Corrigendum to
"Empirical electronic polarizabilities of iodine (I⁻) and bromine (Br⁻, Br⁷⁺) for the prediction of refractive indices" published in Eur. J. Mineral., 37, 889–907, 2025

Shaghayegh Nezamabadi[1], Patrick A. Fuzon[2], Florian Kraus[2], and Reinhard X. Fischer[1]

[1]Fachbereich Geowissenschaften, Universität Bremen, Klagenfurter Straße 2, 28359 Bremen, Germany
[2]Fachbereich Chemie, Philipps-Universität Marburg, Hans-Meerwein-Str. 4, 35032 Marburg, Germany

Correspondence: Shaghayegh Nezamabadi (shne@uni-bremen.de) and Reinhard X. Fischer
(rfischer@uni-bremen.de)

The values in Fig. 4b on the y-axis are free-ion polarizabilities (α°_- in Eq. 3). They were accidentally plotted against the ionic radii and not the cube of these values. The corrected figure is shown here. Accordingly, the reference to the figure on p. 901, Sect. 3.1.3 must read: Furthermore, the relationship between the cube of the ionic radii and the free ion polarizabilities of I⁻ and Br⁻ agrees well with the other calculated halogens following the same trend.

The closing parenthesis is missing in the formulas in the last two columns of Table 4 on p. 897. It is correctly written as $\Delta n (n_{obs} - n_{GD})/n_{obs}$ [%] and $\Delta n (n_{obs} - n_{calc})/n_{obs}$. [%].
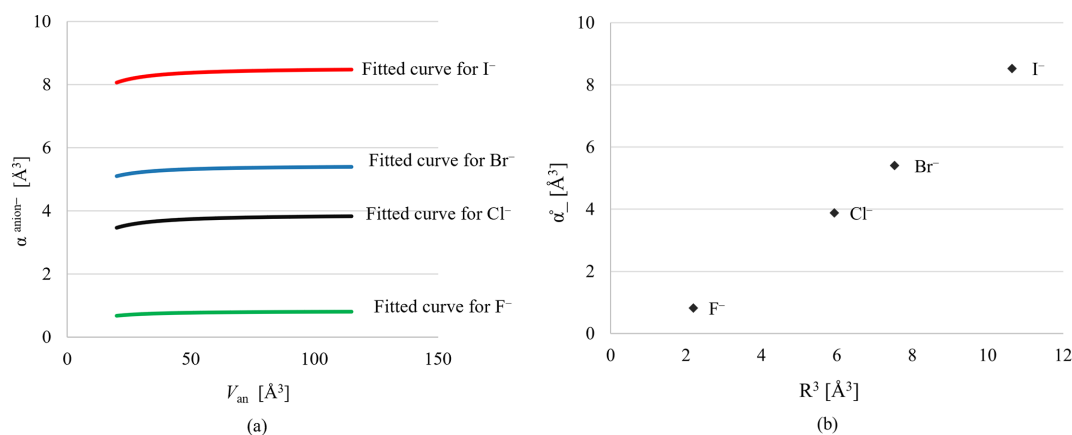

Figure 4. **(a)** Comparison of the fitted polarizability curves for I⁻, Br⁻, Cl⁻, and F⁻ as a function of anion volume. The (α^o_-) values are 3.88 and 0.82 Å³ for Cl⁻ and F⁻, respectively, with corresponding N_o values of 1.800 Å³·⁶ for Cl⁻ and 3 Å³·⁶ for F⁻. **(b)** The relationship between the cube of ionic radii (Shannon, 1976) and free ion polarizability (α°_-) for halogens.