Denys Yemshanov

List of Publications by Year
in descending order

73	1,943	257450 24	289244 40
papers	citations	h-index	g-index

74	74	74	1919
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pest Risk Maps for Invasive Alien Species: A Roadmap for Improvement. BioScience, 2010, 60, 349-362.	4.9	259
2	Canadian boreal forests and climate change mitigation. Environmental Reviews, 2013, 21, 293-321.	4.5	120
3	Fast-growing poplar plantations as a bioenergy supply source for Canada. Biomass and Bioenergy, 2008, 32, 185-197.	5.7	92
4	Potential establishment of alien-invasive forest insect species in the United States: where and how many?. Biological Invasions, 2011, 13, 969-985.	2.4	72
5	Cost estimates for carbon sequestration from fast growing poplar plantations in Canada. Forest Policy and Economics, 2004, 6, 345-358.	3.4	67
6	Mapping Invasive Species Risks with Stochastic Models: A Crossâ€Border United Statesâ€Canada Application for Sirex noctilio Fabricius. Risk Analysis, 2009, 29, 868-884.	2.7	60
7	Potential and impacts of renewable energy production from agricultural biomass in Canada. Applied Energy, 2014, 130, 222-229.	10.1	58
8	There is no silver bullet: The value of diversification in planning invasive species surveillance. Ecological Economics, 2014, 104, 61-72.	5.7	57
9	A bioeconomic approach to assess the impact of an alien invasive insect on timber supply and harvesting: a case study with Sirex noctilio in eastern Canada. Canadian Journal of Forest Research, 2009, 39, 154-168.	1.7	53
10	Investment Attractiveness of Afforestation in Canada Inclusive of Carbon Sequestration Benefits. Canadian Journal of Agricultural Economics, 2005, 53, 307-323.	2.1	48
11	Estimates of the Potential Cost of Emerald Ash Borer (Agrilus planipennis Fairmaire) in Canadian Municipalities. Arboriculture and Urban Forestry, 2012, 38, 81-91.	0.6	45
12	Evaluating Critical Uncertainty Thresholds in a Spatial Model of Forest Pest Invasion Risk. Risk Analysis, 2009, 29, 1227-1241.	2.7	43
13	Using a Network Model to Assess Risk of Forest Pest Spread via Recreational Travel. PLoS ONE, 2014, 9, e102105.	2.5	42
14	Cost estimates of post harvest forest biomass supply for Canada. Biomass and Bioenergy, 2014, 69, 80-94.	5.7	42
15	Dispersal of Invasive Forest Insects via Recreational Firewood: A Quantitative Analysis. Journal of Economic Entomology, 2012, 105, 438-450.	1.8	40
16	An economic assessment of the use of short-rotation coppice woody biomass to heat greenhouses in southern Canada. Biomass and Bioenergy, 2011, 35, 374-384.	5.7	37
17	Non-native species in Canadaâ€™s boreal zone: diversity, impacts, and risk. Environmental Reviews, 2014, 22, 372-420.	4.5	37
18	Biosurveillance of forest insects: part Iâ€”integration and application of genomic tools to the surveillance of non-native forest insects. Journal of Pest Science, 2019, 92, 51-70.	3.7	35

