# Hans Pretzsch

List of Publications by Year
in descending order

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| 343 | 16,897 | 14655 66 | 24258 110 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 371 | 371 | 371 | 9867 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Positive biodiversity-productivity relationship predominant in global forests. Science, 2016, 354, . | 12.6 | 864 |
| 2 | Resistance of European tree species to drought stress in mixed versus pure forests: evidence of stress release by interâ€specific facilitation. Plant Biology, 2013, 15, 483-495. | 3.8 | 455 |
| 3 | Forest stand growth dynamics in Central Europe have accelerated since 1870. Nature Communications, 2014, 5, 4967. | 12.8 | 431 |
| 4 | Forest Dynamics, Growth and Yield. , 2009, , . | | 430 |
| 5 | Canopy space filling and tree crown morphology in mixed-species stands compared with monocultures. Forest Ecology and Management, 2014, 327, 251-264. | 3.2 | 423 |
| 6 | The single tree-based stand simulator SILVA: construction, application and evaluation. Forest Ecology and Management, 2002, 162, 3-21. | 3.2 | 422 |
| 7 | Comparison between the productivity of pure and mixed stands of Norway spruce and European beech along an ecological gradient. Annals of Forest Science, 2010, 67, 712-712. | 2.0 | 268 |
| 8 | Growth and yield of mixed versus pure stands of Scots pine (Pinus sylvestris L.) and European beech (Fagus sylvatica L.) analysed along a productivity gradient through Europe. European Journal of Forest Research, 2015, 134, 927-947. | 2.5 | 257 |
| 9 | Transgressive overyielding in mixed compared with pure stands of Norway spruce and European beech in Central Europe: evidence on stand level and explanation on individual tree level. European Journal of Forest Research, 2009, 128, 183-204. | 2.5 | 251 |
| 10 | TanDEM-X Pol-InSAR Performance for Forest Height Estimation. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 6404-6422. | 6.3 | 224 |
| 11 | Generalized biomass and leaf area allometric equations for European tree species incorporating stand structure, tree age and climate. Forest Ecology and Management, 2017, 396, 160-175. | 3.2 | 219 |
| 12 | Productivity of mixed versus pure stands of oak (Quercus petraea (Matt.) Liebl. and Quercus robur L.) and European beech (Fagus sylvatica L.) along an ecological gradient. European Journal of Forest Research, 2013, 132, 263-280. | 2.5 | 218 |
| 13 | Models for Forest Ecosystem Management: A European Perspective. Annals of Botany, 2007, 101, 1065-1087. | 2.9 | 214 |
| 14 | Forest Dynamics, Growth, and Yield. , 2009, , 1-39. | | 200 |
| 15 | Crown size and growing space requirement of common tree species in urban centres, parks, and forests. Urban Forestry and Urban Greening, 2015, 14, 466-479. | 5.3 | 187 |
| 16 | Biodiversity along temperate forest succession. Journal of Applied Ecology, 2018, 55, 2756-2766. | 4.0 | 175 |
| 17 | Characterization of the structure, dynamics, and productivity of mixed-species stands: review and perspectives. European Journal of Forest Research, 2016, 135, 23-49. | 2.5 | 170 |
| 18 | Traits of trees for cooling urban heat islands: A meta-analysis. Building and Environment, 2020, 170, 106606. | 6.9 | 165 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Size-symmetric versus size-asymmetric competition and growth partitioning among trees in forest stands along an ecological gradient in central Europe. Canadian Journal of Forest Research, 2010, 40, 370-384. | 1.7 | 163 |
| 20 | Structural crown properties of Norway spruce (Picea abies [L.] Karst.) and European beech (Fagus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Function, 2013, 27, 1035-1047. | 1.9 | 163 |
| 21 | Representation of species mixing in forest growth models. A review and perspective. Ecological Modelling, 2015, 313, 276-292. | 2.5 | 149 |
| 22 | Analysis and modeling of spatial stand structures. Methodological considerations based on mixed beech-larch stands in Lower Saxony. Forest Ecology and Management, 1997, 97, 237-253. | 3.2 | 146 |
