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PUBLICATIONS

h-index: 39 (Google Scholar)

i10-index: 128, since 2016: 84 (Google Scholar)

* indicates graduate student advisee

⁺ indicates post-doc advisee or supervised staff

^o indicates undergrad advisee

³ indicates graduate student co-advisee

Books

Flemings, Peter B., 2021, A Concise Guide to Geopressure: Origin, Prediction, and Applications, Cambridge University Press. University Printing House, Cambridge CB2 8BS, United Kingdom, DOI: 10.1017/9781107326309.

Papers in Refereed Journals

1. Daigle, H., Cook, A., Fang, Y., Bihani, A., Song, W., **Flemings, P. B.**, 2020, Gas-driven tensile fracturing in shallow marine sediments. *Journal of Geophysical Research: Solid Earth*, 125, e2020JB020835. <https://doi.org/10.1029/2020JB020835>
2. +Heidari, M., Nikolinakou, M. A., & **Flemings, P. B.**, 2020, Modified Cam-Clay Model for Large Stress Ranges and Its Predictions for Geological and Drilling Processes. *Journal of Geophysical Research: Solid Earth*, 125, e2020JB019500. <https://doi.org/10.1029/2020JB019500>
3. *Meazell, K.P., **Flemings, P.B.**, Santra, M., Johnson, J.E., 2020, Sedimentology and stratigraphy of a deep-water gas hydrate reservoir in the northern Gulf of Mexico. *AAPG Bulletin* ; 104 (9): 1945–1969. doi: <https://doi.org/10.1306/05212019027>
4. +Santra, M., **Flemings, P.B.**, Scott, E., Meazell, K.P., 2020, Evolution of gas hydrate-bearing deep-water channel-levee system in abyssal Gulf of Mexico: Levee growth and deformation. *AAPG Bulletin* ; 104 (9): 1921–1944. <https://doi.org/10.1306/04251918177>
5. +Thomas, C., Phillips, S.C, **Flemings, P.B.**, Santra, M., Hammon, H., et al., 2020, Pressure coring operations during The University of Texas-Gulf of Mexico 2-1 (UT-GOM2-1) Hydrate Pressure Coring Expedition in Green Canyon Block 955, northern Gulf of Mexico. *AAPG Bulletin* ; 104 (9): 1877–1901. <https://doi.org/10.1306/02262019036>
6. Boswell, R., Collett, T.S., Cook, A., **Flemings, P.B.**, 2020, Introduction to Special Issue: Gas Hydrates in Green Canyon Block 955, deep-water Gulf of Mexico: Part I. *AAPG Bulletin* ; 104 (9): 1843–1846. <https://doi.org/10.1306/bltnintro062320>
7. +Fang, Y., **Flemings, P. B.**, Daigle, H., Phillips, S.C, Meazell, K.P., You, K., 2020, Petrophysical properties of the Green Canyon Block 955 hydrate reservoir inferred from reconstituted sediments: Implications for hydrate formation and production. *AAPG Bulletin* ; 104 (9): 1997–2028. <https://doi.org/10.1306/01062019165>
8. **Flemings, P. B.**, Phillips, S.C., Boswell, R., Collett, T.S., Cook, A., et al., 2020, Pressure coring a Gulf of Mexico deep-water turbidite gas hydrate reservoir: Initial results from The University of Texas–Gulf of Mexico 2-1 (UT-GOM2-1) Hydrate Pressure Coring Expedition. *AAPG Bulletin* ; 104 (9): 1847–1876. <https://doi.org/10.1306/05212019052>
9. *Murphy, Z. W., DiCarlo, D. A., **Flemings, P. B.**, & Daigle, H., 2020, Hydrate is a nonwetting phase in porous media. *Geophysical Research Letters*, 47, e2020GL089289. <https://doi.org/10.1029/2020GL089289>

10. Espinoza, D.N., **Flemings, P.B.**, Luo, J., Tisato, N., Chen, X.J., 2020, Pore-Scale Evidence of Ion Exclusion during Methane Hydrate Growth and Evolution of Hydrate Pore-Habit in Sandy Sediments, *Marine and Petroleum Geology*, Volume 117, 104340
<https://doi.org/10.1016/j.marpetgeo.2020.104340>
11. Daigle, H., Reece, J. S., **Flemings, P.B.**, 2020, A modified Swanson method to determine permeability from mercury intrusion data in marine muds, *Marine and Petroleum Geology*, Volume 113, article no. 104155, <https://www.sciencedirect.com/science/article/pii/S0264817219306075>
12. *Meyer, D.W., **Flemings, P.B.**, You, K., DiCarlo, D., 2020, Gas flow by invasion percolation through the hydrate stability zone, *Geophysical Research Letters*, in press.
<https://doi.org/10.1029/2019GL084380>
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14. *Darnell, K.N., **Flemings, P.B.**, DiCarlo, D., 2019, Nitrogen-Driven Chromatographic Separation During Gas Injection Into Hydrate-Bearing Sediments, *Water Resources Research*, online.
doi:10.1029/2018WR023414
15. Ruarri, J., Day-Stirrat R.J., Bryndzia, L.T., Schleicher, A.M., Adriaens R., Hofmann, R., **Flemings P.B.** 2019, Hydration behavior by X-ray diffraction profile fitting of smectite-bearing minerals in a Plio-Pleistocene mudrock from Eugene Island, Gulf of Mexico; *Marine and Petroleum Geology*, Volume 102, pages 86-100, <https://dx.doi.org/10.1016/j.marpetgeo.2018.12.008>.
16. Daigle, H., Reece, J. S., **Flemings, P.B.**, 2019, Evolution of the percolation threshold in muds and mudrocks during burial, *Geophysical Research Letters*, Volume 46, 8064-8073, doi:10.1029/2019GL083723.
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28. *Gao, B., **Flemings, P.B.**, Nikolinakou, M.A., Saffer, D.M., Heidari, M., 2018, Mechanics of fold-and-thrust belts based on geomechanical modeling, *Journal of Geophysical Research: Solid Earth*, 123, 4454–4474. <https://doi.org/10.1029/2018JB015434>.
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