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Author Correction: Interferometric measurements of refractive index and dispersion at high pressure

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Correction to: *Scientific Reports* <https://doi.org/10.1038/s41598-021-84883-6>, published online 10 March 2021

The original version of this Article contained errors in References 3, 14, 22, 31, 35, 38, 40, 42, and 47 which were incorrectly given as:

- 3. Gladstone, J. & Dale, T. X. I. V. Researches on the refraction, dispersion, and sensitiveness of liquids. *Philos. Trans. R. Soc. Lond.* **153**, 317 (1863).
- 14. Shimizu, H., Nabetani, T., Nishiba, T. & Sasaki, S. High-pressure elastic properties of the VI and VII phase of ice in dense H₂O and D₂O
- 22. van Straaten, J. & Silvera, I. F. Equation of state of solid molecular H₂H₂H₂ and D₂D₂D₂ at 5 K. *Phys. Rev. B* **37**, 1989 (1988).
- 31. Brygoo, S. *et al.* Analysis of laser shock experiments on precompressed samples using a quartz reference and application to warm dense hydrogen and helium. *J. Appl. Phys.* **118**, 1 (2015) ([arXiv:1510.03301](https://arxiv.org/abs/1510.03301)).
- 35. Pruteanu, C. G., Ackland, G. J., Poon, W. C. K. & Loveday, J. S. When immiscible becomes miscible-methane in water at high pressures. *Sci. Adv.* **3**, 1 (2017).
- 38. Aebischer, N. Calculs de profils dissym triques observables sur des figures d'interf rrences en ondes multiples sph riques. *Nouvelle Revue d'Optique Appliquée* **2**, 351 (1971).
- 40. Dunaeva, A. N., Antsyshkin, D. V. & Kuskov, O. L. Phase diagram of H₂O: Thermodynamic functions of the phase transitions of high-pressure ices. *Sol. Syst. Res.* **44**, 202 (2010).
- 42. Courchinoux, R. & Lalle, P. Dynamic properties of water: Sound velocity and refractive index. In *booktitle AIP Conference Proceedings*, 370 (AIP, 1996) pp. 61–64
- 47. Ge, X. & Lu, D. Molecular polarizability of water from local dielectric response theory. *Phys. Rev. B* **96**, 1 (2017).

The correct references are listed below:

- 3. Gladstone, J. & Dale, T. XIV Researches on the refraction, dispersion, and sensitiveness of liquids. *Philos. Trans. R. Soc. Lond.* **153**, 317 (1863).
- 14. Shimizu, H., Nabetani, T., Nishiba, T. & Sasaki, S. High-pressure elastic properties of the VI and VII phase of ice in dense H₂O and D₂O. *Phys. Rev. B* **53**, 6107 (1996).
- 22. van Straaten, J. & Silvera, I. F. Equation of state of solid molecular H₂ and D₂ at 5 K. *Phys. Rev. B* **37**, 1989 (1988).
- 31. Brygoo, S. *et al.* Analysis of laser shock experiments on precompressed samples using a quartz reference and application to warm dense hydrogen and helium. *J. Appl. Phys.* **118**, 195901 (2015).

35. Pruteanu, C. G., Ackland, G. J., Poon, W. C. K. & Loveday, J. S. When immiscible becomes miscible-methane in water at high pressures. *Sci. Adv.* **3**, e170024 (2017).
38. Aebischer, N. Calculs de profils dissymétriques observables sur des figures d'interférences en ondes multiples sphériques. *Nouvelle Revue d'Optique Appliquée* **2**, 351 (1971).
40. Dunaeva, A. N., Antsyshkin, D. V. & Kuskov, O. L. Phase diagram of H₂O: Thermodynamic functions of the phase transitions of high-pressure ices. *Sol. Syst. Res.* **44**, 202 (2010).
42. Courchinoux, R. & Lalle, P. Dynamic properties of water: Sound velocity and refractive index. *AIP Conference Proceedings*, **370**, 61 (1996).
47. Ge, X. & Lu, D. Molecular polarizability of water from local dielectric response theory. *Phys. Rev. B* **96**, 075114 (2017).

The original Article has been corrected.

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