

# Bart Muys

## List of Publications by Year in descending order

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Version: 2024-02-01

306  
papers

18,278  
citations

14614

66  
h-index

18075

120  
g-index

317  
all docs

317  
docs citations

317  
times ranked

19383  
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of methods for in situ leaf area index determination. <i>Agricultural and Forest Meteorology</i> , 2004, 121, 19-35.	1.9	1,164
2	<i>Jatropha</i> bio-diesel production and use. <i>Biomass and Bioenergy</i> , 2008, 32, 1063-1084.	2.9	991
3	Trees, forests and water: Cool insights for a hot world. <i>Global Environmental Change</i> , 2017, 43, 51-61.	3.6	660
4	The role of fine and coarse roots in shallow slope stability and soil erosion control with a focus on root system architecture: a review. <i>Trees - Structure and Function</i> , 2007, 21, 385-402.	0.9	425
5	Root tensile strength and root distribution of typical Mediterranean plant species and their contribution to soil shear strength. <i>Plant and Soil</i> , 2008, 305, 207-226.	1.8	358
6	SAFE—A hierarchical framework for assessing the sustainability of agricultural systems. <i>Agriculture, Ecosystems and Environment</i> , 2007, 120, 229-242.	2.5	328
7	Comparison and ranking of different modelling techniques for prediction of site index in Mediterranean mountain forests. <i>Ecological Modelling</i> , 2010, 221, 1119-1130.	1.2	315
8	Effectiveness of exclosures to restore degraded soils as a result of overgrazing in Tigray, Ethiopia. <i>Journal of Arid Environments</i> , 2007, 69, 270-284.	1.2	270
9	Exergy: Its Potential and Limitations in Environmental Science and Technology. <i>Environmental Science &amp; Technology</i> , 2008, 42, 2221-2232.	4.6	270
10	Predictive Quality of Pedotransfer Functions for Estimating Bulk Density of Forest Soils. <i>Soil Science Society of America Journal</i> , 2005, 69, 500-510.	1.2	256
11	Global distribution of earthworm diversity. <i>Science</i> , 2019, 366, 480-485.	6.0	248
12	Biodiversity and ecosystem functioning relations in European forests depend on environmental context. <i>Ecology Letters</i> , 2017, 20, 1414-1426.	3.0	244
13	Household livelihood strategies and forest dependence in the highlands of Tigray, Northern Ethiopia. <i>Agricultural Systems</i> , 2008, 98, 147-155.	3.2	242
14	Meta-Analysis of Susceptibility of Woody Plants to Loss of Genetic Diversity through Habitat Fragmentation. <i>Conservation Biology</i> , 2012, 26, 228-237.	2.4	242
15	The economic contribution of forest resource use to rural livelihoods in Tigray, Northern Ethiopia. <i>Forest Policy and Economics</i> , 2009, 11, 109-117.	1.5	236
16	<i>Jatropha</i> biodiesel fueling sustainability?. <i>Biofuels, Bioproducts and Biorefining</i> , 2007, 1, 283-291.	1.9	206
17	Contributions of a global network of tree diversity experiments to sustainable forest plantations. <i>Ambio</i> , 2016, 45, 29-41.	2.8	203
18	Biotic homogenization can decrease landscape-scale forest multifunctionality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3557-3562.	3.3	196

