

Kenneth F Raffa

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213
papers

11,818
citations

58
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102
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217
ext. papers

13,523
ext. citations

3.4
avg, IF

6.44
L-index

#	Paper	IF	Citations
213	Cross-scale Drivers of Natural Disturbances Prone to Anthropogenic Amplification: The Dynamics of Bark Beetle Eruptions. <i>BioScience</i> , 2008 , 58, 501-517	5.7	1155
212	The interdependence of mechanisms underlying climate-driven vegetation mortality. <i>Trends in Ecology and Evolution</i> , 2011 , 26, 523-32	10.9	675
211	Tree mortality from drought, insects, and their interactions in a changing climate. <i>New Phytologist</i> , 2015 , 208, 674-83	9.8	454
210	Census of the bacterial community of the gypsy moth larval midgut by using culturing and culture-independent methods. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 293-300	4.8	357
209	Effects of biotic disturbances on forest carbon cycling in the United States and Canada. <i>Global Change Biology</i> , 2012 , 18, 7-34	11.4	352
208	Midgut bacteria required for <i>Bacillus thuringiensis</i> insecticidal activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 15196-9	11.5	284
207	Interaction of pre-attack and induced monoterpene concentrations in host conifer defense against bark beetle-fungal complexes. <i>Oecologia</i> , 1995 , 102, 285-295	2.9	217
206	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	1.9	209
205	Consequences of climate warming and altered precipitation patterns for plant-insect and multitrophic interactions. <i>Plant Physiology</i> , 2012 , 160, 1719-27	6.6	206
204	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	6.5	170
203	Mountain pine beetles colonizing historical and naive host trees are associated with a bacterial community highly enriched in genes contributing to terpene metabolism. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 3468-75	4.8	166
202	Physiological Differences Between Lodgepole Pines Resistant and Susceptible to the Mountain Pine Beetle 1 and Associated Microorganisms 2. <i>Environmental Entomology</i> , 1982 , 11, 486-492	2.1	164
201	Bacteria associated with a tree-killing insect reduce concentrations of plant defense compounds. <i>Journal of Chemical Ecology</i> , 2013 , 39, 1003-6	2.7	156
200	Interacting Selective Pressures in Conifer-Bark Beetle Systems: A Basis for Reciprocal Adaptations?. <i>American Naturalist</i> , 1987 , 129, 234-262	3.7	154
199	Bacteria in oral secretions of an endophytic insect inhibit antagonistic fungi. <i>Ecological Entomology</i> , 2006 , 31, 636-645	2.1	150
198	Mixed messages across multiple trophic levels: the ecology of bark beetle chemical communication systems. <i>Chemoecology</i> , 2001 , 11, 49-65	2	148
197	Temperature-driven range expansion of an irruptive insect heightened by weakly coevolved plant defenses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 2193-8	11.5	145

