

Publication list of T. Koike in English

Original paper:

>2012

- (1) Watanabe, M., Hoshika, Y., Inada, N., Wang XN, Mao, QZ. and Koike, T. (in press) Photosynthetic traits of Siebold's beech and oak saplings grown under free air ozone exposure in northern Japan. *Environmental Pollution*.
- (2) Mao QZ, Watanabe M, Makoto K, Kita K and Koike T (in press) High nitrogen deposition may enhance growth of the new hybrid larch F₁ growing at two phosphorus levels. *Landscape and Ecological Engineering*
- (3) Hoshika, Y., Tatsuta, S., Watanabe, M., Wang XN, Watanabe, Y., Saito, H., and Koike, T. (2012) Effect of ambient ozone at the somma of Lake Mashu on growth and leaf gas exchange in *Betula ermanii* and *B. platyphylla* var. *japonica*. *Environmental and Experimental Botany* doi:10.1016/j.envexpbot. 2012.11.003
- (4) 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)
- (5) Kim, YS, Yi, MJ, Lee YY, Son YH and Koike T. (2012) Characteristics of soil CO₂ efflux in even-aged alder compared to Korean pine plantation in central Korea. *Journal of Forest Science* 28: 232-241.
- (6) 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.
- (7) 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
- (8) 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.
- (9) 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
- (10) 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* 6:196-205
- (11) 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)
- (12) 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

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- (13) 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.
- (14) 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* 83, 73-81.
- (15) 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.
- (16) Koike, T.² (2012) Forest history of Japan with changing environment. *Studia i Materialy Osrodka Kultury Lesnej* 11: 109-130.
- (17) 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
- (18) 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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- (31) Kayama, M., Satoh, F. and Koike, T. (2011) Photosynthetic rate, needle longevity, and nutrient contents in *Picea glehnii* growing on strongly acidic volcanic ash soil in northern Japan. *Photosynthetica* 49: 239-245
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