

Frank H Koch

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4191518/publications.pdf>

Version: 2024-02-01

74
papers

1,719
citations

304743

22
h-index

302126

39
g-index

77
all docs

77
docs citations

77
times ranked

2004
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring the tradeoffs among forest planning, roads and wildlife corridors: a new approach. Optimization Letters, 2022, 16, 747-788.	1.6	6
2	Hotspots of pestâ€induced US urban tree death, 2020â€2050. Journal of Applied Ecology, 2022, 59, 1302-1312.	4.0	7
3	Protecting wildlife habitat in managed forest landscapesâ€How can network connectivity models help?. Natural Resource Modelling, 2021, 34, e12286.	2.0	7
4	Considerations regarding species distribution models for forest insects. Agricultural and Forest Entomology, 2021, 23, 393-399.	1.3	5
5	Early Intervention Strategies for Invasive Species Management: Connections Between Risk Assessment, Prevention Efforts, Eradication, and Other Rapid Responses. , 2021, , 111-131.		5
6	Recent Immigrant Insect Faunaâ€Another Look at a Classic Analysis. Journal of Integrated Pest Management, 2021, 12, .	2.0	0
7	Abiotic and Biotic Factors Affecting Loblolly Pine Health in the Southeastern United States. Forest Science, 2020, 66, 145-156.	1.0	4
8	A bioeconomic model for estimating potential economic damages from a hypothetical Asian beetle introduced via future trade with Cuba. Journal of Bioeconomics, 2020, 22, 33-58.	3.3	4
9	Optimal planning of multiâ€day invasive species surveillance campaigns. Ecological Solutions and Evidence, 2020, 1, e12029.	2.0	2
10	Optimal invasive species surveillance in the real world: practical advances from research. Emerging Topics in Life Sciences, 2020, 4, 513-520.	2.6	9
11	Cannabis legalization by states reduces illegal growing on US national forests. Ecological Economics, 2019, 164, 106366.	5.7	5
12	Bark Beetle Epidemics, Life Satisfaction, and Economic Well-Being. Forests, 2019, 10, 696.	2.1	7
13	Acceptance sampling for cost-effective surveillance of emerald ash borer in urban environments. Forestry, 2019, , .	2.3	4
14	Managing biological invasions in urban environments with the acceptance sampling approach. PLoS ONE, 2019, 14, e0220687.	2.5	5
15	Optimizing surveillance strategies for early detection of invasive alien species. Ecological Economics, 2019, 162, 87-99.	5.7	21
16	Impacts of Nonnative Species on the Health of Natural and Planted Forests. Forests, 2019, 10, 366.	2.1	1
17	Prioritizing restoration of fragmented landscapes for wildlife conservation: A graph-theoretic approach. Biological Conservation, 2019, 232, 173-186.	4.1	14
18	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

