

Brad S Coates

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76
papers

1,245
citations

19
h-index

30
g-index

86
ext. papers

1,559
ext. citations

3.9
avg, IF

4.7
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 76 | Evidence of enhanced reproductive performance and lack of fitness costs among soybean aphid, <i>Aphis glycines</i> , with varying levels of pyrethroid resistance.. <i>Pest Management Science</i> , 2022 , | 4.6 | 1 |
| 75 | Temporal analysis of microRNAs associated with wing development in the English grain aphid, <i>Sitobion avenae</i> (F.) (Homoptera: Aphidiae). <i>Insect Biochemistry and Molecular Biology</i> , 2021 , 142, 103579 | 4.5 | 5 |
| 74 | bric 1brac controls sex pheromone choice by male European corn borer moths. <i>Nature Communications</i> , 2021 , 12, 2818 | 17.4 | 5 |
| 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 | 2.8 | 0 |
| 72 | Nudivirus Sequences Identified from the Southern and Western Corn Rootworms (Coleoptera: Chrysomelidae). <i>Viruses</i> , 2021 , 13, | 6.2 | 2 |
| 71 | The USDA-ARS Ag100Pest Initiative: High-Quality Genome Assemblies for Agricultural Pest Arthropod Research. <i>Insects</i> , 2021 , 12, | 2.8 | 9 |
| 70 | 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. <i>BMC Genomics</i> , 2021 , 22, 639 | 4.5 | 0 |
| 69 | Dietary antioxidant vitamin C influences the evolutionary path of insecticide resistance in <i>Drosophila melanogaster</i> . <i>Pesticide Biochemistry and Physiology</i> , 2020 , 168, 104631 | 4.9 | 3 |
| 68 | 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> . <i>Insect Biochemistry and Molecular Biology</i> , 2020 , 124, 103364 | 4.5 | 4 |
| 67 | 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 | 4.5 | 6 |
| 66 | 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 | 4.5 | 8 |
| 65 | Evaluation of Eight Maize Germplasms Developed in Ecuador for Resistance to Leaf-Feeding Fall Armyworm1. <i>Southwestern Entomologist</i> , 2020 , 45, 75 | 0.3 | |
| 64 | Geographic Distribution of <i>Bacillus thuringiensis</i> Cry1F Toxin Resistance in Western Bean Cutworm (Lepidoptera: Noctuidae) Populations in the United States. <i>Journal of Economic Entomology</i> , 2020 , 113, 2465-2472 | 2.2 | 1 |
| 63 | 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. <i>Scientific Reports</i> , 2020 , 10, 14394 | 4.9 | 4 |
| 62 | Whole genome sequence of the soybean aphid, <i>Aphis glycines</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2020 , 123, 102917 | 4.5 | 55 |
| 61 | Impacts of Sub-lethal DDT Exposures on microRNA and Putative Target Transcript Expression in DDT Resistant and Susceptible Strains. <i>Frontiers in Genetics</i> , 2019 , 10, 45 | 4.5 | 15 |
| 60 | Cytochrome P450s Cyp4p1 and Cyp4p2 associated with the DDT tolerance in the <i>Drosophila melanogaster</i> strain 91-R. <i>Pesticide Biochemistry and Physiology</i> , 2019 , 159, 136-143 | 4.9 | 4 |

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|----|--|------|----|
| 59 | 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 | 5.7 | 6 |
| 58 | 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, | 7.6 | 21 |
| 57 | 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 | 2.2 | 2 |
| 56 | Genomic Basis of Circannual Rhythm in the European Corn Borer Moth. <i>Current Biology</i> , 2019 , 29, 3501-3509.e536 | 5.6 | 5 |
| 55 | Structural and functional insights into the <i>Diabrotica virgifera virgifera</i> ATP-binding cassette transporter gene family. <i>BMC Genomics</i> , 2019 , 20, 899 | 4.5 | 5 |
| 54 | Comparative CYP-omic analysis between the DDT-susceptible and -resistant <i>Drosophila melanogaster</i> strains 91-C and 91-R. <i>Pest Management Science</i> , 2018 , 74, 2530-2543 | 4.6 | 11 |
| 53 | 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 | 5.1 | 8 |
| 52 | The invasive MED/Q <i>Bemisia tabaci</i> genome: a tale of gene loss and gene gain. <i>BMC Genomics</i> , 2018 , 19, 68 | 4.5 | 21 |
| 51 | 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, | 2 | 2 |
| 50 | 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 | 3.9 | 18 |
| 49 | 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 | 3.7 | 13 |
| 48 | A combination of sexual and ecological divergence contributes to rearrangement spread during initial stages of speciation. <i>Molecular Ecology</i> , 2017 , 26, 2331-2347 | 5.7 | 16 |
| 47 | Genome sequencing of the sweetpotato whitefly <i>Bemisia tabaci</i> MED/Q. <i>GigaScience</i> , 2017 , 6, 1-7 | 7.6 | 60 |
| 46 | Down-regulation of aminopeptidase N and ABC transporter subfamily G transcripts in Cry1Ab and Cry1Ac resistant Asian corn borer, (Lepidoptera: Crambidae). <i>International Journal of Biological Sciences</i> , 2017 , 13, 835-851 | 11.2 | 28 |
| 45 | 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 | 3.9 | 19 |
| 44 | Comparison of the mitochondrial genomes of the Old and New World strains of the legume pod borer, <i>Maruca vitrata</i> (Lepidoptera: Crambidae). <i>International Journal of Tropical Insect Science</i> , 2017 , 37, 125-136 | 1 | 2 |
| 43 | The complete mitochondrial genome of F. (Coreinea, Coreidae, Heteroptera), a pest of fresh cowpea pods. <i>Mitochondrial DNA Part B: Resources</i> , 2017 , 2, 421-423 | 0.5 | 2 |
| 42 | 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 | 5.7 | 10 |

