

Allan L Carroll

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

6,106
citations

201674

27
h-index

175258

52
g-index

54
all docs

54
docs citations

54
times ranked

5418
citing authors

#	ARTICLE	IF	CITATIONS
1	Mountain pine beetle and forest carbon feedback to climate change. <i>Nature</i> , 2008, 452, 987-990.	27.8	1,582
2	Cross-scale Drivers of Natural Disturbances Prone to Anthropogenic Amplification: The Dynamics of Bark Beetle Eruptions. <i>BioScience</i> , 2008, 58, 501-517.	4.9	1,410
3	Potential for range expansion of mountain pine beetle into the boreal forest of North America. <i>Canadian Entomologist</i> , 2010, 142, 415-442.	0.8	340
4	Surveying mountain pine beetle damage of forests: A review of remote sensing opportunities. <i>Forest Ecology and Management</i> , 2006, 221, 27-41.	3.2	325
5	Efficacy of tree defense physiology varies with bark beetle population density: a basis for positive feedback in eruptive species. <i>Canadian Journal of Forest Research</i> , 2011, 41, 1174-1188.	1.7	250
6	Climate change and range expansion of an aggressive bark beetle: evidence of higher beetle reproduction in naïve host tree populations. <i>Journal of Applied Ecology</i> , 2010, 47, 1036-1043.	4.0	215
7	Climate drivers of bark beetle outbreak dynamics in Norway spruce forests. <i>Ecography</i> , 2017, 40, 1426-1435.	4.5	209
8	Landscape level analysis of mountain pine beetle in British Columbia, Canada: spatiotemporal development and spatial synchrony within the present outbreak. <i>Ecography</i> , 2006, 29, 427-441.	4.5	197
9	Movement of outbreak populations of mountain pine beetle: influences of spatiotemporal patterns and climate. <i>Ecography</i> , 2008, 31, 348-358.	4.5	166
10	Climate change could alter the distribution of mountain pine beetle outbreaks in western Canada. <i>Ecography</i> , 2012, 35, 211-223.	4.5	122
11	Breach of the northern Rocky Mountain geoclimatic barrier: initiation of range expansion by the mountain pine beetle. <i>Journal of Biogeography</i> , 2012, 39, 1112-1123.	3.0	109
12	Mountain Pine Beetle Red-Attack Forest Damage Classification Using Stratified Landsat TM Data in British Columbia, Canada. <i>Photogrammetric Engineering and Remote Sensing</i> , 2003, 69, 283-288.	0.6	95
13	Defoliation of interior Douglas-fir elicits carbon transfer and stress signalling to ponderosa pine neighbors through ectomycorrhizal networks. <i>Scientific Reports</i> , 2015, 5, 8495.	3.3	62
14	Interactions between size and temperature influence fecundity and longevity of a tortricid moth, <i>Zeiraphera canadensis</i> . <i>Oecologia</i> , 1993, 93, 233-241.	2.0	61
15	Predicting the risk of mountain pine beetle spread to eastern pine forests: Considering uncertainty in uncertain times. <i>Forest Ecology and Management</i> , 2017, 396, 11-25.	3.2	59
16	Development of an Index of Balsam Fir Vigor by Foliar Spectral Reflectance. <i>Remote Sensing of Environment</i> , 1999, 69, 241-252.	11.0	53
17	Genetic and genomic evidence of niche partitioning and adaptive radiation in mountain pine beetle fungal symbionts. <i>Molecular Ecology</i> , 2017, 26, 2077-2091.	3.9	52
18	Comparison of lodgepole and jack pine resin chemistry: implications for range expansion by the mountain pine beetle, <i>Dendroctonus ponderosae</i> (Coleoptera: Curculionidae). <i>PeerJ</i> , 2014, 2, e240.	2.0	49

