•Field Atmospheric and Oceanic Sciences, Climate Change
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Educational background

2006-2013, POSTECH (Ph.D)
1999-2006, Hanyang University (B.Sc)

Major careers

2024-present, Associate Professor, Hallym University
2015-2023, Senior/Principle Research Scientist, Korea Polar Research Institute
2020-2023, Associate Professor, University of Science and Technology

■ SCI(E) papers

Google Scholar: https://scholar.google.co.kr/citations?user=9xd_uokAAAAJ&hl=ko

52. Han, D.,*, Park, K-T., Kim, H., Kim, T.-H., Jeong, M.-K., Nam, S.-I. Interaction between Phytoplankton and Heterotrophic Bacteria in Arctic Fjords during Glacial Melting Season as revealed by eDNA Metabarcoding, FEMS Microbiology Ecology, https://doi.org/10.1093/femsec/fiae059, 2024 (JCR rate: 39.3%)

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50. Jang, J., Park, K.-T.*, Yoon, Y.J., Ha, S-Y., Jang, E., Cho, H.-H., Lee, J. Y., Park, J.*, Molecular-level chemical composition of aerosol and its potential source tracking at Antarctic Peninsula, *Environmental Research*, https://doi.org/10.1016/j.envres.2023.117217, 2023. (JCR rate: 7.7%)

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Severi, M., Barbante, C., Gambaro, A. Characterization of free L- and D-amino acids in size-segregated background aerosols over the Ross Sea, Antarctica, *Science of the Total Environment,* 879, https://doi.org/10.1016/j.scitotenv.2023.163070, 2023. (JCR rate: 9.5%)

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45. Kim, K. A., Choi, N. R., Yoo, H. Y., Jang, E.., Yoon, Y. J., Park, J., Jung, C. H., Kim, Y. P., Park, K.-T.*, Lee, J. Y.* Atmospheric saccharide composition and its possible linkage with marine phytoplankton from North Pacific to the Antarctic regions, *Atmospheric Environment*, 292, 119420, https://doi.org/10.1016/j.atmosenv.2022.119420, 2023. (JCR rate: 22.3%)

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in the Arctic atmosphere. *Global Biogeochemical Cycles*, https://doi.org/10.1029/2021GB006969, 2021. (JCR rate: 7.9%)

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31. Jang, J., Park, J.*, Ahn, S., Park, K.-T., Ha, S.-Y., Park, J., Cho, K. H.*, Molecular-level chemical characterization of dissolved organic matter in the Antarctic seawaters. *Frontiers in Marine Science*, https://doi.org/10.3389/fmars.2020.00339, 2020. (JCR rate: 5.5%)

30. Park, J., Dall&Osto, M., Park, K., Gim, Y., Kang, H. J., Jang, E., Park, K.-T., Park, M., Yum, S. S., Jung, J., Lee, B. Y., Yoon, Y. J., Shipborne observations reveal contrasting Arctic marine, Arctic terrestrial and Pacific marine aerosol properties. *Atmospheric Chemistry and Physics*, 20, 5573-5590, https://doi.org/10.5194/acp-20-5573-2020, 2020. (JCR rate: 10.6%)

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20. Lee, J., Park, K.-T., Lim, J.-H., Yoon, J.-E., Kim, I.-N.*, Hypoxia in Korean coastal waters: A case study of the natural Jinhae Bay and artificial Shiwa Bay, *Frontiers in Marine Science*, doi.org/10.3389/fmars.2018.00070, 2018. (JCR rate: 12.0%)

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15. Dall´Osto, M. *, Beddows, D., Tunved, P., Krejci, R., Ström, J., Yoon, Y. J., Park, K.-T., Becagli, S., Udisti, R., O&Dowd., C.D., Simo, R., Harrison, R.M., Arctic sea ice melt leads to atmospheric new particle formation, *Scientific Reports*, DOI:10.1038/s41598-017-03328-1, 2017. (JCR rate: 18.8%)

14. Yoon, J.-E., Kim, K., Macdonald, A.M., Park,K.-T., Kim, H.-C , Yoo, K.-C., Yoon, H.-I., Yang, E.J., Jung, J., Lim, J.-H., Kim, J.-H., Lee, J., Choi, T.-J., Song, J.-M., Kim, I.-N.*, Spatial and temporal variabilities of spring Asian dust events and their impacts on chlorophyll-*a* concentrations in the western North Pacific Ocean, *Geophysical Research Letters*, 44, 1474–1482, doi:10.1002/2016GL072124,2017. (JCR rate: 5.8%)

13. Lee, Y., Kumar, K.S., Lee, K., Shin, K., Park, K.-T.,Yang, E.J., Shin, K.-H.*, Effects of elevated CO2 concentrations on the production and biodegradability of organic matter: An in-situ mesocosm experiment, *Marine Chemistry*, 183, 33–10, 2016. (JCR rate: 23.8%)

12. Jang, S.†, Park, K.-T.†, Lee, K.*, Suh, Y.-S., An analytical system enabling consistent and long-term measurement of atmospheric dimethyl sulfide, *Atmospheric Environment*, 134, 217–223, 2016. †Co-first authors. (JCR rate: 18.8%)