#	ARTICLE	IF	CITATIONS
19	Jack-of-all-trades effects drive biodiversityâ€™ecosystem multifunctionality relationships in European forests. <i>Nature Communications</i> , 2016, 7, 11109.	5.8	185
20	Sediment deposition and pedogenesis in exclosures in the Tigray highlands, Ethiopia. <i>Geoderma</i> , 2006, 132, 291-314.	2.3	180
21	A novel comparative research platform designed to determine the functional significance of tree species diversity in European forests. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2013, 15, 281-291.	1.1	179
22	Early stage litter decomposition across biomes. <i>Science of the Total Environment</i> , 2018, 628-629, 1369-1394.	3.9	177
23	Runoff on slopes with restoring vegetation: A case study from the Tigray highlands, Ethiopia. <i>Journal of Hydrology</i> , 2006, 331, 219-241.	2.3	170
24	Towards domestication of <i>Jatropha curcas</i> . <i>Biofuels</i> , 2010, 1, 91-107.	1.4	159
25	Plantâ€™water relationships and growth strategies of <i>Jatropha curcas</i> L. seedlings under different levels of drought stress. <i>Journal of Arid Environments</i> , 2009, 73, 877-884.	1.2	157
26	Walkley-Black analysis of forest soil organic carbon: recovery, limitations and uncertainty. <i>Soil Use and Management</i> , 2007, 23, 221-229.	2.6	156
27	Climatic growing conditions of <i>Jatropha curcas</i> L.. <i>Biomass and Bioenergy</i> , 2009, 33, 1481-1485.	2.9	145
28	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
29	Life cycle assessment of <i>Jatropha</i> biodiesel as transportation fuel in rural India. <i>Applied Energy</i> , 2010, 87, 3652-3660.	5.1	141
30	<i>Jatropha</i> : From global hype to local opportunity. <i>Journal of Arid Environments</i> , 2010, 74, 164-165.	1.2	136
31	Biomass production and allocation in <i>Jatropha curcas</i> L. seedlings under different levels of drought stress. <i>Biomass and Bioenergy</i> , 2010, 34, 667-676.	2.9	135
32	Assessment of automatic gap fraction estimation of forests from digital hemispherical photography. <i>Agricultural and Forest Meteorology</i> , 2005, 132, 96-114.	1.9	126
33	Tree species traits cause divergence in soil acidification during four decades of postagricultural forest development. <i>Global Change Biology</i> , 2012, 18, 1127-1140.	4.2	124
34	For the sake of resilience and multifunctionality, let's diversify planted forests!. <i>Conservation Letters</i> , 2022, 15, e12829.	2.8	124
35	Soil organic carbon changes in landscape units of Belgium between 1960 and 2000 with reference to 1990. <i>Global Change Biology</i> , 2005, 11, 2128-2140.	4.2	117
36	Regionalisation of the parameters of a hydrological model: Comparison of linear regression models with artificial neural nets. <i>Journal of Hydrology</i> , 2006, 319, 245-265.	2.3	114

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37	Synthesis and future research directions linking tree diversity to growth, survival, and damage in a global network of tree diversity experiments. <i>Environmental and Experimental Botany</i> , 2018, 152, 68-89.	2.0	113
38	Litter production and organic matter accumulation in exclosures of the Tigray highlands, Ethiopia. <i>Forest Ecology and Management</i> , 2006, 233, 21-35.	1.4	106
39	Semi-forest coffee cultivation and the conservation of Ethiopian Afromontane rainforest fragments. <i>Forest Ecology and Management</i> , 2011, 261, 1034-1041.	1.4	100
40	Effects of grassland afforestation with different tree species on earthworm communities, litter decomposition and nutrient status. <i>Soil Biology and Biochemistry</i> , 1992, 24, 1459-1466.	4.2	99
41	Effects of landscape structure on the invasive spread of black cherry <i>Prunus serotina</i> in an agricultural landscape in Flanders, Belgium. <i>Ecography</i> , 2005, 28, 99-109.	2.1	99
42	Species composition and diversity of small Afromontane forest fragments in northern Ethiopia. <i>Plant Ecology</i> , 2006, 187, 127-142.	0.7	99
43	Growth responses of West-Mediterranean <i>Pinus nigra</i> to climate change are modulated by competition and productivity: Past trends and future perspectives. <i>Forest Ecology and Management</i> , 2011, 262, 1030-1040.	1.4	96
44	Comparing multiple criteria decision methods to extend a geographical information system on afforestation. <i>Computers and Electronics in Agriculture</i> , 2005, 49, 142-158.	3.7	94
45	Conservation of the Ethiopian church forests: Threats, opportunities and implications for their management. <i>Science of the Total Environment</i> , 2016, 551-552, 404-414.	3.9	93
46	A method for dendrochronological assessment of medium-term gully erosion rates. <i>Catena</i> , 2001, 45, 123-161.	2.2	91
47	Forests and global change: what can genetics contribute to the major forest management and policy challenges of the twenty-first century?. <i>Regional Environmental Change</i> , 2016, 16, 927-939.	1.4	91
48	Carbon footprint of science: More than flying. <i>Ecological Indicators</i> , 2013, 34, 352-355.	2.6	87
49	Adapting forest management to climate change in Europe: Linking perceptions to adaptive responses. <i>Forest Policy and Economics</i> , 2018, 90, 22-30.	1.5	87
50	Stocks and fluxes of soil organic carbon for landscape units in Belgium derived from heterogeneous data sets for 1990 and 2000. <i>Geoderma</i> , 2005, 127, 11-23.	2.3	85
51	Factors affecting plant species composition of hedgerows: relative importance and hierarchy. <i>Acta Oecologica</i> , 2004, 26, 23-37.	0.5	84
52	Capability of Loss on Ignition as a Predictor of Total Organic Carbon in Non-Calcareous Forest Soils. <i>Communications in Soil Science and Plant Analysis</i> , 2005, 36, 2899-2921.	0.6	84
53	Methodological framework to select plant species for controlling rill and gully erosion: application to a Mediterranean ecosystem. <i>Earth Surface Processes and Landforms</i> , 2009, 34, 1374-1392.	1.2	84
54	Effects of Coffee Management Intensity on Composition, Structure, and Regeneration Status of Ethiopian Moist Evergreen Afromontane Forests. <i>Environmental Management</i> , 2013, 51, 801-809.	1.2	83

