

LIST OF PUBLICATIONS

Google Scholar h-index = 37 (as of Dec 2019), 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. [web link](#)

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

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

In Review:

Lu P, Luo P, Zhang GR, Zhang S, ***Zhu C**. An improved model of pCO₂ as a function of temperature in sedimentary basins. (submitted to AAPG Bulletin July 1, 2019). Acknowledged PRF grant 57727-ND2

Zhang GR, Lu P, ‡Zhang YL, ***Zhu C**. SupPHREEQC: A program to generate customized PHREEQC thermodynamic database based on SUPCRTBL. (Submitted to *Computers & Geosciences* 15 April 2019; R2 submitted 31 December 2019; resubmit with highlight format problem, 3 Jan 2020). Acknowledged NSF-1926734, OVPR, Acknowledged PRF grant 57727-ND2.

Published or Available Online or accepted:

- [77] ‡Wang JR, Liu GM, ***Zhu C**. Evaluation of precipitation input on streamflow simulations over a large-size watershed in Midwestern United States. *Hydrological Science Journal*, IAHS bulletin accepted 8 Jan 2020. Doi:10.1080/02626667.2020.1737868. With acknowledgements to ERI/PfEC.
- [76] Barna JM, Fryar AE, Cao L, Currens BJ, Peng T, **Zhu C**. Variability in Groundwater Flow and Chemistry in the Houzhai Karst Basin, Guizhou Province, China. *Environmental and Engineering Geoscience* accepted 6 Jan 2020.
- [75] ‡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, 181, doi:10.3390/w12010181. With acknowledgements to ERI/PfEC.
- [74] **Zhu C**, Rimstidt JD, ‡Zhang YL, ‡Kang JT, 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
- [73] Gong L, Rimstidt JD†, ‡Zhang YL, Chen KY, ***Zhu C** (2019) Unidirectional kaolinite dissolution rates at near-equilibrium and near-neutral pH conditions. *Applied Clay Science* v183, doi.org/10.1016/j.clay.2019.105284; acknowledged NSF-1926734, OVPR
- [72] ‡Zhang YL, Gong L, Chen KY, ‡Burkhart J, Yuan HL, ***Zhu C** (2019) A method for Si isotope tracer kinetics experiments: Using Q-ICP-MS to obtain ²⁹Si/²⁸Si ratios in aqueous solutions. *Chemical Geology* v531, Doi: 10.1016/j.chemgeo.2019.119337; acknowledged NSF-1926734, OVPR

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- [70] ‡Zhang YL, Rimstidt JD, Huang Y, *Zhu C (2019) Kyanite far from equilibrium dissolution rate at 0–22 °C and pH of 3.5–7.5. *Geochimica Acta* 38: 1-9. Acknowledged NSF-1225733 and IU
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- [68] ‡Zhang GR, Lu P, Luo P, Sonnenthal E, Huang Y, *Zhu C (2019) Effects of natural gas acidic components on local porosity generation in a carbonate reservoir: Insights from reactive transport modeling. *AAPG Bulletin*. 103 (12): 2975-3001, <https://doi.org/10.1306/04151917422> Acknowledged PRF grant 57727-ND2
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