

Publication list of T. Koike in English

Original paper:

>2012

- (1) Mao QZ, Watanabe M, Makoto K, Kita K and Koike T (accept for publication) High nitrogen deposition may enhance growth of the new hybrid larch F1 growing at two phosphorus levels. *Landscape and Ecological Engineering*
- (2) Hoshika, Y., Watanabe, M., Inada, N., and Koike, T. (2012) Growth and leaf gas exchange in three birch species exposed to elevated ozone and CO₂ in summer. *Water, Air, and Soil Pollution* DOI: 10.1007/s11270-012-1253-y (in press)
- (3) Mao, QZ, Watanabe, M., Imori, M., Kim, Y.S. Kita, K. and Koike, T. (2012) Photosynthesis and nitrogen allocation in needles in the sun and shade crowns of hybrid larch. *Photosynthetica* 50: 422-428.
- (4) Novriyanti, E., Watanabe M., Kitao, M., Utsugi, H., Uemura, A., and Koike, T. (2012) High nitrogen and elevated [CO₂] effects on the growth, defense and photosynthetic performance of two eucalypt species. *Environmental Pollution* 170: 124-130
- (5) Novriyanti, E., Watanabe, M., Makoto, K., Takeda, T., Hashidoko, Y. And Koike, T. (2012) Photosynthetic nitrogen and water use efficiency of acacia and eucalypt seedlings as afforestation species. *Photosynthetica* 50: 273-281.
- (6) Komatsu, M., Tobita, H., Watanabe, M., Yazaki, K., Koike, T., and Kitao, M. (2012) Photosynthetic down-regulation in leaves of the Japanese white birch grown under elevated CO₂ concentration does not change their temperature-dependent susceptibility to photoinhibition. *Physiologia Plantarum* doi:10.1111/j.1399-3054.2012.01651.x
- (7) Kawaguchi, K., Watanabe, M., Hoshika, Y. and Koike, T. (2012) Ecophysiological responses of Northern Birch Forests to changing atmospheric environment, *Asian Journal of Atmospheric Environment* (in press)
- (8) Kitao, M., Kitaoka, S., Komatsu, M., Utsugi, H., Tobita, H., Koike, T. and Maruyama, Y. (2012) Leaves of Japanese oak (*Quercus mongolica* var. *crispula*) mitigate photoinhibition by adjusting electron transport capacities and thermal energy dissipation along the intra-canopy light gradient, *Physiologia Plantarum* (on line first)
- (9) Kitao, M., Kitaoka, S., Utsugi, H., Tobita, H., Koike, T. and Maruyama, Y. (2012) Photosynthetic traits around budbreak in pre-existing needles of Sakhalin spruce *Picea glehnii* seedlings grown under elevated CO₂ concentration assessed by chlorophyll fluorescence measurements. *Tree Physiology* 32: (accepted)
- (10) Koike, T., Mao, QZ., Inada, N., Kawaguchi, K., Hoshika, Y., Kita, K. and Watanabe, M. (2012) Growth and photosynthetic responses of cuttings of a hybrid larch (*Larix gmelinii* var. *japonica* x *L. kaempferi*) to elevated ozone and/or carbon dioxide. *Asian Journal of Atmospheric Environment* 6:104-110.
- (11) Watanabe, M., Ryu, K., Kita, K., Takagi, K. and Koike, T. (2012) Effects of nitrogen load on the growth and photosynthesis of hybrid larch F₁ (*Larix gmelinii* var. *japonica* x *L. kaempferi*) seedlings grown on serpentine soil. *Environmental and Experimental Botany* (accept)
- (12) Watanabe, M., Watanabe, Y., Kim Y.S. and Koike, T. (2012) Dark aerobic

methane emission associated to leaf factors of two *Acacia* and five *Eucalyptus* species. *Atmospheric Environment* **54**, 277–281.

- (13) Koike, T.² (2012) Forest history of Japan with changing environment. *Studia i Materialy Osrodka Kultury Lesnej* **11**: 109-130.
 - (14) Hoshika, Y., Watanabe, M., Inada, N. And Koike, T. (2012) Ozone-induced stomatal sluggishness develops progressively in Siebold beech (*Fagus crenata*). *Environmental Pollution* **166**: 152-156. DOI:10.1016/j.envpol.2012.03.013
 - (15) Hoshika, Y., Watanabe, M., Inada, N. And Koike, T. (2012) Modeling of stomatal conductance for estimating ozone uptake of *Fagus crenata* under experimentally enhanced free-air ozone exposure. *Water, Air and Soil Pollution* DOI 10.1007/s11270-012-1158-9
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 - (19) Makoto, K., Kamata, N., Kamibayashi, N., Koike, T., Tani, H. (2012) Bark-beetle-attacked trees produced more charcoal than unattacked trees during a forest fire on the Kenai Peninsula, Southern Alaska. *Scandinavian Journal of Forest Research*. **27**: 30-35.
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 - (24) Kim, Y.S., Watanabe, M., Imori, M., Sasa, K., Takagi, K., Hatano, R. and Koike, T. (2011) Reduced atmospheric CH₄ consumption by two forest soils under elevated CO₂ concentration in a FACE system in northern Japan. *Japanese Journal of Atmospheric Environment* **46**:30–36.
 - (25) Hirano, A. Hongo I. and Koike, T. (2011) Morphological and physiological

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- (31) Aoyama, C., Novriyanti, E. and Koike, T. (2010) Induced defense of leaves of Japanese white birch seedlings grazed by Gypsy moth larvae. *Eurasian Journal of Forest Research* 13: 49-55.
- (32) Novriyanti, E., Aoyama, C., Watanabe, M. and Koike, T. (2010) Plants defense characteristics and hypothesis on the Birch species. *Eurasian Journal of Forest Research* 13: 77-85.
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