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55	Radial growth change of temperate tree species in response to altered regional climate and air quality in the period 1901–2008. <i>Climatic Change</i> , 2012, 115, 343-363.	1.7	82
56	Tree diversity is key for promoting the diversity and abundance of forest-associated taxa in Europe. <i>Oikos</i> , 2020, 129, 133-146.	1.2	80
57	Genetic variation and risks of introgression in the wild <i>Coffea arabica</i> gene pool in southwestern Ethiopian montane rainforests. <i>Evolutionary Applications</i> , 2013, 6, 243-252.	1.5	79
58	Poplar growth and yield in short rotation coppice: model simulations using the process model SECRETS. <i>Biomass and Bioenergy</i> , 2004, 26, 221-227.	2.9	78
59	More than biofuel? <i>Jatropha curcas</i> root system symmetry and potential for soil erosion control. <i>Journal of Arid Environments</i> , 2011, 75, 201-205.	1.2	77
60	Surface runoff and seed trapping efficiency of shrubs in a regenerating semiarid woodland in northern Ethiopia. <i>Catena</i> , 2006, 65, 61-70.	2.2	75
61	Tree species selection for land rehabilitation in Ethiopia: from fragmented knowledge to an integrated multi-criteria decision approach. <i>Agroforestry Systems</i> , 2011, 82, 303-330.	0.9	75
62	Continental mapping of forest ecosystem functions reveals a high but unrealised potential for forest multifunctionality. <i>Ecology Letters</i> , 2018, 21, 31-42.	3.0	74
63	Evaluation of modelling techniques for forest site productivity prediction in contrasting ecoregions using stochastic multicriteria acceptability analysis (SMAA). <i>Environmental Modelling and Software</i> , 2011, 26, 929-937.	1.9	72
64	Nitrogen saturation and net ecosystem production. <i>Nature</i> , 2008, 451, E1-E1.	13.7	71
65	A time series processing tool to extract climate-driven interannual vegetation dynamics using Ensemble Empirical Mode Decomposition (EEMD). <i>Remote Sensing of Environment</i> , 2015, 169, 375-389.	4.6	71
66	Restoration of Dry Afromontane Forest Using Pioneer Shrubs as Nurse-Plants for <i>Olea europaea</i> ssp. <i>cuspidata</i> . <i>Restoration Ecology</i> , 2007, 15, 129-138.	1.4	70
67	Land use impact evaluation in life cycle assessment based on ecosystem thermodynamics. <i>Energy</i> , 2006, 31, 112-125.	4.5	69
68	Integration of legume trees in maize-based cropping systems improves rain use efficiency and yield stability under rain-fed agriculture. <i>Agricultural Water Management</i> , 2011, 98, 1364-1372.	2.4	69
69	Variable carbon recovery of Walkley-Black analysis and implications for national soil organic carbon accounting. <i>European Journal of Soil Science</i> , 2007, 58, 1244-1253.	1.8	68
70	Assessing the sustainability of forest management: An application of multi-criteria decision analysis to community forests in northern Ethiopia. <i>Journal of Environmental Management</i> , 2010, 91, 1294-1304.	3.8	68
71	Soil organic and inorganic carbon contents of landscape units in Belgium derived using data from 1950 to 1970. <i>Soil Use and Management</i> , 2004, 20, 40-47.	2.6	68
72	Multilayered Modeling of Particulate Matter Removal by a Growing Forest over Time, From Plant Surface Deposition to Washoff via Rainfall. <i>Environmental Science &amp; Technology</i> , 2014, 48, 10785-10794.	4.6	66

