

ALESSANDRO AIUPPA

BIBLIOGRAFIA.

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Lages, J., Chacón, Z., Ramirez, J., Aiuppa, A., Arellano, S., Bitetto, M., Peña, J.O., Coppola, D., Laiolo, M., Massimetti, F., Castaño, L., Laverde, C., Tamburello, G., Giudice, G., Lopez, C.
Excess degassing drives long-term volcanic unrest at Nevado del Ruiz
(2024) Scientific Reports, 14 (1), art. no. 1230, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85182200542&doi=10.1038%2fs41598-024-51380-5&partnerID=40&md5=01724aeac28351b80756e1d58427bb95>

DOI: 10.1038/s41598-024-51380-5

Fischer, T.P., Mandon, C.L., Nowicki, S., Ericksen, J., Vilches, F.R., Pfeffer, M.A., Aiuppa, A., Bitetto, M., Vitale, A., Fricke, G.M., Moses, M.E., Stefánsson, A.
CO₂ emissions during the 2023 Litli Hrófur eruption in Reykjanes, Iceland: $\delta^{13}\text{C}$ tracks magma degassing
(2024) Bulletin of Volcanology, 86 (6), art. no. 60, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85195153517&doi=10.1007%2fs00445-024-01751-7&partnerID=40&md5=40d225775b258cba89f7381a55332690>

DOI: 10.1007/s00445-024-01751-7

Caricchi, L., Montagna, C.P., Aiuppa, A., Lages, J., Tamburello, G., Papale, P.
CO₂ Flushing Triggers Paroxysmal Eruptions at Open Conduit Basaltic Volcanoes
(2024) Journal of Geophysical Research: Solid Earth, 129 (4), art. no. e2023JB028486, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85190152527&doi=10.1029%2f2023JB028486&partnerID=40&md5=e11be97fb9b7986ce34a625180ee42eb>

DOI: 10.1029/2023JB028486

Edwards, B.A., Pfeffer, M.A., Ilyinskaya, E., Kleine-Marshall, B.I., Mandon, C.L., Cotterill, A., Aiuppa, A., Outridge, P.M., Wang, F.
Exceptionally low mercury concentrations and fluxes from the 2021 and 2022 eruptions of Fagradalsfjall volcano, Iceland
(2024) Science of the Total Environment, 917, art. no. 170457, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85184013882&doi=10.1016%2fj.scitotenv.2024.170457&partnerID=40&md5=3d6bf84ee284f2e2cdc65d60838756f7>

DOI: 10.1016/j.scitotenv.2024.170457

Lo Forte, F.M., Schiavi, F., Rose-Koga, E.F., Rotolo, S.G., Verdier-Paoletti, M., Aiuppa, A., Zanon, V.
High CO₂ in the mantle source of ocean island basanites
(2024) Geochimica et Cosmochimica Acta, 368, pp. 93-111.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85183997277&doi=10.1016%2fj.gca.2024.01.016&partnerID=40&md5=185f3dde37ffab1acddcf1c00e6234aa>

DOI: 10.1016/j.gca.2024.01.016

Lo Forte, F.M., Aiuppa, A., Costa, S.
MEETING REPORT: FIRST ITALIAN WORKSHOP ON FLUID AND MELT INCLUSIONS (Primo Workshop Nazionale sulle Inclusioni fluide e vetrose, WNI 2023)
(2024) Elements, 20 (1), p. 64.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85190896676&doi=10.2138%2fegselements.20.1.64&partnerID=40&md5=4e25a27c80c54eb3dfe050c183b93717>

DOI: 10.2138/gselements.20.1.64

Sandoval-Velasquez, A., Casetta, F., Ntaflos, T., Aiuppa, A., Coltorti, M., Frezzotti, M.L., Alonso, M., Padrón, E., Pankhurst, M., Pérez, N.M., Rizzo, A.L.
2021 Tajogaite eruption records infiltration of crustal fluids within the upper mantle beneath La Palma, Canary Islands
(2024) *Frontiers in Earth Science*, 12, art. no. 1303872, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85186257105&doi=10.3389/feart.2024.1303872&partnerID=40&md5=912970fab3777a4919c3e0e943a019f0>

DOI: 10.3389/feart.2024.1303872

Bordenca, C.V., Faccini, B., Caracausi, A., Coltorti, M., Di Muro, A., Ntaflos, T., Pik, R., Rizzo, A.L., Liuzzo, M., Aiuppa, A.
Geochemical evidence for a lithospheric origin of the Comoros Archipelago (Indian Ocean) as revealed by ultramafic mantle xenoliths from La Grille volcano
(2023) *Lithos*, 462-463, art. no. 107406, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85175294643&doi=10.1016/j.lithos.2023.107406&partnerID=40&md5=89bd8780df503041c2f76b0af785fb10>

DOI: 10.1016/j.lithos.2023.107406

Burton, M., Aiuppa, A., Allard, P., Asensio-Ramos, M., Cofrades, A.P., La Spina, A., Nicholson, E.J., Zanon, V., Barrancos, J., Bitetto, M., Hartley, M., Romero, J.E., Waters, E., Stewart, A., Hernández, P.A., Lages, J.P., Padrón, E., Wood, K., Esse, B., Hayer, C., Cyrzan, K., Rose-Koga, E.F., Schiavi, F., D'Auria, L., Pérez, N.M.
Exceptional eruptive CO₂ emissions from intra-plate alkaline magmatism in the Canary volcanic archipelago
(2023) *Communications Earth and Environment*, 4 (1), art. no. 467, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85179730158&doi=10.1038/s43247-023-01103-x&partnerID=40&md5=06c8e932911b818f35c143215cb79d19>

DOI: 10.1038/s43247-023-01103-x

Remigi, S., Frezzotti, M.-L., Rizzo, A.L., Esposito, R., Bodnar, R.J., Sandoval-Velasquez, A., Aiuppa, A.
Spatially resolved CO₂ carbon stable isotope analyses at the microscale using Raman spectroscopy
(2023) *Scientific Reports*, 13 (1), art. no. 18561, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85175268823&doi=10.1038/s41598-023-44903-z&partnerID=40&md5=b7dd2686b0eb95f597389e5a949f98b7>

DOI: 10.1038/s41598-023-44903-z

Sandoval-Velasquez, A., Rizzo, A.L., Casetta, F., Ntaflos, T., Aiuppa, A., Alonso, M., Padrón, E., Pankhurst, M.J., Mundl-Petermeier, A., Zanon, V., Pérez, N.M.
The noble gas signature of the 2021 Tajogaite eruption (La Palma, Canary Islands)
(2023) *Journal of Volcanology and Geothermal Research*, 443, art. no. 107928, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85173620380&doi=10.1016/j.jvolgeores.2023.107928&partnerID=40&md5=559e0bfdbc14af4ed712e5e7f324c5d4>

DOI: 10.1016/j.jvolgeores.2023.107928

Koenig, A.M., Magand, O., Rose, C., Di Muro, A., Miyazaki, Y., Colomb, A., Rissanen, M., Lee, C.F., Koenig, T.K., Volkamer, R., Brioude, J., Verreyken, B., Roberts, T., Edwards, B.A., Sellegri, K., Arellano, S., Kowalski, P., Aiuppa, A., Sonke, J.E., Dommergue, A.
Observed in-plume gaseous elemental mercury depletion suggests significant mercury scavenging by volcanic aerosols
(2023) *Environmental Science: Atmospheres*, 3 (10), pp. 1418-1438.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85169509696&doi=10.1039%2fd3ea00063j&partnerID=40&md5=aee78bc3fd40eb6081c3132c67db46e2>

DOI: 10.1039/d3ea00063j

Voloschina, M., Métrich, N., Bertagnini, A., Marianelli, P., Aiuppa, A., Ripepe, M., Pistolesi, M.
Explosive eruptions at Stromboli volcano (Italy): a comprehensive geochemical view on magma sources and intensity range
(2023) *Bulletin of Volcanology*, 85 (6), art. no. 34, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85158848078&doi=10.1007%2fs00445-023-01647-y&partnerID=40&md5=a7728ddc1d6dfa4c179b01db13501977>

DOI: 10.1007/s00445-023-01647-y

Aravena, A., Bevilacqua, A., Neri, A., Gabellini, P., Ferrés, D., Escobar, D., Aiuppa, A., Cioni, R.
Scenario-based probabilistic hazard assessment for explosive events at the San Salvador volcanic complex, El Salvador
(2023) *Journal of Volcanology and Geothermal Research*, 438, art. no. 107809, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85153675193&doi=10.1016%2fj.jvolgeores.2023.107809&partnerID=40&md5=5ae5fec0edce91690d79e9e15963356f>

DOI: 10.1016/j.jvolgeores.2023.107809

Marécal, V., Voisin-Plessis, R., Roberts, T.J., Aiuppa, A., Narivelo, H., Hamer, P.D., Josse, B., Guth, J., Surl, L., Grellier, L.
Halogen chemistry in volcanic plumes: a 1D framework based on MOCAGE 1D (version R1.18.1) preparing 3D global chemistry modelling
(2023) *Geoscientific Model Development*, 16 (10), pp. 2873-2898.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85163576239&doi=10.5194%2fgmd-16-2873-2023&partnerID=40&md5=26a75010883cc34c7fa29c156c633f81>

DOI: 10.5194/gmd-16-2873-2023

Taracsák, Z., Mather, T.A., Ding, S., Plank, T., Brounce, M., Pyle, D.M., Aiuppa, A., EIMF
Sulfur from the subducted slab dominates the sulfur budget of the mantle wedge under volcanic arcs
(2023) *Earth and Planetary Science Letters*, 602, art. no. 117948, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85144036363&doi=10.1016%2fj.epsl.2022.117948&partnerID=40&md5=7ac4fac87b3db26eb95471f1a1a0debe>

DOI: 10.1016/j.epsl.2022.117948

McCormick Kilbride, B.T., Nicholson, E.J., Wood, K.T., Wilkes, T.C., Schipper, C.I., Mulina, K., Itikarai, I., Richardson, T., Werner, C., Hayer, C.S.L., Esse, B., Burton, M., Pering, T.D., McGonigle, A.J.S., Coppola, D., Bitetto, M., Giudice, G., Aiuppa, A.
Temporal Variability in Gas Emissions at Bagana Volcano Revealed by Aerial, Ground, and Satellite Observations
(2023) *Geochemistry, Geophysics, Geosystems*, 24 (6), art. no. e2022GC010786, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85189893687&doi=10.1029%2f2022GC010786&partnerID=40&md5=db455faf69d2fffe2c5e993b5c5383a5>

DOI: 10.1029/2022GC010786

Aiuppa, A., Moussallam, Y.
Hydrogen and hydrogen sulphide in volcanic gases: abundance, processes, and atmospheric fluxes
(2023) *Comptes Rendus - Geoscience*, 356, pp. 1-24.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85176382046&doi=10.5802%2fcrgeos.235&partnerID=40&md5=c438b0d63f3daff31ebec1312a406cfc>

DOI: 10.5802/crgeos.235

Black, B.A., Aiuppa, A.
Carbon release from Large Igneous Province magmas estimated from trace element-gas correlations
(2023) *Volcanica*, 6 (1), pp. 129-145.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85164667085&doi=10.30909%2fvol.06.01.129145&partnerID=40&md5=e920da893a415f3a6a7651bb489f790b>

DOI: 10.30909/vol.06.01.129145

Aiuppa, A., Lo Bue Trisciuzzi, G., Alparone, S., Bitetto, M., Coltelli, M., Delle Donne, D., Ganci, G., Pecora, E.
A SO₂ flux study of the Etna volcano 2020–2021 paroxysmal sequences

(2023) *Frontiers in Earth Science*, 11, art. no. 1115111, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85161973022&doi=10.3389%2ffeart.2023.1115111&partnerID=40&md5=ccc68bd5f9e06d9b5e684c5906f789e9)

[85161973022&doi=10.3389%2ffeart.2023.1115111&partnerID=40&md5=ccc68bd5f9e06d9b5e684c5906f789e9](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85161973022&doi=10.3389%2ffeart.2023.1115111&partnerID=40&md5=ccc68bd5f9e06d9b5e684c5906f789e9)

DOI: 10.3389/feart.2023.1115111

Lo Forte, F.M., Aiuppa, A., Rotolo, S.G., Zanon, V.

Temporal evolution of the Fogo Volcano magma storage system (Cape Verde Archipelago): a fluid inclusions perspective
(2023) *Journal of Volcanology and Geothermal Research*, 433, art. no. 107730, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85145610383&doi=10.1016%2fj.jvolgeores.2022.107730&partnerID=40&md5=ec86a951ce17b3158a8f059dc0f6cba0)

[85145610383&doi=10.1016%2fj.jvolgeores.2022.107730&partnerID=40&md5=ec86a951ce17b3158a8f059dc0f6cba0](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85145610383&doi=10.1016%2fj.jvolgeores.2022.107730&partnerID=40&md5=ec86a951ce17b3158a8f059dc0f6cba0)

DOI: 10.1016/j.jvolgeores.2022.107730

Aiuppa, A., Bitetto, M., Calabrese, S., Delle Donne, D., Lages, J., La Monica, F.P., Chiodini, G., Tamburello, G., Cotterill, A., Fulignati, P., Gioncada, A., Liu, E.J., Moretti, R., Pistolesi, M.