196	Movement of outbreak populations of mountain pine beetle: influences of spatiotemporal patterns and climate. <i>Ecography</i> , 2008 , 31, 348-358	6.5	145
195	Minimization of chloroplast contamination in 16S rRNA gene pyrosequencing of insect herbivore bacterial communities. <i>Journal of Microbiological Methods</i> , 2013 , 95, 149-55	2.8	123
194	ACCUMULATION OF MONOTERPENES AND ASSOCIATED VOLATILES FOLLOWING INOCULATION OF GRAND FIR WITH A FUNGUS TRANSMITTED BY THE FIR ENGRAVER, SCOLYTUS VENTRALIS (COLEOPTERA: SCOLYTIDAE)1. <i>Canadian Entomologist</i> , 1982 , 114, 797-810	0.7	113
193	Contributions of gut bacteria to <i>Bacillus thuringiensis</i> -induced mortality vary across a range of Lepidoptera. <i>BMC Biology</i> , 2009 , 7, 11	7.3	111
192	Combined chemical defenses against an insect-fungal complex. <i>Journal of Chemical Ecology</i> , 1996 , 22, 1367-88	2.7	111
191	FEEDBACK BETWEEN INDIVIDUAL HOST SELECTION BEHAVIOR AND POPULATION DYNAMICS IN AN ERUPTIVE HERBIVORE. <i>Ecological Monographs</i> , 2004 , 74, 101-116	9	110
190	Effects of biotic and abiotic stress on induced accumulation of terpenes and phenolics in red pines inoculated with bark beetle-vectored fungus. <i>Journal of Chemical Ecology</i> , 1995 , 21, 601-26	2.7	110
189	BIOSYNTHESIS OF CONIFEROPHAGOUS BARK BEETLE PHEROMONES AND CONIFER ISOPRENOIDS: EVOLUTIONARY PERSPECTIVE AND SYNTHESIS. <i>Canadian Entomologist</i> , 2000 , 132, 697-753	0.7	108
188	Cellulose-degrading bacteria associated with the invasive woodwasp <i>Sirex noctilio</i> . <i>ISME Journal</i> , 2011 , 5, 1323-31	11.9	107
187	Bacteria Associated with the Guts of Two Wood-Boring Beetles: <i>Anoplophora glabripennis</i> and <i>Saperda vestita</i> (Cerambycidae). <i>Environmental Entomology</i> , 2006 , 35, 625-629	2.1	99
186	Robustness of the bacterial community in the cabbage white butterfly larval midgut. <i>Microbial Ecology</i> , 2010 , 59, 199-211	4.4	96
185	Interactions Among Conifer Terpenoids and Bark Beetles Across Multiple Levels of Scale: An Attempt to Understand Links Between Population Patterns and Physiological Processes. <i>Recent Advances in Phytochemistry</i> , 2005 , 39, 79-118		95
184	Compound effects of induced plant responses on insect herbivores and parasitoids: implications for tritrophic interactions. <i>Ecological Entomology</i> , 2000 , 25, 171-179	2.1	92
183	From commensal to pathogen: translocation of <i>Enterococcus faecalis</i> from the midgut to the hemocoel of <i>Manduca sexta</i> . <i>MBio</i> , 2011 , 2, e00065-11	7.8	90
182	Contrasts in Cellulolytic Activities of Gut Microorganisms Between the Wood Borer, <i>Saperda vestita</i> (Coleoptera: Cerambycidae), and the Bark Beetles, <i>Ips pini</i> and <i>Dendroctonus frontalis</i> (Coleoptera: Curculionidae). <i>Environmental Entomology</i> , 2005 , 34, 541-547	2.1	89
181	Effects of forest management practices on the diversity of ground-occurring beetles in mixed northern hardwood forests of the Great Lakes Region. <i>Forest Ecology and Management</i> , 2000 , 139, 135-153	3.9	87
180	Influences of Host Chemicals and Internal Physiology on the Multiple Steps of Postlanding Host Acceptance Behavior of <i>Ips pini</i> (Coleoptera: Scolytidae). <i>Environmental Entomology</i> , 2000 , 29, 442-453	2.1	82
179	Effect of varying monoterpene concentrations on the response of <i>Ips pini</i> (Coleoptera: Scolytidae) to its aggregation pheromone: implications for pest management and ecology of bark beetles. <i>Agricultural and Forest Entomology</i> , 2003 , 5, 269-274	1.9	81

