

# Sean D Schoville

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

3,166  
citations

257357

24  
h-index

182361

51  
g-index

82  
all docs

82  
docs citations

82  
times ranked

4401  
citing authors

#	ARTICLE	IF	CITATIONS
1	Testing for Associations between Loci and Environmental Gradients Using Latent Factor Mixed Models. <i>Molecular Biology and Evolution</i> , 2013, 30, 1687-1699.	3.5	627
2	Adaptive Genetic Variation on the Landscape: Methods and Cases. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2012, 43, 23-43.	3.8	250
3	A model species for agricultural pest genomics: the genome of the Colorado potato beetle, <i>Leptinotarsa decemlineata</i> (Coleoptera: Chrysomelidae). <i>Scientific Reports</i> , 2018, 8, 1931.	1.6	215
4	Controlling false discoveries in genome scans for selection. <i>Molecular Ecology</i> , 2016, 25, 454-469.	2.0	210
5	Investigating the molecular basis of local adaptation to thermal stress: population differences in gene expression across the transcriptome of the copepod <i>Tigriopus californicus</i> . <i>BMC Evolutionary Biology</i> , 2012, 12, 170.	3.2	150
6	Gene content evolution in the arthropods. <i>Genome Biology</i> , 2020, 21, 15.	3.8	150
7	Species diversity of insects in Japan: Their origins and diversification processes. <i>Entomological Science</i> , 2017, 20, 357-381.	0.3	96
8	Permanent Genetic Resources added to Molecular Ecology Resources Database 1 October 2009–30 November 2009. <i>Molecular Ecology Resources</i> , 2010, 10, 404-408.	2.2	84
9	Detecting adaptive evolution based on association with ecological gradients: Orientation matters!. <i>Heredity</i> , 2015, 115, 22-28.	1.2	76
10	Is Chytridiomycosis an Emerging Infectious Disease in Asia?. <i>PLoS ONE</i> , 2011, 6, e23179.	1.1	76
11	Pesticide durability and the evolution of resistance: A novel application of survival analysis. <i>Pest Management Science</i> , 2018, 74, 1953-1963.	1.7	59
12	Rapid evolution in insect pests: the importance of space and time in population genomics studies. <i>Current Opinion in Insect Science</i> , 2018, 26, 8-16.	2.2	58
13	Characterizing Molecular Mechanisms of Imidacloprid Resistance in Select Populations of <i>Leptinotarsa decemlineata</i> in the Central Sands Region of Wisconsin. <i>PLoS ONE</i> , 2016, 11, e0147844.	1.1	57
14	Landscape genomics of Colorado potato beetle provides evidence of polygenic adaptation to insecticides. <i>Molecular Ecology</i> , 2017, 26, 6284-6300.	2.0	56
15	Testing the "Pleistocene species pump"™ in alpine habitats: lineage diversification of flightless ground beetles (Coleoptera: Carabidae: <i>Nebria</i> ) in relation to altitudinal zonation. <i>Biological Journal of the Linnean Society</i> , 2012, 107, 95-111.	0.7	55
16	RNA interference of three up-regulated transcripts associated with insecticide resistance in an imidacloprid resistant population of <i>Leptinotarsa decemlineata</i> . <i>Pesticide Biochemistry and Physiology</i> , 2017, 135, 35-40.	1.6	47
17	Evolutionary diversification of cryophilic <i>Grylloblatta</i> species (Grylloblattodea: Grylloblattidae) in alpine habitats of California. <i>BMC Evolutionary Biology</i> , 2010, 10, 163.	3.2	44
18	Recent collapse of crop belts and declining diversity of US agriculture since 1840. <i>Global Change Biology</i> , 2021, 27, 151-164.	4.2	40