Mafic magma feeds degassing unrest at Vulcano Island, Italy

(2022) *Communications Earth and Environment*, 3 (1), art. no. 255, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85140916237&doi=10.1038%2fs43247-022-00589-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85140916237&doi=10.1038%2fs43247-022-00589-1&partnerID=40&md5=1f871589e74b69718bf01972f30d6d68)

[1&partnerID=40&md5=1f871589e74b69718bf01972f30d6d68](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85140916237&doi=10.1038%2fs43247-022-00589-1&partnerID=40&md5=1f871589e74b69718bf01972f30d6d68)

DOI: 10.1038/s43247-022-00589-1

Delle Donne, D., Lo Coco, E., Bitetto, M., La Monica, F.P., Lacanna, G., Lages, J., Ripepe, M., Tamburello, G., Aiuppa, A.
Spatio-temporal changes in degassing behavior at Stromboli volcano derived from two co-exposed SO₂ camera stations

(2022) *Frontiers in Earth Science*, 10, art. no. 972071, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85141981974&doi=10.3389%2ffeart.2022.972071&partnerID=40&md5=fdf4ec6fa588e38e83cf4a49960b715c)

[85141981974&doi=10.3389%2ffeart.2022.972071&partnerID=40&md5=fdf4ec6fa588e38e83cf4a49960b715c](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85141981974&doi=10.3389%2ffeart.2022.972071&partnerID=40&md5=fdf4ec6fa588e38e83cf4a49960b715c)

DOI: 10.3389/feart.2022.972071

Randazzo, P., Caracausi, A., Aiuppa, A., Cardellini, C., Chiodini, G., Apollaro, C., Paternoster, M., Rosiello, A.,
Vespasiano, G.

Active degassing of crustal CO₂ in areas of tectonic collision: A case study from the Pollino and Calabria sectors (Southern Italy)

(2022) *Frontiers in Earth Science*, 10, art. no. 946707, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85139950111&doi=10.3389%2ffeart.2022.946707&partnerID=40&md5=aead92f1b1a06dacb91ca70e6b11b893)

[85139950111&doi=10.3389%2ffeart.2022.946707&partnerID=40&md5=aead92f1b1a06dacb91ca70e6b11b893](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85139950111&doi=10.3389%2ffeart.2022.946707&partnerID=40&md5=aead92f1b1a06dacb91ca70e6b11b893)

DOI: 10.3389/feart.2022.946707

Halldórsson, S.A., Marshall, E.W., Caracciolo, A., Matthews, S., Bali, E., Rasmussen, M.B., Ranta, E., Robin, J.G.,
Guðfinnsson, G.H., Sigmarsson, O., MacLennan, J., Jackson, M.G., Whitehouse, M.J., Jeon, H., van der Meer, Q.H.A.,

Mibei, G.K., Kalliokoski, M.H., Repczynska, M.M., Rúnarsdóttir, R.H., Sigurðsson, G., Pfeffer, M.A., Scott, S.W.,

Kjartansdóttir, R., Kleine, B.I., Oppenheimer, C., Aiuppa, A., Ilyinskaya, E., Bitetto, M., Giudice, G., Stefánsson, A.

Rapid shifting of a deep magmatic source at Fagradalsfjall volcano, Iceland

(2022) *Nature*, 609 (7927), pp. 529–534.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85137887596&doi=10.1038%2fs41586-022-04981-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85137887596&doi=10.1038%2fs41586-022-04981-x&partnerID=40&md5=ea9564db2e8a6a23374567a0f0d142cf)

[x&partnerID=40&md5=ea9564db2e8a6a23374567a0f0d142cf](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85137887596&doi=10.1038%2fs41586-022-04981-x&partnerID=40&md5=ea9564db2e8a6a23374567a0f0d142cf)

DOI: 10.1038/s41586-022-04981-x

Laiolo, M., Delle Donne, D., Coppola, D., Bitetto, M., Cigolini, C., Della Schiava, M., Innocenti, L., Lacanna, G., La Monica, F.P., Massimetti, F., Pistolesi, M., Silengo, M.C., Aiuppa, A., Ripepe, M.

Shallow magma dynamics at open-vent volcanoes tracked by coupled thermal and SO₂ observations

(2022) *Earth and Planetary Science Letters*, 594, art. no. 117726, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85134588622&doi=10.1016%2fj.epsl.2022.117726&partnerID=40&md5=7ef0694c44d3159e7177f3303f96c28b)

[85134588622&doi=10.1016%2fj.epsl.2022.117726&partnerID=40&md5=7ef0694c44d3159e7177f3303f96c28b](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85134588622&doi=10.1016%2fj.epsl.2022.117726&partnerID=40&md5=7ef0694c44d3159e7177f3303f96c28b)

DOI: 10.1016/j.epsl.2022.117726

Sandoval-Velasquez, A., Rizzo, A.L., Aiuppa, A., Straub, S.M., Gomez-Tuena, A., Espinasa-Perena, R.

The heterogeneity of the Mexican lithospheric mantle: Clues from noble gas and CO₂ isotopes in fluid inclusions

(2022) *Frontiers in Earth Science*, 10, art. no. 973645, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85138369860&doi=10.3389%2ffeart.2022.973645&partnerID=40&md5=67d0b9cb83dc60ea46eea53ab65db6b9)

[85138369860&doi=10.3389%2ffeart.2022.973645&partnerID=40&md5=67d0b9cb83dc60ea46eea53ab65db6b9](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85138369860&doi=10.3389%2ffeart.2022.973645&partnerID=40&md5=67d0b9cb83dc60ea46eea53ab65db6b9)

DOI: 10.3389/feart.2022.973645

Kis, B.M., Szalay, R., Aiuppa, A., Bitetto, M., Palcsu, L., Harangi, S.

Compositional measurement of gas emissions in the Eastern Carpathians (Romania) using the Multi-GAS instrument:

Approach for in situ data gathering at non-volcanic areas

(2022) *Journal of Geochemical Exploration*, 240, art. no. 107051, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85134558580&doi=10.1016%2fj.gexplo.2022.107051&partnerID=40&md5=6ac53c73c0cc17b15dbf636d0f867a74)

[85134558580&doi=10.1016%2fj.gexplo.2022.107051&partnerID=40&md5=6ac53c73c0cc17b15dbf636d0f867a74](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85134558580&doi=10.1016%2fj.gexplo.2022.107051&partnerID=40&md5=6ac53c73c0cc17b15dbf636d0f867a74)

DOI: 10.1016/j.gexplo.2022.107051

Rizzo, A.L., Robidoux, P., Aiuppa, A., Di Piazza, A.

³He/⁴He Signature of Magmatic Fluids from Telica (Nicaragua) and Baru (Panama) Volcanoes, Central American Volcanic Arc

(2022) *Applied Sciences (Switzerland)*, 12 (9), art. no. 4241, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85129270446&doi=10.3390%2fapp12094241&partnerID=40&md5=a492948a781e9dd41505a809fe9f430d)

[85129270446&doi=10.3390%2fapp12094241&partnerID=40&md5=a492948a781e9dd41505a809fe9f430d](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85129270446&doi=10.3390%2fapp12094241&partnerID=40&md5=a492948a781e9dd41505a809fe9f430d)

DOI: 10.3390/app12094241

Kern, C., Aiuppa, A., de Moor, J.M.

A golden era for volcanic gas geochemistry?

(2022) *Bulletin of Volcanology*, 84 (5), art. no. 43, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85127616077&doi=10.1007%2fs00445-022-01556-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85127616077&doi=10.1007%2fs00445-022-01556-6&partnerID=40&md5=7b711cd8312ef6c6a983492cc09916fb)

[6&partnerID=40&md5=7b711cd8312ef6c6a983492cc09916fb](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85127616077&doi=10.1007%2fs00445-022-01556-6&partnerID=40&md5=7b711cd8312ef6c6a983492cc09916fb)

DOI: 10.1007/s00445-022-01556-6

Todaro, S., Rigo, M., Di Stefano, P., Aiuppa, A., Chiaradia, M.

End-Triassic Extinction in a Carbonate Platform From Western Tethys: A Comparison Between Extinction Trends and Geochemical Variations

(2022) *Frontiers in Earth Science*, 10, art. no. 875466, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85130019448&doi=10.3389%2ffeart.2022.875466&partnerID=40&md5=51bf82c8534d2e1a37eb7612d4dba3b8)

[85130019448&doi=10.3389%2ffeart.2022.875466&partnerID=40&md5=51bf82c8534d2e1a37eb7612d4dba3b8](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85130019448&doi=10.3389%2ffeart.2022.875466&partnerID=40&md5=51bf82c8534d2e1a37eb7612d4dba3b8)

DOI: 10.3389/feart.2022.875466

Cadoux, A., Tegtmeier, S., Aiuppa, A.

Natural Halogen Emissions to the Atmosphere: Sources, Flux, and Environmental Impact

(2022) *Elements*, 18 (1), pp. 27-33.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85141284417&doi=10.2138%2fgselements.18.1.27&partnerID=40&md5=57cbf8d4e90be3f1ed21e0394582812c>

DOI: 10.2138/gselements.18.1.27

Aiuppa, A., Allard, P., Bernard, B., Lo Forte, F.M., Moretti, R., Hidalgo, S.
Gas Leakage From Shallow Ponding Magma and Trapdoor Faulting at Sierra Negra Volcano (Isabela Island, Galápagos)
(2022) *Geochemistry, Geophysics, Geosystems*, 23 (2), art. no. e2021GC010288, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85125135416&doi=10.1029%2f2021GC010288&partnerID=40&md5=eb32c500b2abdc73b2abff5d334b78d9>

DOI: 10.1029/2021GC010288

Chiodini, G., Caliro, S., Avino, R., Bagnato, E., Capecchiacci, F., Carandente, A., Cardellini, C., Minopoli, C., Tamburello, G., Tripaldi, S., Aiuppa, A.
The Hydrothermal System of the Campi Flegrei Caldera, Italy
(2022) *Active Volcanoes of the World*, pp. 239-255.
https://www.scopus.com/inward/record.uri?eid=2-s2.0-85124501621&doi=10.1007%2f978-3-642-37060-1_9&partnerID=40&md5=6b0760682251ad1870fcbb7ed51871b3

DOI: 10.1007/978-3-642-37060-1_9

Fischer, T.P., Lopez, T.M., Aiuppa, A., Rizzo, A.L., Ilanko, T., Kelley, K.A., Cottrell, E.
Gas Emissions From the Western Aleutians Volcanic Arc
(2021) *Frontiers in Earth Science*, 9, art. no. 786021, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85121988112&doi=10.3389%2ffeart.2021.786021&partnerID=40&md5=624a622e641f18e84dfc9d8d5865fd55>

DOI: 10.3389/feart.2021.786021

Ripepe, M., Lacanna, G., Pistolesi, M., Silengo, M.C., Aiuppa, A., Laiolo, M., Massimetti, F., Innocenti, L., Della Schiava, M., Bitetto, M., La Monica, F.P., Nishimura, T., Rosi, M., Mangione, D., Ricciardi, A., Genco, R., Coppola, D., Marchetti, E., Delle Donne, D.
Ground deformation reveals the scale-invariant conduit dynamics driving explosive basaltic eruptions
(2021) *Nature Communications*, 12 (1), art. no. 1683, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85103143558&doi=10.1038%2fs41467-021-21722-2&partnerID=40&md5=83b4df328494cd74dc62261911d165e6>

DOI: 10.1038/s41467-021-21722-2

Randazzo, P., Caracausi, A., Aiuppa, A., Cardellini, C., Chiodini, G., D'Alessandro, W., Li Vigni, L., Papic, P., Marinkovic, G., Ionescu, A.
Active Degassing of Deeply Sourced Fluids in Central Europe: New Evidences From a Geochemical Study in Serbia
(2021) *Geochemistry, Geophysics, Geosystems*, 22 (11), art. no. e2021GC010017, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85119875473&doi=10.1029%2f2021GC010017&partnerID=40&md5=d109aa56878524c8613a7d0742862cdd>

DOI: 10.1029/2021GC010017

Sandoval-Velasquez, A., Rizzo, A.L., Aiuppa, A., Remigi, S., Padrón, E., Pérez, N.M., Frezzotti, M.L.
Recycled crustal carbon in the depleted mantle source of El Hierro volcano, Canary Islands
(2021) *Lithos*, 400-401, art. no. 106414, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85113229469&doi=10.1016%2fj.lithos.2021.106414&partnerID=40&md5=f11dd92139ff1a92acbd17af0c552531>

DOI: 10.1016/j.lithos.2021.106414

Bani, P., Nauret, F., Oppenheimer, C., Aiuppa, A., Saing, B.U., Haerani, N., Alfianti, H., Marlia, M., Tsanev, V.
Heterogeneity of volatile sources along the Halmahera arc, Indonesia
(2021) *Journal of Volcanology and Geothermal Research*, 418, art. no. 107342, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85109639250&doi=10.1016%2fj.jvolgeores.2021.107342&partnerID=40&md5=f9b355d4109954baa2ca440207d59bcf>