#	ARTICLE	IF	CITATIONS
19	Cold tolerance and invasive potential of the redbay ambrosia beetle (<i>Xyleborus glabratus</i>) in the eastern United States. <i>Biological Invasions</i> , 2018, 20, 995-1007.	2.4	25
20	Prioritizing conservation seed banking locations for imperiled hemlock species using multi-attribute frontier mapping. <i>New Forests</i> , 2017, 48, 301-316.	1.7	9
21	A new hypervolume approach for assessing environmental risks. <i>Journal of Environmental Management</i> , 2017, 193, 188-200.	7.8	2
22	Robust Surveillance and Control of Invasive Species Using a Scenario Optimization Approach. <i>Ecological Economics</i> , 2017, 133, 86-98.	5.7	33
23	A safety rule approach to surveillance and eradication of biological invasions. <i>PLoS ONE</i> , 2017, 12, e0181482.	2.5	11
24	Spread of common native and invasive grasses and ruderal trees following anthropogenic disturbances in a tropical dry forest. <i>Ecological Processes</i> , 2017, 6, .	3.9	1
25	Review of broad-scale drought monitoring of forests: Toward an integrated data mining approach. <i>Forest Ecology and Management</i> , 2016, 380, 346-358.	3.2	56
26	Predicting cannabis cultivation on national forests using a rational choice framework. <i>Ecological Economics</i> , 2016, 129, 161-171.	5.7	7
27	The Evolving Role of Forest Inventory and Analysis Data in Invasive Insect Research. <i>American Entomologist</i> , 2016, 62, 46-58.	0.2	27
28	Remote Sensing: Past and Present. , 2016, , 1-20.		1
29	Future Trends in Remote Sensing. , 2016, , 277-285.		10
30	Atmospheric Applications of Remote Sensing. , 2016, , 177-199.		0
31	Data, data everywhere: detecting spatial patterns in fine-scale ecological information collected across a continent. <i>Landscape Ecology</i> , 2016, 31, 67-84.	4.2	46
32	Observing Coastal and Ocean Ecosystems. , 2016, , 201-228.		0
33	Terrestrial Applications of Remote Sensing. , 2016, , 125-176.		0
34	The Final Frontier: Building New Knowledge Through Planetary and Extrasolar Observation. , 2016, , 229-259.		0
35	Optimal allocation of invasive species surveillance with the maximum expected coverage concept. <i>Diversity and Distributions</i> , 2015, 21, 1349-1359.	4.1	17
36	Assessing land clearing potential in the Canadian agriculture-forestry interface with a multi-attribute frontier approach. <i>Ecological Indicators</i> , 2015, 54, 71-81.	6.3	7

#	ARTICLE	IF	CITATIONS
37	Managing outbreaks of invasive species – A new method to prioritize preemptive quarantine efforts across large geographic regions. <i>Journal of Environmental Management</i> , 2015, 150, 367-377.	7.8	6
38	A review of southern pine decline in North America. <i>Forest Ecology and Management</i> , 2015, 349, 134-148.	3.2	35
39	Using a Network Model to Assess Risk of Forest Pest Spread via Recreational Travel. <i>PLoS ONE</i> , 2014, 9, e102105.	2.5	42
40	There is no silver bullet: The value of diversification in planning invasive species surveillance. <i>Ecological Economics</i> , 2014, 104, 61-72.	5.7	57
41	Patterns of Forest Phylogenetic Community Structure across the United States and Their Possible Forest Health Implications. <i>Forest Science</i> , 2014, 60, 851-861.	1.0	31
42	A New Multicriteria Risk Mapping Approach Based on a Multiattribute Frontier Concept. <i>Risk Analysis</i> , 2013, 33, 1694-1709.	2.7	24
43	Exploring critical uncertainties in pathway assessments of human-assisted introductions of alien forest species in Canada. <i>Journal of Environmental Management</i> , 2013, 129, 173-182.	7.8	9
44	Mapping ecological risks with a portfolio-based technique: incorporating uncertainty and decision-making preferences. <i>Diversity and Distributions</i> , 2013, 19, 567-579.	4.1	16
45	An Economic Assessment of Mountain Pine Beetle Timber Salvage in the West. <i>Western Journal of Applied Forestry</i> , 2013, 28, 143-153.	0.5	10
46	Dispersal of Invasive Forest Insects via Recreational Firewood: A Quantitative Analysis. <i>Journal of Economic Entomology</i> , 2012, 105, 438-450.	1.8	40
47	Using Remote Sensing for Terrestrial Applications. <i>SpringerBriefs in Space Development</i> , 2012, , 63-80.	0.1	0
48	Simulating the effects of the southern pine beetle on regional dynamics 60 years into the future. <i>Ecological Modelling</i> , 2012, 244, 93-103.	2.5	10
49	Data Processing Tools. <i>SpringerBriefs in Space Development</i> , 2012, , 39-62.	0.1	1
50	Trade-associated pathways of alien forest insect entries in Canada. <i>Biological Invasions</i> , 2012, 14, 797-812.	2.4	32
51	A dominance-based approach to map risks of ecological invasions in the presence of severe uncertainty. <i>Diversity and Distributions</i> , 2012, 18, 33-46.	4.1	33
52	Using Remote Sensing in Atmospheric Applications. <i>SpringerBriefs in Space Development</i> , 2012, , 81-94.	0.1	0
53	Oceanographic and Planetary Applications. <i>SpringerBriefs in Space Development</i> , 2012, , 95-112.	0.1	0
54	International Agreements and Policies. <i>SpringerBriefs in Space Development</i> , 2012, , 113-124.	0.1	0

