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Masahiro Sakata has been a Professor of the Department of Environmental and Life Sciences, School of Food and Nutritional Sciences, University of Shizuoka since April 2005. He currently serves as the dean of the School of Food and Nutritional Sciences. He received his BS degree (1976) in chemistry from Shizuoka University and his MS (1978) and PhD (1985) degrees in geochemistry from Nagoya University. He worked at the Central Research Institute of Electric Power Industry (CRIEPI) from April 1979 to March 2005, and engaged in research on environmental chemistry related to electric utility, e.g., monitoring and risk assessment of hazardous pollutants from coal-fired power stations. His papers have been published in several professional journals, including *Environmental Science & Technology* and *Atmospheric Environment*. His current activities include the evaluation of the long-range transport of toxic trace elements from the Asian continent to Japan and their wet and dry depositions, and the distribution of mercury and other trace elements in food web from Suruga Bay, Japan.

List of major publications (since 2000)

1. **Sakata, M.**, Phan, H. G., Mitsunobu, S. (2017) Variations in atmospheric concentrations and isotopic compositions of gaseous and particulate boron in Shizuoka City, Japan. *Atmospheric Environment* 148, 376–381.
2. **Sakata, M.**, Miwa, A., Mitsunobu, S., Senga, Y. (2015) Relationships between trace element concentrations and the stable nitrogen isotope ratio in biota from Suruga Bay, Japan. *Journal of Oceanography* 71, 141–149.
3. **Sakata, M.**, Ishikawa, T., Mitsunobu, S. (2013) Effectiveness of sulfur and boron isotopes in aerosols as tracers of emissions from coal burning in Asian continent. *Atmospheric Environment* 67, 296–303.
4. **Sakata, M.**, Yamada, M., Mitsunobu, S., Senga, Y. (2012) Contribution of abiogenic and biogenic particles to trace-metal composition of phytoplankton assemblages in seawater of Shimizu Port, Japan. *Journal of Oceanography* 68, 807–813.
5. Kusunoki, K., **Sakata, M.**, Tani, Y., Seike, Y., Ayukawa, K. (2012) Analysis of historical trend of carotenoid concentrations in sediment cores from Lake Shinji, Japan. *Geochemical Journal* 46, 225–233.
6. Kusunoki, K., **Sakata, M.**, Tani, Y., Seike, Y., Ayukawa, K. (2012) Evaluating the contribution of long-range transport of heavy metals from the Asian continent to their concentrations in sediment cores from Lake Shinji, Western Japan. *Water, Air, and Soil Pollution* 223, 1151–1160.
7. **Sakata, M.**, Asakura, K. (2011) Atmospheric dry deposition of trace elements at a site on Asian-continent side of Japan. *Atmospheric Environment* 45, 1075–1083.
8. **Sakata, M.**, Natsumi, M., Tani, Y. (2010) Isotopic evidence of boron in precipitation originating from coal burning in Asian continent. *Geochemical Journal* 44, 113–123.
9. **Sakata, M.**, Takagi, T., Mitsunobu, S. (2010) Evaluation of loads and sources of heavy metals in Tama River, Tokyo. *Water, Air, and Soil Pollution* 213, 363–373.
10. Mitsunobu, S., Takahashi, Y., **Sakata, M.** (2010) Antimony(V) incorporation into synthetic ferrihydrite, goethite, and natural iron oxyhydroxides. *Environmental Science and Technology* 44, 3712–3718.
11. **Sakata, M.**, Asakura, K. (2009) Factors contributing to seasonal variations in wet deposition fluxes of trace elements at sites along Japan Sea coast. *Atmospheric*

- Environment 43, 3867–3875.
12. **Sakata, M.**, Asakura, K. (2008) Evaluating relative contribution of atmospheric mercury species to mercury dry deposition in Japan. *Water, Air, and Soil Pollution* 193, 51–63.
 13. **Sakata, M.**, Tani, Y., Takagi, T. (2008) Wet and dry deposition fluxes of trace elements in Tokyo Bay. *Atmospheric Environment* 23, 5913–5922.
 14. **Sakata, M.**, Asakura, K. (2007) Estimating contribution of precipitation scavenging of atmospheric particulate mercury to mercury wet deposition in Japan. *Atmospheric Environment* 41, 1669–1680.
 15. **Sakata, M.**, Marumoto, K., Narukawa, M., Asakura, K. (2006) Mass balance and sources of mercury in Tokyo Bay. *Journal of Oceanography* 62, 767–775.
 16. Narukawa, M., **Sakata, M.**, Marumoto, K., Asakura, K. (2006) Air-sea exchange of mercury in Tokyo Bay. *Journal of Oceanography* 62, 249–257.
 17. **Sakata, M.**, Marumoto, K., Narukawa, M., Asakura, K. (2006) Regional variations in wet and dry deposition fluxes of trace elements in Japan. *Atmospheric Environment* 40, 521–531.
 18. **Sakata, M.**, Marumoto, K. (2005) Wet and dry deposition fluxes of mercury in Japan. *Atmospheric Environment* 39, 3139–3146.
 19. **Sakata, M.**, Marumoto, K. (2004) Dry Deposition Fluxes and Deposition Velocities of Trace Metals in the Tokyo Metropolitan Area Measured with a Water Surface Sampler. *Environmental Science and Technology* 38, 2190–2197.
 20. **Sakata, M.**, Marumoto, K. (2002) Formation of atmospheric particulate mercury in the Tokyo metropolitan area. *Atmospheric Environment* 36, 239–246.
 21. Tanaka, N., **Sakata, M.** (2002) Effect of photooxidation on $\delta^{13}\text{C}$ of benzo(a)pyrene and benzo(b)pyrene in the atmosphere. *Geochemical Journal* 36, 235–245.
 22. **Sakata, M.** (2001) A simple and rapid method for $\delta^{15}\text{N}$ determination of ammonium and nitrate in water samples. *Geochemical Journal* 35, 271–275.
 23. **Sakata, M.**, Suzuki, K., Koshiji, T. (2001) Variations of wood $\delta^{13}\text{C}$ for the past 50 years in declining Siebold's beech (*Fagus crenata*) forests. *Environmental and Experimental Botany* 45, 33–41.
 24. **Sakata, M.**, Kurata, M., Tanaka, N. (2000) Estimating contribution from municipal solid waste incineration to trace metal concentrations in Japanese urban atmosphere using lead as a marker element. *Geochemical Journal* 34, 23–32.
 25. **Sakata, M.**, Suzuki, K. (2000) Evaluating possible causes for the decline of Japanese Fir (*Abies firma*) forests based on $\delta^{13}\text{C}$ records of annual growth rings. *Environmental Science and Technology* 34, 373–376.