DOI: 10.1016/j.jvolgeores.2021.107342

Aiuppa, A., Bitetto, M., Donne, D.D., la Monica, F.P., Tamburello, G., Coppola, D., Schiava, M.D., Innocenti, L., Lacanna, G., Laiolo, M., Massimetti, F., Pistolesi, M., Silengo, M.C., Ripepe, M.
Volcanic CO₂ tracks the incubation period of basaltic paroxysms
(2021) *Science Advances*, 7 (38), art. no. eabh0191, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85115805217&doi=10.1126%2fsciadv.abh0191&partnerID=40&md5=8251ab6db39fc61abb01a01ccc89712b>

DOI: 10.1126/sciadv.abh0191

Aiuppa, A., Casetta, F., Coltorti, M., Stagno, V., Tamburello, G.
Carbon concentration increases with depth of melting in Earth's upper mantle
(2021) *Nature Geoscience*, 14 (9), pp. 697-703.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85111931157&doi=10.1038%2fs41561-021-00797-y&partnerID=40&md5=1c1d12672b1f7ab5ceb5a40500610a8f>

DOI: 10.1038/s41561-021-00797-y

Sandoval-Velasquez, A., Rizzo, A.L., Frezzotti, M.L., Saucedo, R., Aiuppa, A.
The composition of fluids stored in the central Mexican lithospheric mantle: Inferences from noble gases and CO₂ in mantle xenoliths
(2021) *Chemical Geology*, 576, art. no. 120270, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85107401529&doi=10.1016%2fj.chemgeo.2021.120270&partnerID=40&md5=0b8bdf7966f67ce0d4a0a640e70f540>

DOI: 10.1016/j.chemgeo.2021.120270

Chiodini, G., Caliro, S., Avino, R., Bini, G., Giudicepietro, F., De Cesare, W., Ricciolino, P., Aiuppa, A., Cardellini, C., Petrillo, Z., Selva, J., Siniscalchi, A., Tripaldi, S.
Hydrothermal pressure-temperature control on CO₂ emissions and seismicity at Campi Flegrei (Italy)
(2021) *Journal of Volcanology and Geothermal Research*, 414, art. no. 107245, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85103691418&doi=10.1016%2fj.jvolgeores.2021.107245&partnerID=40&md5=e93c10280401323dd9e13ca78d9ad697>

DOI: 10.1016/j.jvolgeores.2021.107245

Bevilacqua, A., Aravena, A., Neri, A., Gutiérrez, E., Escobar, D., Schliz, M., Aiuppa, A., Cioni, R.
Thematic vent opening probability maps and hazard assessment of small-scale pyroclastic density currents in the San Salvador volcanic complex (El Salvador) and Nejapa-Chiltepe volcanic complex (Nicaragua)
(2021) *Natural Hazards and Earth System Sciences*, 21 (5), pp. 1639-1665.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85106997028&doi=10.5194%2fnhess-21-1639-2021&partnerID=40&md5=291dbc255eb13d8b50ac5e7a46f64d5b>

DOI: 10.5194/nhess-21-1639-2021

Liu, E.J., Wood, K., Aiuppa, A., Giudice, G., Bitetto, M., Fischer, T.P., McCormick Kilbride, B.T., Plank, T., Hart, T.
Correction to: Volcanic activity and gas emissions along the South Sandwich Arc (*Bulletin of Volcanology*, (2021), 83, 1, (3), 10.1007/s00445-020-01415-2)
(2021) *Bulletin of Volcanology*, 83 (4), art. no. 22, .

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85102205348&doi=10.1007%2fs00445-021-01436-5&partnerID=40&md5=1d4f265fe56112a9a70e19dba253c1e9>

DOI: 10.1007/s00445-021-01436-5

Lages, J., Rizzo, A.L., Aiuppa, A., Samaniego, P., Le Pennec, J.L., Ceballos, J.A., Narváez, P.A., Moussallam, Y., Bani, P., Schipper, C.I., Hidalgo, S., Gaglio, V., Alberti, E., Sandoval-Velasquez, A.
Noble gas magmatic signature of the Andean Northern Volcanic Zone from fluid inclusions in minerals
(2021) *Chemical Geology*, 559, art. no. 119966, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096360805&doi=10.1016%2fj.chemgeo.2020.119966&partnerID=40&md5=4c046332f85fae01311b91f81738f947>

DOI: 10.1016/j.chemgeo.2020.119966

Lages, J., Rizzo, A.L., Aiuppa, A., Robidoux, P., Aguilar, R., Apaza, F., Masias, P.
Crustal controls on light noble gas isotope variability along the andean volcanic arc
(2021) *Geochemical Perspectives Letters*, 19, pp. 45-49.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85120911543&doi=10.7185%2fgeochemlet.2134&partnerID=40&md5=9635fd2c3ff66ac5f4a42d6cf3a4cf43>

DOI: 10.7185/geochemlet.2134

Liu, E.J., Wood, K., Aiuppa, A., Giudice, G., Bitetto, M., Fischer, T.P., McCormick Kilbride, B.T., Plank, T., Hart, T.
Volcanic activity and gas emissions along the South Sandwich Arc
(2021) *Bulletin of Volcanology*, 83 (1), art. no. 3, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85097510245&doi=10.1007%2fs00445-020-01415-2&partnerID=40&md5=0ef26c855979b05c24a66198ed0558f2>

DOI: 10.1007/s00445-020-01415-2

Aiuppa, A., Hall-Spencer, J.M., Milazzo, M., Turco, G., Caliro, S., Di Napoli, R.
Volcanic CO₂ seep geochemistry and use in understanding ocean acidification
(2021) *Biogeochemistry*, 152 (1), pp. 93-115.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85097398862&doi=10.1007%2fs10533-020-00737-9&partnerID=40&md5=a48c9fe5f3f8e0f2555cf1ef0d7b2f0c>

DOI: 10.1007/s10533-020-00737-9

Kunrat, S., Bani, P., Haerani, N., Saing, U.B., Aiuppa, A., Syahbana, D.K.
First gas and thermal measurements at the frequently erupting Gamalama volcano (Indonesia) reveal a hydrothermally dominated magmatic system
(2020) *Journal of Volcanology and Geothermal Research*, 407, art. no. 107096, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096560276&doi=10.1016%2fj.jvolgeores.2020.107096&partnerID=40&md5=9089fb1c491a3d7c0cd01980515379c4>

DOI: 10.1016/j.jvolgeores.2020.107096

Apollaro, C., Caracausi, A., Paternoster, M., Randazzo, P., Aiuppa, A., De Rosa, R., Fuoco, I., Mongelli, G., Muto, F., Vanni, E., Vespasiano, G.
Fluid geochemistry in a low-enthalpy geothermal field along a sector of southern Apennines chain (Italy)
(2020) *Journal of Geochemical Exploration*, 219, art. no. 106618, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089998452&doi=10.1016%2fj.gexplo.2020.106618&partnerID=40&md5=6e17dfa106d439b0f3da3787e8a7f55d>

DOI: 10.1016/j.gexplo.2020.106618

Pering, T.D., Liu, E.J., Wood, K., Wilkes, T.C., Aiuppa, A., Tamburello, G., Bitetto, M., Richardson, T., McGonigle, A.J.S.

Author Correction: Combined ground and aerial measurements resolve vent-specific gas fluxes from a multi-vent volcanic system (Nature Communications, (2020), 11, 1, (3039), 10.1038/s41467-020-16862-w)
(2020) Nature Communications, 11 (1), art. no. 3756, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088393198&doi=10.1038%2fs41467-020-17658-8&partnerID=40&md5=9c065e556cce9a22a09801db6ff3360a>

DOI: 10.1038/s41467-020-17658-8

Pering, T.D., Liu, E.J., Wood, K., Wilkes, T.C., Aiuppa, A., Tamburello, G., Bitetto, M., Richardson, T., McGonigle, A.J.S. Combined ground and aerial measurements resolve vent-specific gas fluxes from a multi-vent volcano
(2020) Nature Communications, 11 (1), art. no. 3039, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086571036&doi=10.1038%2fs41467-020-16862-w&partnerID=40&md5=273a5c59300def09cb3e594818b8b0b4>

DOI: 10.1038/s41467-020-16862-w

Bani, P., Glas, E.L., Kristianto, Aiuppa, A., Bitetto, M., Syahbana, D.K. Elevated CO₂ emissions during magmatic-hydrothermal degassing at Awu Volcano, Sangihe Arc, Indonesia
(2020) Geosciences (Switzerland), 10 (11), art. no. 470, pp. 1-14.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096615439&doi=10.3390%2fgeosciences10110470&partnerID=40&md5=3e9f0df7020a8d01d2c3743fb5885b50>

DOI: 10.3390/geosciences10110470

Liu, E.J., Aiuppa, A., Alan, A., Arellano, S., Bitetto, M., Bobrowski, N., Carn, S., Clarke, R., Corrales, E., De Moor, J.M., Diaz, J.A., Edmonds, M., Fischer, T.P., Freer, J., Fricke, G.M., Galle, B., Gerdes, G., Giudice, G., Gutmann, A., Hayer, C., Itikarai, I., Jones, J., Mason, E., McCormick Kilbride, B.T., Mulina, K., Nowicki, S., Rahilly, K., Richardson, T., Rüdiger, J., Schipper, C.I., Watson, I.M., Wood, K. Aerial strategies advance volcanic gas measurements at inaccessible, strongly degassing volcanoes
(2020) Science Advances, 6 (44), art. no. abb9103, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092772466&doi=10.1126%2fsciadv.abb9103&partnerID=40&md5=dcfebecbaf7f531ce5469eacd3b146aa>

DOI: 10.1126/sciadv.abb9103

Wood, K., Liu, E.J., Richardson, T., Clarke, R., Freer, J., Aiuppa, A., Giudice, G., Bitetto, M., Mulina, K., Itikarai, I. BVLOS UAS Operations in Highly-Turbulent Volcanic Plumes
(2020) Frontiers in Robotics and AI, 7, art. no. 549716, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85095814316&doi=10.3389%2ffrobt.2020.549716&partnerID=40&md5=cbcb98e68af4769bdecf01810fbcf1de>

DOI: 10.3389/frobt.2020.549716

Lages, J., Moussallam, Y., Bani, P., Peters, N., Aiuppa, A., Bitetto, M., Giudice, G. First in-situ measurements of plume chemistry at mount garet volcano, island of gaua (Vanuatu)
(2020) Applied Sciences (Switzerland), 10 (20), art. no. 7293, pp. 1-15.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092767494&doi=10.3390%2fapp10207293&partnerID=40&md5=93d67292bf721941f5d0898ba50f0d4b>

DOI: 10.3390/app10207293

Robidoux, P., Rizzo, A.L., Aguilera, F., Aiuppa, A., Artale, M., Liuzzo, M., Nazzari, M., Zummo, F. Petrological and noble gas features of Lascar and Lastarria volcanoes (Chile): Inferences on plumbing systems and mantle characteristics
(2020) Lithos, 370-371, art. no. 105615, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086725359&doi=10.1016%2fj.lithos.2020.105615&partnerID=40&md5=e9c7f77627cc5897dff07354400c84d4>

DOI: 10.1016/j.lithos.2020.105615

Parracino, S., Santoro, S., Fiorani, L., Nuvoli, M., Maio, G., Aiuppa, A.
The bridge volcanic LIdar-BILLI: A review of data collection and processing techniques in the Italian most hazardous volcanic areas
(2020) Applied Sciences (Switzerland), 10 (18), art. no. 6402, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091953583&doi=10.3390%2fAPP10186402&partnerID=40&md5=62cde28bd964ce71278a179a8d6eaf79>

DOI: 10.3390/APP10186402

Ilanko, T., Pering, T.D., Wilkes, T.C., Woitischek, J., D'Aleo, R., Aiuppa, A., McGonigle, A.J.S., Edmonds, M., Garaebiti, E.
Ultraviolet camera measurements of passive and explosive (Strombolian) sulphur dioxide emissions at Yasur Volcano, Vanuatu
(2020) Remote Sensing, 12 (17), art. no. 2703, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090549158&doi=10.3390%2fRS12172703&partnerID=40&md5=85a54ad6e2ef57400d3c1193393ceaca>

DOI: 10.3390/RS12172703

Woitischek, J., Woods, A.W., Edmonds, M., Oppenheimer, C., Aiuppa, A., Pering, T.D., Ilanko, T., D'Aleo, R., Garaebiti, E.
Strombolian eruptions and dynamics of magma degassing at Yasur Volcano (Vanuatu)
(2020) Journal of Volcanology and Geothermal Research, 398, art. no. 106869, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085203545&doi=10.1016%2fj.jvolgeores.2020.106869&partnerID=40&md5=b2bbe13ae39166d66aa406ae033b8c05>

DOI: 10.1016/j.jvolgeores.2020.106869

Aiuppa, A., Bitetto, M., Rizzo, A.L., Viveiros, F., Allard, P., Frezzotti, M.L., Valenti, V., Zanon, V.
The fumarolic CO₂ output from pico do fogo volcano (Cape Verde)
(2020) Italian Journal of Geosciences, 39 (3), pp. 325-340.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090464358&doi=10.3301%2fIJG.2020.03&partnerID=40&md5=1353cffffc00af650d185b64a8af0856a>

DOI: 10.3301/IJG.2020.03

Saing, U.B., Bani, P., Haerani, N., Aiuppa, A., Primulyana, S., Alfianti, H., Syahbana, D.K., Kristianto
First characterization of Gamkonora gas emission, North Maluku, East Indonesia
(2020) Bulletin of Volcanology, 82 (5), art. no. 37, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083792664&doi=10.1007%2fs00445-020-01375-7&partnerID=40&md5=b0cc6c71279163401e8f189da8dfd6d1>

DOI: 10.1007/s00445-020-01375-7

Fischer, T.P., Aiuppa, A.
AGU Centennial Grand Challenge: Volcanoes and Deep Carbon Global CO₂ Emissions From Subaerial Volcanism—Recent Progress and Future Challenges
(2020) Geochemistry, Geophysics, Geosystems, 21 (3), art. no. e2019GC008690, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082527389&doi=10.1029%2f2019GC008690&partnerID=40&md5=3cae91f3465e9cf67f290d355b2b69f3>

DOI: 10.1029/2019GC008690

Gudjónsdóttir, S.R., Ilyinskaya, E., Hreinsdóttir, S., Bergsson, B., Pfeffer, M.A., Michalczyewska, K., Aiuppa, A., Óladóttir, A.A.