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|----|--|-----|----|
| 41 | Binding affinity of five PBPs to Ostrinia sex pheromones. <i>BMC Molecular Biology</i> , 2017 , 18, 4 | 4.5 | 19 |
| 40 | Effects of Wolbachia on mitochondrial DNA variation in populations of <i>Athetis lepigone</i> (Lepidoptera: Noctuidae) in China. <i>Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis</i> , 2017 , 28, 826-834 | 1.3 | 8 |
| 39 | Estimation of long terminal repeat element content in the <i>Helicoverpa zea</i> genome from high-throughput sequencing of bacterial artificial chromosome pools. <i>Genome</i> , 2017 , 60, 310-324 | 2.4 | 2 |
| 38 | 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 | 4.9 | 15 |
| 37 | The mitochondrial genome of the western bean cutworm, (Lepidoptera: Noctuidae). <i>Mitochondrial DNA Part B: Resources</i> , 2016 , 1, 487-488 | 0.5 | 3 |
| 36 | Agricultural applications of insect ecological genomics. <i>Current Opinion in Insect Science</i> , 2016 , 13, 61-69 | 5.1 | 17 |
| 35 | The mitochondrial genome of the American lotus borer, <i>Ostrinia penitalis</i> (Lepidoptera: Crambidae). <i>Mitochondrial DNA</i> , 2016 , 27, 1938-9 | | 3 |
| 34 | <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, 70-7 | 5.1 | 7 |
| 33 | Horizontal transfer of a non-autonomous Helitron among insect and viral genomes. <i>BMC Genomics</i> , 2015 , 16, 137 | 4.5 | 16 |
| 32 | Linkage of an ABCC 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 | 4.5 | 36 |
| 31 | 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, | 2 | 2 |
| 30 | Transcriptional analysis of susceptible and resistant European corn borer strains and their response to Cry1F protoxin. <i>BMC Genomics</i> , 2015 , 16, 558 | 4.5 | 22 |
| 29 | Selective sweep analysis in the genomes of the 91-R and 91-C <i>Drosophila melanogaster</i> strains reveals few of the visual suspects in dichlorodiphenyltrichloroethane (DDT) resistance. <i>PLoS ONE</i> , 2015 , 10, e0123066 | 3.7 | 19 |
| 28 | 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 | 3.7 | 23 |
| 27 | 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, 362-370 | 3.8 | 3 |
| 26 | 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 | 3.7 | 11 |
| 25 | 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, 642-55 | 2.4 | 17 |
| 24 | 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, 190-7 | 3.8 | 30 |

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|----|--|-----|----|
| 23 | 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 | 3.7 | 16 |
| 22 | 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, 1152-60 | 4.5 | 30 |
| 21 | 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, 2467-72 | 2.2 | 13 |
| 20 | Frequency of hybridization between <i>Ostrinia nubilalis</i> E-and Z-pheromone races in regions of sympatry within the United States. <i>Ecology and Evolution</i> , 2013 , 3, 2459-70 | 2.8 | 14 |
| 19 | 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 | 4.5 | 15 |
| 18 | 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, 604076 | | 11 |
| 17 | The application and performance of single nucleotide polymorphism markers for population genetic analyses of lepidoptera. <i>Frontiers in Genetics</i> , 2011 , 2, 38 | 4.5 | 19 |
| 16 | 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 | 1.9 | 9 |
| 15 | 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, 961-72 | 1.5 | 16 |
| 14 | 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 | 3.1 | 10 |
| 13 | 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, 275-88 | 3.1 | 34 |
| 12 | 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, 1312-23 | 2.1 | 30 |
| 11 | Comparative performance of single nucleotide polymorphism and microsatellite markers for population genetic analysis. <i>Journal of Heredity</i> , 2009 , 100, 556-64 | 2.4 | 99 |
| 10 | 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>Genetics</i> , 2009 , 177, 17-27 | 2.4 | 28 |
| 9 | A beta-1,3-galactosyltransferase and brainiac/bre5 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, 346-55 | 4.5 | 13 |
| 8 | Two differentially expressed ommochrome-binding protein-like genes (<i>obp1</i> and <i>obp2</i>) in larval fat body of the European corn borer, <i>Ostrinia nubilalis</i> . <i>Journal of Insect Science</i> , 2005 , 5, 19 | 2 | 5 |
| 7 | 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, 129-39 | 4.5 | 18 |
| 6 | Polymorphic CA/GT and GA/CT microsatellite loci for <i>Ostrinia nubilalis</i> (Lepidoptera: Crambidae). <i>Molecular Ecology Notes</i> , 2005 , 5, 10-12 | | 8 |

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| 5 | Partial mitochondrial genome sequences of <i>Ostrinia nubilalis</i> and <i>Ostrinia furnicalis</i> . <i>International Journal of Biological Sciences</i> , 2005 , 1, 13-8 | 11.2 | 99 |
| 4 | Geographic and voltinism differentiation among North American <i>Ostrinia nubilalis</i> (European corn borer) mitochondrial cytochrome c oxidase haplotypes. <i>Journal of Insect Science</i> , 2004 , 4, 35 | 2 | 25 |
| 3 | 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 | 2 | 13 |
| 2 | 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, 414-24 | 2.9 | 25 |
| 1 | Allelic variation of a <i>Beauveria bassiana</i> (Ascomycota: Hypocreales) minisatellite is independent of host range and geographic origin. <i>Genome</i> , 2002 , 45, 125-32 | 2.4 | 36 |