

Brad S Coates

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

1,765
citations

304602

22
h-index

345118

36
g-index

86
all docs

86
docs citations

86
times ranked

2092
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Comparative Performance of Single Nucleotide Polymorphism and Microsatellite Markers for Population Genetic Analysis. <i>Journal of Heredity</i> , 2009, 100, 556-564. | 1.0 | 139 |
| 2 | Partial mitochondrial genome sequences of <i>Ostrinia nubilalis</i> and <i>Ostrinia furnicalis</i> . <i>International Journal of Biological Sciences</i> , 2005, 1, 13-18. | 2.6 | 113 |
| 3 | Whole genome sequence of the soybean aphid, <i>Aphis glycines</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2020, 123, 102917. | 1.2 | 91 |
| 4 | Genome sequencing of the sweetpotato whitefly <i>Bemisia tabaci</i> MED/Q. <i>GigaScience</i> , 2017, 6, 1-7. | 3.3 | 90 |
| 5 | Genomic Basis of Circannual Rhythm in the European Corn Borer Moth. <i>Current Biology</i> , 2019, 29, 3501-3509.e5. | 1.8 | 69 |
| 6 | Linkage of an ABC transporter to a single QTL that controls <i>Ostrinia nubilalis</i> larval resistance to the <i>Bacillus thuringiensis</i> Cry1Fa toxin. <i>Insect Biochemistry and Molecular Biology</i> , 2015, 63, 86-96. | 1.2 | 48 |
| 7 | Down-regulation of aminopeptidase N and ABC transporter subfamily G transcripts in Cry1Ab and Cry1Ac resistant Asian corn borer, <i>Ostrinia furnacalis</i> (Lepidoptera: Crambidae). <i>International Journal of Biological Sciences</i> , 2017, 13, 835-851. | 2.6 | 43 |
| 8 | Allelic variation of a <i>Beauveria bassiana</i> (Ascomycota: Hypocreales) minisatellite is independent of host range and geographic origin. <i>Genome</i> , 2002, 45, 125-132. | 0.9 | 42 |
| 9 | The invasive MED/Q <i>Bemisia tabaci</i> genome: a tale of gene loss and gene gain. <i>BMC Genomics</i> , 2018, 19, 68. | 1.2 | 41 |
| 10 | Unlinked genetic loci control the reduced transcription of aminopeptidase N 1 and 3 in the European corn borer and determine tolerance to <i>Bacillus thuringiensis</i> Cry1Ab toxin. <i>Insect Biochemistry and Molecular Biology</i> , 2013, 43, 1152-1160. | 1.2 | 36 |
| 11 | A Helitron-Like Transposon Superfamily from Lepidoptera Disrupts (GAAA) _n Microsatellites and is Responsible for Flanking Sequence Similarity within a Microsatellite Family. <i>Journal of Molecular Evolution</i> , 2010, 70, 275-288. | 0.8 | 35 |
| 12 | A high-quality genome assembly from a single, field-collected spotted lanternfly (<i>Lycorma delicatula</i>) using the PacBio Sequel II system. <i>GigaScience</i> , 2019, 8, . | 3.3 | 35 |
| 13 | Spatial and Temporal Genetic Analyses Show High Gene Flow Among European Corn Borer (Lepidoptera: Crambidae) Populations Across the Central U.S. Corn Belt. <i>Environmental Entomology</i> , 2009, 38, 1312-1323. | 0.7 | 34 |
| 14 | Geographic and voltinism differentiation among North American <i>Ostrinia nubilalis</i> (European corn) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 | 0.6 | 33 |
| 15 | Male- and Female-Biased Gene Expression of Olfactory-Related Genes in the Antennae of Asian Corn Borer, <i>Ostrinia furnacalis</i> (Guené) (Lepidoptera: Crambidae). <i>PLoS ONE</i> , 2015, 10, e0128550. | 1.1 | 33 |
| 16 | Assembly and annotation of full mitochondrial genomes for the corn rootworm species, <i>Diabrotica virgifera virgifera</i> and <i>Diabrotica barberi</i> (Insecta: Coleoptera: Chrysomelidae), using Next Generation Sequence data. <i>Gene</i> , 2014, 542, 190-197. | 1.0 | 32 |
| 17 | The USDA-ARS Ag100Pest Initiative: High-Quality Genome Assemblies for Agricultural Pest Arthropod Research. <i>Insects</i> , 2021, 12, 626. | 1.0 | 31 |
| 18 | Repetitive genome elements in a European corn borer, <i>Ostrinia nubilalis</i> , bacterial artificial chromosome library were indicated by bacterial artificial chromosome end sequencing and development of sequence tag site markers: implications for lepidopteran genomic research. <i>Genome</i> , 2009, 52, 57-67. | 0.9 | 29 |