Gas emissions and crustal deformation from the Krýsuvík high temperature geothermal system, Iceland

(2020) *Journal of Volcanology and Geothermal Research*, 391, art. no. 106350, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046167003&doi=10.1016%2Fj.jvolgeores.2018.04.007&partnerID=40&md5=ea8104b40cf94d21c0d46ee37b99bccc)

[85046167003&doi=10.1016%2Fj.jvolgeores.2018.04.007&partnerID=40&md5=ea8104b40cf94d21c0d46ee37b99bccc](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046167003&doi=10.1016%2Fj.jvolgeores.2018.04.007&partnerID=40&md5=ea8104b40cf94d21c0d46ee37b99bccc)

DOI: 10.1016/j.jvolgeores.2018.04.007

Fischer, T.P., Arellano, S., Carn, S., Aiuppa, A., Galle, B., Allard, P., Lopez, T., Shinohara, H., Kelly, P., Werner, C., Cardellini, C., Chiodini, G.

The emissions of CO₂ and other volatiles from the world's subaerial volcanoes

(2019) *Scientific Reports*, 9 (1), art. no. 18716, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076372750&doi=10.1038%2Fs41598-019-54682-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076372750&doi=10.1038%2Fs41598-019-54682-1&partnerID=40&md5=bc094edd4e0e41da0dbf02e9667f266d)

[1&partnerID=40&md5=bc094edd4e0e41da0dbf02e9667f266d](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076372750&doi=10.1038%2Fs41598-019-54682-1&partnerID=40&md5=bc094edd4e0e41da0dbf02e9667f266d)

DOI: 10.1038/s41598-019-54682-1

Aiuppa, A., Fischer, T.P., Plank, T., Bani, P.

CO₂ flux emissions from the Earth's most actively degassing volcanoes, 2005–2015

(2019) *Scientific Reports*, 9 (1), art. no. 5442, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063733515&doi=10.1038%2Fs41598-019-41901-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063733515&doi=10.1038%2Fs41598-019-41901-y&partnerID=40&md5=a6c2f4118718febac8c3ea5887d8876)

[y&partnerID=40&md5=a6c2f4118718febac8c3ea5887d8876](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063733515&doi=10.1038%2Fs41598-019-41901-y&partnerID=40&md5=a6c2f4118718febac8c3ea5887d8876)

DOI: 10.1038/s41598-019-41901-y

Lages, J., Chacón, Z., Burbano, V., Meza, L., Arellano, S., Liuzzo, M., Giudice, G., Aiuppa, A., Bitetto, M., López, C.

Volcanic Gas Emissions Along the Colombian Arc Segment of the Northern Volcanic Zone (CAS-NVZ): Implications for volcano monitoring and volatile budget of the Andean Volcanic Belt

(2019) *Geochemistry, Geophysics, Geosystems*, 20 (11), pp. 5057–5081.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075424326&doi=10.1029%2F2019GC008573&partnerID=40&md5=585aadca17fb940f39f35643222e090a)

[85075424326&doi=10.1029%2F2019GC008573&partnerID=40&md5=585aadca17fb940f39f35643222e090a](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075424326&doi=10.1029%2F2019GC008573&partnerID=40&md5=585aadca17fb940f39f35643222e090a)

DOI: 10.1029/2019GC008573

Hasselle, N., Montalvo, F., Rouwet, D., Battaglia, A., Bitetto, M., Escobar, D., Gutiérrez, E., Rivera, J., Villalobos, A.M., Cioni, R., de Moor, J.M., Fischer, T.P., Aiuppa, A.

The crater lake of Ilamatepec (Santa Ana) volcano, El Salvador: insights into lake gas composition and implications for monitoring

(2019) *Bulletin of Volcanology*, 81 (11), art. no. 66, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074837900&doi=10.1007%2Fs00445-019-1331-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074837900&doi=10.1007%2Fs00445-019-1331-8&partnerID=40&md5=a7b5461d186293299ea621551d4526cb)

[8&partnerID=40&md5=a7b5461d186293299ea621551d4526cb](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074837900&doi=10.1007%2Fs00445-019-1331-8&partnerID=40&md5=a7b5461d186293299ea621551d4526cb)

DOI: 10.1007/s00445-019-1331-8

Tamburello, G., Caliro, S., Chiodini, G., De Martino, P., Avino, R., Minopoli, C., Carandente, A., Rouwet, D., Aiuppa, A., Costa, A., Bitetto, M., Giudice, G., Francoforte, V., Ricci, T., Sciarra, A., Bagnato, E., Capecchiacci, F.

Escalating CO₂ degassing at the Pisciarelli fumarolic system, and implications for the ongoing Campi Flegrei unrest

(2019) *Journal of Volcanology and Geothermal Research*, 384, pp. 151–157.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069881188&doi=10.1016%2Fj.jvolgeores.2019.07.005&partnerID=40&md5=242b432bcdab5991d1920810319a7339)

[85069881188&doi=10.1016%2Fj.jvolgeores.2019.07.005&partnerID=40&md5=242b432bcdab5991d1920810319a7339](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069881188&doi=10.1016%2Fj.jvolgeores.2019.07.005&partnerID=40&md5=242b432bcdab5991d1920810319a7339)

DOI: 10.1016/j.jvolgeores.2019.07.005

Donne, D.D., Aiuppa, A., Bitetto, M., D'Aleo, R., Coltelli, M., Coppola, D., Pecora, E., Ripepe, M., Tamburello, G.

Changes in SO₂ Flux regime at mt. etna captured by automatically processed ultraviolet camera data

(2019) *Remote Sensing*, 11 (10), art. no. 1201, .

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066764284&doi=10.3390%2frs11101201&partnerID=40&md5=0bb025b6b39339155956c05523990f63>

DOI: 10.3390/rs11101201

de Moor, J.M., Stix, J., Avar, G., Muller, C., Corrales, E., Diaz, J.A., Alan, A., Brenes, J., Pacheco, J., Aiuppa, A., Fischer, T.P.

Insights on Hydrothermal-Magmatic Interactions and Eruptive Processes at Poás Volcano (Costa Rica) From High-Frequency Gas Monitoring and Drone Measurements

(2019) *Geophysical Research Letters*, 46 (3), pp. 1293-1302.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061186462&doi=10.1029%2f2018GL080301&partnerID=40&md5=cc76dcc90b992c5307e8e83cfa5fda0>

DOI: 10.1029/2018GL080301

Schipper, C.I., Castro, J.M., Kennedy, B.M., Christenson, B.W., Aiuppa, A., Alloway, B., Forte, P., Seropian, G., Tuffen, H.

Halogen (Cl, F) and sulphur release during explosive, effusive, and intrusive phases of the 2011 rhyolitic eruption at Cordón Caulle volcano (Chile)

(2019) *Volcanica*, 2 (1), pp. 73-90.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075396552&doi=10.30909%2fvol.02.01.7390&partnerID=40&md5=1ca20cb2fd983a4119a76b51b3ba9357>

DOI: 10.30909/vol.02.01.7390

Liu, E.J., Wood, K., Mason, E., Edmonds, M., Aiuppa, A., Giudice, G., Bitetto, M., Francofonte, V., Burrow, S., Richardson, T., Watson, M., Pering, T.D., Wilkes, T.C., McGonigle, A.J.S., Velasquez, G., Melgarejo, C., Bucarey, C. Dynamics of Outgassing and Plume Transport Revealed by Proximal Unmanned Aerial System (UAS) Measurements at Volcán Villarrica, Chile

(2019) *Geochemistry, Geophysics, Geosystems*, 20 (2), pp. 730-750.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061065681&doi=10.1029%2f2018GC007692&partnerID=40&md5=98e334735dd2d040b7ea6f74fb85b9c2>

DOI: 10.1029/2018GC007692

Battaglia, A., de Moor, J.M., Aiuppa, A., Avar, G., Bakkar, H., Bitetto, M., Mora Fernández, M.M., Kelly, P., Giudice, G., Delle Donne, D., Villalobos, H.

Insights into the mechanisms of phreatic eruptions from continuous high frequency volcanic gas monitoring: Rincón de la Vieja Volcano, Costa Rica

(2019) *Frontiers in Earth Science*, 6, art. no. 247, .

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062189702&doi=10.3389%2ffeart.2018.00247&partnerID=40&md5=a052f927670f4f02076a2b94ad25a42f>

DOI: 10.3389/feart.2018.00247

D'aleo, R., Bitetto, M., Donne, D.D., Coltelli, M., Coppola, D., Kilbride, B.M., Pecora, E., Ripepe, M., Salem, L.C., Tamburello, G., Aiuppa, A.

Understanding the SO₂ degassing budget of Mt Etna's paroxysms: First clues from the december 2015 sequence

(2019) *Frontiers in Earth Science*, 6, art. no. 239, .

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060223748&doi=10.3389%2ffeart.2018.00239&partnerID=40&md5=a4fd39c6478793845527e5ba251cf834>

DOI: 10.3389/feart.2018.00239

Werner, C., Fischer, T.P., Aiuppa, A., Edmonds, M., Cardellini, C., Carn, S., Chiodini, G., Cottrell, E., Burton, M., Shinohara, H., Allard, P.

Carbon Dioxide Emissions from Subaerial Volcanic Regions: Two Decades in Review

(2019) Deep Carbon: Past to Present, pp. 188-236.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85133088411&partnerID=40&md5=dfa9f175b4ed06304ee7a182e43563b9>

Robidoux, P., Frezzotti, M.L., Hauri, E.H., Aiuppa, A.
Shrinkage bubbles: The C-O-H-S magmatic fluid system at San Cristóbal Volcano
(2018) *Journal of Petrology*, 59 (11), pp. 2093-2122.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060946787&doi=10.1093%2fpetrology%2fegy092&partnerID=40&md5=190c613c92f69ac309fe626a2910be47>

DOI: 10.1093/petrology/egy092

Cadoux, A., Iacono-Marziano, G., Scaillet, B., Aiuppa, A., Mather, T.A., Pyle, D.M., Deloule, E., Gennaro, E., Paonita, A.
The role of melt composition on aqueous fluid vs. silicate melt partitioning of bromine in magmas
(2018) *Earth and Planetary Science Letters*, 498, pp. 450-463.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050486204&doi=10.1016%2fj.epsl.2018.06.038&partnerID=40&md5=0202a95abef5c8219260440045fd0a2e>

DOI: 10.1016/j.epsl.2018.06.038

Chiaradia, M., Pujol-Solà, N., Farré-de-Pablo, J., Aiuppa, A., Paonita, A., Rizzo, A.L., Brusca, L.
Geochemistry and isotope composition (Sr, Pb, $\delta^{66}\text{Zn}$) of Vulcano fumaroles (Aeolian Islands, Italy)
(2018) *Chemical Geology*, 493, pp. 153-171.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048542522&doi=10.1016%2fj.chemgeo.2018.05.038&partnerID=40&md5=1c2d62b3cb315280ec07d4bfc735afba>

DOI: 10.1016/j.chemgeo.2018.05.038

Hasselle, N., Rouwet, D., Aiuppa, A., Jácome-Paz, M.P., Pfeffer, M., Taran, Y., Campion, R., Bitetto, M., Giudice, G., Bergsson, B.
Sulfur Degassing From Steam-Heated Crater Lakes: El Chichón (Chiapas, Mexico) and Viti (Iceland)
(2018) *Geophysical Research Letters*, 45 (15), pp. 7504-7513.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052556073&doi=10.1029%2f2018GL079012&partnerID=40&md5=f80a5472f833b611f4f7f55dc904695c>

DOI: 10.1029/2018GL079012

Lopez, T., Aguilera, F., Tassi, F., Maarten de Moor, J., Bobrowski, N., Aiuppa, A., Tamburello, G., Rizzo, A.L., Liuzzo, M., Viveiros, F., Cardellini, C., Silva, C., Fischer, T., Jean-Baptiste, P., Kazayaha, R., Hidalgo, S., Malowany, K., Lucic, G., Bagnato, E., Bergsson, B., Reath, K., Liotta, M., Carn, S., Chiodini, G.
New insights into the magmatic-hydrothermal system and volatile budget of Lastarria volcano, Chile: Integrated results from the 2014 IAVCEI CCGV 12th Volcanic Gas Workshop
(2018) *Geosphere*, 14 (3), pp. 983-1007.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047723917&doi=10.1130%2fGES01495.1&partnerID=40&md5=93dd96f0f8d0b96cef29760eaade0b68>

DOI: 10.1130/GES01495.1

Moretti, R., Métrich, N., Arienzo, I., Di Renzo, V., Aiuppa, A., Allard, P.
Degassing vs. eruptive styles at Mt. Etna volcano (Sicily, Italy). Part I: Volatile stocking, gas fluxing, and the shift from low-energy to highly explosive basaltic eruptions
(2018) *Chemical Geology*, 482, pp. 1-17.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041013999&doi=10.1016%2fj.chemgeo.2017.09.017&partnerID=40&md5=58d43e131a6b569ea1fe37164f7047ac>

DOI: 10.1016/j.chemgeo.2017.09.017

Moussallam, Y., Bani, P., Schipper, C.I., Cardona, C., Franco, L., Barnie, T., Amigo, Á., Curtis, A., Peters, N., Aiuppa, A., Giudice, G., Oppenheimer, C.