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73	Bioenergy production and sustainable development: science base for policymaking remains limited. <i>GCB Bioenergy</i> , 2017, 9, 541-556.	2.5	66
74	Modelling carbon stocks and fluxes in the wood product sector: a comparative review. <i>Global Change Biology</i> , 2016, 22, 2555-2569.	4.2	65
75	Lignocellulosic biomass for bioenergy beyond intensive cropland and forests. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 102, 139-149.	8.2	65
76	A Compact Laboratory Spectro-Goniometer (CLabSpeG) to Assess the BRDF of Materials. Presentation, Calibration and Implementation on <i>Fagus sylvatica</i> L. Leaves. <i>Sensors</i> , 2007, 7, 1846-1870.	2.1	64
77	Spatial structures of soil organic carbon in tropical forests—A case study of Southeastern Tanzania. <i>Catena</i> , 2009, 77, 19-27.	2.2	64
78	Towards integrated sustainability assessment for energetic use of biomass: A state of the art evaluation of assessment tools. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 3918-3933.	8.2	64
79	Can complementarity in water use help to explain diversity-productivity relationships in experimental grassland plots?. <i>Oecologia</i> , 2008, 156, 351-361.	0.9	62
80	Energy budget and greenhouse gas balance evaluation of sustainable coppice systems for electricity production. <i>Biomass and Bioenergy</i> , 2003, 24, 179-197.	2.9	61
81	Evaluation of hydrological model parameter transferability for simulating the impact of land use on catchment hydrology. <i>Physics and Chemistry of the Earth</i> , 2004, 29, 739-747.	1.2	61
82	Overyielding in young tree plantations is driven by local complementarity and selection effects related to shade tolerance. <i>Journal of Ecology</i> , 2018, 106, 1096-1105.	1.9	61
83	Sustainable forest management worldwide: a comparative assessment of standards. <i>International Forestry Review</i> , 2004, 6, 99-122.	0.3	60
84	Vegetation response to precipitation variability in East Africa controlled by biogeographical factors. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2422-2444.	1.3	60
85	Tree Species Identity Shapes Earthworm Communities. <i>Forests</i> , 2017, 8, 85.	0.9	60
86	Assessment of Land Use Impact on Water-Related Ecosystem Services Capturing the Integrated Terrestrial-Aquatic System. <i>Environmental Science &amp; Technology</i> , 2009, 43, 7324-7330.	4.6	59
87	Elevation and exposition rather than soil types determine communities and site suitability in Mediterranean mountain forests of southern Anatolia, Turkey. <i>Forest Ecology and Management</i> , 2007, 247, 18-25.	1.4	58
88	Identifying the tree species compositions that maximize ecosystem functioning in European forests. <i>Journal of Applied Ecology</i> , 2019, 56, 733-744.	1.9	58
89	Earthworms as bio-indicators of forest site quality. <i>Soil Biology and Biochemistry</i> , 1997, 29, 323-328.	4.2	57
90	Life Cycle Assessment of a Palm Oil System with Simultaneous Production of Biodiesel and Cooking Oil in Cameroon. <i>Environmental Science &amp; Technology</i> , 2010, 44, 4809-4815.	4.6	57