| 23 | Enhanced ozone strongly reduces carbon sink strength of adult beech (Fagus sylvatica) â€“ Resume from the free-air fumigation study at Kranzberg Forest. Environmental Pollution, 2010, 158, 2527-2532. | 7.5 | 140 |
| 24 | Species interactions increase the temporal stability of community productivity in Pinus sylvestrisâ€“Fagus sylvatica mixtures across Europe. Journal of Ecology, 2017, 105, 1032-1043. | 4.0 | 140 |
| 25 | Late-spring frost risk between 1959 and 2017 decreased in North America but increased in Europe and Asia. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12192-12200. | 7.1 | 140 |
| 26 | Effect of tree species mixing on the size structure, density, and yield of forest stands. European Journal of Forest Research, 2016, 135, 1-22. | 2.5 | 137 |
| 27 | Size-dependent responses to summer drought in Scots pine, Norway spruce and common oak. Trees - Structure and Function, 2012, 26, 557-569. | 1.9 | 133 |
| 28 | Morphological plasticity of European beech (Fagus sylvatica L.) in pure and mixed-species stands. Forest Ecology and Management, 2013, 295, 97-108. | 3.2 | 133 |
| 29 | Positive biodiversityâ€“productivity relationships in forests: climate matters. Biology Letters, 2018, 14, 20170747. | 2.3 | 133 |
| 30 | Temporal variation of competition and facilitation in mixed species forests in <scp>C</scp>entral <scp>E</scp>urope. Plant Biology, 2014, 16, 166-176. | 3.8 | 132 |
| 31 | Aggregative response in bats: prey abundance versus habitat. Oecologia, 2012, 169, 673-684. | 2.0 | 131 |
| 32 | Extraordinary drought of 2003 overrules ozone impact on adult beech trees (Fagus sylvatica). Trees - Structure and Function, 2006, 20, 539-548. | 1.9 | 127 |
| 33 | Stand density and growth of Norway spruce (Picea abies (L.) Karst.) and European beech (Fagus) Tj ETQq1 1 0.784314 rgBT /Overlock 1 124, 193-205. | 2.5 | 126 |
| 34 | Species-specific allometric scaling under self-thinning: evidence from long-term plots in forest stands. Oecologia, 2006, 146, 572-583. | 2.0 | 126 |
| 35 | Climate change accelerates growth of urban trees in metropolises worldwide. Scientific Reports, 2017, 7, 15403. | 3.3 | 126 |
| 36 | Effects of crown architecture and stand structure on light absorption in mixed and monospecific Fagus sylvatica and Pinus sylvestris forests along a productivity and climate gradient through Europe. Journal of Ecology, 2018, 106, 746-760. | 4.0 | 125 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Crown Allometry and Growing Space Efficiency of Norway Spruce (Picea abies [L.] Karst.) and European Beech (Fagus sylvatica L.) in Pure and Mixed Stands. Plant Biology, 2005, 7, 628-639. | 3.8 | 116 |
| 38 | Diversity and Productivity in Forests: Evidence from Long-Term Experimental Plots. , 2005, , 41-64. | | 115 |
| 39 | Mixing of Scots pine (Pinus sylvestris L.) and European beech (Fagus sylvatica L.) enhances structural heterogeneity, and the effect increases with water availability. Forest Ecology and Management, 2016, 373, 149-166. | 3.2 | 115 |
| 40 | Effect of forest stand management on species composition, structural diversity, and productivity in the temperate zone of Europe. European Journal of Forest Research, 2017, 136, 739-766. | 2.5 | 114 |
| 41 | Tree species mixing can increase maximum stand density. Canadian Journal of Forest Research, 2016, 46, 1179-1193. | 1.7 | 113 |
| 42 | Wood quality in complex forests versus even-aged monocultures: review and perspectives. Wood Science and Technology, 2016, 50, 845-880. | 3.2 | 112 |
| 43 | Tamm Review: On the strength of evidence when comparing ecosystem functions of mixtures with monocultures. Forest Ecology and Management, 2015, 356, 41-53. | 3.2 | 111 |
| 44 | Mixture reduces climate sensitivity of Douglas-fir stem growth. Forest Ecology and Management, 2016, 376, 205-220. | 3.2 | 109 |
| 45 | European Mixed Forests: definition and research perspectives. Forest Systems, 2014, 23, 518. | 0.3 | 107 |
| 46 | Mixed Norway spruce (Picea abies [L.] Karst) and European beech (Fagus sylvatica [L.]) stands under drought: from reaction pattern to mechanism. Trees - Structure and Function, 2014, 28, 1305-1321. | 1.9 | 106 |