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19	Alpine biogeography of Parnassian butterflies during Quaternary climate cycles in North America. <i>Molecular Ecology</i> , 2009, 18, 3471-3485.	2.0	37
20	Origin of Pest Lineages of the Colorado Potato Beetle (Coleoptera: Chrysomelidae). <i>Journal of Economic Entomology</i> , 2018, 111, 868-878.	0.8	35
21	Reverse genetics in the tide pool: knock-down of target gene expression via <i>RNA interference</i> in the copepod <i>Tigriopus californicus</i> . <i>Molecular Ecology Resources</i> , 2015, 15, 868-879.	2.2	31
22	Genome Resequencing Reveals Rapid, Repeated Evolution in the Colorado Potato Beetle. <i>Molecular Biology and Evolution</i> , 2022, 39, .	3.5	31
23	Pleistocene origin and population history of a neoendemic alpine butterfly. <i>Molecular Ecology</i> , 2011, 20, 1233-1247.	2.0	29
24	Insecticide exposure affects intergenerational patterns of DNA methylation in the Colorado potato beetle, <i>Leptinotarsa decemlineata</i> . <i>Evolutionary Applications</i> , 2021, 14, 746-757.	1.5	29
25	Physiological Limits along an Elevational Gradient in a Radiation of Montane Ground Beetles. <i>PLoS ONE</i> , 2016, 11, e0151959.	1.1	29
26	Correcting Principal Component Maps for Effects of Spatial Autocorrelation in Population Genetic Data. <i>Frontiers in Genetics</i> , 2012, 3, 254.	1.1	28
27	A Comparison of Resistance to Imidacloprid in Colorado Potato Beetle ( <i>Leptinotarsa decemlineata</i> Say) Populations Collected in the Northwest and Midwest U.S.. <i>American Journal of Potato Research</i> , 2018, 95, 495-503.	0.5	28
28	Ice Crawlers (Grylloblattodea) – the history of the investigation of a highly unusual group of insects. <i>Journal of Insect Biodiversity</i> , 2014, 2, 1.	0.1	26
29	Conservation genetics of evolutionary lineages of the endangered mountain yellow-legged frog, <i>Rana muscosa</i> (Amphibia: Ranidae), in southern California. <i>Biological Conservation</i> , 2011, 144, 2031-2040.	1.9	24
30	Colliding fragment islands transport independent lineages of endemic rock-crawlers (Grylloblattodea: Grylloblattidae) in the Japanese archipelago. <i>Molecular Phylogenetics and Evolution</i> , 2013, 66, 915-927.	1.2	24
31	Sharing and reporting benefits from biodiversity research. <i>Molecular Ecology</i> , 2021, 30, 1103-1107.	2.0	19
32	Conserved and narrow temperature limits in alpine insects: Thermal tolerance and supercooling points of the ice-crawlers, <i>Grylloblatta</i> (Insecta: Grylloblattodea: Grylloblattidae). <i>Journal of Insect Physiology</i> , 2015, 78, 55-61.	0.9	18
33	Regional differences in gene regulation may underlie patterns of sensitivity to novel insecticides in <i>Leptinotarsa decemlineata</i> . <i>Pest Management Science</i> , 2020, 76, 4278-4285.	1.7	18
34	Effects of contemporary agricultural land cover on Colorado potato beetle genetic differentiation in the Columbia Basin and Central Sands. <i>Ecology and Evolution</i> , 2019, 9, 9385-9394.	0.8	17
35	Temporal patterns of imidacloprid resistance throughout a growing season in <i>Leptinotarsa decemlineata</i> populations. <i>Pest Management Science</i> , 2017, 73, 641-650.	1.7	17
36	Preserving genetic connectivity in the European Alps protected area network. <i>Biological Conservation</i> , 2018, 218, 99-109.	1.9	16