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91	Ecosystem Thermal Buffer Capacity as an Indicator of the Restoration Status of Protected Areas in the Northern Ethiopian Highlands. <i>Restoration Ecology</i> , 2004, 12, 586-596.	1.4	56
92	Inventory of the earthworm communities and the state of litter decomposition in the forests of flanders, belgium, and its implications for forest management. <i>Soil Biology and Biochemistry</i> , 1992, 24, 1677-1681.	4.2	55
93	Impact of avian frugivores on dispersal and recruitment of the invasive <i>Prunus serotina</i> in an agricultural landscape. <i>Biological Invasions</i> , 2008, 10, 717-727.	1.2	55
94	Woody plant communities of isolated Afromontane cloud forests in Taita Hills, Kenya. <i>Plant Ecology</i> , 2011, 212, 639-649.	0.7	55
95	Do private coffee standards "walk the talk"™ in improving socio-economic and environmental sustainability?. <i>Global Environmental Change</i> , 2018, 51, 1-9.	3.6	55
96	Global mapping of <i>Jatropha curcas</i> yield based on response of fitness to present and future climate. <i>GCB Bioenergy</i> , 2010, 2, 139-151.	2.5	54
97	Predicting forest site productivity in temperate lowland from forest floor, soil and litterfall characteristics using boosted regression trees. <i>Plant and Soil</i> , 2012, 354, 157-172.	1.8	54
98	Drivers of earthworm incidence and abundance across European forests. <i>Soil Biology and Biochemistry</i> , 2016, 99, 167-178.	4.2	53
99	Mapping tree species vulnerability to multiple threats as a guide to restoration and conservation of tropical dry forests. <i>Global Change Biology</i> , 2020, 26, 3552-3568.	4.2	53
100	Sampling methodology for LAI measurements with LAI-2000 in small forest stands. <i>Agricultural and Forest Meteorology</i> , 2000, 101, 247-250.	1.9	51
101	3D modeling of light interception in heterogeneous forest canopies using ground-based LiDAR data. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2011, 13, 792-800.	1.4	50
102	Land rehabilitation and the conservation of birds in a degraded Afromontane landscape in northern Ethiopia. <i>Biodiversity and Conservation</i> , 2008, 17, 53-69.	1.2	49
103	Plasticity of tree architecture through interspecific and intraspecific competition in a young experimental plantation. <i>Forest Ecology and Management</i> , 2017, 385, 1-9.	1.4	49
104	Earthworm biomass and species diversity in windthrow sites of a temperate lowland forest. <i>Pedobiologia</i> , 2002, 46, 440-451.	0.5	48
105	Comparative analysis of the actual evapotranspiration of Flemish forest and cropland, using the soil water balance model WAVE. <i>Hydrology and Earth System Sciences</i> , 2005, 9, 225-241.	1.9	48
106	Runoff curve numbers for steep hillslopes with natural vegetation in semi-arid tropical highlands, northern Ethiopia. <i>Hydrological Processes</i> , 2008, 22, 4097-4105.	1.1	48
107	Introducing <i>Boswellia papyrifera</i> (Del.) Hochst and its non-timber forest product, frankincense. <i>International Forestry Review</i> , 2003, 5, 348-353.	0.3	47
108	Temporalis, a generic method and tool for dynamic Life Cycle Assessment. <i>Science of the Total Environment</i> , 2018, 645, 585-595.	3.9	47



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109	Carbon sequestration following afforestation of agricultural soils: comparing oak/beechn forest to short-rotation poplar coppice combining a process and a carbon accounting model. <i>Global Change Biology</i> , 2004, 10, 1482-1491.	4.2	46
110	Within-field spatial distribution of earthworm populations related to species interactions and soil apparent electrical conductivity. <i>Applied Soil Ecology</i> , 2009, 41, 315-328.	2.1	46
111	Both forest fragmentation and coffee cultivation negatively affect epiphytic orchid diversity in Ethiopian moist evergreen Afromontane forests. <i>Biological Conservation</i> , 2013, 159, 285-291.	1.9	46
112	Earthworm biomass as additional information for risk assessment of heavy metal biomagnification: a case study for dredged sediment-derived soils and polluted floodplain soils. <i>Environmental Pollution</i> , 2004, 129, 363-375.	3.7	45
113	Carbon and Water Footprints and Energy Use of Greenhouse Tomato Production in Northern Italy. <i>Journal of Industrial Ecology</i> , 2014, 18, 898-908.	2.8	44
114	Ecosystem services of mixed species forest stands and monocultures: comparing practitioners' and scientists' perceptions with formal scientific knowledge. <i>Forestry</i> , 2014, 87, 639-653.	1.2	44
115	An integrated decision support framework for the prediction and evaluation of efficiency, environmental impact and total social cost of domestic and international forestry projects for greenhouse gas mitigation: description and case studies. <i>Forest Ecology and Management</i> , 2005, 207, 245-262.	1.4	43
116	Differential environmental response of plant functional types in hedgerow habitats. <i>Basic and Applied Ecology</i> , 2004, 5, 551-566.	1.2	42
117	Biomass of invasive plant species as a potential feedstock for bioenergy production. <i>Biofuels, Bioproducts and Biorefining</i> , 2015, 9, 273-282.	1.9	42
118	Tree diversity mitigates defoliation after a drought-induced tipping point. <i>Global Change Biology</i> , 2018, 24, 4304-4315.	4.2	42
119	Climate mitigation by energy and material substitution of wood products has an expiry date. <i>Journal of Cleaner Production</i> , 2021, 303, 127026.	4.6	42
120	3D upscaling of transpiration from leaf to tree using ground-based LiDAR: Application on a Mediterranean Holm oak ( <i>Quercus ilex</i> L.) tree. <i>Agricultural and Forest Meteorology</i> , 2009, 149, 1573-1583.	1.9	41
121	A quantitative indicator framework for stand level evaluation and monitoring of environmentally sustainable forest management. <i>Ecological Indicators</i> , 2011, 11, 468-479.	2.6	41
122	Long-term growth changes of common beech ( <i>Fagus sylvatica</i> L.) are less pronounced on highly productive sites. <i>Forest Ecology and Management</i> , 2014, 312, 252-259.	1.4	41
123	Sunken roads as habitats for forest plant species in a dynamic agricultural landscape: effects of age and isolation. <i>Journal of Biogeography</i> , 2004, 32, 99-109.	1.4	40
124	Circular economy monitoring – How to make it apt for biological cycles?. <i>Resources, Conservation and Recycling</i> , 2021, 170, 105563.	5.3	40
125	Floral display and effects of natural and artificial pollination on fruiting and seed yield of the tropical biofuel crop <i>Atropa curcas</i> L.. <i>GCB Bioenergy</i> , 2014, 6, 210-218.	2.5	39
126	Assessment of the functional role of tree diversity: the multi-site FORBIO experiment. <i>Plant Ecology and Evolution</i> , 2013, 146, 26-35.	0.3	38



