

## LIST OF PUBLICATIONS

Google Scholar h-index = 39 (as of 3 Nov 2020), [orcid.org/0000-0001-5374-6787](https://orcid.org/0000-0001-5374-6787), Researcher ID: A-5356-2010

### BOOKS

**Zhu C** and Anderson GM (2002) *Environmental Applications of Geochemical Modeling*. Cambridge University Press, London, 304 pp. [weblink](#)

**Zhu C**, Anderson GM, Lu P (2017) *Theories and Applications of Geochemical Modeling*. Science Publication Co., Beijing, China, ISBN 978-7-03-053048-6, 351 pp (in Chinese).

### REFEREED JOURNAL PUBLICATIONS

(<sup>‡</sup>student or post-doc authors whose research is supervised by Zhu; \*corresponding author when not the first author)

*Published or Available Online:*

- [80] Majeske N, <sup>‡</sup>Abesh A, **Zhu C**, Azad A. (2020) Inductive Predictions of Extreme Hydrologic Events in the Wabash River Watershed. In *Proceedings of 34th Conference on Neural Information Processing Systems (NeurIPS 2020) Vancouver, Canada*. (In this discipline, conference proceeding papers are peer-reviewed and have the same standing as journal articles).
- [79] Lu P, Luo P, Zhang GR, Zhang S, \***Zhu C** (2020). A Mineral-Water-Gas Interaction Model of pCO<sub>2</sub> as a Function of Temperature in Sedimentary Basins. *Chemical Geology*. v.558, [doi.org/10.1016/j.chemgeo.2020.119868](https://doi.org/10.1016/j.chemgeo.2020.119868), Acknowledged PRF grant 57727-ND2.
- [78] Zhang GR, Lu P, <sup>‡</sup>Zhang YL, <sup>‡</sup>Tu K, \***Zhu C** (2020) SupPHREEQC: A program to generate customized PHREEQC thermodynamic database based on Suprtbl. *Computers & Geosciences*. v143. [doi.org/10.1016/j.cageo.2020.104560](https://doi.org/10.1016/j.cageo.2020.104560). Acknowledged NSF-1926734, OVPR, PRF grant 57727-ND2.
- [77] <sup>‡</sup>Dierauer J, **Zhu C**, Gong L, Walsh A, Pamidighantam S, Wang J, Christie M, and Abeyasinghe E (2020) FutureWater Indiana: A science gateway for spatiotemporal modeling of water in Wabash basin with climate change in focus. In *Proceedings of CATCH THE WAVE AT PEARC20: Practice and Experience in Advanced Research Computing (PEARC '20)*. ACM, New York, NY, USA, 252-261. <https://doi.org/10.1145/1122445.1122456>. With acknowledgments to PfEC. (In this discipline, conference proceeding papers are peer-reviewed and have the same standing as journal articles).
- [76] <sup>‡</sup>Wang JR, Liu GM, \***Zhu C** (2020) Evaluating precipitation products for hydrologic modeling over a large river basin in the Midwestern USA. *Hydrological Science Journal*, Bulletin of International Association of Hydrologic Science. v65(7), 1221-1238. [doi:10.1080/02626667.2020.1737868](https://doi.org/10.1080/02626667.2020.1737868). Acknowledged ERI/PfEC.
- [75] Barna JM, Fryar AE, Cao L, Currens BJ, Peng T, **Zhu C** (2020) Variability in Groundwater Flow and Chemistry in the Houzhai Karst Basin, Guizhou Province, China. *Environmental and Engineering Geoscience* v26(7), 1-17.
- [74] <sup>‡</sup>Dierauer JR, \***Zhu C**. (2020) Drought in the twenty-first century in a water-rich region: Modeling study of the Wabash River Watershed, USA. *Water*. v12(1), #181, [doi:10.3390/w12010181](https://doi.org/10.3390/w12010181). Acknowledged ERI/PfEC.
- [73] **Zhu C**, Rimstidt JD, <sup>‡</sup>Zhang YL, <sup>‡</sup>Kang JT, Schott J, Yuan HL (2020) Decoupling feldspar dissolution and precipitation rates at near-equilibrium with Si isotope tracers: Implications for modeling silicate weathering. *Geochimica et Cosmochimica Acta*. v271, 132-153. DOI: 10.1016/j.gca.2019.12.024. Acknowledged NSF-1926734, OVPR

- [72] Gong L, Rimstidt JD<sup>†</sup>, <sup>‡</sup>Zhang YL, Chen KY, \***Zhu C** (2019) Unidirectional kaolinite dissolution rates at near-equilibrium and near-neutral pH conditions. *Applied Clay Science* v182, doi.org/10.1016/j.clay.2019.105284; acknowledged NSF-1926734, OVPR
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## CONFERENCE PROCEEDINGS

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### COMMENTARIES

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