Unrest at the Nevados de Chillán volcanic complex: A failed or yet to unfold magmatic eruption?

(2018) *Volcanica*, 1 (1), pp. 19-32.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067188639&doi=10.30909%2fvol.01.01.1932&partnerID=40&md5=10bd1cdece0737b3df7f2fc7acd4831d)

[85067188639&doi=10.30909%2fvol.01.01.1932&partnerID=40&md5=10bd1cdece0737b3df7f2fc7acd4831d](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067188639&doi=10.30909%2fvol.01.01.1932&partnerID=40&md5=10bd1cdece0737b3df7f2fc7acd4831d)

DOI: 10.30909/vol.01.01.1932

Battaglia, A., Bitetto, M., Aiuppa, A., Rizzo, A.L., Chigna, G., Watson, I.M., D'Aleo, R., Juárez Cacao, F.J., de Moor, M.J.

The Magmatic Gas Signature of Pacaya Volcano, With Implications for the Volcanic CO₂ Flux From Guatemala

(2018) *Geochemistry, Geophysics, Geosystems*, 19 (3), pp. 667-692.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045520016&doi=10.1002%2f2017GC007238&partnerID=40&md5=29fd1213b7b8b8b854b8729b215efeb6)

[85045520016&doi=10.1002%2f2017GC007238&partnerID=40&md5=29fd1213b7b8b8b854b8729b215efeb6](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045520016&doi=10.1002%2f2017GC007238&partnerID=40&md5=29fd1213b7b8b8b854b8729b215efeb6)

DOI: 10.1002/2017GC007238

Aiuppa, A., de Moor, J.M., Arellano, S., Coppola, D., Francofonte, V., Galle, B., Giudice, G., Liuzzo, M., Mendoza, E.,

Saballos, A., Tamburello, G., Battaglia, A., Bitetto, M., Gurrieri, S., Laiolo, M., Mastrolia, A., Moretti, R.

Tracking Formation of a Lava Lake From Ground and Space: Masaya Volcano (Nicaragua), 2014–2017

(2018) *Geochemistry, Geophysics, Geosystems*, 19 (2), pp. 496-515.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044244853&doi=10.1002%2f2017GC007227&partnerID=40&md5=6b6b3ea40b5e8356872e52ca69d398bb)

[85044244853&doi=10.1002%2f2017GC007227&partnerID=40&md5=6b6b3ea40b5e8356872e52ca69d398bb](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044244853&doi=10.1002%2f2017GC007227&partnerID=40&md5=6b6b3ea40b5e8356872e52ca69d398bb)

DOI: 10.1002/2017GC007227

Roberts, T.J., Vignelles, D., Liuzzo, M., Giudice, G., Aiuppa, A., Coltelli, M., Salerno, G., Chartier, M., Couté, B., Berthet, G., Lurton, T., Dulac, F., Renard, J.-B.

The primary volcanic aerosol emission from Mt Etna: Size-resolved particles with SO₂ and role in plume reactive halogen chemistry

(2018) *Geochimica et Cosmochimica Acta*, 222, pp. 74-93.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032721212&doi=10.1016%2fj.gca.2017.09.040&partnerID=40&md5=fa05cd0b6535c1ed2aacbca95d179c7c)

[85032721212&doi=10.1016%2fj.gca.2017.09.040&partnerID=40&md5=fa05cd0b6535c1ed2aacbca95d179c7c](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032721212&doi=10.1016%2fj.gca.2017.09.040&partnerID=40&md5=fa05cd0b6535c1ed2aacbca95d179c7c)

DOI: 10.1016/j.gca.2017.09.040

Pfeffer, M.A., Bergsson, B., Barsotti, S., Stefánsdóttir, G., Galle, B., Arellano, S., Conde, V., Donovan, A., Ilyinskaya, E.,

Burton, M., Aiuppa, A., Whitty, R.C.W., Simmons, I.C., Arason, Þ., Jónasdóttir, E.B., Keller, N.S., Yeo, R.F.,

Arngrímsson, H., Jóhannsson, Þ., Butwin, M.K., Askew, R.A., Dumont, S., Von Löwis, S., Ingvarsson, Þ., La Spina, A.,

Thomas, H., Prata, F., Grassa, F., Giudice, G., Stefánsson, A., Marzano, F., Montopoli, M., Mereu, L.

Ground-Based measurements of the 2014-2015 holuhraun volcanic cloud (Iceland)

(2018) *Geosciences (Switzerland)*, 8 (1), art. no. 29, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040967502&doi=10.3390%2fgeosciences8010029&partnerID=40&md5=a0d547a397c812f31e0731e6ede8df25)

[85040967502&doi=10.3390%2fgeosciences8010029&partnerID=40&md5=a0d547a397c812f31e0731e6ede8df25](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040967502&doi=10.3390%2fgeosciences8010029&partnerID=40&md5=a0d547a397c812f31e0731e6ede8df25)

DOI: 10.3390/geosciences8010029

Aiuppa, A., Gaillard, F.

Volcanic gases

(2018) *Encyclopedia of Earth Sciences Series*, pp. 1476-1479.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051853176&partnerID=40&md5=825e52c734e596e1e9e588f6584c9eaf)

[85051853176&partnerID=40&md5=825e52c734e596e1e9e588f6584c9eaf](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051853176&partnerID=40&md5=825e52c734e596e1e9e588f6584c9eaf)

Bani, P., Tamburello, G., Rose-Koga, E.F., Liuzzo, M., Aiuppa, A., Cluzel, N., Amat, I., Syahbana, D.K., Gunawan, H., Bitetto, M.

Dukono, the predominant source of volcanic degassing in Indonesia, sustained by a depleted Indian-MORB
(2018) *Bulletin of Volcanology*, 80 (1), art. no. 5, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85037610707&doi=10.1007%2fs00445-017-1178-9&partnerID=40&md5=20e08aaf55667603d46130a98ff227e6>

DOI: 10.1007/s00445-017-1178-9

Pering, T.D., McGonigle, A.J.S., James, M.R., Capponi, A., Lane, S.J., Tamburello, G., Aiuppa, A.
The dynamics of slug trains in volcanic conduits: Evidence for expansion driven slug coalescence
(2017) *Journal of Volcanology and Geothermal Research*, 348, pp. 26-35.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85032208274&doi=10.1016%2fj.jvolgeores.2017.10.009&partnerID=40&md5=94b2a5b84acf8bac5916c916d2a44de6>

DOI: 10.1016/j.jvolgeores.2017.10.009

de Moor, J.M., Kem, C., Avard, G., Muller, C., Aiuppa, A., Saballos, A., Ibarra, M., LaFemina, P., Protti, M., Fischer, T.P.
A New Sulfur and Carbon Degassing Inventory for the Southern Central American Volcanic Arc: The Importance of
Accurate Time-Series Data Sets and Possible Tectonic Processes Responsible for Temporal Variations in Arc-Scale Volatile
Emissions
(2017) *Geochemistry, Geophysics, Geosystems*, 18 (12), pp. 4437-4468.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85040709845&doi=10.1002%2f2017GC007141&partnerID=40&md5=8ac6a650273d7c8f90d1b9bf2bdf7e74>

DOI: 10.1002/2017GC007141

Chiodini, G., Giudicepietro, F., Vandemeulebrouck, J., Aiuppa, A., Caliro, S., De Cesare, W., Tamburello, G., Avino, R.,
Orazi, M., D'Auria, L.
Fumarolic tremor and geochemical signals during a volcanic unrest
(2017) *Geology*, 45 (12), pp. 1131-1134.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85034661868&doi=10.1130%2fG39447.1&partnerID=40&md5=b028186c408450e261516cfbc30ff1a8>

DOI: 10.1130/G39447.1

Lopez, T., Tassi, F., Aiuppa, A., Galle, B., Rizzo, A.L., Fiebig, J., Capecchiacci, F., Giudice, G., Caliro, S., Tamburello, G.
Geochemical constraints on volatile sources and subsurface conditions at Mount Martin, Mount Mageik, and Trident
Volcanoes, Katmai Volcanic Cluster, Alaska
(2017) *Journal of Volcanology and Geothermal Research*, 347, pp. 64-81.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029754899&doi=10.1016%2fj.jvolgeores.2017.09.001&partnerID=40&md5=1006c9a61f6982ebe2a7de730982548d>

DOI: 10.1016/j.jvolgeores.2017.09.001

Pering, T.D., McGonigle, A.J.S., Tamburello, G., Aiuppa, A., Bitetto, M., Rubino, C., Wilkes, T.C.
Reply to Kern, C. The difficulty of measuring the absorption of scattered sunlight by H₂O and CO₂ in volcanic plumes: A
comment on pering, et al. "A novel and inexpensive method for measuring volcanic plumewater fluxes at high temporal
resolution", *Remote Sens.* 2017, 9, 146
(2017) *Remote Sensing*, 9 (10), art. no. 1040, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85049196216&doi=10.3390%2frs9101040&partnerID=40&md5=57bd6d537185fa88233f09aef342fa0b>

DOI: 10.3390/rs9101040

Roberts, T.J., Lurton, T., Giudice, G., Liuzzo, M., Aiuppa, A., Coltelli, M., Vignelles, D., Salerno, G., Couté, B., Chartier,
M., Baron, R., Saffell, J.R., Scaillet, B.
Erratum to: Validation of a novel Multi-Gas sensor for volcanic HCl alongside H₂S and SO₂ at Mt. Etna (*Bulletin of
Volcanology*, (2017), 79, 5, (36), 10.1007/s00445-017-1114-z)

(2017) Bulletin of Volcanology, 79 (9), art. no. 66, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027395449&doi=10.1007%2fs00445-017-1148-2&partnerID=40&md5=1b734000a803da5096cb92172f88cdad>

DOI: 10.1007/s00445-017-1148-2

Moussallam, Y., Tamburello, G., Peters, N., Apaza, F., Schipper, C.I., Curtis, A., Aiuppa, A., Masias, P., Boichu, M., Bauduin, S., Barnie, T., Bani, P., Giudice, G., Moussallam, M.
Volcanic gas emissions and degassing dynamics at Ubinas and Sabancaya volcanoes; implications for the volatile budget of the central volcanic zone
(2017) Journal of Volcanology and Geothermal Research, 343, pp. 181-191.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85021701991&doi=10.1016%2fj.jvolgeores.2017.06.027&partnerID=40&md5=4ee1f7b7f28a0b2ae16706dc9fdd0a3b>

DOI: 10.1016/j.jvolgeores.2017.06.027

McGonigle, A.J.S., Pering, T.D., Wilkes, T.C., Tamburello, G., D'Aleo, R., Bitetto, M., Aiuppa, A., Willmott, J.R.
Ultraviolet imaging of volcanic plumes: A new paradigm in volcanology
(2017) Geosciences (Switzerland), 7 (3), art. no. 68, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85027337392&doi=10.3390%2fgeosciences7030068&partnerID=40&md5=035505aa9dbee9ea8faf8d8893df2fd1>

DOI: 10.3390/geosciences7030068

Schipper, C.I., Moussallam, Y., Curtis, A., Peters, N., Barnie, T., Bani, P., Jost, H.J., Hamilton, D., Aiuppa, A., Tamburello, G., Giudice, G.
Isotopically ($\delta^{13}\text{C}$ and $\delta^{18}\text{O}$) heavy volcanic plumes from Central Andean volcanoes: a field study
(2017) Bulletin of Volcanology, 79 (8), art. no. 65, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026744571&doi=10.1007%2fs00445-017-1146-4&partnerID=40&md5=bdeea060d133a486d3ed055091c7e8d3>

DOI: 10.1007/s00445-017-1146-4

Bani, P., Alfianti, H., Aiuppa, A., Oppenheimer, C., Sitingjak, P., Tsanev, V., Saing, U.B.
First study of the heat and gas budget for Sirung volcano, Indonesia
(2017) Bulletin of Volcanology, 79 (8), art. no. 60, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85024118473&doi=10.1007%2fs00445-017-1142-8&partnerID=40&md5=986930467b01f6b1e9a51927e4d8a65b>

DOI: 10.1007/s00445-017-1142-8

Robidoux, P., Rotolo, S.G., Aiuppa, A., Lanzo, G., Hauri, E.H.
Geochemistry and volatile content of magmas feeding explosive eruptions at Telica volcano (Nicaragua)
(2017) Journal of Volcanology and Geothermal Research, 341, pp. 131-148.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019659865&doi=10.1016%2fj.jvolgeores.2017.05.007&partnerID=40&md5=63fa3ea7b4a2a84912858109ad3c3a5e>