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127	Effects of watershed and riparian zone characteristics on nutrient concentrations in the River Scheldt Basin. <i>Hydrology and Earth System Sciences</i> , 2006, 10, 913-922.	1.9	37
128	RPV Model Parameters Based on Hyperspectral Bidirectional Reflectance Measurements of <i>Fagus sylvatica</i> L. Leaves. <i>Remote Sensing</i> , 2009, 1, 92-106.	1.8	37
129	Cost-benefit analysis of soil and water conservation measure: The case of exclosures in northern Ethiopia. <i>Forest Policy and Economics</i> , 2012, 15, 27-36.	1.5	37
130	Understorey vegetation shifts following the conversion of temperate deciduous forest to spruce plantation. <i>Forest Ecology and Management</i> , 2013, 289, 363-370.	1.4	37
131	Establishment and management of woody seedlings in gullies in a semi-arid environment (Tigray, Tj ETQq1 1 0.784314 rgBT JOverlod	1.8	36
132	DIGITAL CHANGE DETECTION METHODS IN NATURAL ECOSYSTEM MONITORING: A REVIEW. , 2002, , .		35
133	Modelling the water balance with SWAT as part of the land use impact evaluation in a life cycle study of CO2 emission reduction scenarios. <i>Hydrological Processes</i> , 2005, 19, 729-748.	1.1	34
134	Restoring dry Afromontane forest using bird and nurse plant effects: Direct sowing of <i>Olea europaea</i> ssp. <i>cuspidata</i> seeds. <i>Forest Ecology and Management</i> , 2006, 230, 23-31.	1.4	34
135	Modelling self-pruning and branch attributes for young <i>Quercus robur</i> L. and <i>Fagus sylvatica</i> L. trees. <i>Forest Ecology and Management</i> , 2010, 260, 2023-2034.	1.4	34
136	Global greenhouse gas implications of land conversion to biofuel crop cultivation in arid and semi-arid lands " Lessons learned from <i>Jatropha</i> . <i>Journal of Arid Environments</i> , 2013, 98, 135-145.	1.2	34
137	Assessment of Light Environment Variability in Broadleaved Forest Canopies Using Terrestrial Laser Scanning. <i>Remote Sensing</i> , 2010, 2, 1564-1574.	1.8	33
138	Ethnobotanical study of medicinal plants from degraded dry afromontane forest in northern Ethiopia: Species, uses and conservation challenges. <i>Journal of Herbal Medicine</i> , 2016, 6, 96-104.	1.0	33
139	Diversity for Restoration (D4R): Guiding the selection of tree species and seed sources for climate-resilient restoration of tropical forest landscapes. <i>Journal of Applied Ecology</i> , 2022, 59, 664-679.	1.9	33
140	Improved ecological network analysis for environmental sustainability assessment; a case study on a forest ecosystem. <i>Ecological Modelling</i> , 2012, 247, 144-156.	1.2	32
141	Temporal changes in forest plant communities at different site types. <i>Applied Vegetation Science</i> , 2013, 16, 237-247.	0.9	32
142	Potential, realised, future distribution and environmental suitability for <i>Pterocarpus angolensis</i> DC in southern Africa. <i>Forest Ecology and Management</i> , 2014, 315, 211-226.	1.4	32
143	Effect of cascade use on the carbon balance of the German and European wood sectors. <i>Journal of Cleaner Production</i> , 2018, 170, 137-146.	4.6	32
144	Energy potential for combustion and anaerobic digestion of biomass from low-input high-diversity systems in conservation areas. <i>GCB Bioenergy</i> , 2015, 7, 888-898.	2.5	31

