

Marc Hanewinkel

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

5,377
citations

94381

37
h-index

85498

71
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docs citations

94
times ranked

6362
citing authors

#	ARTICLE	IF	CITATIONS
1	Climate change may cause severe loss in the economic value of European forest land. <i>Nature Climate Change</i> , 2013, 3, 203-207.	8.1	744
2	Plant functional traits have globally consistent effects on competition. <i>Nature</i> , 2016, 529, 204-207.	13.7	655
3	Climate change and European forests: What do we know, what are the uncertainties, and what are the implications for forest management?. <i>Journal of Environmental Management</i> , 2014, 146, 69-83.	3.8	460
4	A review of decision-making approaches to handle uncertainty and risk in adaptive forest management under climate change. <i>Annals of Forest Science</i> , 2012, 69, 1-15.	0.8	165
5	Climate Change: Believing and Seeing Implies Adapting. <i>PLoS ONE</i> , 2012, 7, e50182.	1.1	143
6	Are forest disturbances amplifying or canceling out climate change-induced productivity changes in European forests?. <i>Environmental Research Letters</i> , 2017, 12, 034027.	2.2	142
7	Assessing natural hazards in forestry for risk management: a review. <i>European Journal of Forest Research</i> , 2011, 130, 329-351.	1.1	138
8	By 2050 the Mitigation Effects of EU Forests Could Nearly Double through Climate Smart Forestry. <i>Forests</i> , 2017, 8, 484.	0.9	124
9	How does silviculture affect storm damage in forests of south-western Germany? Results from empirical modeling based on long-term observations. <i>European Journal of Forest Research</i> , 2012, 131, 229-247.	1.1	123
10	Digitization in wood supply – A review on how Industry 4.0 will change the forest value chain. <i>Computers and Electronics in Agriculture</i> , 2019, 162, 206-218.	3.7	113
11	An inventory-based approach for modeling single-tree storm damage – experiences with the winter storm of 1999 in southwestern Germany. <i>Canadian Journal of Forest Research</i> , 2010, 40, 1636-1652.	0.8	112
12	Survival of Norway spruce remains higher in mixed stands under a dryer and warmer climate. <i>Global Change Biology</i> , 2015, 21, 935-946.	4.2	110
13	Retention as an integrated biodiversity conservation approach for continuous-cover forestry in Europe. <i>Ambio</i> , 2020, 49, 85-97.	2.8	106
14	Alternative forest management strategies to account for climate change-induced productivity and species suitability changes in Europe. <i>Regional Environmental Change</i> , 2015, 15, 1581-1594.	1.4	93
15	Predicting constant decay rates of coarse woody debris – A meta-analysis approach with a mixed model. <i>Ecological Modelling</i> , 2009, 220, 904-912.	1.2	86
16	Seventy-seven years of natural disturbances in a mountain forest area – the influence of storm, snow, and insect damage analysed with a long-term time series. <i>Canadian Journal of Forest Research</i> , 2008, 38, 2249-2261.	0.8	81
17	Vulnerability of uneven-aged forests to storm damage. <i>Forestry</i> , 2014, 87, 525-534.	1.2	72
18	A framework for modeling adaptive forest management and decision making under climate change. <i>Ecology and Society</i> , 2017, 22, .	1.0	72

