

02 February, 2026

New Models:

- This release introduces Classification diagrams. There are currently four classification diagrams available: Le Maitre et al., 2002 - TAS; Le Maitre et al., 2002 - K₂O-SiO₂; Middlemost, 1989 - TAS; Rickwood, 1989 - K₂O- SiO₂.
- Normative mineralogy calculation scheme of Le Maitre et al., 2002
- S oxidation model in silicate melts of Sun and Yao, 2024
- Fe oxidation model in silicate melts of Sun and Yao, 2024
- A new equation for the Iron-Wüstite oxygen buffer by Hirschmann, 2021

Improvements to the algorithm:

- N/A

Changes to the GUI:

- ‘Classifications’ tab is added to the main Petrolog4 window.

Bug fixes:

- Manually changing Starting melt composition’s name was not recorded in the results displayed in the Output section of the Main form of Petrolog4. This is now fixed.
- Modelling reheating experiments of melt inclusions following diffusive re-equilibration was not performed when it was included in calculations. This is now fixed.