11. Kim, H.-C., Kim, I.-N., Macdonald, A. M., Park, K.-T., Kim, J.-H., Yoon, J.-E., Lee, T. *, Estimating Remineralized Phosphate and Its Remineralization Rate in the Northern East China Sea During Summer 1997: A Snapshot Study Before Construction of the Three-Gorges Dam, *Terrestrial Atmospheric and Oceanic Sciences*, 27, 955–963, 2016. (JCR rate: 77.8%)

10. Choi. D. H., Park, K.-T., An, S. M., Lee, K., Cho, J.-C., Lee, J.-H., Kim, D., Jeon, D., Noh, J.-H.*, Pyrosequencing revealed SAR116 clade as dominant dddP-containing bacteria in oligotrophic NW Pacific Ocean, *PLOS one*, DOI: 10.1371/journal.pone.0116271, 2015. (JCR rate: 17.5%)

9. Lee. K.-H., Jeong, H.-J.*, Jang, T.-Y., Lim, A.S., Kang, N.S., Kim, J.H., Kim, K.Y., Park, K.-T., Lee, K., Feeding by the newly described mixotrophic dinoflagellate Gymnodinium smaydæ: feeding mechanism, prey species, and effect of prey, *Journal of Experimental Marine Biology and Ecology,* 459, 114–125, 2014. (JCR rate: 36.9%)

8. Park, K.-T., Lee, K.*, Shin, K., Yang, E. J., Hyun, B., Kim, J.-M., Noh, J. H., Kim, M., Kong, B., Choi, D. H., Choi, S.-J., Jang, P.-G., Jeong, H. J., Direct linkage between DMS production and microzooplankton grazing resulting from prey composition change under high pCO2 conditions, *Environmental Science & Technology*, 48, 4750–4756, DOI:10.1021/es403351h, 2014. (JCR rate: 4.5%)

7. Park, K.-T., Lee, K.*, Shin, K., Jeong, H.J., Kim, K.-Y., Improved method for minimizing sulfur loss in analysis of particulate organic sulfur, *Analytical Chemistry*, 15, 1352–1356, DOI:10.1021/ac403649m, 2014. (JCR rate: 5.4%)

6. Kim, J.-H., Kim, K.Y.*, Kang, E.J., Lee, K., Kim, J.-M., Park, K.-T., Shin, K., Hyun, B., Jeong, H.J., Enhancement of photosynthetic carbon assimilation efficiency by phytoplankton in the future coastal ocean, *Biogeosciences*, DOI: 10.5194/bg-10-7525-2013, 2013. (JCR rate: 9.2%)

5. Park, K.-T., Lee, K.*, Yoon, Y.J., Lee, H.-W., Kim, H.-C., Lee, B.-Y., Hermansen, O., Holmén, K., Linking

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4. Lee, H.†, Park, K.-T.†, Lee, K.*, Jeong, H.-J., Yoo, Y.-D., Prey-depenent retention of dimethylsulfoniopropionate (DMSP) by mixotrophic dinoflagellates, *Environmental Microbiology,* 14(3), 605-616, doi:10.1111/j.1462-2920.2011.02600.x, 2012. †Co-first authors. (JCR rate: 12.1%)

3. Kim, J.-M., Lee, K.*, Yang, E.J., Shin, K., Noh, J.H., Park, K.-T., Hyun, B., Jeong, H.-J., Kim, J.-H., Kim, K. Y., Kim, M., Kim, H.-C., Jang, P.-G., Jang, M.-C.. Enhanced production of oceanic dimethylsulfide resulting from CO2 induced grazing activity in a high CO2 world. *Environmental Science and Technology,* 44, 8140-8143, DOI:10.1021/es102028k, 2010. (JCR rate:4.7%)

2. Park, K.-T., Lee, K.*, High-frequency, accurate measurement of dimethylsulfide in surface marine environments using a microporous membrane contactor. *Limnology and Oceanography: methods,* 38, 273–279, 2008. (JCR rate: 26.3%)1. Kim, T.-W., Lee, K.*, Park, K.-T., Kim, M., Sulfur-hexafluoride as a complementary method for measuring the extent of point-source thermal effluents, *Marine Pollution Bulletin*, 56, 1294–1302, 2008. (JCR rate: 13.8%)

■ Awards

- Minister Award, Ministry of Oceans and Fisheries, 2022
- Minister Award, Ministry of **Ministry of Science and ICT**, 2022
- KOPRI's Scientist of the Month in 2016, 2017, 2018, 2019, Korea Polar Research Institute
- Young Scientist Award in 2018, The Korean Society of Oceanography
- Best doctoral dissertation in 2013 (Samgak-award), The Korean Society of Oceanography

Professional Activities

- Associate Editor of Polar Science (Atmospheric science/climatology section), 2023-present
- Frontiers in Marine Science, Review Editor, 2018~2023
- Member of Science Community for Ocean Research (SCOR) working group, 2022-present
- Representative member of Ny-Aesund Science Managers Committee (NySMAC), 2021-2023
- Member of International Arctic Science Committee (IASC), Atmospheric Working Group, 2021-2023
- Steering Committee of the 22nd International Symposium on Polar Sciences, 2016