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19	Modelling and economic evaluation of forest biome shifts under climate change in Southwest Germany. <i>Forest Ecology and Management</i> , 2010, 259, 710-719.	1.4	69
20	Management of ecosystem services in mountain forests: Review of indicators and value functions for model based multi-criteria decision analysis. <i>Ecological Indicators</i> , 2017, 79, 391-409.	2.6	69
21	Growth resistance and resilience of mixed silver fir and Norway spruce forests in central Europe: Contrasting responses to mild and severe droughts. <i>Global Change Biology</i> , 2021, 27, 4403-4419.	4.2	64
22	A forest management risk insurance model and its application to coniferous stands in southwest Germany. <i>Forest Policy and Economics</i> , 2006, 8, 161-174.	1.5	60
23	Modelling the conversion from even-aged to uneven-aged stands of Norway spruce (<i>Picea abies</i> L.) Tj ETQq1 1 0.784314 rgBT /Overlook	1.4	58
24	Evaluating the effectiveness of retention forestry to enhance biodiversity in production forests of Central Europe using an interdisciplinary, multi-scale approach. <i>Ecology and Evolution</i> , 2020, 10, 1489-1509.	0.8	56
25	Concerns about reported harvests in European forests. <i>Nature</i> , 2021, 592, E15-E17.	13.7	56
26	A neural network approach to identify forest stands susceptible to wind damage. <i>Forest Ecology and Management</i> , 2004, 196, 227-243.	1.4	53
27	Modelling of forest conversion planning with an adaptive simulation-optimization approach and simultaneous consideration of the values of timber, carbon and biodiversity. <i>Ecological Economics</i> , 2009, 68, 1711-1722.	2.9	51
28	Realizing Mitigation Efficiency of European Commercial Forests by Climate Smart Forestry. <i>Scientific Reports</i> , 2018, 8, 345.	1.6	50
29	Applying a science-based systems perspective to dispel misconceptions about climate effects of forest bioenergy. <i>GCB Bioenergy</i> , 2021, 13, 1210-1231.	2.5	49
30	Forestry professionals'™ perceptions of climate change, impacts and adaptation strategies for forests in south-west Germany. <i>Climatic Change</i> , 2015, 130, 273-286.	1.7	48
31	Can nature conservation and wood production be reconciled in managed forests? A review of driving factors for integrated forest management in Europe. <i>Journal of Environmental Management</i> , 2020, 268, 110670.	3.8	46
32	Economic aspects of the transformation from even-aged pure stands of Norway spruce to uneven-aged mixed stands of Norway spruce and beech. <i>Forest Ecology and Management</i> , 2001, 151, 181-193.	1.4	43
33	Climate Change Impairs Nitrogen Cycling in European Beech Forests. <i>PLoS ONE</i> , 2016, 11, e0158823.	1.1	42
34	Climate Change and Decision-Making Under Uncertainty. <i>Current Forestry Reports</i> , 2016, 2, 143-149.	3.4	42
35	Evaluating the Suitability of Management Strategies of Pure Norway Spruce Forests in the Black Forest Area of Southwest Germany for Adaptation to or Mitigation of Climate Change. <i>Environmental Management</i> , 2010, 45, 387-402.	1.2	41
36	Storm damage of Douglas-fir unexpectedly high compared to Norway spruce. <i>Annals of Forest Science</i> , 2013, 70, 195-207.	0.8	40