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19	A real options-net present value approach to assessing land use change: A case study of afforestation in Canada. Forest Policy and Economics, 2015, 50, 327-336.	3.4	34
20	A dominanceâ€based approach to map risks of ecological invasions in the presence of severe uncertainty. Diversity and Distributions, 2012, 18, 33-46.	4.1	33
21	Robust Surveillance and Control of Invasive Species Using a Scenario Optimization Approach. Ecological Economics, 2017, 133, 86-98.	5.7	33
22	Trade-associated pathways of alien forest insect entries in Canada. Biological Invasions, 2012, 14, 797-812.	2.4	32
23	Risk maps for targeting exotic plant pest detection programs in the United States. EPPO Bulletin, 2011, 41, 46-56.	0.8	31
24	Modelling the Arrival of Invasive Organisms via the International Marine Shipping Network: A Khapra Beetle Study. PLoS ONE, 2012, 7, e44589.	2.5	30
25	Towards an integrated approach to modelling the risks and impacts of invasive forest species. Environmental Reviews, 2009, 17, 163-178.	4.5	26
26	An integrated spatial assessment of the investment potential of three species in southern Ontario, Canada inclusive of carbon benefits. Forest Policy and Economics, 2007, 10, 48-59.	3.4	25
27	Robustness of Risk Maps and Survey Networks to Knowledge Gaps About a New Invasive Pest. Risk Analysis, 2010, 30, 261-276.	2.7	25
28	A New Multicriteria Risk Mapping Approach Based on a Multiattribute Frontier Concept. Risk Analysis, 2013, 33, 1694-1709.	2.7	24
29	Using bioeconomic models to assess research priorities: a case study on afforestation as a carbon sequestration tool. Canadian Journal of Forest Research, 2006, 36, 886-900.	1.7	23
30	Detection capacity, information gaps and the design of surveillance programs for invasive forest pests. Journal of Environmental Management, 2010, 91, 2535-2546.	7.8	21
31	Mapping forest composition from the Canadian National Forest Inventory and land cover classification maps. Environmental Monitoring and Assessment, 2012, 184, 4655-4669.	2.7	21
32	Optimizing surveillance strategies for early detection of invasive alien species. Ecological Economics, 2019, 162, 87-99.	5.7	21
33	Potential Economic Impacts of the Asian Longhorned Beetle (Coleoptera: Cerambycidae) in Eastern Canada. Journal of Economic Entomology, 2020, 113, 839-850.	1.8	21
34	Biosurveillance of forest insects: part IIâ€"adoption of genomic tools by end user communities and barriers to integration. Journal of Pest Science, 2019, 92, 71-82.	3.7	20
35	Risks, decisions and biological conservation. Diversity and Distributions, 2013, 19, 485-489.	4.1	17
36	Optimal allocation of invasive species surveillance with the maximum expected coverage concept. Diversity and Distributions, 2015, 21, 1349-1359.	4.1	17

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37	Mapping ecological risks with a portfolioâ€based technique: incorporating uncertainty and decisionâ€making preferences. Diversity and Distributions, 2013, 19, 567-579.	4.1	16
38	Optimizing surveillance and management of emerald ash borer in urban environments. Natural Resource Modelling, 2021, 34, .	2.0	16
39	The economic attractiveness of Short Rotation Coppice biomass plantations for bioenergy in Northern Ontario. Forestry Chronicle, 2013, 89, 66-78.	0.6	15
40	A bioeconomic model of afforestation in Southern Ontario: Integration of fiber, carbon and municipal biosolids values. Journal of Environmental Management, 2009, 90, 1833-1843.	7.8	14
41	Modeling urban distributions of host trees for invasive forest insects in the eastern and central USA: A three-step approach using field inventory data. Forest Ecology and Management, 2018, 417, 222-236.	3.2	14
42	Prioritizing restoration of fragmented landscapes for wildlife conservation: A graph-theoretic approach. Biological Conservation, 2019, 232, 173-186.	4.1	14
43	Economics of Invasive Species. , 2021, , 305-320.		14
44	Effects of permanence requirements on afforestation choices for carbon sequestration for Ontario, Canada. Forest Policy and Economics, 2012, 14, 6-18.	3.4	13
45	Enhancing the adoption of short rotation woody crops for bioenergy production. Biomass and Bioenergy, 2014, 64, 363-366.	5.7	13
46	A safety rule approach to surveillance and eradication of biological invasions. PLoS ONE, 2017, 12, e0181482.	2.5	11
47	Optimizing the location of watercraft inspection stations to slow the spread of aquatic invasive species. Biological Invasions, 2021, 23, 3907-3919.	2.4	10
48	Exploring critical uncertainties in pathway assessments of human-assisted introductions of alien forest species in Canada. Journal of Environmental Management, 2013, 129, 173-182.	7.8	9
49	Optimal invasive species surveillance in the real world: practical advances from research. Emerging Topics in Life Sciences, 2020, 4, 513-520.	2.6	9
50	A Spatial Real Options Approach for Modeling Land Use Change: Assessing the Potential for Poplar Energy Plantations in Alberta. Canadian Journal of Agricultural Economics, 2017, 65, 271-292.	2.1	8
51	Renewable Energy from Forest Residuesâ€"How Greenhouse Gas Emission Offsets Can Make Fossil Fuel Substitution More Attractive. Forests, 2018, 9, 79.	2.1	8
52	Assessing land clearing potential in the Canadian agricultureâ€"forestry interface with a multi-attribute frontier approach. Ecological Indicators, 2015, 54, 71-81.	6.3	7
53	Go big or go home: A model-based assessment of general strategies to slow the spread of forest pests via infested firewood. PLoS ONE, 2020, 15, e0238979.	2.5	7
54	Protecting wildlife habitat in managed forest landscapesâ€"How can network connectivity models help?. Natural Resource Modelling, 2021, 34, e12286.	2.0	7

