

In this revision, the authors provide point-by-point response, which gives reasonable explanations. But there is still one error for citing the electrical conductivity data from Ni et al. (2011) in Fig. 8. The manuscript can be accepted after the correction.

1. In Ni et al. (2011), the experimental data did not cover the temperature range below 1200°C. Therefore, it needs to extrapolate to 1100°C from the equation (3) in the reference. In Ni et al. (2011), the calculated electrical conductivity $\log\sigma$ (S/m) at 2 GPa, 1373 K would be as follows:

H ₂ O (wt%)	0	2.59	5.92
	-1.63	-0.18	0.57

The values cited in Figure 8 in the revision are different from the extrapolation in Ni et al. (2011), which need to be corrected.