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37	Diversification of forest management regimes secures tree microhabitats and bird abundance under climate change. <i>Science of the Total Environment</i> , 2019, 650, 2717-2730.	3.9	40
38	Comparative economic investigations of even-aged and uneven-aged silvicultural systems: a critical analysis of different methods. <i>Forestry</i> , 2002, 75, 473-481.	1.2	39
39	An actuarial model of forest insurance against multiple natural hazards in fir (<i>Abies Alba</i> Mill.) stands in Slovakia. <i>Forest Policy and Economics</i> , 2015, 55, 46-57.	1.5	37
40	Forest owner motivations and attitudes towards supplying biomass for energy in Europe. <i>Biomass and Bioenergy</i> , 2014, 67, 223-230.	2.9	35
41	Terrestrial laser scanning improves digital elevation models and topsoil pH modelling in regions with complex topography and dense vegetation. <i>Environmental Modelling and Software</i> , 2017, 95, 13-21.	1.9	35
42	Segregated versus integrated biodiversity conservation: Value-based ecosystem service assessment under varying forest management strategies in a Swiss case study. <i>Ecological Indicators</i> , 2018, 95, 751-764.	2.6	34
43	Updating beliefs and combining evidence in adaptive forest management under climate change: A case study of Norway spruce (<i>Picea abies</i> L. Karst) in the Black Forest, Germany. <i>Journal of Environmental Management</i> , 2013, 122, 56-64.	3.8	31
44	Productivity of <i>Fagus sylvatica</i> under climate change – A Bayesian analysis of risk and uncertainty using the model 3-PG. <i>Forest Ecology and Management</i> , 2017, 401, 192-206.	1.4	31
45	Neural networks for assessing the risk of windthrow on the forest division level: a case study in southwest Germany. <i>European Journal of Forest Research</i> , 2005, 124, 243-249.	1.1	26
46	Quantification of basal friction for technical and silvicultural glide-snow avalanche mitigation measures. <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 2921-2931.	1.5	26
47	Forest recreation as a governance problem: four case studies from Switzerland. <i>European Journal of Forest Research</i> , 2017, 136, 511-526.	1.1	25
48	Socially optimal forest management and biodiversity conservation in temperate forests under climate change. <i>Ecological Economics</i> , 2020, 169, 106504.	2.9	22
49	Converting probabilistic tree species range shift projections into meaningful classes for management. <i>Journal of Environmental Management</i> , 2014, 134, 153-165.	3.8	21
50	Institutional factors and opportunities for adapting European forest management to climate change. <i>Regional Environmental Change</i> , 2015, 15, 1595-1609.	1.4	20
51	Models for adaptive forest management. <i>Regional Environmental Change</i> , 2015, 15, 1483-1487.	1.4	20
52	Pertinence of reactive, active, and robust adaptation strategies in forest management under climate change. <i>Annals of Forest Science</i> , 2017, 74, 1.	0.8	20
53	Adopting robust decision-making to forest management under climate change. <i>Annals of Forest Science</i> , 2017, 74, 1.	0.8	20
54	Risk aversion hinders forestry professionals to adapt to climate change. <i>Climatic Change</i> , 2020, 162, 2157-2180.	1.7	19

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55	Adaptation to Climate Change in Forestry: A Multiple Correspondence Analysis (MCA). <i>Forests</i> , 2018, 9, 20.	0.9	18
56	Financial optimisation of target diameter harvest of European beech (<i>Fagus sylvatica</i>) considering the risk of decrease of timber quality due to red heartwood. <i>Forest Policy and Economics</i> , 2004, 6, 579-593.	1.5	17
57	Extracting environmentally driven growth trends from diameter increment series based on a multiplicative decomposition model. <i>Canadian Journal of Forest Research</i> , 2011, 41, 1577-1589.	0.8	17
58	Microtopography shapes soil pH in flysch regions across Switzerland. <i>Geoderma</i> , 2020, 380, 114663.	2.3	17
59	Quantifying the risk mitigation efficiency of changing silvicultural systems under storm risk throughout history. <i>Annals of Forest Science</i> , 2019, 76, 1.	0.8	16
60	Gains or Losses in Forest Productivity under Climate Change? The Uncertainty of CO2 Fertilization and Climate Effects. <i>Climate</i> , 2020, 8, 141.	1.2	16
61	Magnitude and timing of density reduction are key for the resilience to severe drought in conifer-broadleaf mixed forests in Central Europe. <i>Annals of Forest Science</i> , 2021, 78, 1.	0.8	16
62	Machine learning based soil maps for a wide range of soil properties for the forested area of Switzerland. <i>Geoderma Regional</i> , 2021, 27, e00437.	0.9	16
63	Identifying decision-relevant uncertainties for dynamic adaptive forest management under climate change. <i>Climatic Change</i> , 2020, 163, 891-911.	1.7	16
64	Spatial patterns in mixed coniferous even-aged, uneven-aged and conversion stands. <i>European Journal of Forest Research</i> , 2004, 123, 139.	1.1	15
65	Balancing Decisions for Adaptive and Multipurpose Conversion of Norway Spruce (<i>Picea abies</i> L.) Tj ETQq1 1.0,784314 rgBT /Ove 0.5 15	1.0	15
66	Conservation Costs of Retention Forestry and Optimal Habitat Network Selection in Southwestern Germany. <i>Ecological Economics</i> , 2018, 148, 92-102.	2.9	13
67	Forest Owners' Response to Climate Change: University Education Trumps Value Profile. <i>PLoS ONE</i> , 2016, 11, e0155137.	1.1	13
68	How treatment, storm events and changed climate affect productivity of temperate forests in SW Germany. <i>Regional Environmental Change</i> , 2015, 15, 1531-1542.	1.4	12
69	Reconciling forest profitability and biodiversity conservation under disturbance risk: the role of forest management and salvage logging. <i>Environmental Research Letters</i> , 2020, 15, 0940a3.	2.2	12
70	Economic performance of uneven-aged forests analysed with annuities. <i>Forestry</i> , 2014, 87, 49-60.	1.2	11
71	Strategies of Handling Risk and Uncertainty in Forest Management in Central Europe. <i>Current Forestry Reports</i> , 2017, 3, 60-73.	3.4	11
72	Changes in sessile oak (<i>Quercus petraea</i>) productivity under climate change by improved leaf phenology in the 3-PG model. <i>Ecological Modelling</i> , 2020, 438, 109285.	1.2	11

