Maize to <I>Sesamia nonagrioides</I> (Lepidoptera: Noctuidae). Journal of Economic Entomology, 2002, 95, 1044-1048.	0.8	17
61	Yield performance of the European Union Maize Landrace Core Collection under multiple corn borer infestations. Crop Protection, 2007, 26, 775-781.	1.0	17
62	Variation of sugary1 and shrunken2 gene frequency in different maize genetic backgrounds. Plant Breeding, 2006, 125, 478-481.	1.0	16
63	Association mapping for maize stover yield and saccharification efficiency using a multiparent advanced generation intercross (MAGIC) population. Scientific Reports, 2021, 11, 3425.	1.6	16
64	Ear Feeding Resistance of Sweet Corn Inbreds to Pink Stem Borer. Journal of the American Society for Horticultural Science, 1999, 124, 268-272.	0.5	16
65	Restriction Fragment Length Polymorphism Assessment of the Heterogeneous Nature of Maize Population GT-MAS:gk and Field Evaluation of Resistance to Aflatoxin Production by Aspergillus flavus. Journal of Food Protection, 2002, 65, 167-171.	0.8	15
66	Role of Hydroxycinnamic Acids in the Infection of Maize Silks by Fusarium graminearum Schwabe. Molecular Plant-Microbe Interactions, 2011, 24, 1020-1026.	1.4	15
67	Is It Possible to Control Fumonisin Contamination in Maize Kernels by Using Genotypes Resistant to the Mediterranean Corn Borer?. Journal of Economic Entomology, 2013, 106, 2241-2246.	0.8	15
68	Inducibility of chemical defences in young oak trees is stronger in species with high elevational ranges. Tree Physiology, 2019, 39, 606-614.	1.4	15
69	Ear Damage of Sweet Corn Inbreds and Their Hybrids under Multiple Corn Borer Infestation. Crop Science, 2002, 42, 724.	0.8	14
70	Performance of Crosses Among Flint Maize Populations Under Infestation by Sesamia nonagrioides (Lepidoptera: Noctuidae). Journal of Economic Entomology, 2004, 97, 1438-1443.	0.8	13
71	Searching for New Sources of Pink Stem Borer Resistance in Maize (Zea mays L.). Genetic Resources and Crop Evolution, 2006, 53, 1455-1462.	0.8	13
72	Maize Populations as Sources of Favorable Alleles to Improve Coldâ€Tolerant Hybrids. Crop Science, 2007, 47, 1779-1786.	0.8	13

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73	Genetics of resistance to the pink stem borer (Sesamia nonagrioides) in maize (Zea mays). Annals of Applied Biology, 2009, 154, 205-217.	1.3	13
74	Genome-wide association analysis for maize stem Cell Wall-bound Hydroxycinnamates. BMC Plant Biology, 2019, 19, 519.	1.6	13
75	Unraveling the role of maize (Zea mays L.) cell-wall phenylpropanoids in stem-borer resistance. Phytochemistry, 2021, 185, 112683.	1.4	13
76	Relationship Between Maize Stem Structural Characteristics and Resistance to Pink Stem Borer (Lepidoptera: Noctuidae) Attack. Journal of Economic Entomology, 2003, 96, 1563-1570.	0.8	13
77	Do Second Cycle Maize Inbreds Preserve the European Flint Heterotic Group?. Crop Science, 1999, 39, 1060-1064.	0.8	12
78	Combining Maize Base Germplasm for Cold Tolerance Breeding. Crop Science, 2007, 47, 1467-1474.	0.8	12
79	Is the basal area of maize internodes involved in borer resistance?. BMC Plant Biology, 2011, 11, 137.	1.6	12
80	Relationship Between Time to Flowering and Stalk and Ear Damage by Second Generation Corn Borers. Journal of Economic Entomology, 2013, 106, 1234-1239.	0.8	12
81	Lost P1 Allele in sh2 Sweet Corn: Quantitative Effects of p1 and a1 Genes on Concentrations of Maysin, Apimaysin, Methoxymaysin, and Chlorogenic Acid in Maize Silk. Journal of Economic Entomology, 2004, 97, 2117-2126.	0.8	11
82	Indirect response to selection for improving resistance to the Mediterranean corn borer (Sesamia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.6	11
83	Maize Stem Response to Long-Term Attack by Sesamia nonagrioides. Frontiers in Plant Science, 2018, 9, 522.	1.7	10
84	Usefulness of markerâ€assisted selection to improve maize for increased resistance to Sesamia nonagrioides attack with no detrimental effect on yield. Annals of Applied Biology, 2019, 174, 219-222.	1.3	10
85	Genetic and environmental factors reducing the incidence of the storage pest SitotrogaÂcerealella in maize. Entomologia Experimentalis Et Applicata, 2008, 128, 421-428.	0.7	9
86	Selection efficiency of tunnel length and stalk breakage to obtain maize inbred lines resistant to stem borer attack. Euphytica, 2014, 197, 295-302.	0.6	9
87	QTL for Maize Midparent Heterosis in the Heterotic Pattern American Dent Ã— European Flint under Corn Borer Pressure. Frontiers in Plant Science, 2017, 8, 573.	1.7	9
88	Genetic Dissection for Maize Forage Digestibility Traits in a Multi-Parent Advanced Generation Intercross (MAGIC) Population. Agronomy, 2021, 11, 104.	1.3	9
89	Response to Selection for the Timing of Vegetative Phase Transition in a Maize Population. Crop Science, 2002, 42, 1471-1474.	0.8	8
90	Five Cycles of Mass Selection for Earliness and Ear Appearance under Corn Borer Infestation in the Maize Synthetic BS17. Crop Science, 2012, 52, 2432-2437.	0.8	8