DOI: 10.1016/j.jvolgeores.2017.05.007

Aiuppa, A., Bitetto, M., Francofonte, V., Velasquez, G., Parra, C.B., Giudice, G., Liuzzo, M., Moretti, R., Moussallam, Y., Peters, N., Tamburello, G., Valderrama, O.A., Curtis, A.
A CO₂-gas precursor to the March 2015 Villarrica volcano eruption
(2017) Geochemistry, Geophysics, Geosystems, 18 (6), pp. 2120-2132.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020651451&doi=10.1002%2f2017GC006892&partnerID=40&md5=001e11b35cb0b46413981444500f456a>

DOI: 10.1002/2017GC006892

Delle Donne, D., Tamburello, G., Aiuppa, A., Bitetto, M., Lacanna, G., D'Aleo, R., Ripepe, M.
Exploring the explosive-effusive transition using permanent ultraviolet cameras
(2017) *Journal of Geophysical Research: Solid Earth*, 122 (6), pp. 4377-4394.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85020544212&doi=10.1002%2f2017JB014027&partnerID=40&md5=88f8a2be320bae9c07e13bfdaf0b3448>

DOI: 10.1002/2017JB014027

Moussallam, Y., Peters, N., Masias, P., Apaza, F., Barnie, T., Ian Schipper, C., Curtis, A., Tamburello, G., Aiuppa, A., Bani, P., Giudice, G., Pieri, D., Davies, A.G., Oppenheimer, C.
Magmatic gas percolation through the old lava dome of El Misti volcano
(2017) *Bulletin of Volcanology*, 79 (6), art. no. 46, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019729861&doi=10.1007%2fs00445-017-1129-5&partnerID=40&md5=79a407595ec5355d97f7e9025eb27e48>

DOI: 10.1007/s00445-017-1129-5

Roberts, T.J., Lurton, T., Giudice, G., Liuzzo, M., Aiuppa, A., Coltelli, M., Vignelles, D., Salerno, G., Couté, B., Chartier, M., Baron, R., Saffell, J.R., Scaillet, B.
Validation of a novel Multi-Gas sensor for volcanic HCl alongside H₂S and SO₂ at Mt. Etna
(2017) *Bulletin of Volcanology*, 79 (5), art. no. 36, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017553230&doi=10.1007%2fs00445-017-1114-z&partnerID=40&md5=6da99196cb27e5e7549d66a1410b42ab>

DOI: 10.1007/s00445-017-1114-z

Aiuppa, A., Fischer, T.P., Plank, T., Robidoux, P., Di Napoli, R.
Along-arc, inter-arc and arc-to-arc variations in volcanic gas CO₂/ST ratios reveal dual source of carbon in arc volcanism
(2017) *Earth-Science Reviews*, 168, pp. 24-47.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016010843&doi=10.1016%2fj.earscirev.2017.03.005&partnerID=40&md5=5c55f4431269de22f724e99ee923964f>

DOI: 10.1016/j.earscirev.2017.03.005

Tulet, P., Di Muro, A., Colomb, A., Denjean, C., Duflot, V., Arellano, S., Foucart, B., Brioude, J., Sellegri, K., Peltier, A., Aiuppa, A., Barthe, C., Bhugwant, C., Bielli, S., Boissier, P., Boudoire, G., Bourrianne, T., Brunet, C., Burnet, F., Cammas, J.-P., Gabarro, F., Galle, B., Giudice, G., Guadagno, C., Jeamblu, F., Kowalski, P., Leclair De Bellevue, J., Marquestaut, N., Mékies, D., Metzger, J.-M., Pianezze, J., Portafaix, T., Sciare, J., Tournigand, A., Villeneuve, N.
First results of the Piton de la Fournaise STRAP 2015 experiment: Multidisciplinary tracking of a volcanic gas and aerosol plume
(2017) *Atmospheric Chemistry and Physics*, 17 (8), pp. 5355-5378.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018183925&doi=10.5194%2facp-17-5355-2017&partnerID=40&md5=b71b17f2d06841fd6563f5ef5b24a74d>

DOI: 10.5194/acp-17-5355-2017

Parracino, S., Santoro, S., Maio, G., Nuvoli, M., Aiuppa, A., Fiorani, L.
Fast tracking of wind speed with a differential absorption LiDAR system: First results of an experimental campaign at Stromboli volcano
(2017) *Optical Engineering*, 56 (4), art. no. 044104, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85021695476&doi=10.1117%2f1.OE.56.4.044104&partnerID=40&md5=a008b28681d0151bf07c02531b83343e>

DOI: 10.1117/1.OE.56.4.044104

Coppola, D., Di Muro, A., Peltier, A., Villeneuve, N., Ferrazzini, V., Favalli, M., Bachèlery, P., Gurioli, L., Harris, A.J.L., Moune, S., Vlastélic, I., Galle, B., Arellano, S., Aiuppa, A.
Shallow system rejuvenation and magma discharge trends at Piton de la Fournaise volcano (La Réunion Island)
(2017) *Earth and Planetary Science Letters*, 463, pp. 13-24.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85011085616&doi=10.1016%2Fj.epsl.2017.01.024&partnerID=40&md5=6bea01fe1324e9a3d10a28cd24187aee>

DOI: 10.1016/j.epsl.2017.01.024

Cadoux, A., Iacono-Marziano, G., Paonita, A., Deloule, E., Aiuppa, A., Nelson Eby, G., Costa, M., Brusca, L., Berlo, K., Geraki, K., Mather, T.A., Pyle, D.M., Di Carlo, I.
A new set of standards for in-situ measurement of bromine abundances in natural silicate glasses: Application to SR-XRF, LA-ICP-MS and SIMS techniques
(2017) *Chemical Geology*, 452, pp. 60-70.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85011396928&doi=10.1016%2Fj.chemgeo.2017.01.012&partnerID=40&md5=b61dc42845aa7b8ed9b2021d0683793a>

DOI: 10.1016/j.chemgeo.2017.01.012

Santoro, S., Parracino, S., Fiorani, L., D'Aleo, R., Di Ferdinando, E., Giudice, G., Maio, G., Nuvoli, M., Aiuppa, A.
Volcanic plume CO₂ flux measurements at mount etna by mobile differential absorption lidar
(2017) *Geosciences (Switzerland)*, 7 (1), art. no. 9, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016129951&doi=10.3390%2Fgeosciences7010009&partnerID=40&md5=5bf4c55da3c347cc8b3f9d16e82af093>

DOI: 10.3390/geosciences7010009

Aiuppa, A., Fiorani, L., Santoro, S., Parracino, S., D'Aleo, R., Liuzzo, M., Maio, G., Nuvoli, M.
New advances in dial-lidar-based remote sensing of the volcanic CO₂ flux
(2017) *Frontiers in Earth Science*, 5, art. no. 15, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016089861&doi=10.3389%2Ffeart.2017.00015&partnerID=40&md5=774f75bddb43667af6a32f9889a1a798>

DOI: 10.3389/feart.2017.00015

Robidoux, P., Aiuppa, A., Rotolo, S.G., Rizzo, A.L., Hauri, E.H., Frezzotti, M.L.
Volatile contents of mafic-to-intermediate magmas at San Cristóbal volcano in Nicaragua
(2017) *Lithos*, 272-273, pp. 147-163.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85008702780&doi=10.1016%2Fj.lithos.2016.12.002&partnerID=40&md5=a346f3c623f20b0b0ef56a5482f60545>

DOI: 10.1016/j.lithos.2016.12.002

Pering, T.D., McGonigle, A.J.S., Tamburello, G., Aiuppa, A., Bitetto, M., Rubino, C., Wilkes, T.C.
A novel and inexpensive method for measuring volcanic plume water fluxes at high temporal resolution
(2017) *Remote Sensing*, 9 (2), art. no. 146, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85013677936&doi=10.3390%2Frs9020146&partnerID=40&md5=af91efceb806cbdcc7d83336ddc8b993>

DOI: 10.3390/rs9020146

Chiodini, G., Paonita, A., Aiuppa, A., Costa, A., Caliro, S., De Martino, P., Acocella, V., Vandemeulebrouck, J.
Magmas near the critical degassing pressure drive volcanic unrest towards a critical state
(2016) *Nature Communications*, 7, art. no. 13712, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85007004941&doi=10.1038%2Fnncomms13712&partnerID=40&md5=c5e36e8d31c729e01d40339c37220909>

DOI: 10.1038/ncomms13712

Moussallam, Y., Bani, P., Curtis, A., Barnie, T., Moussallam, M., Peters, N., Schipper, C.I., Aiuppa, A., Giudice, G., Amigo, Á., Velasquez, G., Cardona, C.

Sustaining persistent lava lakes: Observations from high-resolution gas measurements at Villarrica volcano, Chile (2016) *Earth and Planetary Science Letters*, 454, pp. 237-247.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84992345010&doi=10.1016%2fj.epsl.2016.09.012&partnerID=40&md5=f2873047f7b1be1c5b7ca64aa4f881b9)

[84992345010&doi=10.1016%2fj.epsl.2016.09.012&partnerID=40&md5=f2873047f7b1be1c5b7ca64aa4f881b9](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84992345010&doi=10.1016%2fj.epsl.2016.09.012&partnerID=40&md5=f2873047f7b1be1c5b7ca64aa4f881b9)

DOI: 10.1016/j.epsl.2016.09.012

Di Napoli, R., Aiuppa, A., Sulli, A., Caliro, S., Chiodini, G., Acocella, V., Ciraolo, G., Di Vito, M.A., Interbartolo, F., Nasello, C., Valenza, M.

Hydrothermal fluid venting in the offshore sector of Campi Flegrei caldera: A geochemical, geophysical, and volcanological study

(2016) *Geochemistry, Geophysics, Geosystems*, 17 (10), pp. 4153-4178.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84996957325&doi=10.1002%2f2016GC006494&partnerID=40&md5=281ef354a18ff00466baf376b48959db)

[84996957325&doi=10.1002%2f2016GC006494&partnerID=40&md5=281ef354a18ff00466baf376b48959db](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84996957325&doi=10.1002%2f2016GC006494&partnerID=40&md5=281ef354a18ff00466baf376b48959db)

DOI: 10.1002/2016GC006494

Delle Donne, D., Ripepe, M., Lacanna, G., Tamburello, G., Bitetto, M., Aiuppa, A.

Gas mass derived by infrasound and UV cameras: Implications for mass flow rate

(2016) *Journal of Volcanology and Geothermal Research*, 325, pp. 169-178.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84977660099&doi=10.1016%2fj.jvolgeores.2016.06.015&partnerID=40&md5=5b5aa9ed27df6a1c6948204c61cace75)

[84977660099&doi=10.1016%2fj.jvolgeores.2016.06.015&partnerID=40&md5=5b5aa9ed27df6a1c6948204c61cace75](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84977660099&doi=10.1016%2fj.jvolgeores.2016.06.015&partnerID=40&md5=5b5aa9ed27df6a1c6948204c61cace75)

DOI: 10.1016/j.jvolgeores.2016.06.015

Fiorani, L., Santoro, S., Parracino, S., Maio, G., Nuvoli, M., Aiuppa, A.

Early detection of volcanic hazard by lidar measurement of carbon dioxide

(2016) *Natural Hazards*, 83, pp. 21-29.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957641859&doi=10.1007%2fs11069-016-2209-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957641859&doi=10.1007%2fs11069-016-2209-0&partnerID=40&md5=1c65810011f90fba75fe848f6d9daf2)

[0&partnerID=40&md5=1c65810011f90fba75fe848f6d9daf2](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957641859&doi=10.1007%2fs11069-016-2209-0&partnerID=40&md5=1c65810011f90fba75fe848f6d9daf2)

DOI: 10.1007/s11069-016-2209-0

Allard, P., Aiuppa, A., Bani, P., Métrich, N., Bertagnini, A., Gauthier, P.-J., Shinohara, H., Sawyer, G., Parello, F., Bagnato, E., Pelletier, B., Garaebiti, E.

Prodigious emission rates and magma degassing budget of major, trace and radioactive volatile species from Ambrym basaltic volcano, Vanuatu island Arc

(2016) *Journal of Volcanology and Geothermal Research*, 322, pp. 119-143.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84994509585&doi=10.1016%2fj.jvolgeores.2015.10.004&partnerID=40&md5=ff38afa24fcb96302720095da43efa6c)

[84994509585&doi=10.1016%2fj.jvolgeores.2015.10.004&partnerID=40&md5=ff38afa24fcb96302720095da43efa6c](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84994509585&doi=10.1016%2fj.jvolgeores.2015.10.004&partnerID=40&md5=ff38afa24fcb96302720095da43efa6c)

DOI: 10.1016/j.jvolgeores.2015.10.004

Jean-Baptiste, P., Allard, P., Fourré, E., Bani, P., Calabrese, S., Aiuppa, A., Gauthier, P.J., Parello, F., Pelletier, B., Garaebiti, E.