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73	Multiple uncertainties require a change of conservation practices for saproxylic beetles in managed temperate forests. <i>Scientific Reports</i> , 2018, 8, 14964.	1.6	10
74	Financial Results of Selection Forest Enterprises with High Proportions of Valuable Timber – Results of an Empirical Study and their Application. <i>Schweizerische Zeitschrift Fur Forstwesen</i> , 2001, 152, 343-349.	0.5	10
75	Linking annual variations of roe deer bag records to large-scale winter conditions: spatio-temporal development in Europe between 1961 and 2013. <i>European Journal of Wildlife Research</i> , 2017, 63, 1.	0.7	9
76	Roadmap to develop a stress test for forest ecosystem services supply. <i>One Earth</i> , 2022, 5, 25-34.	3.6	9
77	Abiotic disturbances affect forest short-term vegetation cover and phenology in Southwest China. <i>Ecological Indicators</i> , 2021, 124, 107393.	2.6	7
78	Climate change may induce connectivity loss and mountaintop extinction in Central American forests. <i>Communications Biology</i> , 2021, 4, 869.	2.0	7
79	Managing Alpine Forests in a Changing Climate. , 2013, , .		5
80	Potential Future Ranges of Tree Species in the Alps. , 0, , .		5
81	Simulation of extreme storm effects on regional forest soil carbon stock. <i>Ecological Modelling</i> , 2019, 399, 39-53.	1.2	5
82	Financial viability of a fully simulated transformation from even-aged to uneven-aged stand structure in forests of different ages. <i>Forestry</i> , 2021, 94, 479-491.	1.2	5
83	Tackling climate change – the contribution of scientific knowledge in forestry. <i>Annals of Forest Science</i> , 2014, 71, 113-115.	0.8	4
84	Challenging the assumptions of a standard model: How historical triggers in terms of technical innovations, labor costs and timber price change the land expectation value. <i>Forest Policy and Economics</i> , 2018, 95, 46-56.	1.5	4
85	Broad-scale and long-term forest growth predictions and management for native, mixed species plantations and teak in Costa Rica and Panama. <i>Forest Ecology and Management</i> , 2022, 520, 120386.	1.4	4
86	Climate change and the provision of biodiversity in public temperate forests – A mechanism design approach for the implementation of biodiversity conservation policies. <i>Journal of Environmental Management</i> , 2019, 246, 706-716.	3.8	3
87	Number and height of unbrowsed saplings are more appropriate than the proportion of browsed saplings for predicting silvicultural regeneration success. <i>Annals of Forest Science</i> , 2021, 78, 1.	0.8	3
88	Recent approaches to model the risk of storm and fire. <i>Forest Systems</i> , 2011, 3, 30.	0.1	2
89	Management Strategies to Adapt Alpine Space Forests to Climate Change Risks – An Introduction to the Manfred Project. , 2013, , .		1
90	Der Klimawandel als Herausforderung für die Forstwirtschaft: Wissenschaftliche Klimamodelle, Unsicherheit und die Suche nach Entscheidungsunterstützungssystemen für die Forstpraxis. , 2013, , 33-52.		1

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91	Description of Case Study Areas for Deriving Management Strategies to Adapt Alpine Space Forests to Climate Change Risks. , 0, , .		0