| 47 | Tree and stand growth of mature Norway spruce and European beech under long-term ozone fumigation. Environmental Pollution, 2010, 158, 1061-1070. | 7.5 | 104 |
| 48 | The greater resilience of mixed forests to drought mainly depends on their composition: Analysis along a climate gradient across Europe. Forest Ecology and Management, 2021, 481, 118687. | 3.2 | 104 |
| 49 | The timing of bud burst and its effect on tree growth. International Journal of Biometeorology, 2004, 48, 109-118. | 3.0 | 103 |
| 50 | How Sensitive Are Ecosystem Services in European Forest Landscapes to Silvicultural Treatment?. Forests, 2015, 6, 1666-1695. | 2.1 | 103 |
| 51 | What is Climate-Smart Forestry? A definition from a multinational collaborative process focused on mountain regions of Europe. Ecosystem Services, 2020, 43, 101113. | 5.4 | 100 |
| 52 | Advances in understanding ozone impact on forest trees: Messages from novel phytotron and free-air fumigation studies. Environmental Pollution, 2010, 158, 1990-2006. | 7.5 | 97 |
| 53 | Evidence of variant intra- and interspecific scaling of tree crown structure and relevance for allometric theory. Oecologia, 2012, 169, 637-649. | 2.0 | 96 |
| 54 | Die Fichten-Buchen-MischbestÃnde des Sonderforschungsbereiches â€žWachstum oder Parasitenabwehr?â€œ im Kranzberger Forst. European Journal of Forest Research, 1998, 117, 241-257. | 0.3 | 93 |

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|---|---|---|---|
| 55 | The Plant's Capacity in Regulating Resource Demand. Plant Biology, 2005, 7, 560-580. | 3.8 | 93 |
| 56 | Analyzing size-symmetric vs. size-asymmetric and intra- vs. inter-specific competition in beech (Fagus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 3.2 | 90 |
| 57 | Wood density reduced while wood volume growth accelerated in Central European forests since 1870. Forest Ecology and Management, 2018, 429, 589-616. | 3.2 | 89 |
| 58 | Long-term effects of logging intensity on structures, birds, saproxylic beetles and wood-inhabiting fungi in stands of European beech Fagus sylvatica L.. Forest Ecology and Management, 2007, 242, 297-305. | 3.2 | 87 |
| 59 | A Model for Individual Tree Development Based on Physiological Processes. Plant Biology, 2002, 4, 167-180. | 3.8 | 86 |
| 60 | The number of tree species on Earth. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 7.1 | 86 |
| 61 | Tree cooling effects and human thermal comfort under contrasting species and sites. Agricultural and Forest Meteorology, 2020, 287, 107947. | 4.8 | 83 |
| 62 | From ground to above canopyâ€"Bat activity in mature forests is driven by vegetation density and height. Forest Ecology and Management, 2013, 306, 179-184. | 3.2 | 82 |
| 63 | Terrestrial laser scanning reveals differences in crown structure of Fagus sylvatica in mixed vs. pure European forests. Forest Ecology and Management, 2017, 405, 381-390. | 3.2 | 80 |
| 64 | Growth and mortality of Norway spruce and European beech in monospecific and mixed-species stands under natural episodic and experimentally extended drought. Results of the KROOF throughfall exclusion experiment. Trees - Structure and Function, 2020, 34, 957-970. | 1.9 | 80 |
| 65 | Ecological Stability of Mixed-Species Forests. , 2017, , 337-382. | | 78 |
| 66 | Ontogeny partly explains the apparent heterogeneity of published biomass equations for Fagus sylvatica in central Europe. Forest Ecology and Management, 2011, 261, 1188-1202. | 3.2 | 71 |
| 67 | The dependency of the size-growth relationship of Norway spruce (Picea abies [L.] Karst.) and European beech (Fagus sylvatica [L.]) in forest stands on long-term site conditions, drought events, and ozone stress. Trees - Structure and Function, 2011, 25, 355-369. | 1.9 | 71 |
| 68 | A vertically discretised canopy description for ORCHIDEE (SVN r2290) and the modifications to the energy, water and carbon fluxes. Geoscientific Model Development, 2015, 8, 2035-2065. | 3.6 | 71 |
| 69 | Structure and ecosystem services of small-leaved lime (Tilia cordata Mill.) and black locust (Robinia) Tj ETQq1 1 0.784314 rgBT /Overlock | 5.3 | 70 |