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19	Differences in the constitutive terpene profile of lodgepole pine across a geographical range in British Columbia, and correlation with historical attack by mountain pine beetle. <i>Canadian Entomologist</i> , 2010, 142, 557-573.	0.8	46
20	Facilitation in bark beetles: endemic mountain pine beetle gets a helping hand. <i>Agricultural and Forest Entomology</i> , 2011, 13, 37-43.	1.3	44
21	Incoming! Association of landscape features with dispersing mountain pine beetle populations during a range expansion event in western Canada. <i>Landscape Ecology</i> , 2011, 26, 1097-1110.	4.2	44
22	Challenges for the operational detection of mountain pine beetle green attack with remote sensing. <i>Forestry Chronicle</i> , 2009, 85, 32-38.	0.6	40
23	PHYSIOLOGICAL ADAPTATION TO TEMPORAL VARIATION IN CONIFER FOLIAGE BY A CATERPILLAR. <i>Canadian Entomologist</i> , 1999, 131, 659-669.	0.8	37
24	Acoustics of the mountain pine beetle (<i>Dendroctonus ponderosae</i>) (Curculionidae, Scolytinae): sonic, ultrasonic, and vibration characteristics. <i>Canadian Journal of Zoology</i> , 2013, 91, 235-244.	1.0	34
25	Multiyear weather anomalies associated with range shifts by the mountain pine beetle preceding large epidemics. <i>Forest Ecology and Management</i> , 2019, 438, 86-95.	3.2	33
26	The Legacy of Attack: Implications of High Phloem Resin Monoterpene Levels in Lodgepole Pines Following Mass Attack by Mountain Pine Beetle, <i>Dendroctonus ponderosae</i> ; Hopkins. <i>Environmental Entomology</i> , 2012, 41, 392-398.	1.4	32
27	An approach for the analysis of vegetation spectra using non-linear mixed modeling of truncated power spectra. <i>Annals of Forest Science</i> , 2004, 61, 515-523.	2.0	29
28	Autologistic regression analysis of spatial-temporal binary data via Monte Carlo maximum likelihood. <i>Journal of Agricultural, Biological, and Environmental Statistics</i> , 2008, 13, 84-98.	1.4	28
29	Influence of Feeding by <i>Zeiraphera canadensis</i> (Lepidoptera: Tortricidae) on Growth of White Spruce: Larval Density-Damage and Damage-Shoot Production Relationships. <i>Journal of Applied Ecology</i> , 1993, 30, 629.	4.0	27
30	Intratree Variation in Foliage Development Influences the Foraging Strategy of a Caterpillar. <i>Ecology</i> , 1994, 75, 1978-1990.	3.2	27
31	Fungal associates of the lodgepole pine beetle, <i>Dendroctonus murrayanae</i> . <i>Antonie Van Leeuwenhoek</i> , 2011, 100, 231-244.	1.7	27
32	Characterisation of attacks made by the mountain pine beetle (Coleoptera: Curculionidae) during its endemic population phase. <i>Canadian Entomologist</i> , 2014, 146, 271-284.	0.8	27
33	The influence of variation in host tree monoterpene composition on secondary attraction by an invasive bark beetle: Implications for range expansion and potential host shift by the mountain pine beetle. <i>Forest Ecology and Management</i> , 2016, 359, 59-64.	3.2	27
34	Consequences of distributional asymmetry in a warming environment: invasion of novel forests by the mountain pine beetle. <i>Ecosphere</i> , 2017, 8, e01778.	2.2	25
35	Influence of feeding by <i>Zeiraphera canadensis</i> , the spruce bud moth, on stem-wood growth of young white spruce. <i>Forest Ecology and Management</i> , 1993, 58, 41-49.	3.2	24
36	Bark beetle (Coleoptera: Scolytidae) diversity in spaced and unmanaged mature lodgepole pine (Pinaceae) in southeastern British Columbia. <i>Forest Ecology and Management</i> , 2004, 200, 23-38.	3.2	24

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37	Interactions between body size and mating history influence the reproductive success of males of a tortricid moth, <i>Zeiraphera canadensis</i> . <i>Canadian Journal of Zoology</i> , 1994, 72, 2124-2132.	1.0	22
38	Herbivory modifies conifer phenology: induced amelioration by a specialist folivore. <i>Oecologia</i> , 2003, 136, 88-95.	2.0	20
39	A Disrupted Historical Fire Regime in Central British Columbia. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	2.2	20
40	Population dynamics and epidemiology of four species of <i>Dendroctonus</i> (Coleoptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 T	0.8	18
41	SUCROSE INGESTION BY <i>ZEIRAPHERA CANADENSIS</i> MUT. & FREE. (LEPIDOPTERA: TORTRICIDAE) INCREASES LONGEVITY AND LIFETIME FECUNDITY BUT NOT OVIPOSITION RATE. <i>Canadian Entomologist</i> , 1992, 124, 335-340.	0.8	16
42	Selection of entomopathogenic fungus <i>Beauveria bassiana</i> (Deuteromycotina: Hyphomycetes) for the biocontrol of <i>Dendroctonus ponderosae</i> (Coleoptera: Curculionidae, Scolytinae) in Western Canada. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 2541-2557.	3.6	12
43	Breeding matters: Natal experience influences population state-dependent host acceptance by an eruptive insect herbivore. <i>PLoS ONE</i> , 2017, 12, e0172448.	2.5	12
44	Managing Wildlife Habitat: Complex Interactions With Biotic and Abiotic Disturbances. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	2.2	11
45	Rating Introgression between Lodgepole and Jack Pine at the Individual Tree Level Using Morphological Traits. <i>Northern Journal of Applied Forestry</i> , 2011, 28, 138-145.	0.5	9
46	Numbers matter: how irruptive bark beetles initiate transition to self-sustaining behavior during landscape-altering outbreaks. <i>Oecologia</i> , 2022, 198, 681-698.	2.0	9
47	Life history of a secondary bark beetle, <i>Pseudips mexicanus</i> (Coleoptera: Curculionidae: Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.8	8
48	Landscape predictions of western balsam bark beetle activity implicate warm temperatures, a longer growing season, and drought in widespread irruptions across British Columbia. <i>Forest Ecology and Management</i> , 2022, 508, 120047.	3.2	7
49	Climate-induced outbreaks in high-elevation pines are driven primarily by immigration of bark beetles from historical hosts. <i>Global Change Biology</i> , 2021, 27, 5786-5805.	9.5	5
50	Patterns of infestation by subcortical insects (Coleoptera: Buprestidae, Cerambycidae) after widespread wildfires in mature Douglas-fir (<i>Pseudotsuga menziesii</i>) forests. <i>Forest Ecology and Management</i> , 2022, 513, 120203.	3.2	3
51	Insights into herbivore distribution and abundance: oviposition preferences of western hemlock and phantom hemlock loopers. <i>Canadian Entomologist</i> , 2011, 143, 72-81.	0.8	2
52	In the Pursuit of Synchrony: Northward Shifts in Western Spruce Budworm Outbreaks in a Warming Environment. <i>Frontiers in Forests and Global Change</i> , 2022, 5, .	2.3	1
53	Movement of outbreak populations of mountain pine beetle: influences of spatiotemporal patterns and climate. <i>Ecography</i> , 2008, .	4.5	0