# Pekka Juhani Kaitaniemi

List of Publications by Year
in descending order



| 51 | 1,734 | 270111 25 | 312153 41 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 52 | 52 | 52 | 1580 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Integrating terrestrial laser scanning with functionalâ€“structural plant models to investigate ecological and evolutionary processes of forest communities. Annals of Botany, 2021, 128, 663-684. | 1.4 | 9 |
| 2 | Exploring the Potential to Improve the Estimation of Boreal Tree Structural Attributes with Simple Height- and Distance-Based Competition Index. Forests, 2021, 12, 324. | 0.9 | 2 |
| 3 | Terrestrial laser scanning: a new standard of forest measuring and modelling?. Annals of Botany, 2021, 128, 653-662. | 1.4 | 17 |
| 4 | Power-law estimation of branch growth. Ecological Modelling, 2020, 416, 108900. | 1.2 | 13 |
| 5 | Computational analysis of the effects of light gradients and neighbouring species on foliar nitrogen. Ecological Informatics, 2018, 48, 171-177. | 2.3 | 3 |
| 6 | A study of crown development mechanisms using a shoot-based tree model and segmented terrestrial laser scanning data. Annals of Botany, 2018, 122, 423-434. | 1.4 | 5 |
| 7 | Analysing species-specific light transmission and related crown characteristics of Pinus sylvestris and Betula pendula using a shoot-level 3D model. Canadian Journal of Forest Research, 2013, 43, 929-938. | 0.8 | 9 |
| 8 | Multi-objective optimization shapes ecological variation. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 820-825. | 1.2 | 1 |
| 9 | Models of 3D crown structure for Scots pine (Pinus sylvestris) and silver birch (Betula) Tj ETQq1 1 0.784314 rgBT /Overlock 1 | 0.8 | 25 |
| 10 | Neighbor identity and competition influence tree growth in Scots pine, Siberian larch, and silver birch. Annals of Forest Science, 2010, 67, 604-604. | 0.8 | 28 |
| 11 | Responses of crown architecture in Betula pendula to competition are dependent on the species of neighbouring trees. Trees - Structure and Function, 2010, 24, 411-424. | 0.9 | 43 |
| 12 | Folivorous larvae on flowers: do autumnal moths benefit from catkins of the mountain birch?. Entomologia Experimentalis Et Applicata, 2010, 134, 60-68. | 0.7 | 6 |
| 13 | Precision of allometric scaling equations for trees can be improved by including the effect of ecological interactions. Trees - Structure and Function, 2008, 22, 579-584. | 0.9 | 18 |
| 14 | Toward extension of a single tree functional - structural model of Scots pine to stand level: effect of the canopy of randomly distributed, identical trees on development of tree structure. Functional Plant Biology, 2008, 35, 964. | 1.1 | 37 |
| 15 | How to Derive Biological Information from the Value of the Normalization Constant in Allometric Equations. PLoS ONE, 2008, 3, e1932. | 1.1 | 13 |
| 16 | Consequences of Variation in Tree Architecture and Leaf Traits on Light Capture and Photosynthetic Nitrogen Use Efficiency in Mountain Birch. Arctic, Antarctic, and Alpine Research, 2007, 39, 258-267. | 0.4 | 7 |
| 17 | Experimental evidence for associational resistance against the European pine sawfly in mixed tree stands. Silva Fennica, 2007, 41, . | 0.5 | 39 |
| 18 | Kokeellista nÃyttÃ¶Ã assosiatiivisen resistenssin vaikutuksesta ruskomÃntypistiÃiseen. Metstieteen Aikakauskirja, 2007, 2007, . | 0.0 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Host tree architecture mediates the effect of predators on herbivore survival. Ecological Entomology, 2006, 31, 227-235. | 1.1 | 37 |
| 20 | Uncaged larvae elicit a combination of local and integrated growth responses within mountain birch crown. Oikos, 2006, 115, 537-548. | 1.2 | 6 |
| 21 | Diversification of tree stands as a means to manage pests and diseases in boreal forests: myth or reality?. Canadian Journal of Forest Research, 2006, 36, 324-336. | 0.8 | 107 |
| 22 | Long Shoots in the Crowns of Maturing Silver Birch. , 2006, , . | | 1 |
| 23 | Functionalâ€“structural plant modelling using a combination of architectural analysis, L-systems and a canonical model of function. Ecological Modelling, 2005, 184, 277-298. | 1.2 | 30 |
| 24 | Testing the enemies hypothesis in forest stands: the important role of tree species composition. Oecologia, 2005, 142, 90-97. | 0.9 | 76 |
| 25 | Testing the allometric scaling laws. Journal of Theoretical Biology, 2004, 228, 149-153. | 0.8 | 49 |
| 26 | Movement and disappearance of mountain birch defoliators are influenced by the interactive effects of plant architecture and induced resistance. Ecological Entomology, 2004, 29, 437-446. | 1.1 | 26 |
| 27 | Spatial responses of two herbivore groups to a geometrid larva on mountain birch. Oecologia, 2003, 134, 203-209. | 0.9 | 10 |
| 28 | Performance of the cyclic autumnal moth, Epirrita autumnata, in relation to birch mast seeding. Oecologia, 2003, 135, 354-361. | 0.9 | 24 |
| 29 | Influence of adult and egg predation on reproductive success of Epirrita autumnata (Lepidoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock | 1.2 | 22 |
| 30 | Crowding-induced responses in a geometrid moth revisited: a field experiment. Oikos, 2003, 103, 489-496. | 1.2 | 16 |
| 31 | Factors controlling resource allocation in mountain birch. Perspectives in Plant Ecology, Evolution and Systematics, 2003, 5, 231-249. | 1.1 | 13 |
| 32 | Performance of a spring-feeding moth in relation to time of oviposition and bud-burst phenology of different host species. Ecological Entomology, 2003, 28, 319-327. | 1.1 | 14 |
| 33 | The inside story. , 2003, , . | | 5 |
| 34 | Sources of variability in plant resistance against insects: free caterpillars show strongest effects. Oikos, 2001, 95, 461-470. | 1.2 | 32 |
| 35 | Allocation of resources within mountain birch canopy after simulated winter browsing. Oikos, 2000, 90, 160-170. | 1.2 | 39 |
| 36 | Virtual sorghum: visualisation of partitioning and morphogenesis. Computers and Electronics in Agriculture, 2000, 28, 195-205. | 3.7 | 25 |