178	Genetic Engineering of Trees to Enhance Resistance to Insects. <i>BioScience</i> , 1989 , 39, 524-534	5.7	77
177	Synergy Between Zwittermicin A and <i>Bacillus thuringiensis</i> subsp. <i>kurstaki</i> Against Gypsy Moth (Lepidoptera: Lymantriidae). <i>Environmental Entomology</i> , 2000 , 29, 101-107	2.1	75
176	Effects of elicitation treatment and genotypic variation on induced resistance in <i>Populus</i> : impacts on gypsy moth (Lepidoptera: Lymantriidae) development and feeding behavior. <i>Oecologia</i> , 1999 , 120, 295-303	2.9	74
175	Acquisition and structuring of midgut bacterial communities in gypsy moth (Lepidoptera: Erebiidae) larvae. <i>Environmental Entomology</i> , 2014 , 43, 595-604	2.1	73
174	EFFECTS OF FOLIVORY ON SUBCORTICAL PLANT DEFENSES: CAN DEFENSE THEORIES PREDICT INTERGUILD PROCESSES?. <i>Ecology</i> , 2001 , 82, 1387-1400	4.6	73
173	Plant-associated bacteria degrade defense chemicals and reduce their adverse effects on an insect defoliator. <i>Oecologia</i> , 2014 , 175, 901-10	2.9	71
172	Tree defence and bark beetles in a drying world: carbon partitioning, functioning and modelling. <i>New Phytologist</i> , 2020 , 225, 26-36	9.8	71
171	Convergent bacterial microbiotas in the fungal agricultural systems of insects. <i>MBio</i> , 2014 , 5, e02077	7.8	68
170	Terpenes tell different tales at different scales: glimpses into the Chemical Ecology of conifer - bark beetle - microbial interactions. <i>Journal of Chemical Ecology</i> , 2014 , 40, 1-20	2.7	67
169	Simulated climate warming alters phenological synchrony between an outbreak insect herbivore and host trees. <i>Oecologia</i> , 2014 , 175, 1041-9	2.9	67
168	Chiral escape of bark beetles from predators responding to a bark beetle pheromone. <i>Oecologia</i> , 1989 , 80, 566-569	2.9	67
167	Characterization of Gut-Associated Bacteria in Larvae and Adults of the Southern Pine Beetle, <i>Dendroctonus frontalis</i> Zimmermann. <i>Environmental Entomology</i> , 2006 , 35, 1710-1717	2.1	66
166	Resident microbiota of the gypsy moth midgut harbors antibiotic resistance determinants. <i>DNA and Cell Biology</i> , 2009 , 28, 109-17	3.6	64
165	Signal mimics derived from a metagenomic analysis of the gypsy moth gut microbiota. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 3669-76	4.8	64
164	Gut Microbiota of an Invasive Subcortical Beetle, <i>Agrilus planipennis</i> Fairmaire, Across Various Life Stages. <i>Environmental Entomology</i> , 2008 , 37, 1344-1353	2.1	63
163	Evolution of Optimal Group Attack, with Particular Reference to Bark Beetles (Coleoptera: Scolytidae). <i>Ecology</i> , 1985 , 66, 898-903	4.6	63
162	Rapid Induction of Multiple Terpenoid Groups by Ponderosa Pine in Response to Bark Beetle-Associated Fungi. <i>Journal of Chemical Ecology</i> , 2016 , 42, 1-12	2.7	62
161	Modulation of predator attraction to pheromones of two prey species by stereochemistry of plant volatiles. <i>Oecologia</i> , 2001 , 127, 444-453	2.9	62