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37	Elevated rates of positive selection drive the evolution of pestiferousness in the Colorado potato beetle ( <i>Leptinotarsa decemlineata</i> , Say). <i>Molecular Ecology</i> , 2021, 30, 237-254.	2.0	16
38	Morphological Clines and Weak Drift along an Urbanization Gradient in the Butterfly, <i>Pieris rapae</i> . <i>PLoS ONE</i> , 2013, 8, e83095.	1.1	15
39	A range-wide genetic bottleneck overwhelms contemporary landscape factors and local abundance in shaping genetic patterns of an alpine butterfly (Lepidoptera: Pieridae: <i>Colias behrii</i> ). <i>Molecular Ecology</i> , 2012, 21, 4242-4256.	2.0	14
40	Agricultural fungicides inadvertently influence the fitness of Colorado potato beetles, <i>Leptinotarsa decemlineata</i> , and their susceptibility to insecticides. <i>Scientific Reports</i> , 2018, 8, 13282.	1.6	14
41	Editorial overview: Ecology: Ecological adaptation in agroecosystems: novel opportunities to integrate evolutionary biology and agricultural entomology. <i>Current Opinion in Insect Science</i> , 2018, 26, iv-viii.	2.2	14
42	Patterns of genetic differentiation in Colorado potato beetle correlate with contemporary, not historic, potato land cover. <i>Evolutionary Applications</i> , 2019, 12, 804-814.	1.5	14
43	Updated checklist of the ice-crawlers (Insecta: Tj ETQq1 1 0.784314 rgBT /Overlock 1000) biogeography and conservation. <i>Zootaxa</i> , 2013, 3737, 351.	0.2	13
44	A high-quality carabid genome assembly provides insights into beetle genome evolution and cold adaptation. <i>Molecular Ecology Resources</i> , 2021, 21, 2145-2165.	2.2	13
45	Phylogenetic Relationships and Relictualism of Rock-Crawlers (Grylloblattodea: Grylloblattidae) in Cave and Mountain Habitats of Korea. <i>Annals of the Entomological Society of America</i> , 2011, 104, 337-347.	1.3	12
46	Three new species of <i>Grylloblatta</i> Walker (Insecta: Grylloblattodea: Grylloblattidae), from southern Oregon and northern California. <i>Zootaxa</i> , 2012, 3412, 42.	0.2	12
47	Diversifying Selection Underlies the Origin of Allozyme Polymorphism at the Phosphoglucose Isomerase Locus in <i>Tigriopus californicus</i> . <i>PLoS ONE</i> , 2012, 7, e40035.	1.1	12
48	Testing the role of ecological selection on colour pattern variation in the butterfly <i>Parnassius clodius</i> . <i>Molecular Ecology</i> , 2019, 28, 5086-5102.	2.0	11
49	Rapid speciation and ecological divergence into North American alpine habitats: the <i>Nippononebria</i> (Coleoptera: Carabidae) species complex. <i>Biological Journal of the Linnean Society</i> , 2020, 130, 18-33.	0.7	11
50	A comprehensive analysis comparing linear and generalized linear models in detecting adaptive SNPs. <i>Molecular Ecology Resources</i> , 2021, 21, 733-744.	2.2	11
51	Shifts in the relative fitness contributions of fecundity and survival in variable and changing environments. <i>Journal of Experimental Biology</i> , 2021, 224, .	0.8	11
52	Current status of the systematics and evolutionary biology of <i>Grylloblattidae</i> (Grylloblattodea). <i>Systematic Entomology</i> , 2014, 39, 197-204.	1.7	10
53	Exploring the Genetic Diversity of Wild Cranberry Populations in the Upper Midwestern United States. <i>Crop Science</i> , 2019, 59, 2413-2428.	0.8	9
54	Evidence for niche conservatism in alpine beetles under a climate-driven species pump model. <i>Journal of Biogeography</i> , 2022, 49, 364-377.	1.4	9

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55	Drainage basins serve as multiple glacial refugia for alpine habitats in the Sierra Nevada Mountains, California. <i>Molecular Ecology</i> , 2021, 30, 826-843.	2.0	8
56	Selection for High Oridonin Yield in the Chinese Medicinal Plant <i>Isodon</i> (Lamiaceae) Using a Combined Phylogenetics and Population Genetics Approach. <i>PLoS ONE</i> , 2012, 7, e50753.	1.1	7
57	Invasion and rapid adaptation of guppies ( <i>Poecilia reticulata</i> ) across the Hawaiian Archipelago. <i>Evolutionary Applications</i> , 2021, 14, 1747-1761.	1.5	6
58	Phylogeny of the supertribe Nebriitae (Coleoptera, Carabidae) based on analyses of DNA sequence data. <i>ZooKeys</i> , 2021, 1044, 41-152.	0.5	6
59	Testing models of refugial isolation, colonization and population connectivity in two species of montane salamanders. <i>Heredity</i> , 2017, 119, 265-274.	1.2	5
60	Comparative transcriptomics of ice-crawlers demonstrates cold specialization constrains niche evolution in a relict lineage. <i>Evolutionary Applications</i> , 2021, 14, 360-382.	1.5	5
61	Impacts of Fire on Butterfly Genetic Diversity and Connectivity. <i>Journal of Heredity</i> , 2021, 112, 367-376.	1.0	5
62	Plant Resistance to Colorado Potato Beetle (Coleoptera: Chrysomelidae) in Diploid F2 Families Derived From Crosses Between Cultivated and Wild Potato. <i>Journal of Economic Entomology</i> , 2018, 111, 1875-1884.	0.8	4
63	Has past climate change affected cold-specialized species differentially through space and time?. <i>Systematic Entomology</i> , 2019, 44, 571-587.	1.7	4
64	Do different rates of gene flow underlie variation in phenotypic and phenological clines in a montane grasshopper community?. <i>Ecology and Evolution</i> , 2020, 10, 980-997.	0.8	4
65	Ecological and evolutionary factors mitigating Colorado potato beetle adaptation to insecticides. , 2022, , 463-479.		2
66	Population Genomic Insights into Insecticide Resistance in the Colorado Potato Beetle. <i>Population Genomics</i> , 2021, , 1.	0.2	1
67	Grylloblattodea of Canada. <i>ZooKeys</i> , 2019, 819, 271-276.	0.5	1
68	Biogeography of North American Highlands. , 2020, , 530-542.		0
69	Two new species of <i>Bimastos</i> (Oligochaeta, Lumbricidae) from the Southern Appalachian Mountains, North America. <i>Zootaxa</i> , 2021, 5052, 395-405.	0.2	0