| 70 | Toward managing mixed-species stands: from parametrization to prescription. Forest Ecosystems, 2017, 4, . | 3.1 | 70 |
| 71 | Mixed stands of Scots pine (Pinus sylvestris L.) and Norway spruce [Picea abies (L.) Karst] can be more productive than monocultures. Evidence from over 100 years of observation of long-term experiments. Forest Systems, 2014, 23, 573. | 0.3 | 70 |
| 72 | Climate effects on productivity and resource-use efficiency of Norway spruce (Picea abies [L.] Karst.) and European beech (Fagus sylvatica [L.]) in stands with different spatial mixing patterns. Trees - Structure and Function, 2012, 26, 1343-1360. | 1.9 | 69 |

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|---|---|---|---|
| 73 | Maintenance of long-term experiments for unique insights into forest growth dynamics and trends: review and perspectives. European Journal of Forest Research, 2019, 138, 165-185. | 2.5 | 68 |
| 74 | Growth reaction patterns of tree height, diameter, and volume of Douglas-fir (Pseudotsuga menziesii) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Research, 2014, 133, 1043-1056. | 2.5 | 66 |
| 75 | A review of thinning effects on Scots pine stands: From growth and yield to new challenges under global change. Forest Systems, 2017, 26, eR03S. | 0.3 | 66 |
| 76 | Changes of soil chemistry, stand nutrition, and stand growth at two Scots pine (Pinus sylvestris L.) sites in Central Europe during 40Âyears after fertilization, liming, and lupine introduction. European Journal of Forest Research, 2008, 127, 43-61. | 2.5 | 65 |
| 77 | Does belowground interaction with Fagus sylvatica increase drought susceptibility of photosynthesis and stem growth in Picea abies?. Forest Ecology and Management, 2016, 375, 268-278. | 3.2 | 65 |
| 78 | Improved productivity and modified tree morphology of mixed versus pure stands of European beech (Fagus sylvatica) and Douglas-fir (Pseudotsuga menziesii) with increasing precipitation and age. Annals of Forest Science, 2016, 73, 1047-1061. | 2.0 | 65 |
| 79 | Process based simulation of tree growth and ecosystem services of urban trees under present and future climate conditions. Science of the Total Environment, 2019, 676, 651-664. | 8.0 | 65 |
| 80 | Species mixing reduces drought susceptibility of Scots pine (Pinus sylvestris L.) and oak (Quercus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Forest Ecology and Management, 2020, 461, 117908. | 3.2 | 65 |
| 81 | Improving the simulation of stand structure in a forest gap model. Forest Ecology and Management, 1997, 95, 183-195. | 3.2 | 63 |
| 82 | Climatic turning point for beech and oak under climate change in Central Europe. Ecosphere, 2013, 4, 1-19. | 2.2 | 63 |
| 83 | Drought can favour the growth of small in relation to tall trees in mature stands of Norway spruce and European beech. Forest Ecosystems, 2018, 5, . | 3.1 | 63 |
| 84 | Ecosystem service trade-offs for adaptive forest management. Ecosystem Services, 2019, 39, 100993. | 5.4 | 61 |
| 85 | Changes of forest stand dynamics in Europe. Facts from long-term observational plots and their relevance for forest ecology and management. Forest Ecology and Management, 2014, 316, 65-77. | 3.2 | 59 |
| 86 | The Urban Environment Can Modify Drought Stress of Small-Leaved Lime (Tilia cordata Mill.) and Black Locust (Robinia pseudoacacia L.). Forests, 2016, 7, 71. | 2.1 | 59 |
| 87 | Climate influences on the maximum size-density relationship in Scots pine ( Pinus sylvestris L.) and European beech ( Fagus sylvatica L.) stands. Forest Ecology and Management, 2017, 385, 295-307. | 3.2 | 59 |
| 88 | Stand growth and structure of mixed-species and monospecific stands of Scots pine (Pinus sylvestris) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Europe. European Journal of Forest Research, 2020, 139, 349-367. | 2.5 | 59 |
| 89 | Modelling the conversion from even-aged to uneven-aged stands of Norway spruce (Picea abies L.) Tj ETQq1 1 0.784314 rgBT /Overlo | 3.2 | 58 |