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|----|---|-----|-----------|
| 19 | A combination of sexual and ecological divergence contributes to rearrangement spread during initial stages of speciation. <i>Molecular Ecology</i> , 2017, 26, 2331-2347. | 2.0 | 28 |
| 20 | Transcriptional analysis of susceptible and resistant European corn borer strains and their response to Cry1F protoxin. <i>BMC Genomics</i> , 2015, 16, 558. | 1.2 | 27 |
| 21 | Binding affinity of five PBPs to <i>Ostrinia sex</i> pheromones. <i>BMC Molecular Biology</i> , 2017, 18, 4. | 3.0 | 27 |
| 22 | Nuclear small subunit rRNA group I intron variation among <i>Beauveria</i> spp provide tools for strain identification and evidence of horizontal transfer. <i>Current Genetics</i> , 2002, 41, 414-424. | 0.8 | 26 |
| 23 | The Application and Performance of Single Nucleotide Polymorphism Markers for Population Genetic Analyses of Lepidoptera. <i>Frontiers in Genetics</i> , 2011, 2, 38. | 1.1 | 24 |
| 24 | Changes in Neuronal Signaling and Cell Stress Response Pathways are Associated with a Multigenic Response of <i>Drosophila melanogaster</i> to DDT Selection. <i>Genome Biology and Evolution</i> , 2017, 9, 3356-3372. | 1.1 | 24 |
| 25 | Genome sequence of the wheat stem sawfly, <i>Cephus cinctus</i> , representing an early-branching lineage of the Hymenoptera, illuminates evolution of hymenopteran chemoreceptors. <i>Genome Biology and Evolution</i> , 2018, 10, 2997-3011. | 1.1 | 24 |
| 26 | Agricultural applications of insect ecological genomics. <i>Current Opinion in Insect Science</i> , 2016, 13, 61-69. | 2.2 | 23 |
| 27 | Frequency of hybridization between <i>Ostrinia nubilalis</i> and <i>Z. triticeae</i> pheromone races in regions of sympatry within the United States. <i>Ecology and Evolution</i> , 2013, 3, 2459-2470. | 0.8 | 22 |
| 28 | Selective Sweep Analysis in the Genomes of the 91-R and 91-C <i>Drosophila melanogaster</i> Strains Reveals Few of the "Usual Suspects" in Dichlorodiphenyltrichloroethane (DDT) Resistance. <i>PLoS ONE</i> , 2015, 10, e0123066. | 1.1 | 22 |
| 29 | Evaluation of Tolerance to <i>Bacillus thuringiensis</i> Toxins Among Laboratory-Reared Western Bean Cutworm (Lepidoptera: Noctuidae). <i>Journal of Economic Entomology</i> , 2013, 106, 2467-2472. | 0.8 | 21 |
| 30 | bric-Å controls sex pheromone choice by male European corn borer moths. <i>Nature Communications</i> , 2021, 12, 2818. | 5.8 | 21 |
| 31 | Sequence variation in the cadherin gene of <i>Ostrinia nubilalis</i> : a tool for field monitoring. <i>Insect Biochemistry and Molecular Biology</i> , 2005, 35, 129-139. | 1.2 | 20 |
| 32 | Distribution of Genes and Repetitive Elements in the <i>Diabrotica virgifera virgifera</i> Genome Estimated Using BAC Sequencing. <i>Journal of Biomedicine and Biotechnology</i> , 2012, 2012, 1-9. | 3.0 | 20 |
| 33 | The Genetic Structure of Asian Corn Borer, <i>Ostrinia furnacalis</i> , Populations in China: Haplotype Variance in Northern Populations and Potential Impact on Management of Resistance to Transgenic Maize. <i>Journal of Heredity</i> , 2014, 105, 642-655. | 1.0 | 20 |
| 34 | Comparative profiling of microRNAs in the winged and wingless English grain aphid, <i>Sitobion avenae</i> (F.) (Homoptera: Aphididae). <i>Scientific Reports</i> , 2016, 6, 35668. | 1.6 | 20 |
| 35 | Impacts of Sub-lethal DDT Exposures on microRNA and Putative Target Transcript Expression in DDT Resistant and Susceptible <i>Drosophila melanogaster</i> Strains. <i>Frontiers in Genetics</i> , 2019, 10, 45. | 1.1 | 20 |
| 36 | Horizontal transfer of a non-autonomous Helitron among insect and viral genomes. <i>BMC Genomics</i> , 2015, 16, 137. | 1.2 | 19 |

