Erratum to: The dependence of Raman defect bands in silica glasses on densification revisited

Manon Heili¹ · Bertrand Poumellec¹ · Ekaterina Burov² · Cédric Gonnet² · Charles Le Losq³ · Daniel R. Neuville³ · Matthieu Lancry¹

Published online: 30 November 2015
© Springer Science+Business Media New York 2015

Erratum to: J Mater Sci DOI 10.1007/s10853-015-9489-8

The authors have identified two errors in their published paper and they are corrected in this erratum.

Figure 3 was inadvertently repeated as Fig. 4 instead of the correct Fig. 4, which is given below.

The equation given in the Discussion has also been corrected as shown below to include a missing term that described more accurately the results in the last equation of the paper.

Before correction:

$$I_{Di}(T, T_f, P, c) \approx I_{Di}(300 \text{ K}, T_f, P, c) + \left(\frac{\partial I_{Di}}{\partial T} \right)_{T_f, P, c} \cdot ((T - 300 \text{ K}))_{T_f, P, c}$$

$$I_{Di}(T = T_f, P, c) \approx I_{Di}(300 \text{ K}, T_f, P, c) + \left(\frac{\partial I_{Di}}{\partial T} \right)_{T_f, P, c} \cdot ((T - 300 \text{ K}))_{T_f, P, c}$$

The online version of the original article can be found under doi:10.1007/s10853-015-9489-8.

✉ Matthieu Lancry
matthieu.lancry@u-psud.fr

¹ Institut de Chimie Moléculaire et des Matériaux d'Orsay, Equipe Synthèse, Propriétés et Modélisation des Matériaux, CNRS-Université Paris Sud, Université Paris-Saclay, Bâtiment 410, 91405 Orsay Cedex, France

² Prysmian Draka Comteq France SAS, Parc des Industries Artois Flandres, 644 boulevard Est, Billy Berclau, 62092 Haisnes Cedex, France

³ Géochimie et Cosmochimie, CNRS-IPGP, Sorbonne Paris Cité, 1 rue Jussieu, 75252 Paris, France

Fig. 4 Raman spectra performed at room temperature of PCVD 25GeO₂-75SiO₂ glass samples with fictive temperatures of 1300, 1200, 1100 and 950 °C. *Black spectrum* is spectrum of Suprasil 1, taken as a reference. The *inset* is a zoom in the 500–700 cm⁻¹ portion of spectra, highlighting the D₂ and 684 cm⁻¹ bands

After correction:

$$I_{Di}(T, T_{f0}, P, c) \approx I_{Di}(300 \text{ K}, T_{f0}, P, c) + \left(\frac{\partial I_{Di}}{\partial T} \right)_{T_f, P, c} \cdot (T - 300 \text{ K})$$

$$I_{Di}(T = T_f, P, c) \approx I_{Di}(300 \text{ K}, T_{f0}, P, c) + \left(\left(\frac{\partial I_{Di}}{\partial T} \right)_{T_f, P, c} \right) \cdot (T - 300 \text{ K}) + \left(\left(\frac{\partial I_{Di}}{\partial T_f} \right)_{T, P, c} \right) \cdot (T_f - T_{f0})$$

where T_{f0} is the fictive temperature of the sample at low temperature.