

Dr. Thomas Gernon

publications

peer reviewed

in review

January 2020 peer reviewed papers=50, total citations=1016, h=19, full list available to download at [Google Scholar](#) and <https://tinyurl.com/gernon>.

Siegburg, M., Bull, J.M., Nixon, C.W., Keir, D.K., Gernon, T.M., Corti, G., Abebe, B., Sanderson, D.J., Ayele, A. (2020). *Quantitative constraints on faulting and fault slip-rates in the northern Main Ethiopian Rift*. Tectonics.

Longman, J., Gernon, T.M., Palmer, M.R., Jones, M.T., Stokke, E.W., Svensen, H.H., in review (2020). *Widespread diagenesis of volcanic deposits accelerated termination of the Paleocene-Eocene Thermal Maximum*. Nature Geoscience.

Mitchell, R.N., O'Rourke, J.G., Cox, G.M., Spencer, C., Li, Z-X., Kirscher, U., Zhang, N., Murphy, J.B., Nordsvan, A., Doucet, L.S., Gernon, T.M., Wan, B. & Asimow, P.D., in review (2020). *Birth of supercontinents: Modern geodynamics and geodynamo*. Nature Communications.

Haddock, D., Many, S., Brown, R.J., Jones, T.J., Wadsworth, F.B., Dobson, K.J., & Gernon, T.M., in press (2020), *Syn-Eruptive Agglutination of Kimberlitic Volcanic Ash*. Volcanica.

Taylor, R.N., Davilla-Harris, P., Branney, M., Farley, E.M.R., Gernon, T.M. & Palmer, M.R. in press (2020). *Dynamics of a chemically pulsing mantle plume*. Earth and Planetary Science Letters.

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Hicks, S., Verdon, J., Baptie, B., Luckett, R., Mildon, Z., Gernon, T.M., 2019, *A shallow earthquake swarm close to hydrocarbon activities: discriminating between natural and induced causes for the 2018–19 Surrey, UK earthquake sequence*. Seismological Research Letters 90, p. 2095–2110, doi: [10.1785/0220190125](https://doi.org/10.1785/0220190125).

Mitchell, R.N., Gernon, T.M., Nordsvan, A., Cox, G.M., Li, Z.X. & Hoffman, P.F., 2019. *Hit or miss: Glacial incisions of snowball Earth*. Terra Nova 31, p. 381–389, doi: [10.1111/ter.12400](https://doi.org/10.1111/ter.12400).

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Elliott, H.A., Gernon, T.M., Roberts, S., Boyce, A. & Hewson, C., 2019. *Diatremes act as fluid conduits for Zn-Pb mineralization in the SW Irish Orefield*. Economic Geology 114 (1), p. 117–125; doi: [10.5382/econ-geo.2019.4622](https://doi.org/10.5382/econ-geo.2019.4622).

Mazrouei, S., Ghent, R.R., Bottke, W.F., Parker, A.H. & Gernon, T.M., 2019. *Earth and Moon impact flux increased at the end of the Paleozoic*, Science 363, p. 253–257; doi: [10.1126/science.aar4058](https://doi.org/10.1126/science.aar4058). Associated Perspective: Koeberl, C., 2019. *When Earth got pummeled*. Science 363 (6424), p. 224–225; doi: [10.1126/science.aav8480](https://doi.org/10.1126/science.aav8480); and News Feature: Voosen, P., 2019. *Moon's craters reveal recent spike in outer space impacts on Earth*, Science, doi: [10.1126/science.aaw7085](https://doi.org/10.1126/science.aaw7085). Paper featured in The Guardian, National Geographic, Scientific American, New York Times, TIME magazine, The Independent, FOX news, CNN, ABC, BBC, la Repubblica, New Scientist, Live Science, IFL Science.

Keller, C.B., Husson, J.M., Mitchell, R.N., Bottke, W.F., Gernon, T.M., Boehnke, P., Bell, E.A., Swanson-Hysell, N.L. & Peters, S.E., 2019. *Neoproterozoic glacial origin of the Great Unconformity*. Proceedings of the National Academy of Sciences 116 (4), p. 1136–1145; doi: [10.1073/pnas.1804350116](https://doi.org/10.1073/pnas.1804350116). News and Views: Chakravorty, A. (2019), *Did global glaciation cause the Great Unconformity?* Eos, 100, doi: [10.1029/2019EO120289](https://doi.org/10.1029/2019EO120289). Paper featured in National Geographic, Los Angeles Times, Live Science, IFL Science and Le Figaro.

Gernon, T.M., Sparks, R.S.J., Field, M., Ogilvie-Harris, R., Schumacher, J., & Brooker, R., 2019, in press. *Comment on: "Petrography of Snap Lake kimberlite dyke (Northwest Territories, Canada) and its interaction with country rock granitoids"*. Journal of Petrology, epy118; doi: [10.1093/petrology/egy118](https://doi.org/10.1093/petrology/egy118).

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Hincks, T.K., Aspinall, W., Cooke, R. & Gernon, T.M.†, 2018. *Oklahoma's induced seismicity strongly linked to wastewater injection depth*. *Science* 359, p. 1251–1255; doi: [10.1126/science.aap7911](https://doi.org/10.1126/science.aap7911). Paper featured in the Washington Post, New York Times, Fox News, Scientific American, Live Science, Forbes and Newsweek.

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