160	Does aggregation benefit bark beetles by diluting predation? Links between a group-colonisation strategy and the absence of emergent multiple predator effects. <i>Ecological Entomology</i> , 2004 , 29, 129-138	2.1	61
159	Improved Population Monitoring of Bark Beetles and Predators by Incorporating Disparate Behavioral Responses to Semiochemicals. <i>Environmental Entomology</i> , 2000 , 29, 618-629	2.1	61
158	What explains landscape patterns of tree mortality caused by bark beetle outbreaks in Greater Yellowstone?. <i>Global Ecology and Biogeography</i> , 2012 , 21, 556-567	6.1	60
157	Effects of Diterpene Acids on Components of a Conifer Bark Beetle-Fungal Interaction: Tolerance by <i>Ips pini</i> and Sensitivity by Its Associate <i>Ophiostoma ips</i> . <i>Environmental Entomology</i> , 2005 , 34, 486-493	2.1	60
156	Opposing Effects of Host Monoterpenes on Responses by Two Sympatric Species of Bark Beetles to Their Aggregation Pheromones. <i>Journal of Chemical Ecology</i> , 2000 , 26, 2527-2548	2.7	60
155	Responses of bark beetle-associated bacteria to host monoterpenes and their relationship to insect life histories. <i>Journal of Chemical Ecology</i> , 2011 , 37, 808-17	2.7	57
154	Spatial variability in tree regeneration after wildfire delays and dampens future bark beetle outbreaks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13075-13080	11.5	56
153	Response of ground beetle (Carabidae) assemblages to logging history in northern hardwood-temlock forests. <i>Forest Ecology and Management</i> , 2006 , 222, 335-347	3.9	56
152	How many choices can your test animal compare effectively? Evaluating a critical assumption of behavioral preference tests. <i>Oecologia</i> , 2002 , 133, 422-429	2.9	56
151	Natural History and Ecology of Bark Beetles 2015 , 1-40		55
150	Presence and diversity of <i>Streptomyces</i> in <i>Dendroctonus</i> and sympatric bark beetle galleries across North America. <i>Microbial Ecology</i> , 2011 , 61, 759-68	4.4	55
149	Geographic variation in bacterial communities associated with the red turpentine beetle (Coleoptera: Curculionidae). <i>Environmental Entomology</i> , 2010 , 39, 406-14	2.1	54
148	Partitioning of C-labeled photosynthate to allelochemicals and primary metabolites in source and sink leaves of aspen: evidence for secondary metabolite turnover. <i>Oecologia</i> , 1999 , 119, 408-418	2.9	54
147	Temporal and Spatial Disparities Among Bark Beetles, Predators, and Associates Responding to Synthetic Bark Beetle Pheromones: <i>Ips pini</i> (Coleoptera: Scolytidae) in Wisconsin. <i>Environmental Entomology</i> , 1991 , 20, 1665-1679	2.1	54
146	Gut microbiota of an invasive subcortical beetle, <i>Agrilus planipennis</i> Fairmaire, across various life stages. <i>Environmental Entomology</i> , 2008 , 37, 1344-53	2.1	53
145	Altered Constitutive and Inducible Phloem Monoterpenes Following Natural Defoliation of Jack Pine: Implications to Host Mediated Interguild Interactions and Plant Defense Theories. <i>Journal of Chemical Ecology</i> , 1999 , 25, 861-880	2.7	53
144	Phylogeography of spruce beetles (<i>Dendroctonus rufipennis</i> Kirby) (Curculionidae: Scolytinae) in North America. <i>Molecular Ecology</i> , 2007 , 16, 2560-73	5.7	52
143	Climate influences on whitebark pine mortality from mountain pine beetle in the Greater Yellowstone Ecosystem. <i>Ecological Applications</i> , 2016 , 26, 2505-2522	4.9	51