| 90 | Response patterns in adult forest trees to chronic ozone stress: identification of variations and consistencies. Environmental Pollution, 2005, 136, 365-369. | 7.5 | 55 |

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| 91 | Height â€“ Diameter allometry in South Africaâ€™s indigenous high forests: Assessing generic models performance and function forms. Forest Ecology and Management, 2018, 410, 1-11. | 3.2 | 55 |
| 92 | Growth of Adult Norway Spruce (Picea abies [L.] Karst.) and European Beech (Fagus sylvatica L.) Under Free-Air Ozone Fumigation. Plant Biology, 2005, 7, 611-618. | 3.8 | 54 |
| 93 | Effect of forest structure on stand productivity in Central European forests depends on developmental stage and tree species diversity. Forest Ecology and Management, 2019, 434, 193-204. | 3.2 | 53 |
| 94 | Modelling above and below ground carbon dynamics in a mixed beech and spruce stand influenced by climate. European Journal of Forest Research, 2009, 128, 171-182. | 2.5 | 52 |
| 95 | Tree ring wood density of Scots pine and European beech lower in mixed-species stands compared with monocultures. Forest Ecology and Management, 2017, 400, 363-374. | 3.2 | 51 |
| 96 | Stem and root diameter growth of European beech and Norway spruce under extreme drought. Forest Ecology and Management, 2017, 406, 184-195. | 3.2 | 50 |
| 97 | The Effect of Tree Crown Allometry on Community Dynamics in Mixed-Species Stands versus Monocultures. A Review and Perspectives for Modeling and Silvicultural Regulation. Forests, 2019, 10, 810. | 2.1 | 50 |
| 98 | Long-term stand dynamics of managed spruceâ€“firâ€“beech mountain forests in Central Europe: structure, productivity and regeneration success. Forestry, 2015, 88, 407-428. | 2.3 | 49 |
| 99 | Analysis of long-term dynamics of crowns of sessile oaks at the stand level by means of spatial statistics. Forest Ecology and Management, 2008, 255, 2007-2019. | 3.2 | 48 |
| 100 | Growth and Parasite Defence in Plants; the Balance between Resource Sequestration and Retention: In Lieu of a Guest Editorial. Plant Biology, 2002, 4, 133-136. | 3.8 | 46 |
| 101 | Using terrestrial laser scanner for estimating leaf areas of individual trees in a conifer forest. Trees - Structure and Function, 2010, 24, 609-619. | 1.9 | 46 |
| 102 | The productivity of mixed mountain forests comprised of Fagus sylvatica, Picea abies, and Abies alba across Europe. Forestry, 2019, 92, 512-522. | 2.3 | 46 |
| 103 | Prediction of stem volume in complex temperate forest stands using TanDEM-X SAR data. Remote Sensing of Environment, 2016, 174, 197-211. | 11.0 | 44 |
| 104 | Using semi-global matching point clouds to estimate growing stock at the plot and stand levels: application for a broadleaf-dominated forest in central Europe. Canadian Journal of Forest Research, 2015, 45, 111-123. | 1.7 | 43 |
| 105 | Growth patterns and effects of urban micro-climate on two physiologically contrasting urban tree species. Landscape and Urban Planning, 2019, 183, 88-99. | 7.5 | 43 |
| 106 | Inter- and intraannual growth patterns of urban small-leaved lime (Tilia cordata mill.) at two public squares with contrasting microclimatic conditions. International Journal of Biometeorology, 2017, 61, 1095-1107. | 3.0 | 42 |
| 107 | Density and growth of forest stands revisited. Effect of the temporal scale of observation, site quality, and thinning. Forest Ecology and Management, 2020, 460, 117879. | 3.2 | 42 |
| 108 | Changes in structural heterogeneity and stand productivity by mixing Scots pine and Maritime pine. Forest Ecology and Management, 2017, 405, 219-228. | 3.2 | 41 |

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|---|---|---|---|
| 109 | Predicting the spatial and temporal dynamics of species interactions in Fagus sylvatica and Pinus sylvestris forests across Europe. Forest Ecology and Management, 2017, 405, 112-133. | 3.2 | 40 |
| 110 | Assessing height changes in a highly structured forest using regularly acquired aerial image data. Forestry, 2015, 88, 304-316. | 2.3 | 39 |
| 111 | The Kroof experiment: realization and efficacy of a recurrent drought experiment plus recovery in a beech/spruce forest. Ecosphere, 2021, 12, e03399. | 2.2 | 39 |
