

Jun 2022 || Vol. 5 || No. 1
ISSN: 2610-3540

On the cover



Art of glass

Bubbles growing in obsidian under an oxy-propane torch flame at around 1300 °C at the University of Sunderland, U.K. In this issue, Fabian Wadsworth and colleagues expound on the opportunities for collaboration between volcanologists and glass artists: two groups working towards an understanding of high-temperature material behaviour of glass, generally with very different objectives. [Read more on page 183](#)

Image credit: Photograph by Fabian Wadsworth. Flame work was performed by Zoe Garner, an artist and flame-working glass tutor and artist in residence at the University of Sunderland and the National Glass Centre. Cover design ©Volcanica [2022] Distributed under the terms of the [Creative Commons Attribution 4.0 International License](#).

◆ Reports ◆

Pankhurst, M. J., Scarrow, J. H., Barbee, O. A., Hickey, J., Coldwell, B. C., Rollinson, G. K., Rodríguez-Losada, J. A., Martín Lorenzo, A., Rodríguez, F., Hernández, W., Calvo Fernández, D., Hernández, P. A. . and Pérez, N. M. "Rapid response petrology for the opening eruptive phase of the 2021 Cumbre Vieja eruption, La Palma, Canary Islands" doi: [10.30909/vol.05.01.0110](#). 1

◆ Articles ◆

Jolley, A., Dohaney, J. and Kennedy, B. "Teaching about volcanoes: Practices, perceptions, and implications for professional development", [10.30909/vol.05.01.1132](#). 11

Whitty, R., Pfeffer, M., Ilyinskaya, E., Roberts, T., Schmidt, A., Barsotti, S., Strauch, . W., Crilley, L., Pope, F., Bellanger, H., Mendoza, E., Mather, T., Liu, E., Peters, . N., Taylor, I., Francis, H., Hernández Leiva, X., Lynch, D., Nobert, S. and Baxter, P. "Effectiveness of low-cost air quality monitors for identifying volcanic SO₂ and PM downwind from Masaya volcano, Nicaragua", doi: [10.30909/vol.05.01.3359](#). 33

Gailler, L., Labazuy, P., Régis, E., Peltier, A. and Ferrazzini, V. "Active structures and thermal state of the Piton de la Fournaise summit revealed by combined UAV magnetic and thermal infrared measurements", doi: [10.30909/vol.05.01.6174](#). . 61

Kennedy, B., Heap, M., Burchardt, S., Villeneuve, M., Tuffen, H., Gilg, H. A., Davidson, J., Duncan, N., Saubin, E., Gestsson, E. B., Anjomrouz, M. and Butler, P. "Thermal impact of dykes on ignimbrite and implications for fluid flow channelisation in a caldera", doi: [10.30909/vol.05.01.7593](#). 75

Tadini, A., Harris, A., Morin, J., Bevilacqua, A., Peltier, A., Aspinall, W., Ciolli, S., Bachèlery, P., Bernard, B., Biren, J., Brum da Silveira, A., Cayol, V., Chevrel, O., Coppola, D., Dietterich, H., Donovan, A., Dorado, O., Drenne, S., Dupéré, O., Gurioli, L., Kolzenburg, S., Komorowski, J.-C., Labazuy, P., Mangione, D., Mannini, S., Martel-Asselin, F., Médard, E., Pailot-Bonnétat, S., Rafflin, V., Ramsey, M., Richter, N., Vallejo, S., Villeneuve, N. and Zafrilla, S. "Structured elicitation of expert judgement in real-time eruption scenarios: an exercise for Piton de la Fournaise volcano, La Réunion island", doi: [10.30909/vol.05.01.105131](#). 105

Continued on next page.

Editors: Jenni Barclay, John Browning, Katy Chamberlain, Corentin Caudron, Oryaëlle Chevrel, J. Maarten de Moor, Pierre Delmelle, Jacqueline Dohaney, Amy Donovan, Susanna Ebmeier, Lynne Elkins, Gareth Fabbro, Jamie Farquharson, Lis Gallant, Helen Elizabeth Gaunt, Alison Graettinger, Claire Harnett, Josh Hayes, Michael Heap, Adrian Hornby, Ery Hughes, Kayla Iacovino, Mike James, Adam Jeffery, Alison Jolley, Kyoko Kataoka, Ben Kennedy, Ulrich Küppers, Alexandra Kushnir, Oliver Lamb, Emma Liu, Elena Maters, Sami Mikhail, Chiara Montagna, Julie Morin, Engielle Paguican, Tom Pering, Pete Rowley, Jazmin Scarlett, Nick Varley, Jérémie Vasseur, Fabian Wadsworth, Alan Whittington, Rebecca Williams

Burchardt, S., Oskarsson, B., Gustafsson, L., Berg, S. E. and Riishuus, M. S. "Geology of a Neogene caldera cluster in the Borgarfjörður eystri–Loðmundarfjörður area, Eastern Iceland", doi: [10.30909/vol.05.01.133161](https://doi.org/10.30909/vol.05.01.133161). 133

Ligot, N., Guevara, A. and Delmelle, P. "Drivers of crop impacts from tephra fallout: Insights from interviews with farming communities around Tungurahua volcano, Ecuador", doi: [10.30909/vol.05.01.163181](https://doi.org/10.30909/vol.05.01.163181). 163

Wadsworth, F. B., Llewellyn, E., Rennie, C., Watkinson, C., Mitchell, J., Vasseur, J., Mackie, A., Mackie, F., Carr, A., Schmiedel, T., Witcher, T., Soldati, A., Jackson, L., Foster, A., Hess, K.-U., Dingwell, D. and Hand, R. "Using obsidian in glass art practice", doi: [10.30909/vol.05.01.183207](https://doi.org/10.30909/vol.05.01.183207). 183

Bernard, B., Ramón, P., García, L., Hernandez, S., Vasconez, F. J., Viracucha, G. and Hidalgo, S. "Volcanic event management in the Galápagos Islands, Ecuador", doi: [10.30909/vol.05.01.209225](https://doi.org/10.30909/vol.05.01.209225). 209

◇ **Methods** ◇

Lerner, G. A., Tsang, S. W. R. and Turner, G. M. "Using paleomagnetism to determine the heating effect of lava flows on underlying substrates", doi: [10.30909/vol.05.01.95103.95](https://doi.org/10.30909/vol.05.01.95103.95)

Editors: Jenni Barclay, John Browning, Katy Chamberlain, Corentin Caudron, Oryaëlle Chevreil, J. Maarten de Moor, Pierre Delmelle, Jacqueline Dohane, Amy Donovan, Susanna Ebmeier, Lynne Elkins, Gareth Fabbro, Jamie Farquharson, Lis Gallant, Helen Elizabeth Gaunt, Alison Graettinger, Claire Harnett, Josh Hayes, Michael Heap, Adrian Hornby, Ery Hughes, Kayla Iacovino, Mike James, Adam Jeffery, Alison Jolley, Kyoko Kataoka, Ben Kennedy, Ulrich Küppers, Alexandra Kushnir, Oliver Lamb, Emma Liu, Elena Maters, Sami Mikhail, Chiara Montagna, Julie Morin, Engiella Paguican, Tom Pering, Pete Rowley, Jazmin Scarlett, Nick Varley, Jérémie Vasseur, Fabian Wadsworth, Alan Whittington, Rebecca Williams