142	Tree response and mountain pine beetle attack preference, reproduction and emergence timing in mixed whitebark and lodgepole pine stands. <i>Agricultural and Forest Entomology</i> , 2015 , 17, 421-432	1.9	50
141	Exploiting Behavioral Disparities Among Predators and Prey to Selectively Remove Pests: Maximizing the Ratio of Bark Beetles to Predators Removed During Semiochemically Based Trap-Out. <i>Environmental Entomology</i> , 2000 , 29, 651-660	2.1	50
140	Cellulolytic Streptomyces strains associated with herbivorous insects share a phylogenetically linked capacity to degrade lignocellulose. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 4692-701	4.8	49
139	Association of declining red pine stands with reduced populations of bark beetle predators, seasonal increases in root colonizing insects, and incidence of root pathogens. <i>Forest Ecology and Management</i> , 2002 , 164, 221-236	3.9	49
138	Mate-finding failure as an important cause of Allee effects along the leading edge of an invading insect population. <i>Entomologia Experimentalis Et Applicata</i> , 2009 , 133, 307-314	2.1	48
137	Components of Antagonism and Mutualism in Ips pini Fungal Interactions: Relationship to a Life History of Colonizing Highly Stressed and Dead Trees. <i>Environmental Entomology</i> , 2004 , 33, 28-34	2.1	46
136	Evolution of High Cellulolytic Activity in Symbiotic Streptomyces through Selection of Expanded Gene Content and Coordinated Gene Expression. <i>PLoS Biology</i> , 2016 , 14, e1002475	9.7	46
135	Defence syndromes in lodgepole - whitebark pine ecosystems relate to degree of historical exposure to mountain pine beetles. <i>Plant, Cell and Environment</i> , 2017 , 40, 1791-1806	8.4	45
134	New insights into the consequences of post-windthrow salvage logging revealed by functional structure of saproxylic beetles assemblages. <i>PLoS ONE</i> , 2014 , 9, e101757	3.7	44
133	Experimental climate warming alters aspen and birch phytochemistry and performance traits for an outbreak insect herbivore. <i>Global Change Biology</i> , 2015 , 21, 2698-2710	11.4	43
132	Population Dynamics of Ips pini and Ips grandicollis in Red Pine Plantations in Wisconsin: Within- and Between-Year Associations with Predators, Competitors, and Habitat Quality. <i>Environmental Entomology</i> , 2002 , 31, 1043-1051	2.1	43
131	Contributions of female oviposition patterns and larval behavior to group defense in conifer sawflies (hymenoptera: diprionidae). <i>Oecologia</i> , 1995 , 103, 24-33	2.9	41
130	Responses of Gypsy Moth (Lepidoptera: Lymantriidae) and Forest Tent Caterpillar (Lepidoptera: Lasiocampidae) to Transgenic Poplar, Populus spp., Containing a Bacillus thuringiensis Endotoxin Gene. <i>Environmental Entomology</i> , 1994 , 23, 1030-1041	2.1	41
129	Aspen defense chemicals influence midgut bacterial community composition of gypsy moth. <i>Journal of Chemical Ecology</i> , 2015 , 41, 75-84	2.7	39
128	Wildfire provides refuge from local extinction but is an unlikely driver of outbreaks by mountain pine beetle. <i>Ecological Monographs</i> , 2012 , 82, 69-84	9	39
127	Predisposition to bark beetle attack by root herbivores and associated pathogens: Roles in forest decline, gap formation, and persistence of endemic bark beetle populations. <i>Forest Ecology and Management</i> , 2010 , 259, 374-382	3.9	37
126	Comparison of insect, fungal, and mechanically induced defoliation of larch: effects on plant productivity and subsequent host susceptibility. <i>Oecologia</i> , 1992 , 90, 411-416	2.9	36
125	Effects of winter temperatures, spring degree-day accumulation, and insect population source on phenological synchrony between forest tent caterpillar and host trees. <i>Forest Ecology and Management</i> , 2016 , 362, 241-250	3.9	35