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145	Adaptation of forest management to climate change as perceived by forest owners and managers in Belgium. <i>Forest Ecosystems</i> , 2016, 3, .	1.3	31
146	Actor-based identification of deforestation drivers paves the road to effective REDD+ in DR Congo. <i>Land Use Policy</i> , 2016, 58, 123-132.	2.5	31
147	The effect of increasing lifespan and recycling rate on carbon storage in wood products from theoretical model to application for the European wood sector. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2017, 22, 1193-1205.	1.0	31
148	Analysis of Land Use Land Cover Dynamics and Driving Factors in Desaâ€™a Forest in Northern Ethiopia. <i>Land Use Policy</i> , 2021, 101, 105039.	2.5	31
149	Quantifying the Environmental Impact of an Integrated Human/Industrial-Natural System Using Life Cycle Assessment; A Case Study on a Forest and Wood Processing Chain. <i>Environmental Science &amp; Technology</i> , 2013, 47, 13578-13586.	4.6	30
150	REALU vs. REDD+: Carbon and biodiversity in the Afromontane landscapes of SW Ethiopia. <i>Forest Ecology and Management</i> , 2015, 343, 22-33.	1.4	30
151	Humus Form Development during Forest Restoration in Enclosures of the Tigray Highlands, Northern Ethiopia. <i>Restoration Ecology</i> , 2009, 17, 280-289.	1.4	29
152	Tree species effects are amplified by clay content in acidic soils. <i>Soil Biology and Biochemistry</i> , 2018, 121, 43-49.	4.2	29
153	Global data on earthworm abundance, biomass, diversity and corresponding environmental properties. <i>Scientific Data</i> , 2021, 8, 136.	2.4	29
154	Effects of pioneer shrubs on the recruitment of the fleshy-fruited tree <i>Olea europaea</i> ssp. <i>cuspidata</i> in Afromontane savanna. <i>Applied Vegetation Science</i> , 2006, 9, 117.	0.9	29
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156	The bioenergy potential of conservation areas and roadsides for biogas in an urbanized region. <i>Applied Energy</i> , 2015, 154, 742-751.	5.1	28
157	Environmental impact assessment and monetary ecosystem service valuation of an ecosystem under different future environmental change and management scenarios; a case study of a Scots pine forest. <i>Journal of Environmental Management</i> , 2016, 173, 79-94.	3.8	28
158	Implications of Country-Level Decisions on the Specification of Crown Cover in the Definition of Forests for Land Area Eligible for Afforestation and Reforestation Activities in the CDM. <i>Climatic Change</i> , 2007, 81, 415-430.	1.7	27
159	Gully erosion in South Eastern Tanzania: spatial distribution and topographic thresholds. <i>Zeitschrift für Geomorphologie</i> , 2008, 52, 225-235.	0.3	27
160	Impact of membership in frankincense cooperative firms on rural income and poverty in Tigray, Northern Ethiopia. <i>Forest Policy and Economics</i> , 2016, 62, 95-108.	1.5	27
161	Why do farmers abandon <i>Jatropha</i> cultivation? The case of Chiapas, Mexico. <i>Energy for Sustainable Development</i> , 2018, 42, 77-86.	2.0	27
162	Foliar concentrations of volunteer willows growing on polluted sediment-derived sites versus sites with baseline contamination levels Electronic supplementary information (ESI) available: results for fluctuating asymmetry in the leaves of <i>S. cinerea</i> (ESI1, Table 1S) and forest floor quality (ESI2, Table 1S) Tj ETQq0 0 0zgbT /Overlock 10 TF 313.		