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|---|---|---|---|
| 37 | Causes of cyclicity of Epirrita autumnata (Lepidoptera, Geometridae): grandiose theory and tedious practice. Population Ecology, 2000, 42, 211-223. | 0.7 | 159 |
| 38 | A canonical model of tree resource allocation after defoliation and bud consumption. Ecological Modelling, 2000, 129, 259-272. | 1.2 | 12 |
| 39 | Different impact of pupal predation on populations of Epirrita autumnata (Lepidoptera; Geometridae) within and outside the outbreak range. Journal of Animal Ecology, 1999, 68, 562-570. | 1.3 | 58 |
| 40 | Architecture and morphogenesis of grain sorghum, Sorghum bicolor (L.) Moench. Field Crops Research, 1999, 61, 51-60. | 2.3 | 37 |
| 41 | Induced resistance of host tree foliage during and after a natural insect outbreak. Journal of Animal Ecology, 1999, 68, 382-389. | 1.3 | 44 |
| 42 | Effects of Autumn Temperature and Oviposition Date on Timing of Larval Development and Risk of Parasitism in a Spring Folivore. Oikos, 1999, 84, 435. | 1.2 | 38 |
| 43 | EFFECTS OF CUMULATIVE DEFOLIATIONS ON GROWTH, REPRODUCTION, AND INSECT RESISTANCE IN MOUNTAIN BIRCH. Ecology, 1999, 80, 524-532. | 1.5 | 82 |
| 44 | Delayed induced changes in the biochemical composition of host plant leaves during an insect outbreak. Oecologia, 1998, 116, 182-190. | 0.9 | 101 |
| 45 | Old Mountain Birches at High Altitudes are Prone to Outbreaks of Epirrita autumnata (Lepidoptera:) Tj ETQq1 1 0.784314 rgBT /Overlo | 0.7 | 51 |
| 46 | Consumption of Apical Buds as a Mechanism of Alleviating Host Plant Resistance for Epirrita autumnata Larvae. Oikos, 1997, 78, 230. | 1.2 | 20 |
| 47 | Simulating source-sink control of carbon and nutrient translocation in a modular plant. Ecological Modelling, 1996, 88, 227-240. | 1.2 | 25 |
| 48 | Realized Fecundity in Epirrita autumnata (Lepidoptera: Geometridae): Relation to Body Size and Consequences to Population Dynamics. Oikos, 1996, 77, 407. | 1.2 | 148 |
| 49 | Density and Performance of Epirrita autumnata (Lepidoptera: Geometridae) Along Three Air Pollution Gradients in Northern Europe. Journal of Applied Ecology, 1996, 33, 773. | 1.9 | 45 |
| 50 | Systematic withinâ€tree variation in mountain birch leaf quality for a geometrid, Epirrita autumnata. Ecological Entomology, 1995, 20, 283-292. | 1.1 | 28 |
| 51 | Oviposition Choices of Epirrita autumnata (Lepidoptera: Geometridae) in Relation to Its Eruptive Population Dynamics. Oikos, 1995, 74, 296. | 1.2 | 78 |