Spatial distribution of helium isotopes in volcanic gases and thermal waters along the Vanuatu (New Hebrides) volcanic arc

(2016) *Journal of Volcanology and Geothermal Research*, 322, pp. 20-29.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84994312393&doi=10.1016%2fj.jvolgeores.2015.09.026&partnerID=40&md5=1b3cc67cf9b9a22f332a9ed0c74a627a)

[84994312393&doi=10.1016%2fj.jvolgeores.2015.09.026&partnerID=40&md5=1b3cc67cf9b9a22f332a9ed0c74a627a](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84994312393&doi=10.1016%2fj.jvolgeores.2015.09.026&partnerID=40&md5=1b3cc67cf9b9a22f332a9ed0c74a627a)

DOI: 10.1016/j.jvolgeores.2015.09.026

de Moor, J.M., Aiuppa, A., Avard, G., Wehrmann, H., Dunbar, N., Muller, C., Tamburello, G., Giudice, G., Liuzzo, M., Moretti, R., Conde, V., Galle, B.
Turmoil at Turrialba Volcano (Costa Rica): Degassing and eruptive processes inferred from high-frequency gas monitoring
(2016) *Journal of Geophysical Research: Solid Earth*, 121 (8), pp. 5761-5775.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84983520162&doi=10.1002%2f2016JB013150&partnerID=40&md5=ba9627e5f4496c36775412c4ba2fb3c3>

DOI: 10.1002/2016JB013150

D'Aleo, R., Bitetto, M., Delle Donne, D., Tamburello, G., Battaglia, A., Coltelli, M., Patanè, D., Prestifilippo, M., Sciotto, M., Aiuppa, A.
Spatially resolved SO₂ flux emissions from Mt Etna
(2016) *Geophysical Research Letters*, 43 (14), pp. 7511-7519.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979782577&doi=10.1002%2f2016GL069938&partnerID=40&md5=d7deed9517a04d1e773720c965471ff4>

DOI: 10.1002/2016GL069938

Gudmundsson, M.T., Jónsdóttir, K., Hooper, A., Holohan, E.P., Halldórsson, S.A., Ófeigsson, B.G., Cesca, S., Vogfjörð, K.S., Sigmundsson, F., Högnadóttir, T., Einarsson, P., Sigmarsson, O., Jarosch, A.H., Jónasson, K., Magnússon, E., Hreinsdóttir, S., Bagnardi, M., Parks, M.M., Hjörleifsdóttir, V., Pálsson, F., Walter, T.R., Schöpfer, M.P.J., Heimann, S., Reynolds, H.I., Dumont, S., Bali, E., Gudfinnsson, G.H., Dahm, T., Roberts, M.J., Hensch, M., Belart, J.M.C., Spaans, K., Jakobsson, S., Gudmundsson, G.B., Fridriksdóttir, H.M., Drouin, V., Dürig, T., Adalgeirsdóttir, G., Riishuus, M.S., Pedersen, G.B.M., Van Boeckel, T., Oddsson, B., Pfeffer, M.A., Barsotti, S., Bergsson, B., Donovan, A., Burton, M.R., Aiuppa, A.
Gradual caldera collapse at Bárðarbunga volcano, Iceland, regulated by lateral magma outflow
(2016) *Science*, 353 (6296), art. no. aaf8988, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978402488&doi=10.1126%2fscience.aaf8988&partnerID=40&md5=9aaf7181ca109227ca5aecea0f9dd542>

DOI: 10.1126/science.aaf8988

Peltier, A., Beauducel, F., Villeneuve, N., Ferrazzini, V., Di Muro, A., Aiuppa, A., Derrien, A., Jourde, K., Taisne, B.
Deep fluid transfer evidenced by surface deformation during the 2014-2015 unrest at Piton de la Fournaise volcano
(2016) *Journal of Volcanology and Geothermal Research*, 321, pp. 140-148.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84966783502&doi=10.1016%2fj.jvolgeores.2016.04.031&partnerID=40&md5=5868571909bfb0fb28a34d0ba06f8ad4c>

DOI: 10.1016/j.jvolgeores.2016.04.031

de Moor, J.M., Aiuppa, A., Pacheco, J., Avard, G., Kern, C., Liuzzo, M., Martínez, M., Giudice, G., Fischer, T.P.
Short-period volcanic gas precursors to phreatic eruptions: Insights from Poás Volcano, Costa Rica
(2016) *Earth and Planetary Science Letters*, 442, pp. 218-227.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961798362&doi=10.1016%2fj.epsl.2016.02.056&partnerID=40&md5=d07ee464290941a3f7bb70df8e0a296d>

DOI: 10.1016/j.epsl.2016.02.056

Di Napoli, R., Aiuppa, A., Bergsson, B., Ilyinskaya, E., Pfeffer, M.A., Guðjónsdóttir, S.R., Valenza, M.
Reaction path models of magmatic gas scrubbing
(2016) *Chemical Geology*, 420, pp. 251-269.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84949008409&doi=10.1016%2fj.chemgeo.2015.11.024&partnerID=40&md5=0cd81a40b462bfaee2d879da24bf19e9>

DOI: 10.1016/j.chemgeo.2015.11.024

Di Muro, A., Métrich, N., Allard, P., Aiuppa, A., Burton, M., Galle, B., Staudacher, T.

Magma degassing at piton de la fournaise volcano
(2016) *Active Volcanoes of the World*, pp. 203-222.
https://www.scopus.com/inward/record.uri?eid=2-s2.0-85051885760&doi=10.1007%2f978-3-642-31395-0_12&partnerID=40&md5=9aac730fa203fb0cfb7c72426fb2ff27

DOI: 10.1007/978-3-642-31395-0_12

Pering, T.D., McGonigle, A.J.S., James, M.R., Tamburello, G., Aiuppa, A., Delle Donne, D., Ripepe, M.
Conduit dynamics and post explosion degassing on Stromboli: A combined UV camera and numerical modeling treatment
(2016) *Geophysical Research Letters*, 43 (10), pp. 5009-5016.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84971344170&doi=10.1002%2f2016GL069001&partnerID=40&md5=7295014503f5d73844bb675f6ea8beac>

DOI: 10.1002/2016GL069001

Aiuppa, A., Lo Coco, E., Liuzzo, M., Giudice, G., Giuffrida, G., Moretti, R.
Terminal Strombolian activity at Etna's central craters during summer 2012: The most CO₂-rich volcanic gas ever recorded at Mount Etna
(2016) *Geochemical Journal*, 50 (2), pp. 123-138.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962626255&doi=10.2343%2fgeochemj.2.0395&partnerID=40&md5=2a303e191649e70a7623d1ec1f1cb89a>

DOI: 10.2343/geochemj.2.0395

Pedone, M., Viveiros, F., Aiuppa, A., Giudice, G., Grassa, F., Gagliano, A.L., Francofonte, V., Ferreira, T.
Total (fumarolic+diffuse soil) CO₂ output from Furnas volcano
(2015) *Earth, Planets and Space*, 67 (1), art. no. 174, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84945304050&doi=10.1186%2fs40623-015-0345-5&partnerID=40&md5=53aa8f8b33c2c2c107f68d20b4d4f14a>

DOI: 10.1186/s40623-015-0345-5

Aiuppa, A., Bani, P., Moussallam, Y., Di Napoli, R., Allard, P., Gunawan, H., Hendrasto, M., Tamburello, G.
First determination of magma-derived gas emissions from Bromo volcano, eastern Java (Indonesia)
(2015) *Journal of Volcanology and Geothermal Research*, 304, pp. 206-213.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84941893718&doi=10.1016%2fj.jvolgeores.2015.09.008&partnerID=40&md5=4d50c5c3e31f8a4658295c72a6c4d5da>

DOI: 10.1016/j.jvolgeores.2015.09.008

Tamburello, G., Caselli, A., Tassi, F., Vaselli, O., Calabrese, S., Rouwet, D., Capaccioni, B., Di Napoli, R., Cardellini, C., Chiodini, G., Bitetto, M., Brusca, L., Bellomo, S., Aiuppa, A.
Intense magmatic degassing through the lake of Copahue volcano, 2013-2014
(2015) *Journal of Geophysical Research: Solid Earth*, 120 (9), pp. 6071-6084.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84945481662&doi=10.1002%2f2015JB012160&partnerID=40&md5=8f66157cad4a6ea40deb22c31328161a>

DOI: 10.1002/2015JB012160

Aiuppa, A., Fiorani, L., Santoro, S., Parracino, S., Nuvoli, M., Chiodini, G., Minopoli, C., Tamburello, G.
New ground-based lidar enables volcanic CO₂ flux measurements
(2015) *Scientific Reports*, 5, art. no. 13614, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84940706301&doi=10.1038%2fsrep13614&partnerID=40&md5=3837ab6cb17b014bb3d38524ce8378fd>

DOI: 10.1038/srep13614

Ilyinskaya, E., Aiuppa, A., Bergsson, B., Di Napoli, R., Fridriksson, T., Óladóttir, A.A., Óskarsson, F., Grassa, F., Pfeffer, M., Lechner, K., Yeo, R., Giudice, G.
Degassing regime of Hekla volcano 2012-2013
(2015) *Geochimica et Cosmochimica Acta*, 159, pp. 80-99.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84926466943&doi=10.1016%2fj.gca.2015.01.013&partnerID=40&md5=964fca29f6cf011c3f1f8c5b4bac0a6c>

DOI: 10.1016/j.gca.2015.01.013

Fiorani, L., Santoro, S., Parracino, S., Nuvoli, M., Minopoli, C., Aiuppa, A.
Volcanic CO₂ detection with a DFM/OPA-based lidar
(2015) *Optics Letters*, 40 (6), pp. 1034-1036.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962245677&doi=10.1364%2fOL.40.001034&partnerID=40&md5=17e2c8e48ab0393bce0e752c03f84eb5>

DOI: 10.1364/OL.40.001034

Surl, L., Donohoue, D., Aiuppa, A., Bobrowski, N., Von Glasow, R.
Quantification of the depletion of ozone in the plume of Mount Etna
(2015) *Atmospheric Chemistry and Physics*, 15 (5), pp. 2613-2628.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84924346342&doi=10.5194%2facp-15-2613-2015&partnerID=40&md5=e5db8e344ef76dd69af1dfaeb9e66ca1>

DOI: 10.5194/acp-15-2613-2015

Paoletti, V., Langella, G., Di Napoli, R., Amoresano, A., Meo, S., Pecoraino, G., Aiuppa, A.
A tool for evaluating geothermal power exploitability and its application to Ischia, Southern Italy
(2015) *Applied Energy*, 139, pp. 303-312.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84918826209&doi=10.1016%2fj.apenergy.2014.11.009&partnerID=40&md5=41e8ed22f499c614c05b98321ae2598f>

DOI: 10.1016/j.apenergy.2014.11.009

Bobrowski, N., von Glasow, R., Giuffrida, G.B., Tedesco, D., Aiuppa, A., Yalire, M., Arellano, S., Johansson, M., Galle, B.
Gas emission strength and evolution of the molar ratio of BrO/SO₂ in the plume of Nyiragongo in comparison to Etna
(2015) *Journal of Geophysical Research*, 120 (1), pp. 277-291.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84922056018&doi=10.1002%2f2013JD021069&partnerID=40&md5=fb6f8dba962da64223b4de3c343ca7d1>

DOI: 10.1002/2013JD021069

Saccorotti, G., Iguchi, M., Aiuppa, A.
In situ Volcano Monitoring: Present and Future
(2015) *Volcanic Hazards, Risks and Disasters*, pp. 169-202.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988020182&doi=10.1016%2fB978-0-12-396453-3.00007-1&partnerID=40&md5=f3b53d96c22e3a61a84a8becc84b002a>

DOI: 10.1016/B978-0-12-396453-3.00007-1

Chiodini, G., Pappalardo, L., Aiuppa, A., Caliro, S.
The geological CO₂ degassing history of a long-lived caldera
(2015) *Geology*, 43 (9), pp. 767-770.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84949527440&doi=10.1130%2fG36905.1&partnerID=40&md5=8c2234ee5f5596da3d4b5c802b4f40ac>

DOI: 10.1130/G36905.1

Aiuppa, A.
Volcanic-gas monitoring
(2015) *Volcanism and Global Environmental Change*, pp. 81-96.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84941895037&doi=10.1017%2fCBO9781107415683.009&partnerID=40&md5=b51db6234c4500ed4600a3a80f9c5d58>

DOI: 10.1017/CBO9781107415683.009

Gfslason, S.R., Stefánsdóttir, G., Pfeffer, M.A., Barsotti, S., Jóhannsson, Th., Galeczka, I., Bali, E., Sigmarsson, O., Stefánsson, A., Keller, N.S., Sigurdsson, Á., Bergsson, B., Galle, B., Jacobo, V.C., Arellano, S., Aiuppa, A., Jónasdóttir, E.B., Eiríksdóttir, E.S., Jakobsson, S., Guðfinnsson, G.H., Halldórsson, S.A., Gunnarsson, H., Haddadi, B., Jónsdóttir, I., Thordarson, Th., Riishuus, M., Högnadóttir, Th., Dürig, T., Pedersen, G.B.M., Höskuldsson, Á., Gudmundsson, M.T.
Environmental pressure from the 2014-15 eruption of Barðarbunga volcano, Iceland
(2015) *Geochemical Perspectives Letters*, 1 (1), pp. 84-93.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84941761287&doi=10.7185%2fgeochemlet.1509&partnerID=40&md5=c51c86c6dfb8ffa7ec463b4d4736871a>

