

CV-APPENDIX

HUIMING BAO's PUBLICATIONS BY TOPICS (*Students or postdocs at the time) (Updated to the end of year 2021)

1. INVITED REVIEW PAPERS

2. ATMOSPHERIC CHEMISTRY AND DEPOSITIONS

3. EXPERIMENTAL AND THEORETICAL STUDIES ON STABLE ISOTOPE EFFECTS

4. HYPERARID ENVIORNMENTS AND ANTARCTICA

5. ENVIRONMENTAL SCIENCES

6. MATERIAL SCIENCES

7. ANALYTICAL CHEMISTRY

8. PAST ATMOSPHERIC VOLCANIC SO₂ OXIDATION

9. EARLY EARTH AND THE GREAT OXIDATION EVENT

10. SNOWBALL EARTH

11. PALEOBIOLOGY & PLAEOCLIMATE STUDIES

12. DEEP EARTH

13. METERORITES & PLANETARY SCIENCES

1. INVITED REVIEW PAPERS

- Cao, X.B. & **Bao, H.M.**, Small Triple Oxygen Isotope Variations in Sulfate: Mechanisms and Applications. *Reviews in Mineralogy and Geochemistry* **86**, 463-488 (2021).
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- Bao, Huiming**, Cao, Xiaobin, Peter W. Crockford, Reconstructing Past Atmosphere O₂ and CO₂ Concentrations and Biosphere Gross Primary Productivity: A Triple Oxygen Isotope Approach. In *Handbook of Isotopologue Biogeochemistry*, Nature-Springer (in Press).
- Cao, Xiaobin and **Bao, Huiming**, Concepts and practices of isotopologue-specific kinetic analysis, In *Handbook of Isotopologue Biogeochemistry*, Nature-Springer (in Press).
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- Bao, Huiming**, Cao, Xiaobin*, and Hayles, A. J.*, 2016, Triple Oxygen Isotopes: Principle and Applications, *Annual Review of Earth and Planetary Sciences*, 44:463–92. DOI: 10.1146/annurev-earth-060115-012340.
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2. ATMOSPHERIC CHEMISTRY AND DEPOSITIONS

- Xing, M., Liu, W., Li, X., Wang, Q., Tian, J., Li, X., Tie, X., Li, G., Cao, J., and **Bao, H.M.**, 2021, Reply to Hopke and Dai: The correlation between PM (2.5) and combustion-derived water is unlikely driven by local residential coal combustion: *PNAS*, v. 118, no. 19.
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- Xiaoqian Li*, **Huiming Bao**, Yiqun Gan, Aiguo Zhou, Yunde Liu, 2013, Multiple oxygen and sulfur isotope compositions of secondary atmospheric sulfate in a mega-city in central China. *Atmospheric Environment*, 81(12), 591-599.
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- Bao, Huiming**, and Reheis, M.C., 2003. Multiple oxygen and sulfur isotopic analyses on water-soluble sulfate in bulk atmospheric deposition from the southwestern United States. *Journal of Geophysical Research, D: Atmosphere*, 108(D14): 4430; 10.1029/2002JD003022.

3. EXPERIMENTAL AND THEORETICAL STUDIES ON STABLE ISOTOPE EFFECTS

- Yan, H., Dreybrodt, W., **Bao, HM.**, Peng, Y., Wei, Y., Ma, S., Mo, B., Sun, H., and Liu, Z., 2021, The influence of hydrodynamics on the carbon isotope composition of inorganically precipitated calcite: *Earth and Planetary Science Letters*, v. 565, p. 116932.
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- He*, YY., Cao*, XB., and **Bao, HM.**: Ideas and perspectives: the same carbon behaves like different elements – an insight into position-specific isotope distributions, *Biogeosciences*, 17, 4785–4795, 10.5194/bg-17-4785-2020, 2020.
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4. HYPERARID ENVIRONMENTS AND ANTARCTICA

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6. MATERIAL SCIENCES

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7. ANALYTICAL CHEMISTRY

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8. PAST ATMOSPHERIC VOLCANIC SO₂ OXIDATION

- Bao, Huiming**, Yu, Shaocai, and Tong, Daniel Q., 2010, Massive volcanic SO₂ oxidation and sulphate aerosol deposition in Cenozoic North America. *Nature*, doi:10.1038/nature09100
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9. EARLY EARTH AND THE GREAT OXIDATION EVENT

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10. “SNOWBALL” EARTH

- Liu YG., Yang J., **Bao HM.**, Shen B., & Hu Y., 2020, Large equatorial seasonal cycle during Marinoan snowball Earth. *Science Advances*, 6(23): eaay2471.
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11. PALEOBIOLOGY & PLAEOCLIMATE STUDIES

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12. DEEP EARTH

- Xiaobin Cao*, **Huiming Bao**, Caihong Gao, Yun Liu, Fang Huang, Yongbo Peng, Yining Zhang, 2019, Triple oxygen isotope constraints on the origin of ocean island basalts. *Acta Geochimica*, 38(3): 327-334.

13. METEORITES & PLANETARY SCIENCES

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