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|----|---|-----|-----------|
| 37 | Comparative CYP ω omic analysis between the DDT ω susceptible and ω resistant <i>Drosophila melanogaster</i> strains 91 ω C and 91 ω R. <i>Pest Management Science</i> , 2018, 74, 2530-2543. | 1.7 | 19 |
| 38 | Genetic Differentiation among <i>Maruca vitrata</i> F. (Lepidoptera: Crambidae) Populations on Cultivated Cowpea and Wild Host Plants: Implications for Insect Resistance Management and Biological Control Strategies. <i>PLoS ONE</i> , 2014, 9, e92072. | 1.1 | 19 |
| 39 | A single major QTL controls expression of larval Cry1F resistance trait in <i>Ostrinia nubilalis</i> (Lepidoptera: Crambidae) and is independent of midgut receptor genes. <i>Genetica</i> , 2011, 139, 961-972. | 0.5 | 17 |
| 40 | Mobilizing the Genome of Lepidoptera through Novel Sequence Gains and End Creation by Non-autonomous Lep1 Helitrons. <i>DNA Research</i> , 2012, 19, 11-21. | 1.5 | 17 |
| 41 | Introgression between divergent corn borer species in a region of sympatry: Implications on the evolution and adaptation of pest arthropods. <i>Molecular Ecology</i> , 2017, 26, 6892-6907. | 2.0 | 17 |
| 42 | Differentially expressed microRNAs associated with changes of transcript levels in detoxification pathways and DDT-resistance in the <i>Drosophila melanogaster</i> strain 91-R. <i>PLoS ONE</i> , 2018, 13, e0196518. | 1.1 | 16 |
| 43 | Two sex-chromosome-linked microsatellite loci show geographic variance among North American <i>Ostrinia nubilalis</i> . <i>Journal of Insect Science</i> , 2003, 3, 29. | 0.6 | 15 |
| 44 | Soybean aphid biotype 1 genome: Insights into the invasive biology and adaptive evolution of a major agricultural pest. <i>Insect Biochemistry and Molecular Biology</i> , 2020, 120, 103334. | 1.2 | 15 |
| 45 | A β -1,3-galactosyltransferase and brainiac/br5 homolog expressed in the midgut did not contribute to a Cry1Ab toxin resistance trait in <i>Ostrinia nubilalis</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2007, 37, 346-355. | 1.2 | 14 |
| 46 | A rearrangement of the Z chromosome topology influences the sex-linked gene display in the European corn borer, <i>Ostrinia nubilalis</i> . <i>Molecular Genetics and Genomics</i> , 2011, 286, 37-56. | 1.0 | 13 |
| 47 | Endogenous viral elements integrated into the genome of the soybean aphid, <i>Aphis glycines</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2020, 123, 103405. | 1.2 | 13 |
| 48 | Genome-Wide Sequencing and an Open Reading Frame Analysis of Dichlorodiphenyltrichloroethane (DDT) Susceptible (91-C) and Resistant (91-R) <i>Drosophila melanogaster</i> Laboratory Populations. <i>PLoS ONE</i> , 2014, 9, e98584. | 1.1 | 12 |
| 49 | Genomic mechanisms of sympatric ecological and sexual divergence in a model agricultural pest, the European corn borer. <i>Current Opinion in Insect Science</i> , 2018, 26, 50-56. | 2.2 | 12 |
| 50 | Influence of host plant, geography and pheromone strain on genomic differentiation in sympatric populations of <i>Ostrinia nubilalis</i> . <i>Molecular Ecology</i> , 2019, 28, 4439-4452. | 2.0 | 11 |
| 51 | Genetic structure and gene flow among European corn borer populations from the Great Plains to the Appalachians of North America. <i>Agricultural and Forest Entomology</i> , 2011, 13, 383-393. | 0.7 | 10 |
| 52 | Temporal analysis of microRNAs associated with wing development in the English grain aphid, <i>Sitobion avenae</i> (F.) (Homoptera: Aphididae). <i>Insect Biochemistry and Molecular Biology</i> , 2022, 142, 103579. | 1.2 | 10 |
| 53 | Polymorphic CA/GT and GA/CT microsatellite loci for <i>Ostrinia nubilalis</i> (Lepidoptera: Crambidae). <i>Molecular Ecology Notes</i> , 2005, 5, 10-12. | 1.7 | 9 |
| 54 | <i>Bacillus thuringiensis</i> toxin resistance mechanisms among Lepidoptera: progress on genomic approaches to uncover causal mutations in the European corn borer, <i>Ostrinia nubilalis</i> . <i>Current Opinion in Insect Science</i> , 2016, 15, 70-77. | 2.2 | 9 |

