

Publication list of T. Koike in English

Original paper:

>2011

- (1) Watanabe, M., Watanabe, Y., Kitaoka, S., Utsugi, H., Kita, K. and Koike, T. (accepted) Growth and photosynthetic traits of hybrid larch F₁ under elevated CO₂ concentration under low nutrient availability.
- (2) Kim YS, Makoto, K., Takakai, F., Shibata, H., Satomura, T., Takagi K, Hatano R, Koike T (2011) Greenhouse gas emissions after a prescribed fire in white birch-dwarf bamboo stands in northern Japan, focusing on the role of charcoal. European Journal of Forest Research DOI: 10.1007/s10342-011-0490-8
- (3) 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.
- (4) Hirano, A. Hongo I. and Koike, T. (2011) Morphological and physiological response of Siebold's beech (*Fagus crenata*) seedlings grown under CO₂ concentration ranging from pre-industrial to expected future levels. Landscape and Ecological Engineering 7:DOI: 10.1007/s11355-011-0149-0
- (5) Karaki, T., Watanabe, Y., Kondo, T. and Koike, T. (2011) Strophiole of seeds of the black locust acts as a water gap. Plant Species Biology (accepted)
- (6) Koike, T., Shimizu, Y. and Ito, S. (2011) Development and application of Forest Aesthetics in Japan in relation to the ideas of H. von Salisch. Archiv für Forstwesen und Landschaftsökologie 45:
- (7) 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. (accepted)

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- (10) 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.
- (11) 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.
- (12) Makoto, K., Tamai, Y., Kim, Y.S. and Koike, T. (2010) Buried charcoal layer and ectomycorrhizae cooperatively promote the growth of *Larix gmelinii* seedlings. Plant and Soil: 327: 143-152
- (13) Mori, A., Yamaji, K., Ishida, A., Prokushikin S.G., Masyagina O., Hagihara, A., Rafiqul Hoque, A.T.M., Suwa, R., Osawa, A., Nishizono, T., Ueda, T., Kinjo, M., Miyagi, T., Kajimoto, T., Koike, T., Matsuura, Y., Toma, T., Zyryanova, O.A.,

- Abaimov, A.P., Awaya, Y., Araki, M.G., Kawakasaki, T., Chiba, Y., and Umari M. (2010) Mixed-power scaling of whole-plant respiration from seedlings to giant trees. *Proceedings of the National Academy of Sciences* 107: 1447-1451
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- (18) Suetsugu, N., Satoh, F. and Koike, T. (2010) An atlas of Collembola species in the Sapporo Experimental Forest of Hokkaido University in Northern Japan. *Eurasian Journal of Forest Research* 13: 57-67.
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- (19) Koike, T. (2009) A trial of revegetation practices with larch species under changing environment. *Landscape and Ecological Engineering* 5: 97 - 98
- (20) Zu, Y., Wang, W., Wang, H., Liu W, Cui S. and Koike, T (2009) Soil CO₂ efflux, carbon dynamics, and change in thermal conditions from contrasting clear-cut sites during natural restoration and uncut larch forests in northeast China. *Climate* 96:137–159, DOI 10/1007/s-10584 -009-9601-7.
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- (25) Kayama, M., Makoto, K., Nomura, M., Sasa, K. and Koike, T. (2009) Growth characteristics of Sakhalin spruce (*Picea glehnii*) planted on the northern Japanese hillsides exposed to strong winds. *Trees - Structure and Function* 23: 145-157
- (26) Takagi,K., Fukuzawa,K., Liang,N., Kayama,M., Nomura,M., Hojyo,H., Sugata,S., Shibata,H., Fukazawa,T., Takahashi,Y., Nakaji,T., Oguma,H., Mano,M., Akibayashi,Y., Murayama,T., Koike,T., Sasa,K. and Fujinuma,Y. (2009) Change in the CO₂ balance under a series of forestry activities in a cool-temperate mixed 2

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- (32) Ishii, H., Kitaoka, S., Fujisaki, T., Maruyama, Y. and Koike, T. (2007) Plasticity of shoot and needle morphology and photosynthesis of two *Picea* species with different site preferences in northern Japan. *Tree Physiology* 27: 1595-1605.
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