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55	A harvest failure approach to assess the threat from an invasive species. Journal of Environmental Management, 2011, 92, 205-213.	7.8	6
56	Managing outbreaks of invasive species â€“ A new method to prioritize preemptive quarantine efforts across large geographic regions. Journal of Environmental Management, 2015, 150, 367-377.	7.8	6
57	Assessing the trade-offs between timber supply and wildlife protection goals in boreal landscapes. Canadian Journal of Forest Research, 0, , 243-258.	1.7	6
58	Exploring the tradeoffs among forest planning, roads and wildlife corridors: a new approach. Optimization Letters, 2022, 16, 747-788.	1.6	6
59	Detecting critical nodes in forest landscape networks to reduce wildfire spread. PLoS ONE, 2021, 16, e0258060.	2.5	6
60	Finding the perfect mix: An applied model that integrates multiple ecosystem functions when designing restoration programs. Ecological Engineering, 2022, 180, 106646.	3.6	6
61	Managing biological invasions in urban environments with the acceptance sampling approach. PLoS ONE, 2019, 14, e0220687.	2.5	5
62	Early Intervention Strategies for Invasive Species Management: Connections Between Risk Assessment, Prevention Efforts, Eradication, and Other Rapid Responses. , 2021, , 111-131.		5
63	Representing uncertainty in a spatial invasion model that incorporates human-mediated dispersal. NeoBiota, 0, 18, 173-191.	1.0	5
64	Acceptance sampling for cost-effective surveillance of emerald ash borer in urban environments. Forestry, 2019, , .	2.3	4
65	Balancing Large-Scale Wildlife Protection and Forest Management Goals with a Game-Theoretic Approach. Forests, 2021, 12, 809.	2.1	4
66	Comparing Alternative Biomass Supply Options for Canada: What Story Do Cost Curves Tell?. BioResources, 2018, 13, .	1.0	3
67	Mapping risks of pest invasions based on the spatio-temporal distribution of hosts. Management of Biological Invasions, 2018, 9, 115-126.	1.2	3
68	Quantifying uncertainty in pest risk maps and assessments: adopting a risk-averse decision makerâ€™s perspective. NeoBiota, 0, 18, 193-218.	1.0	3
69	Optimal restoration of wildlife habitat in landscapes fragmented by resource extraction: a network flow modeling approach. Restoration Ecology, 2022, 30, e13580.	2.9	3
70	A new hypervolume approach for assessing environmental risks. Journal of Environmental Management, 2017, 193, 188-200.	7.8	2
71	Optimal planning of multiâ€day invasive species surveillance campaigns. Ecological Solutions and Evidence, 2020, 1, e12029.	2.0	2
72	The Role of International Cooperation in Invasive Species Research. , 2021, , 293-303.		1

#	Article	IF	Citations
73	Mapping Risks and Impacts of Invasive Alien Species with Dynamic Simulation Models. , 0, , 130-151.		0