| 112 | Influence of initial plant density on sawn timber properties for Douglas-fir (Pseudotsuga menziesii) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 2.0 | 38 |
| 113 | The course of tree growth. Theory and reality. Forest Ecology and Management, 2020, 478, 118508. | 3.2 | 38 |
| 114 | Sizeâ€dependence of tree growth response to drought for Norway spruce and European beech individuals in monospecific and mixedâ€species stands. Plant Biology, 2017, 19, 709-719. | 3.8 | 37 |
| 115 | Modeling Ecosystem Services for Park Trees: Sensitivity of i-Tree Eco Simulations to Light Exposure and Tree Species Classification. Forests, 2018, 9, 89. | 2.1 | 36 |
| 116 | Tree species richness enhances stand productivity while stand structure can have opposite effects, based on forest inventory data from Germany and the United States of America. Forest Ecosystems, 2018, 5, . | 3.1 | 36 |
| 117 | Forest Biodiversity, Carbon Sequestration, and Wood Production: Modeling Synergies and Trade-Offs for Ten Forest Landscapes Across Europe. Frontiers in Ecology and Evolution, 2020, 8, . | 2.2 | 36 |
| 118 | Spatial and temporal changes of outdoor thermal stress: influence of urban land cover types. Scientific Reports, 2022, 12, 671. | 3.3 | 36 |
| 119 | Evidence of elevation-specific growth changes of spruce, fir, and beech in European mixed mountain forests during the last three centuries. Canadian Journal of Forest Research, 2020, 50, 689-703. | 1.7 | 35 |
| 120 | Impact of Climate Trends and Drought Events on the Growth of Oaks (Quercus robur L. and Quercus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 2.1 | 34 |
| 121 | Assessing transformation scenarios from pure Norway spruce to mixed uneven-aged forests in mountain areas. European Journal of Forest Research, 2020, 139, 567-584. | 2.5 | 34 |
| 122 | Growth Trends of Forests in Southern Germany. , 1996, , 107-131. | | 34 |
| 123 | Waldwachstum im Wandel. European Journal of Forest Research, 1999, 118, 228-250. | 0.3 | 33 |
| 124 | A Unified Law of Spatial Allometry for Woody and Herbaceous Plants. Plant Biology, 2002, 4, 159-166. | 3.8 | 33 |
| 125 | Combating the effects of climatic change on forests by mitigation strategies. Carbon Balance and Management, 2010, 5, 8. | 3.2 | 33 |
| 126 | Transgressive overyielding in mixed compared with monospecific Scots pine (Pinus sylvestris L.) and oak (Quercus robur L., Quercus petraea (Matt.) Liebl.) stands â€“ Productivity gains increase with annual water supply. Forest Ecology and Management, 2019, 439, 81-96. | 3.2 | 33 |

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|---|---|---|---|
| 127 | The PROFOUND Database for evaluating vegetation models and simulating climate impacts on European forests. Earth System Science Data, 2020, 12, 1295-1320. | 9.9 | 33 |
| 128 | Tree diameter growth after root trenching in a mature mixed stand of Norway spruce (Picea abies [L.]) Tj ETQq0 0 0 rgBT /Overlock 10 T | 1.9 | 32 |
| 129 | Tree species and size drive water consumption of beech/spruce forests - a simulation study highlighting growth under water limitation. Plant and Soil, 2017, 418, 337-356. | 3.7 | 32 |
| 130 | Modeling Tree Growth Taking into Account Carbon Source and Sink Limitations. Frontiers in Plant Science, 2017, 8, 182. | 3.6 | 32 |
| 131 | Importance of tree species size dominance and heterogeneity on the productivity of spruce-fir-beech mountain forest stands in Europe. Forest Ecology and Management, 2020, 457, 117716. | 3.2 | 31 |
| 132 | Drought Stress Reaction of Growth and Î”13C in Tree Rings of European Beech and Norway Spruce in Monospecific Versus Mixed Stands Along a Precipitation Gradient. Forests, 2017, 8, 177. | 2.1 | 30 |
| 133 | Half a century of Scots pine forest ecosystem monitoring reveals longâ€term effects of atmospheric deposition and climate change. Global Change Biology, 2020, 26, 5796-5815. | 9.5 | 30 |
| 134 | How drought stress becomes visible upon detecting tree shape using terrestrial laser scanning (TLS). Forest Ecology and Management, 2021, 489, 118975. | 3.2 | 30 |