#	ARTICLE	IF	CITATIONS
55	Southern pine beetle regional outbreaks modeled on landscape, climate and infestation history. <i>Forest Ecology and Management</i> , 2011, 261, 473-479.	3.2	26
56	Risk maps for targeting exotic plant pest detection programs in the United States. <i>EPPO Bulletin</i> , 2011, 41, 46-56.	0.8	31
57	Potential establishment of alien-invasive forest insect species in the United States: where and how many?. <i>Biological Invasions</i> , 2011, 13, 969-985.	2.4	72
58	Detection capacity, information gaps and the design of surveillance programs for invasive forest pests. <i>Journal of Environmental Management</i> , 2010, 91, 2535-2546.	7.8	21
59	Robustness of Risk Maps and Survey Networks to Knowledge Gaps About a New Invasive Pest. <i>Risk Analysis</i> , 2010, 30, 261-276.	2.7	25
60	Pest Risk Maps for Invasive Alien Species: A Roadmap for Improvement. <i>BioScience</i> , 2010, 60, 349-362.	4.9	259
61	Mapping Invasive Species Risks with Stochastic Models: A Cross-Border United States-Canada Application for <i>Sirex noctilio</i> Fabricius. <i>Risk Analysis</i> , 2009, 29, 868-884.	2.7	60
62	Evaluating Critical Uncertainty Thresholds in a Spatial Model of Forest Pest Invasion Risk. <i>Risk Analysis</i> , 2009, 29, 1227-1241.	2.7	43
63	Towards an integrated approach to modelling the risks and impacts of invasive forest species. <i>Environmental Reviews</i> , 2009, 17, 163-178.	4.5	26
64	Invasive forest pest surveillance: survey development and reliability. <i>Canadian Journal of Forest Research</i> , 2008, 38, 2422-2433.	1.7	19
65	Spatio-Temporal Analysis of <i>Xyleborus glabratus</i> (Coleoptera: Curculionidae). <i>Journal of Applied Ecology</i> , 2008, 45, 1074-1083.	1.4	42
66	Forestry Matters: Decline of Oaks Will Impact Wildlife in Hardwood Forests. <i>Journal of Wildlife Management</i> , 2007, 71, 1717-1728.	1.8	158
67	Comparing the potential effectiveness of conservation planning approaches in central North Carolina, USA. <i>Biological Conservation</i> , 2006, 128, 358-368.	4.1	20
68	Recommendations for Assessing the Effectiveness of Surrogate Species Approaches. <i>Biodiversity and Conservation</i> , 2006, 15, 3949-3969.	2.6	156
69	Landscape-Scale Prediction of Hemlock Woolly Adelgid, <i>Adelges tsugae</i> (Homoptera: Adelgidae), Infestation in the Southern Appalachian Mountains. <i>Environmental Entomology</i> , 2006, 35, 1313-1323.	1.4	14
70	Mapping Risks and Impacts of Invasive Alien Species with Dynamic Simulation Models. <i>Ecological Modelling</i> , 2006, 130, 130-151.		0
71	Assessing the trade-offs between timber supply and wildlife protection goals in boreal landscapes. <i>Canadian Journal of Forest Research</i> , 2006, 36, 243-258.	1.7	6
72	Quantifying uncertainty in pest risk maps and assessments: adopting a risk-averse decision maker's perspective. <i>NeoBiota</i> , 2006, 18, 193-218.	1.0	3

#	ARTICLE	IF	CITATIONS
73	Representing uncertainty in a spatial invasion model that incorporates human-mediated dispersal. NeoBiota, 0, 18, 173-191.	1.0	5
74	Invasive alien species in the food chain: Advancing risk assessment models to address climate change, economics and uncertainty. NeoBiota, 0, 18, 1-7.	1.0	13