#	ARTICLE	IF	CITATIONS
163	Extending the Life Cycle Methodology to Cover Impacts of Land Use Systems on the Water Balance (7) Tj ETQq1 1.0,784314,rgBT /Ower	2.2	26
164	Influence of stand, site and meteorological variables on the maximum leaf area index of beech, oak and Scots pine. <i>European Journal of Forest Research</i> , 2012, 131, 283-295.	1.1	26
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167	Contrasting Cloud Forest Restoration Potential Between Plantations of Different Exotic Tree Species. <i>Restoration Ecology</i> , 2014, 22, 472-479.	1.4	25
168	Life cycle cost assessment of insect based feed production in West Africa. <i>Journal of Cleaner Production</i> , 2018, 199, 792-806.	4.6	25
169	The effect of mechanical stimulation on root and shoot development of young containerised <i>Quercus robur</i> and <i>Robinia pseudoacacia</i> trees. <i>Trees - Structure and Function</i> , 2009, 23, 1213-1228.	0.9	24
170	Biodiversity as insurance for sapling survival in experimental tree plantations. <i>Journal of Applied Ecology</i> , 2016, 53, 1777-1786.	1.9	24
171	Conserving wild Arabica coffee: Emerging threats and opportunities. <i>Agriculture, Ecosystems and Environment</i> , 2017, 237, 75-79.	2.5	24
172	Positive feedback loop between earthworms, humus form and soil pH reinforces earthworm abundance in European forests. <i>Functional Ecology</i> , 2020, 34, 2598-2610.	1.7	24
173	Transmission of genetic variation from the adult generation to naturally established seedling cohorts in small forest stands of pedunculate oak ( <i>Quercus robur</i> L.). <i>Forest Ecology and Management</i> , 2014, 312, 19-27.	1.4	23
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175	Fragmentation and Management of Ethiopian Moist Evergreen Forest Drive Compositional Shifts of Insect Communities Visiting Wild Arabica Coffee Flowers. <i>Environmental Management</i> , 2015, 55, 373-382.	1.2	22
176	The bioenergy potential of Natura 2000 " a synergy between climate change mitigation and biodiversity protection. <i>Frontiers in Ecology and the Environment</i> , 2016, 14, 473-478.	1.9	22
177	Effects of livestock grazing on key vegetation attributes of a remnant forest reserve: The case of Desa'a Forest in northern Ethiopia. <i>Global Ecology and Conservation</i> , 2018, 14, e00395.	1.0	22
178	Effects of pioneer shrubs on the recruitment of the fleshy-fruited tree <i>Olea europaea</i> ssp. <i>cuspidata</i> in Afromontane savanna. <i>Applied Vegetation Science</i> , 2006, 9, 117-126.	0.9	21
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180	Biotic predictors complement models of bat and bird responses to climate and tree diversity in European forests. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20182193.	1.2	21

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182	Invasiveness risk of biofuel crops using <i>Jatropha curcas</i> L. as a model species. <i>Biofuels, Bioproducts and Biorefining</i> , 2013, 7, 485-498.	1.9	20
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200	Insufficient Evidence of <i>Jatropha curcas</i> L. Invasiveness: Experimental Observations in Burkina Faso, West Africa. <i>Bioenergy Research</i> , 2015, 8, 570-580.	2.2	17
201	Litter quality and the law of the most limiting: Opportunities for restoring nutrient cycles in acidified forest soils. <i>Science of the Total Environment</i> , 2020, 699, 134383.	3.9	17
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218	Potential tree species extinction, colonization and recruitment in Afromontane forest relicts. <i>Basic and Applied Ecology</i> , 2014, 15, 288-296.	1.2	14
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220	Patterns of forest composition and their long term environmental drivers in the tropical dry forest transition zone of southern Africa. <i>Forest Ecosystems</i> , 2016, 3, .	1.3	14
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224	Automated observation and analysis of earthworm surface behaviour under experimental habitat quality and availability conditions. <i>Pedobiologia</i> , 2010, 53, 259-263.	0.5	13
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231	The effect of drought stress on heterozygosityâfitness correlations in pedunculate oak ( <i>Quercus</i> ) Tj ETQq1 1 0.784314 rgBTj/Overl	1.4	12
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