

# Kehua You - Publications

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## Peer-reviewed Journal Publications:

- 1) **You, K.** and P. B. Flemings (2018), Methane hydrate formation in thick sandstones by free gas flow, *Journal of Geophysical Research: Solid Earth*, 123.
- 2) Meyer, D.W., P. B. Flemings, D. DiCarlo, **K. You**, S. C. Phillips and T. J. Kneafsey (2018), Experimental investigation of gas flow and hydrate formation within the hydrate stability zone, *Journal of Geophysical Research: Solid Earth*, 123.
- 3) **You, K.** and P. B. Flemings (2017), Methane hydrate formation in thick sand reservoirs: 1. Short-range methane diffusion, *Marine and Petroleum Geology*, 89,428-442.
- 4) **You, K.**, D. DiCarlo and P. B. Flemings (2016), Impact of gravity on hydrate saturation in gas-rich environments, *Water Resources Research*, 52, 1265-1285.
- 5) **You, K.**, D. DiCarlo and P. B. Flemings (2015), Quantifying hydrate solidification front advancing using method of characteristics, *Journal of Geophysical Research: Solid Earth*, 120, 6681-6697.
- 6) **You, K.**, T. Kneafsey, P. B. Flemings, S. Bryant, and P. Polito (2015), Salinity-buffered methane hydrate formation and dissociation in gas-rich systems, *Journal of Geophysical Research: Solid Earth*, 120 (2), 643-661.
- 7) **You, K.**, and H. Zhan (2013), New solutions for solute transport in a finite column with distance dependent dispersivities and time-dependent sources, *Journal of Hydrology*, 487, 87-97.
- 8) **You, K.**, and H. Zhan (2013), Comparisons of diffusive and advective fluxes of gas phase volatile organic compounds (VOCs) in unsaturated zones under natural conditions, *Advances in Water Resources*, 52, 221-231.
- 9) **You, K.**, and H. Zhan (2012), Can water table and atmospheric pressure fluctuations be neglected in soil vapor extraction?, *Advances in Water Resources*, 35, 41-54.
- 10) Li, J., **K. You**, H. Zhan, and G. Huang (2012), Analytical solution to airflow of barometric pumping in layered unsaturated zone porous media", *Transport in Porous Media*, 93(3), 461-474.
- 11) Li, J., H. Zhan, G. Huang, and **K. You** (2012), "Determining air permeability in reclaimed coastal land based on tidal fluctuations", *Environmental Earth Sciences*, 66(4), 1259-1268.
- 12) **You, K.**, H. Zhan, and J. Li (2011), Analysis of models for induced gas flow in unsaturated zone, *Water Resource Research*, 47, W04515.
- 13) **You, K.**, H. Zhan, and J. Li (2011), Gas flow to a barometric pumping well in a multilayered unsaturated zone, *Water Resources Research*, 47, W05522.
- 14) **You, K.**, H. Zhan, and J. Li (2010), A new solution and data analysis for gas flow to a barometric pumping well, *Advances in Water Resources*, 33(12), 1444-1455.
- 15) Li, J., H. Zhan, G. Huang, and **K. You** (2010), Tidal induced airflow in a two-layered coastal land with atmospheric pressure fluctuations, *Advances in Water Resources*, 34, 649-658.

- 16) Sun, L., L. Yuan, N. Jia, **K. You**, X. Wang, and Y. Wang (2010), Sb pollution in the soil, moss and sediments of Ny-Alesund, Svalbard, Arctic, *Sciencepaper Online*.
- 17) Xu, L., L. Sun, **K. You**, J. Wang, and Y. Wang (2010), Geochemical characteristics of Pb in cultural layers of Yuchisi Site and source tracing of primitive metallurgy in China, *Acta Pedologica Sinica*, 47(2), 193-205.
- 18) Xu, L., L. Sun, J. Zhang, R. Zhu, **K. You**, and J. Wang (2008), 2500 BC : the beginning of chalcolithic period in China recorded by Hg, *Quaternary Research*, 28(6), 1070-1080.

### **Conference Publications:**

- 19) **You, K.**, and P. B. Flemings (2017), Methane hydrate formation in thick sand reservoirs: Long-range gas transport or short-range methane diffusion?, ICGH9, Denver, Colorado, USA.
- 20) Meyer, D. W., **K. You**, S. Phillips, Flemings P.B., DiCarlo D. and Kneafsey, T. (2017), Methane hydrate formation in coarse-grained, brine-saturated sample through the induction of a propagating gas front, ICGH9, Denver, Colorado, USA.
- 21) Phillips, S. C., **K. You**, P.B. Flemings, D.W. Meyer and T. Dong (2017), Dissociation of laboratory-synthesized methane hydrate in coarse-grained sediments by slow depressurization, ICGH9, Denver, Colorado, USA.
- 22) Wei, L., A.E. Cook, A. Malinverno, H. Daigle, M. Nole, R. Andris, **K. You** and J. M. Frederick (2017), Methane hydrate formation in coarse-grained, brine-saturated sample through the induction of a propagating gas front, ICGH9, Denver, Colorado, USA.
- 23) Flemings, P. B. et al. (2017), GOM2: Prospecting, drilling and sampling coarse-grained hydrate reservoirs in the Deepwater Gulf of Mexico, ICGH9, Denver, Colorado, USA.