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|----|---|-----|-----------|
| 55 | Effects of Wolbachia on mitochondrial DNA variation in populations of <i>Athetis lepigone</i> (Lepidoptera: Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 142) 826-834. | 0.7 | 9 |
| 56 | Post-transcriptional modulation of cytochrome P450s, Cyp6g1 and Cyp6g2, by miR-310s cluster is associated with DDT-resistant <i>Drosophila melanogaster</i> strain 91-R. Scientific Reports, 2020, 10, 14394. | 1.6 | 9 |
| 57 | Nudivirus Sequences Identified from the Southern and Western Corn Rootworms (Coleoptera: Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 142) | 1.5 | 9 |
| 58 | Consequences of coupled barriers to gene flow for the build-up of genomic differentiation. Evolution; International Journal of Organic Evolution, 2022, 76, 985-1002. | 1.1 | 9 |
| 59 | Cytochrome P450s Cyp4p1 and Cyp4p2 associated with the DDT tolerance in the <i>Drosophila melanogaster</i> strain 91-R. Pesticide Biochemistry and Physiology, 2019, 159, 136-143. | 1.6 | 8 |
| 60 | Structural and functional insights into the <i>Diabrotica virgifera virgifera</i> ATP-binding cassette transporter gene family. BMC Genomics, 2019, 20, 899. | 1.2 | 8 |
| 61 | Geographic Distribution of <i>Bacillus thuringiensis</i> Cry1F Toxin Resistance in Western Bean Cutworm (Lepidoptera: Noctuidae) Populations in the United States. Journal of Economic Entomology, 2020, 113, 2465-2472. | 0.8 | 8 |
| 62 | Estimation of long terminal repeat element content in the <i>Helicoverpa zea</i> genome from high-throughput sequencing of bacterial artificial chromosome pools. Genome, 2017, 60, 310-324. | 0.9 | 7 |
| 63 | Evidence of enhanced reproductive performance and lack of fitness costs among soybean aphids, <i>Aphis glycines</i> , with varying levels of pyrethroid resistance. Pest Management Science, 2022, 78, 2000-2010. | 1.7 | 7 |
| 64 | Two differentially expressed ommochrome-binding protein-like genes (obp1 and obp2) in larval fat body of the European corn borer, <i>Ostrinia nubilalis</i> . Journal of Insect Science, 2005, 5, 19. | 0.6 | 6 |
| 65 | Proliferation and copy number variation of BEL-like long terminal repeat retrotransposons within the <i>Diabrotica virgifera virgifera</i> genome. Gene, 2014, 534, 362-370. | 1.0 | 6 |
| 66 | Genome scan detection of selective sweeps among biotypes of the soybean aphid, <i>Aphis glycines</i> , with differing virulence to resistance to <i>A. glycines</i> (Rag) traits in soybean, <i>Glycine max</i> . Insect Biochemistry and Molecular Biology, 2020, 124, 103364. | 1.2 | 6 |
| 67 | Comparison of the mitochondrial genomes of the Old and New World strains of the legume pod borer, <i>Maruca vitrata</i> (Lepidoptera: Crambidae). International Journal of Tropical Insect Science, 2017, 37, 125-136. | 0.4 | 5 |
| 68 | Genome size evolution in the beetle genus <i>Diabrotica</i> . G3: Genes, Genomes, Genetics, 2022, 12, . | 0.8 | 5 |
| 69 | Up-regulation of apoptotic- and cell survival-related gene pathways following exposures of western corn rootworm to <i>B. thuringiensis</i> crystalline pesticidal proteins in transgenic maize roots. BMC Genomics, 2021, 22, 639. | 1.2 | 4 |
| 70 | The mitochondrial genome of the American lotus borer, <i>Ostrinia penitalis</i> (Lepidoptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142) | 0.6 | 3 |
| 71 | The mitochondrial genome of the western bean cutworm, <i>Striacosta albicosta</i> (Lepidoptera: Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 142) | 0.2 | 3 |
| 72 | Dietary antioxidant vitamin C influences the evolutionary path of insecticide resistance in <i>Drosophila melanogaster</i> . Pesticide Biochemistry and Physiology, 2020, 168, 104631. | 1.6 | 3 |