124	Productivity, drought tolerance and pest status of hybrid Populus: tree improvement and silvicultural implications. <i>Biomass and Bioenergy</i> , 1998 , 14, 1-20	5.3	35
123	Quantifying sources of variation in the frequency of fungi associated with spruce beetles: Implications for hypothesis testing and sampling methodology in bark beetle-symbiont relationships. <i>Forest Ecology and Management</i> , 2005 , 217, 187-202	3.9	35
122	Field Evaluation of Transgenic Poplar Expressing a Bacillus thuringiensis cry1A (δ) -Endotoxin Gene Against Forest Tent Caterpillar (Lepidoptera: Lasiocampidae) and Gypsy Moth (Lepidoptera: Lymantriidae) Following Winter Dormancy. <i>Environmental Entomology</i> , 1995 , 24, 1358-1364	2.1	35
121	Drought-Mediated Changes in Tree Physiological Processes Weaken Tree Defenses to Bark Beetle Attack. <i>Journal of Chemical Ecology</i> , 2019 , 45, 888-900	2.7	34
120	Chemical modulators of the innate immune response alter gypsy moth larval susceptibility to Bacillus thuringiensis. <i>BMC Microbiology</i> , 2010 , 10, 129	4.5	34
119	Characterization of Gut-Associated Bacteria in Larvae and Adults of the Southern Pine Beetle, Dendroctonus frontalis Zimmermann. <i>Environmental Entomology</i> , 2006 , 35, 1710-1717	2.1	33
118	Density-mediated responses of bark beetles to host allelochemicals: a link between individual behaviour and population dynamics. <i>Ecological Entomology</i> , 2002 , 27, 484-492	2.1	33
117	Computation of response factors for quantitative analysis of monoterpenes by gas-liquid chromatography. <i>Journal of Chemical Ecology</i> , 1988 , 14, 1385-90	2.7	33
116	Relative effects of exophytic predation, endophytic predation, and intraspecific competition on a subcortical herbivore: consequences to the reproduction of Ips pini and Thanasimus dubius. <i>Oecologia</i> , 2002 , 133, 483-491	2.9	32
115	Multipartite symbioses among fungi, mites, nematodes, and the spruce beetle, Dendroctonus rufipennis. <i>Environmental Entomology</i> , 2008 , 37, 956-63	2.1	31
114	Can chemical communication be cryptic? Adaptations by herbivores to natural enemies exploiting prey semiochemistry. <i>Oecologia</i> , 2007 , 153, 1009-19	2.9	31
113	Kairomonal range of generalist predators in specialized habitats: responses to multiple phloeophagous species emitting pheromones vs. host odors. <i>Entomologia Experimentalis Et Applicata</i> , 2001 , 99, 205-210	2.1	31
112	Influence of Host Plant on Deterrence by Azadirachtin of Feeding by Fall Armyworm Larvae (Lepidoptera: Noctuidae). <i>Journal of Economic Entomology</i> , 1987 , 80, 384-387	2.2	30
111	Bacteria influence mountain pine beetle brood development through interactions with symbiotic and antagonistic fungi: implications for climate-driven host range expansion. <i>Oecologia</i> , 2015 , 179, 467-85	2.9	29
110	Prior host feeding experience influences ovipositional but not feeding preference in a polyphagous insect herbivore. <i>Entomologia Experimentalis Et Applicata</i> , 2011 , 138, 137-145	2.1	29
109	Fire injury reduces inducible defenses of lodgepole pine against Mountain pine beetle. <i>Journal of Chemical Ecology</i> , 2011 , 37, 1184-92	2.7	29
108	Modeling flight activity and population dynamics of the pine engraver, Ips pini, in the Great Lakes region: effects of weather and predators over short time scales. <i>Population Ecology</i> , 2005 , 47, 61-69	2.1	27
107	Effects of Host Tree Species on Attractiveness of Tunneling Pine Engravers, Ips pini, to Conspecifics and Insect Predators. <i>Journal of Chemical Ecology</i> , 2000 , 26, 823-840	2.7	27