| 135 | Size-structure dynamics of mixed versus pure forest stands. Forest Systems, 2014, 23, 560. | 0.3 | 30 |
| 136 | Effects of environmental changes on the vitality of forest stands. European Journal of Forest Research, 2005, 124, 349-362. | 2.5 | 29 |
| 137 | Species proportions by area in mixtures of Scots pine (Pinus sylvestris L.) and European beech (Fagus) Tj ETQq1 1 0.784314 rgBT /Ov | 2.5 | 29 |
| 138 | Static site indices from different national forest inventories: harmonization and prediction from site conditions. Annals of Forest Science, 2018, 75, 1. | 2.0 | 29 |
| 139 | Re-Evaluation of Allometry: State-of-the-Art and Perspective Regarding Individuals and Stands of Woody Plants. Progress in Botany Fortschritte Der Botanik, 2010, , 339-369. | 0.3 | 29 |
| 140 | Modelling approaches for mixed forests dynamics prognosis. Research gaps and opportunities. Forest Systems, 2019, 28, eR002. | 0.3 | 29 |
| 141 | Applying a common allometric equation to convert forest height from Pol-InSAR data to forest biomass. , 0, , . | | 28 |
| 142 | Key drivers of competition and growth partitioning among Robinia pseudoacacia L. trees. Forest Ecology and Management, 2018, 430, 86-93. | 3.2 | 28 |
| 143 | Multifunctionality of Forests: A White Paper on Challenges and Opportunities in China and Germany. Forests, 2020, 11, 266. | 2.1 | 28 |
| 144 | Effects of Stress and Defence Allocation on Tree Growth: Simulation Results at the Individual and Stand Level. Ecological Studies, 2012, , 401-432. | 1.2 | 28 |

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|---|---|---|---|
| 145 | Modelling the impact of climate change on the productivity and water-use efficiency of a central European beech forest. Climate Research, 2013, 58, 81-95. | 1.1 | 28 |
| 146 | Evaluation of the forest growth simulator SILVA on dominant trees in mature mixed Silver firâ€“Norway spruce stands in South-West Germany. Ecological Modelling, 2009, 220, 1670-1680. | 2.5 | 27 |
| 147 | EuMIXFOR empirical forest mensuration and ring width data from pure and mixed stands of Scots pine (Pinus sylvestris L.) and European beech (Fagus sylvatica L.) through Europe. Annals of Forest Science, 2017, 74, 1. | 2.0 | 27 |
| 148 | Robinia pseudoacacia L. Flower Analyzed by Using An Unmanned Aerial Vehicle (UAV). Remote Sensing, 2017, 9, 1091. | 4.0 | 27 |
| 149 | Implications of Reduced Stand Density on Tree Growth and Drought Susceptibility: A Study of Three Species under Varying Climate. Forests, 2020, 11, 627. | 2.1 | 27 |
| 150 | Change of allometry between coarse root and shoot of Lodgepole pine (Pinus contortaDOUGL.) Tj ETQq0 0 0 rgBT /Overlock 10 T<br>Journal of Forest Research, 2012, 27, 532-544. | 1.4 | 26 |
| 151 | The elasticity of growth in pure and mixed stands of Norway spruce (Picea abies [L.] Karst.) and common beech (Fagus sylvatica L.). Journal of Forest Science, 2003, 49, 491-501. | 1.1 | 26 |
| 152 | A non-stochastic portfolio model for optimizing the transformation of an even-aged forest stand to continuous cover forestry when information about return fluctuation is incomplete. Annals of Forest Science, 2017, 74, 1. | 2.0 | 26 |
| 153 | Productivity and carbon dynamics in managed Central European forests depending on site conditions and thinning regimes. Forestry, 2010, 83, 483-496. | 2.3 | 25 |
| 154 | Silvicultural Options for Mixed-Species Stands. , 2017, , 433-501. | | 25 |
| 155 | The increase of atmospheric CO2 affects growth potential and intrinsic water-use efficiency of Norway spruce forests: insights from a multi-stable isotope analysis in tree rings of two Alpine chronosequences. Trees - Structure and Function, 2017, 31, 503-515. | 1.9 | 25 |
| 156 | Growth and Tree Water Deficit of Mixed Norway Spruce and European Beech at Different Heights in a Tree and under Heavy Drought. Forests, 2019, 10, 577. | 2.1 | 25 |
| 157 | Linking stand-level self-thinning allometry to the tree-level leaf biomass allometry. Trees - Structure and Function, 2008, 22, 611-622. | 1.9 | 24 |
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