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|----|---|-----|-----------|
| 73 | Influence of voltine ecotype and geographic distance on genetic and haplotype variation in the Asian corn borer. <i>Ecology and Evolution</i> , 2021, 11, 10244-10257. | 0.8 | 3 |
| 74 | Selection of Reference Genes for RT-qPCR Analysis of Wing Dimorphism in English Grain Aphid, <i>Sitobion avenae</i> (Hemiptera: Aphididae). <i>Journal of Economic Entomology</i> , 2022, 115, 313-324. | 0.8 | 3 |
| 75 | Proliferation and copy number variation of BEL-like long terminal repeat retrotransposons within the <i>Diabrotica virgifera virgifera</i> genome. <i>Gene</i> , 2014, 534, 362-70. | 1.0 | 3 |
| 76 | Characterization of 12 Novel Microsatellite Markers of <i>Sogatella furcifera</i> (Hemiptera: Delphacidae) Identified From Next-Generation Sequence Data. <i>Journal of Insect Science</i> , 2015, 15, 94. | 0.6 | 2 |
| 77 | The complete mitochondrial genome of <i>Anoplocnemis curvipes</i> F. (Coreinea, Coreidae). <i>Tj ETQq1 1 0.784314 rgBT / Overlock 107</i> | 0.2 | 2 |
| 78 | Variation in Mitochondria-Derived Transcript Levels Associated With DDT Resistance in the 91-R Strain of <i>Drosophila melanogaster</i> (Diptera: Drosophilidae). <i>Journal of Insect Science</i> , 2018, 18, . | 0.6 | 2 |
| 79 | Differentiation of European Corn Borer (Lepidoptera: Crambidae) and American Lotus Borer (Lepidoptera: Crambidae), <i>Ostrinia penitalis</i> , from North American Field Collections. <i>Journal of Economic Entomology</i> , 2019, 112, 2007-2011. | 0.8 | 2 |
| 80 | Sequences Encoding a Novel Toursvirus Identified from Southern and Northern Corn Rootworms (Coleoptera: Chrysomelidae). <i>Viruses</i> , 2022, 14, 397. | 1.5 | 1 |
| 81 | Evaluation of Eight Maize Germplasm Developed in Ecuador for Resistance to Leaf-Feeding Fall Armyworm 1. <i>Southwestern Entomologist</i> , 2020, 45, 75. | 0.1 | 0 |