106	Parasitoids and dipteran predators exploit volatiles from microbial symbionts to locate bark beetles. <i>Environmental Entomology</i> , 2008 , 37, 150-61	2.1	27
105	Prevalence of <i>Borrelia burgdorferi</i> and <i>Anaplasma phagocytophilum</i> in <i>Ixodes scapularis</i> (Acari: Ixodidae) nymphs collected in managed red pine forests in Wisconsin. <i>Journal of Medical Entomology</i> , 2014 , 51, 694-701	2.2	26
104	Interactions Among Insect Herbivore Guilds: Influence of Thrips Bud Injury on Foliar Chemistry and Suitability to Gypsy Moths. <i>Journal of Chemical Ecology</i> , 1998 , 24, 501-523	2.7	25
103	The enemy of my enemy is still my enemy: competitors add to predator load of a tree-killing bark beetle. <i>Agricultural and Forest Entomology</i> , 2008 , 10, 411-421	1.9	25
102	Bark beetles and fungal associates colonizing white spruce in the Great Lakes region. <i>Canadian Journal of Forest Research</i> , 2002 , 32, 1137-1150	1.9	25
101	Effect of Host Plant on Cannibalism Rates by Fall Armyworm (Lepidoptera: Noctuidae) Larvae. <i>Environmental Entomology</i> , 1987 , 16, 672-675	2.1	24
100	Survey and phylogenetic analysis of culturable microbes in the oral secretions of three bark beetle species. <i>Entomologia Experimentalis Et Applicata</i> , 2009 , 131, 138-147	2.1	23
99	Interactions among intraspecific competition, emergence patterns, and host selection behaviour in <i>Ips pini</i> (Coleoptera: Scolytinae). <i>Ecological Entomology</i> , 2007 , 32, 162-171	2.1	23
98	Selective manipulation of predators using pheromones: responses to frontalin and ipsdienol pheromone components of bark beetles in the Great Lakes region. <i>Agricultural and Forest Entomology</i> , 2005 , 7, 193-200	1.9	23
97	Dispersal and edge behaviour of bark beetles and predators inhabiting red pine plantations. <i>Agricultural and Forest Entomology</i> , 2013 , 15, 1-11	1.9	22
96	Trap lure blend of pine volatiles and bark beetle pheromones for <i>Monochamus</i> spp. (Coleoptera: Cerambycidae) in pine forests of Canada and the United States. <i>Journal of Economic Entomology</i> , 2013 , 106, 1684-92	2.2	22
95	Leaf ontogeny influences leaf phenolics and the efficacy of genetically expressed <i>Bacillus thuringiensis cry1A(a)</i> d-endotoxin in hybrid poplar against gypsy moth. <i>Journal of Chemical Ecology</i> , 2003 , 29, 2585-602	2.7	22
94	Effects of Selected <i>Larix laricina</i> Terpenoids on <i>Lymantria dispar</i> (Lepidoptera: Lymantriidae) Development and Behavior. <i>Environmental Entomology</i> , 1999 , 28, 148-154	2.1	22
93	<i>Bursaphelenchus rufipennis</i> n. sp. (Nematoda: Parasitaphelenchinae) and redescription of <i>Ektaphelenchus obtusus</i> (Nematoda: Ektaphelenchinae), associates from nematangia on the hind wings of <i>Dendroctonus rufipennis</i> (Coleoptera: Scolytidae). <i>Nematology</i> , 2008 , 10, 925-955	0.9	21
92	Heritability of Host Acceptance and Gallery Construction Behaviors of the Bark Beetle <i>Ips pini</i> (Coleoptera: Scolytidae). <i>Environmental Entomology</i> , 2002 , 31, 1276-1281	2.1	21
91	Sources of Variation in Concentration and Composition of Foliar Monoterpenes in Tamarack (<i>Larix laricina</i>) Seedlings: Roles of Nutrient Availability, Time of Season, and Plant Architecture. <i>Journal of Chemical Ecology</i> , 1999 , 25, 1771-1797	2.7	21
90	Dispersal Patterns and Mark-and-Rcapture Estimates of Two Pine Root Weevil Species, <i>Hylobius pales</i> and <i>Pachylobius picivorus</i> (Coleoptera: Curculionidae), in Christmas Tree Plantations. <i>Environmental Entomology</i> , 1990 , 19, 1829-1836	2.1	21
89	Contributions by Host Trees and Insect Activity to Bacterial Communities in <i>Dendroctonus valens</i> (Coleoptera: Curculionidae) Galleries, and Their High Overlap With Other Microbial Assemblages of Bark Beetles. <i>Environmental Entomology</i> , 2016 , 45, 348-56	2.1	20

88	Strategic Development of Tree Resistance Against Forest Pathogen and Insect Invasions in Defense-Free Space. <i>Frontiers in Ecology and Evolution</i> , 2018 , 6,	3.7	20
87	Interactions between Bacteria And Aspen Defense Chemicals at the Phyllosphere - Herbivore Interface. <i>Journal of Chemical Ecology</i> , 2016 , 42, 193-201	2.7	19
86	Spatial-Temporal Modeling of Forest Gaps Generated by Colonization From Below- and Above-Ground Bark Beetle Species. <i>Journal of the American Statistical Association</i> , 2008 , 103, 162-177	2.8	19
85	Phloeophagous and predaceous insects responding to synthetic pheromones of bark beetles inhabiting white spruce stands in the Great Lakes region. <i>Journal of Chemical Ecology</i> , 2003 , 29, 1651-63	2.7	19
84	Effect of host tree seasonal phenology on substrate suitability for the pine engraver (Coleoptera: Scolytidae): implications for population dynamics and enemy free space. <i>Journal of Economic Entomology</i> , 2001 , 94, 844-9	2.2	19
83	Host resistance to invasion by lower stem and root infesting insects of pine: response to controlled inoculations with the fungal associate <i>Leptographiumterebrantis</i> . <i>Canadian Journal of Forest Research</i> , 1988 , 18, 675-681	1.9	19
82	Bark Beetle Outbreaks in Europe: State of Knowledge and Ways Forward for Management. <i>Current Forestry Reports</i> , 2021 , 7, 138-165	8	19
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