

Contents

Dedication	vii
CAUDRON, C., OHBA, T. & CAPACCIONI, B. Geochemistry and geophysics of active volcanic lakes: an introduction	
Acidic lakes	
VAN HINSBERG, V., VIGOUROUX, N., PALMER, S., BERLO, K., MAURI, G., WILLIAMS-JONES, A., MCKENZIE, J., WILLIAMS-JONES, G. & FISCHER, T. Element flux to the environment of the passively degassing crater lake-hosting Kawah Ijen volcano, Indonesia, and implications for estimates of the global volcanic flux	9
GUNAWAN, H., CAUDRON, C., PALLISTER, J., PRIMULYANA, S., CHRISTENSON, B., MCCAUSTRALD, W., VAN HINSBERG, V., LEWICKI, J., ROUWET, D., KELLY, P., KERN, C., WERNER, C., JOHNSON, J. B., UTAMI, S. B., SYAHBANA, D. K., SAING, U., SUPARJAN, PURWANTO, B. H., SEALING, C., CRUZ, M. M., MARYANTO, S., BANI, P., LAURIN, A., SCHMID, A., BRADLEY, K., NANDAKA, I. G. M. A. & HENDRASTO, M. New insights into Kawah Ijen's volcanic system from the wet volcano workshop experiment	35
CAUDRON, C., MAURI, G., WILLIAMS-JONES, G., LECOCQ, T., SYAHBANA, D. K., DE PLAEN, R., PEIFFER, L., BERNARD, A. & SARACCO, G. New insights into the Kawah Ijen hydrothermal system from geophysical data	57
ROUWET, D., MORA-AMADOR, R., RAMÍREZ-UMAÑA, C. J., GONZÁLEZ, G. & INGUAGGIATO, S. Dynamic fluid recycling at Laguna Caliente (Poás, Costa Rica) before and during the 2006–ongoing phreatic eruption cycle (2005–10)	73
CAPACCIONI, B., ROUWET, D. & TASSI, F. HCl degassing from extremely acidic crater lakes: preliminary results from experimental determinations and implications for geochemical monitoring	97
AGUSTO, M. R., CASELLI, A., DAGA, R., VAREKAMP, J., TRINELLI, A., AFONSO, M. D. S., VELEZ, M. L., EUILLADES, P. & GUEVARA, S. R. The crater lake of Copahue volcano (Argentina): geochemical and thermal changes between 1995 and 2015	107
HERNÁNDEZ, P. A., MELIÁN, G. V., SOMOZA, L., ARPA, M. C., PÉREZ, N. M., BARISO, E., SUMINO, H., PADRÓN, E., VAREKAMP, J. C., ALBERT-BELTRAN, J. & SOLIDUM, R. The acid crater lake of Taal Volcano, Philippines: hydrogeochemical and hydroacoustic data related to the 2010–11 volcanic unrest	131
ROUWET, D. & IORIO, M. The sedimentation of Suminagashi-like floating clay patterns at El Chichón crater lake (Chiapas, Mexico)	153
Neutral lakes	
KOZONO, T., KUSAKABE, M., YOSHIDA, Y., NTCHANTCHO, R., OHBA, T., TANYILEKE, G. & HELL, J. V. Numerical assessment of the potential for future limnic eruptions at lakes Nyos and Monoun, Cameroon, based on regular monitoring data	163
OHBA, T., OOKI, S., OGNUMA, Y., KUSAKABE, M., YOSHIDA, Y., UEDA, A., ANAZAWA, K., SAIKI, K., KANEKO, K., MIYABUCHI, Y., ISSA, AKA, F., FANTONG, W., AKO, A., TANYILEKE, G. & HELL, J.V. Decreasing removal rate of the dissolved CO ₂ in Lake Nyos, Cameroon, after the installation of additional degassing pipes	177

SAIKI, K., KANEKO, K., OHBA, T., SANEMASA, M., KUSAKABE, M., NTCHANTCHO, R., FOUEPE, A., TANYILEKE, G. & HELL, J. V. Vertical distribution of dissolved CO ₂ in lakes Nyos and Monoun (Cameroon) as estimated by sound speed in water	185
SANEMASA, M., SAIKI, K., KANEKO, K., OHBA, T., KUSAKABE, M., NTCHANTCHO, R., FOUEPE, A., TANYILEKE, G. & HELL, J. V. A new method to determine dissolved CO ₂ concentration of lakes Nyos and Monoun using the sound speed and electrical conductivity of lake water	193
YOSHIDA, Y., KUSAKABE, M., ISSA, OHBA, T., TANYILEKE, G. & HELL, J. V. Decreasing capability of the degassing systems at lakes Nyos and Monoun (Cameroon): a new gas removal system applied to Lake Monoun to prevent a future limnic eruption	205
OZAWA, A., UEDA, A., FANTONG, W. Y., ANAZAWA, K., YOSHIDA, Y., KUSAKABE, M., OHBA, T., TANYILEKE, G. & HELL, J. V. Rate of siderite precipitation in Lake Nyos, Cameroon	213
ZIMMER, M., TASSI, F., VASELLI, O., KUJAWA, C., CABASSI, J. & ERZINGER, J. The gas membrane sensor (GMS) method: a new analytical approach for real-time gas concentration measurements in volcanic lakes	223
MELIÁN, G., SOMOZA, L., PADRÓN, E., PÉREZ, N. M., HERNÁNDEZ, P. A., SUMINO, H., FORJAZ, V. H. & FRANÇA, Z. Surface CO ₂ emission and rising bubble plumes from degassing of crater lakes in São Miguel Island, Azores	233
LEFKOWITZ, J. N., VAREKAMP, J. C., REYNOLDS, R. W. & THOMAS, E. A tale of two lakes: the Newberry Volcano twin crater lakes, Oregon, USA	253
Index	289