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91	Genomics of maize resistance to kernel contamination with fumonisins using a multiparental advanced generation InterCross maize population (MAGIC). BMC Plant Biology, 2021, 21, 596.	1.6	8
92	Genomics and Pathways Involved in Maize Resistance to Fusarium Ear Rot and Kernel Contamination With Fumonisins. Frontiers in Plant Science, 2022, 13, 866478.	1.7	8
93	Effects of selection for resistance to Sesamia nonagrioides on maize yield, performance and stability under infestation with Sesamia nonagrioides and Ostrinia nubilalis in Spain. Annals of Applied Biology, 2010, 156, 377-386.	1.3	7
94	Lost <I>P1</I> Allele in <I>sh2</I> Sweet Corn: Quantitative Effects of <I>p1</I> and <I>a1</I> Genes on Concentrations of Maysin, Apimaysin, Methoxymaysin, and Chlorogenic Acid in Maize Silk. Journal of Economic Entomology, 2004, 97, 2117-2126.	0.8	6
95	Genetics of the timing of vegetative phase transition in a maize population. Plant Breeding, 2004, 123, 585-586.	1.0	6
96	Effects of selection for maize resistance to Sesamia nonagrioides on the additive and dominant components of genetic variance. Plant Breeding, 2009, 128, 244-248.	1.0	6
97	Evaluation of structural and antibiosis resistance mechanisms during selection against Mediterranean corn borer (Sesamia nonagrioides Lef) in the maize synthetic EPS12. Crop Protection, 2010, 29, 7-10.	1.0	6
98	Combining abilities in maize for the length of the internode basal ring, the entry point of the Mediterranean corn borer larvae. Plant Breeding, 2011, 130, 268-270.	1.0	6
99	Molecular changes in two maize (Zea mays L.) synthetics after reciprocal selection with two alternative methods. Molecular Breeding, 2015, 35, 1.	1.0	6
100	Yield Evaluation of Maize Cultivars across Environments with Different Levels of Pink Stem Borer Infestation. Crop Science, 2004, 44, 741.	0.8	6
101	Performance of Crosses Among Flint Maize Populations Under Infestation by <I>Sesamia nonagrioides</I> (Lepidoptera: Noctuidae). Journal of Economic Entomology, 2004, 97, 1438-1443.	0.8	5
102	Effects of Selection for the Timing of Vegetative Phase Transition on Corn Borer (Lepidoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302	0.8	5
103	Causes of agronomic differences between synthetics developed by the random and convergent cross methods. Field Crops Research, 2009, 110, 229-234.	2.3	5
104	Comparison Among Sweet Corn Heterotic Patterns. Journal of the American Society for Horticultural Science, 2006, 131, 388-392.	0.5	5
105	Corn Borer (Lepidoptera: Noctuidae and Crambidae) Resistance of Main Races of Maize from North America. Journal of Economic Entomology, 2007, 100, 209-214.	0.8	4
106	Maize Silk Antibiotic Polyphenol Compounds and Molecular Genetic Improvement of Resistance to Corn Earworm (Helicoverpa zea Boddie) in sh2 Sweet Corn. International Journal of Plant Biology, 2010, 1, e3.	1.1	4
107	Agronomic performance of sweetcorn populations derived from crosses between sweetcorn and field corn. Spanish Journal of Agricultural Research, 2008, 6, 378.	0.3	4
108	Is leaf or sheath antibiosis involved in the resistance of maize composite EPS12 to Sesamia nonagrioides?. Canadian Entomologist, 2005, 137, 350-355.	0.4	3

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109	Effect of Long-Term Feeding by Borers on the Antibiotic Properties of Corn Stems. Journal of Economic Entomology, 2019, 112, 1439-1446.	0.8	3
110	Maize Resistance to Stem Borers Can Be Modulated by Systemic Maize Responses to Long-Term Stem Tunneling. Frontiers in Plant Science, 2020, 11, 627468.	1.7	3
111	Gibberella stalk rot (Fusarium graminearum) resistance of maize inbreds and their F₁hybrids and their potential for use in resistance breeding programs. Plant Breeding, 2009, 129, 454.	1.0	2
112	Transition between vegetative phases in maize: genetic effects and variances and associated markers. Journal of Agricultural Science, 2009, 147, 547-554.	0.6	2
113	Fine analysis of a genomic region involved in resistance to Mediterranean corn borer. BMC Plant Biology, 2018, 18, 169.	1.6	2
114	Eighteen cycles of recurrent mass selection for early flowering in two maize synthetics. Euphytica, 2019, 215, 1.	0.6	2
115	Evaluation of Popcorn Germplasm for Resistance to Sesamia nonagrioides Attack. Journal of Economic Entomology, 2005, 98, 1694-1697.	0.8	1
116	Genomics of Insect Resistance. Compendium of Plant Genomes, 2018, , 163-183.	0.3	1
117	Corn Borer (Lepidoptera: Noctuidae and Crambidae) Resistance of Main Races of Maize from North America. , 0, .		1
118	Identification of single nucleotide polymorphisms (SNPs) for maize cell wall hydroxycinnamates using a multi-parent advanced generation intercross (MAGIC) population. Phytochemistry, 2022, 193, 113002.	1.4	1
119	Evaluation of Popcorn Germplasm for Resistance to <I>Sesamia nonagrioides</I> Attack. Journal of Economic Entomology, 2005, 98, 1694-1697.	0.8	0