SO_2 - NUTRIENT OR TOXIN FOR CHINESE CABBAGE

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te Chongqing, China

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Contents

The following papers cover part of this thesis:

De Kok, L.J., Castro, A., Durenkamp, M., Stuiver, C.E.E., Westerman, S., Yang, L. and Stulen, I. 2002. Sulphur in plant physiology. Proceedings No. 500, International Fertiliser Society, York, U.K., pp. 1-26 (Chapter 1)

De Kok, L.J., Castro, A., Durenkamp, M., Koralewska, A., Posthumus, F.S., Stuiver, C.E.E., Yang, L. and Stulen, I. 2005. Pathways of plant sulfur uptake and metabolism - an overview. Landbauforschung Völkenrode, Germany, Special Issue 283: 5-13 (Chapter 1)

Yang, L., Stulen, I., De Kok, L.J. and Zheng, Y. 2002. SO_2, NO_x and acid deposition problems in China - Impact on agriculture. Phyton 42(3): 255-264 (Chapter 2)

Yang, L., Stulen, I. and De Kok, L.J., 2003. Interaction between atmospheric sulfur dioxide deposition and pedospheric sulfate nutrition in Chinese cabbage. In: Davidian, J.-C., Grill, D., De Kok, L.J., Stulen, I., Hawkesford, M.J., Schnug, E., Rennenberg, H. (eds.), Sulfur Transport and Assimilation in Plants: Regulation, Interaction and Signaling, Backhuys Publishers, Leiden, pp. 363-365 (Chapter 3)

Yang L., Stulen I. and De Kok L.J. 2004. Response of two cultivars of Chinese cabbage to elevated atmospheric SO_2. Comparative Biochemistry and Physiology. Part A 137: S243 (Chapter 4)

Yang, L., Stulen, I. and De Kok, L.J. 2005. Sulfur dioxide: relevance of toxic and nutritional effects for Chinese cabbage. Environmental and Experimental Botany, (in press) (Chapter 4)

Yang, L., Stulen, I., De Kok and L.J. 2005. Impact of sulfate nutrition on the utilization of atmospheric SO_2 as sulfur source for Chinese cabbage. Journal of Plant Nutrition and Soil Science, (submited) (Chapter 5)

Yang, L., Stulen, I. and De Kok, L.J. 2005. Sulfur status of Chinese soils and response of Chinese cabbage to sulfur fertilization in the Beijing area. Landbauforschung Völkenrode, Special Issue 283: 163-170 (Chapter 6)

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