

Publication list of T. Koike in English

Original paper:

>2018

- (1) Shi, C., Nakamura, M., Koike, T. and Li, RL. (submitted) Leaf defense characteristics of deciduous tree species seedlings in different soils exposed to a free-air O₃ enrichment system.
- (2) Kitao, M., Tobita, H., Kitaoka, S., Harayama, H., Yazaki, K., Komatsu, M., Agathokleous, E. and Koike, T. (submitted) Plants rigidly regulate excessive energy under various environmental stresses,
- (3) Hoshika, Y., Watanabe, M., Carrari, E., Paoletti, E. and Koike, T. (2017) Ozone-induced stomatal sluggishness changes stomatal parameters of Jarvis-type model in white birch and deciduous oak. *Plant Biology*, 20:20-28. doi: 10.1111/plb.12632.
- (4) Agathokleous, E., Paoletti, E., Manning, M.J., Kitao, M., Saitanis, C.J. and Koike, T. (2018) High doses of ethylenediurea (EDU) as soil drenches did not increase leaf N content or cause phytotoxicity in willow grown in fertile soil. *Ecotoxicology and Environmental Safety*. 147: 574-584. DOI: 10.1016/j.ecoenv.2017.09.017
- (5) Wang, X., Agathokleous, E., Qu, L., Fujita, S., Watanabe, M., Tamai, Y., Mao, Q., Koyama, A., Koike, T. (2018). Effects of simulated nitrogen deposition on ectomycorrhizae community structure in hybrid larch and its parents grown in volcanic ash soil: the role of phosphorous. *Science of the Total Environment*. doi.org/10.1016/j.scitotenv.2017.08.283
- (6) Pretzsch, H., Biber, P., Uhl, E., Dahlhausen, J., Schütze, G., Perkins, D., Rötzer, T., Caldentey, J., Koike, T., van Con, T., Chavanne, A., du Toit, B., Foster, K. and Lefer, B. (2017) Climate change accelerates growth of urban trees in metropolises worldwide. *Scientific Reports* 7, Article number: 15403 (2017) doi:10.1038/s41598-017-14831-w
- (7) Qu, LY, Kitaoka, S and Koike, T (2018) Factors controlling soil microbial respiration during the growing season in a mature larch plantation in Northern Japan. *Journal of Soils and Sediments*, DOI: 10.1007/s11368-017-1799-9.
- (8) Sugai, T., Kam, D-G., Agathokleous, E., Watanabe, M., Kita, K. and Koike, T. (2018) Growth and photosynthetic response of two larches exposed to O₃ mixing ratios ranging from pre-industrial to near future. *Photosynthetica* 56: DOI: 10.1007/s11099-017-0747-7.

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- (9) Fujita, S., Wang, XN., Kita, K. and Koike, T. (2017) Effects of nitrogen loading under low and high phosphorus conditions on above and belowground growth of hybrid larch F₁ seedlings. *iForests- Biogeosciences and Forestry*
- (10) Choi, D-S., Watanabe, Y., Guy, R.D, Sugai, T., Toda, H., and Koike, T.(2017) Photosynthetic characteristics and nitrogen allocation in the black locust (*Robinia pseudoacacia* L.) grown in a FACE. *Acta Physiologiae Plantarum*, 39, 71. <http://link.springer.com/article/10.1007/s11738-017-2366-0>
- (11) Agathokleous, E., Sakikawa, T., Abu ElEla, S.A., Mochizuki, T., Nakamura, M., Watanabe, M., Kawamura, K., and Koike, T. (2017) Ozone alters the feeding behavior of the leaf beetle *Agelastica coerulea* (Coleoptera: Chrysomelidae) into

leaves of Japanese white birch (*Betula platyphylla* var. *japonica*). Environmental Science and Pollution Research, DOI 10.1007/s11356-017-9369-7.

- (12) Agathokleous, E., Vanderstock, A., Kita, K., and Koike, T. (2017) Stem and crown growth of Japanese larch and its hybrid F₁ grown in two soils and exposed to two free-air O₃ regimes. Environmental Science and Pollution Research. 24(7) 6634–6647; DOI 10.1007/s11356-017-8401-2
 - (13) Mochizuki T, Watanabe M, Koike T, and Tani A (2017) Monoterpene emissions from needles of hybrid larch F₁ (*Larix gmelinii* var. *japonica* × *Larix kaempferi*) grown under elevated carbon dioxide and ozone. Atmospheric Environment 148: 197-202. <http://dx.doi.org/10.1016/j.atmosenv.2016.10.041>.
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 - (2) Agathokleous, E., Paoletti, E., Saitanis, C.J., Manning, W.J., Sugai, T. and Koike, T. (2016). Impacts of ethylene diurea (EDU) soil drench and foliar spray in *Salix sachalinensis* protection against O₃-induced injury. Science of the Total Environment 573:1053-1062.
 - (3) Shi, C., Eguchi, N., Meng, F, Watanabe, T., Satoh, F. and Koike. T. (2016) Retranslocation of foliar nutrients of deciduous tree seedlings in different soil condition under free-air O₃ fumigation, iForest - Biogeosciences and Forestry (doi: 10.3832/ifer1889-009) on line journal
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 - (5) Agathokleous, E., Watanabe, M., Eguchi, N., Nakaji, T., Satoh, F., and Koike, T. (2016). Root production of *Fagus crenata* Blume saplings grown in two soils and exposed to elevated CO₂ concentration: an 11-year free-air-CO₂ enrichment (FACE) experiment in northern Japan. Water, Air, & Soil Pollution, 227: 187.DOI: 10.1007/s11270-016-2884-1
 - (6) Sakikawa, T., Shi, C., Nakamura, M., Watanabe, M., Oikawa, M., Satoh, F. and Koike, T. (2106) Leaf phenology and insect grazing of Japanese white birch saplings grown under free-air ozone exposure. Journal of Agricultural Meteorology 72: 80-84.
 - (7) Shi, C., Kitao, M., Agathokleous, E., Watanabe, M., Tobita, H., Yazaki, K., Kitaoka, S. and Koike, T. (2016) Foliar chemical composition of two oak species grown in a free-air enrichment system with elevated O₃ and CO₂. Journal of Agricultural Meteorology 72: 50-58
 - (8) Wang, XN, Agathokleous, E., Qu, L.Y., Watanabe, M., and Koike, T. (2016) Effects of CO₂ and/or O₃ on the interaction between root of woody plants and ectomycorrhizae. Journal of Agriculture Meteorology 72: 95-105.
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- (11) Agathokleous, E., Saitanis, C.J., Wang X.N., Watanabe M. and Koike, T. (2016) A review study on past 40 years of research on effects of tropospheric O₃ on belowground structure, functioning and processes of trees: a linkage with potential ecological implications. Water, Air, & Soil Pollution 227:33-DOI: 10.1007/s11270-015-2715-9
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- (14) Agathokleous E, Watanabe M, Nakaji T, Wang XN, Satoh F, and Koike T. (2016) Impact of elevated CO₂ on root traits of a sapling community of three birches and an oak: A free-air-CO₂ enrichment (FACE) in northern Japan. Trees 30: 353-362, DOI: 10.1007/s00468-015-1272-6
- (13) Watanabe M, Kitaoka S, Eguchi N, Watanabe Y, Satomura T, Takagi K, Satoh F and Koike T (2016) Photosynthetic traits of Siebold's beech seedlings in changing light conditions by removal of shading trees under elevated CO₂. Plant Biology, doi:10.1111/plb.12382
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