DOI: 10.7185/geochemlet.1509

Fiorani, L., Santoro, S., Parracino, S., Maio, G., Del Franco, M., Aiuppa, A.
Lidar detection of carbon dioxide in volcanic plumes
(2015) *Proceedings of SPIE - The International Society for Optical Engineering*, 9535, art. no. 95350N, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84938942318&doi=10.1117%2f12.2192724&partnerID=40&md5=667ea7a3009f17e42e3e37d842c7cfa3>

DOI: 10.1117/12.2192724

Moussallam, Y., Peters, N., Ramírez, C., Oppenheimer, C., Aiuppa, A., Giudice, G.
Characterisation of the magmatic signature in gas emissions from Turrialba Volcano, Costa Rica
(2014) *Solid Earth*, 5 (2), pp. 1341-1350.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84919681881&doi=10.5194%2fse-5-1341-2014&partnerID=40&md5=f79ba378cb2b203030b5aa11f6a25b00>

DOI: 10.5194/se-5-1341-2014

Aiuppa, A., Robidoux, P., Tamburello, G., Conde, V., Galle, B., Avard, G., Bagnato, E., De Moor, J.M., Martínez, M., Muñoz, A.
Gas measurements from the Costa Rica-Nicaragua volcanic segment suggest possible along-arc variations in volcanic gas chemistry
(2014) *Earth and Planetary Science Letters*, 407, pp. 134-147.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84907979947&doi=10.1016%2fj.epsl.2014.09.041&partnerID=40&md5=dcaee94b72160d7c625a3fd235de4ca0>

DOI: 10.1016/j.epsl.2014.09.041

Conde, V., Robidoux, P., Avard, G., Galle, B., Aiuppa, A., Muñoz, A., Giudice, G.
Erratum to: Measurements of volcanic SO₂ and CO₂ fluxes by combined DOAS, Multi-GAS and FTIR observations: a case study from Turrialba and Telica volcanoes (*Int J Earth Sci (Geol Rundsch)*, 10.1007/s00531-014-1040-7)
(2014) *International Journal of Earth Sciences*, 103 (8), p. 2349.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84957975896&doi=10.1007%2fs00531-014-1051-4&partnerID=40&md5=a147b269e1294032634ba758dc7e409c>

DOI: 10.1007/s00531-014-1051-4

Conde, V., Robidoux, P., Avard, G., Galle, B., Aiuppa, A., Muñoz, A., Giudice, G.
Measurements of volcanic SO₂ and CO₂ fluxes by combined DOAS, Multi-GAS and FTIR observations: a case study from Turrialba and Telica volcanoes

(2014) International Journal of Earth Sciences, 103 (8), pp. 2335-2347.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84939881681&doi=10.1007%2fs00531-014-1040-7&partnerID=40&md5=772136c47033254360ea4d3de0c9c353>

DOI: 10.1007/s00531-014-1040-7

Allard, P., Aiuppa, A., Beatuducel, F., Gaudin, D., Di Napoli, R., Calabrese, S., Parello, F., Crispi, O., Hammouya, G., Tamburello, G.

Steam and gas emission rate from La Soufriere volcano, Guadeloupe (Lesser Antilles): Implications for the magmatic supply during degassing unrest

(2014) Chemical Geology, 384, pp. 76-93.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84904512931&doi=10.1016%2fj.chemgeo.2014.06.019&partnerID=40&md5=648f15cc59b9a8b645a27a3cc8bb4b24>

DOI: 10.1016/j.chemgeo.2014.06.019

Jean-Baptiste, P., Allard, P., Fourré, E., Parello, F., Aiuppa, A.

Helium isotope systematics of volcanic gases and thermal waters of Guadeloupe Island, Lesser Antilles

(2014) Journal of Volcanology and Geothermal Research, 283, pp. 66-72.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84904767770&doi=10.1016%2fj.jvolgeores.2014.07.003&partnerID=40&md5=abdb8173da420689041e3bcf1b5b4dcd>

DOI: 10.1016/j.jvolgeores.2014.07.003

Tamburello, G., Hansteen, T.H., Bredemeyer, S., Aiuppa, A., Tassi, F.

Gas emissions from five volcanoes in northern Chile and implications for the volatiles budget of the Central Volcanic Zone

(2014) Geophysical Research Letters, 41 (14), pp. 4961-4969.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84904784334&doi=10.1002%2f2014GL060653&partnerID=40&md5=a708b4bf871594b4de9127dd72f6a9be>

DOI: 10.1002/2014GL060653

Pering, T.D., Tamburello, G., McGonigle, A.J.S., Aiuppa, A., James, M.R., Lane, S.J., Sciotto, M., Cannata, A., Patanè, D.

Dynamics of mild strombolian activity on Mt. Etna

(2014) Journal of Volcanology and Geothermal Research, 300, pp. 103-111.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84953356511&doi=10.1016%2fj.jvolgeores.2014.12.013&partnerID=40&md5=abe962f17fac514834583adf82031818>

DOI: 10.1016/j.jvolgeores.2014.12.013

Bagnato, E., Aiuppa, A., Bertagnini, A., Bonadonna, C., Cioni, R., Pistolesi, M., Pedone, M., Hoskuldsson, A.

Reply to the "Comment by Delmelle et al. (2013) on 'Scavenging of sulfur, halogens and trace metals by volcanic ash: The 2010 Eyjafjallajökull eruption' by Bagnato et al. (2013)"

(2014) Geochimica et Cosmochimica Acta, 127, pp. 385-389.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84892485333&doi=10.1016%2fj.gca.2013.09.034&partnerID=40&md5=43abaa10861f60064f2761df700a36c6>

DOI: 10.1016/j.gca.2013.09.034

Pering, T.D., Tamburello, G., McGonigle, A.J.S., Aiuppa, A., Cannata, A., Giudice, G., Patanè, D.

High time resolution fluctuations in volcanic carbon dioxide degassing from Mount Etna

(2014) Journal of Volcanology and Geothermal Research, 270, pp. 115-121.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84890839316&doi=10.1016%2fj.jvolgeores.2013.11.014&partnerID=40&md5=646c3db2009690d16847b6776f1daad6>

DOI: 10.1016/j.jvolgeores.2013.11.014

Edmonds, M., Humphreys, M.C.S., Hauri, E.H., Herd, R.A., Wadge, G., Rawson, H., Ledden, R., Plail, M., Barclay, J., Aiuppa, A., Christopher, T.E., Giudice, G., Guida, R.
Pre-eruptive vapour and its role in controlling eruption style and longevity at Soufrière Hills Volcano
(2014) Geological Society Memoir, 39 (1), pp. 291-315.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84986198996&doi=10.1144%2fM39.16&partnerID=40&md5=2380f4fc04a5142d3eb4bdd6b8d1c54e>

DOI: 10.1144/M39.16

Pedone, M., Aiuppa, A., Giudice, G., Grassa, F., Francofonte, V., Bergsson, B., Ilyinskaya, E.
Tunable diode laser measurements of hydrothermal/volcanic CO₂ and implications for the global CO₂ budget
(2014) Solid Earth, 5 (2), pp. 1209-1221.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84919399687&doi=10.5194%2fse-5-1209-2014&partnerID=40&md5=f7b255ae15bbd72a71d94bc21d55cd42>

DOI: 10.5194/se-5-1209-2014

Pering, T.D., Tamburello, G., McGonigle, A.J.S., Hanna, E., Aiuppa, A.
Correlation of oscillatory behaviour in Matlab using wavelets
(2014) Computers and Geosciences, 70, pp. 206-212.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84903736502&doi=10.1016%2fj.cageo.2014.06.006&partnerID=40&md5=d0927c64e4a76039f73aa55377f7bf8d>

DOI: 10.1016/j.cageo.2014.06.006

Pedone, M., Aiuppa, A., Giudice, G., Grassa, F., Cardellini, C., Chiodini, G., Valenza, M.
Volcanic CO₂ flux measurement at Campi Flegrei by tunable diode laser absorption spectroscopy
(2014) Bulletin of Volcanology, 76 (4), art. no. 812, pp. 1-13.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84894678137&doi=10.1007%2fs00445-014-0812-z&partnerID=40&md5=69f4c259b38d51cacb6d7b91f5bf1609>

DOI: 10.1007/s00445-014-0812-z

Fiorani, L., Aiuppa, A., Angelini, F., Borelli, R., Del Franco, M., Murra, D., Pistilli, M., Puiu, A., Santoro, S.
Lidar sounding of volcanic plumes
(2013) Proceedings of SPIE - The International Society for Optical Engineering, 8894, art. no. 889407, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84890517642&doi=10.1117%2f12.2028364&partnerID=40&md5=b10dc8d867cf17d64def2318bb5ae5f5>

DOI: 10.1117/12.2028364

Di Napoli, R., Aiuppa, A., Allard, P.
First multi-GAS based characterisation of the Boiling Lake volcanic gas (Dominica, Lesser Antilles)
(2013) Annals of Geophysics, 56 (5), .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84892567270&doi=10.4401%2fag-6277&partnerID=40&md5=b6774b51c61d27c6290ca4b04df41c35>

DOI: 10.4401/ag-6277

Aiuppa, A., Tamburello, G., Di Napoli, R., Cardellini, C., Chiodini, G., Giudice, G., Grassa, F., Pedone, M.
First observations of the fumarolic gas output from a restless caldera: Implications for the current period of unrest (2005-2013) at Campi Flegrei
(2013) Geochemistry, Geophysics, Geosystems, 14 (10), pp. 4153-4169.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84889012257&doi=10.1002%2feggge.20261&partnerID=40&md5=f2e9d6e41116beddddc4e42bacf1e92f>

DOI: 10.1002/eggge.20261

Tamburello, G., Aiuppa, A., McGonigle, A.J.S., Allard, P., Cannata, A., Giudice, G., Kantzas, E.P., Perring, T.D.
Periodic volcanic degassing behavior: The Mount Etna example
(2013) *Geophysical Research Letters*, 40 (18), pp. 4818-4822.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84883815131&doi=10.1002%2fgrl.50924&partnerID=40&md5=cd3125ec41f77ef44e5542db2093723c>

DOI: 10.1002/grl.50924

D'Alessandro, W., Aiuppa, A., Bellomo, S., Brusca, L., Calabrese, S., Kyriakopoulos, K., Liotta, M., Longo, M.
Sulphur-gas concentrations in volcanic and geothermal areas in Italy and Greece: Characterising potential human exposures and risks
(2013) *Journal of Geochemical Exploration*, 131, pp. 1-13.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84877156260&doi=10.1016%2fj.gexplo.2012.08.015&partnerID=40&md5=0184741aff14259dff356367130cfa09>

DOI: 10.1016/j.gexplo.2012.08.015

Patanè, D., Aiuppa, A., Aloisi, M., Behncke, B., Cannata, A., Coltelli, M., Di Grazia, G., Gambino, S., Gurrieri, S., Mattia, M., Salerno, G.
Insights into magma and fluid transfer at Mount Etna by a multiparametric approach: A model of the events leading to the 2011 eruptive cycle
(2013) *Journal of Geophysical Research: Solid Earth*, 118 (7), pp. 3519-3539.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84882778500&doi=10.1002%2fjgrb.50248&partnerID=40&md5=00b4729e2d77966c7dcf313af71a68ab>

DOI: 10.1002/jgrb.50248

Kelly, P.J., Kern, C., Roberts, T.J., Lopez, T., Werner, C., Aiuppa, A.
Rapid chemical evolution of tropospheric volcanic emissions from Redoubt Volcano, Alaska, based on observations of ozone and halogen-containing gases
(2013) *Journal of Volcanology and Geothermal Research*, 259, pp. 317-333.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84880330937&doi=10.1016%2fj.jvolgeores.2012.04.023&partnerID=40&md5=22d82ba0e034d1eeaf391cab8b883b3>

DOI: 10.1016/j.jvolgeores.2012.04.023

Di Napoli, R., Federico, C., Aiuppa, A., D'Antonio, M., Valenza, M.
Quantitative models of hydrothermal fluid-mineral reaction: The Ischia case
(2013) *Geochimica et Cosmochimica Acta*, 105, pp. 108-129.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84872352477&doi=10.1016%2fj.gca.2012.11.039&partnerID=40&md5=77e86aa8b3633272346a2cdb944a094c>

DOI: 10.1016/j.gca.2012.11.039

Bagnato, E., Aiuppa, A., Bertagnini, A., Bonadonna, C., Cioni, R., Pistolesi, M., Pedone, M., Hoskuldsson, A.
Scavenging of sulphur, halogens and trace metals by volcanic ash: The 2010 Eyjafjallajökull eruption
(2013) *Geochimica et Cosmochimica Acta*, 103, pp. 138-160.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84871361642&doi=10.1016%2fj.gca.2012.10.048&partnerID=40&md5=7f4104e8a038350b0ec36f189eb460ef>

DOI: 10.1016/j.gca.2012.10.048

Bagnato, E., Tamburello, G., Aiuppa, A., Sprovieri, M., Vougioukalakis, G.E., Parks, M.
Mercury emissions from soils and fumaroles of Nea Kameni volcanic centre, Santorini (Greece)
(2013) *Geochemical Journal*, 47 (4), pp. 437-450.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84898720429&doi=10.2343%2fgeochemj.2.0263&partnerID=40&md5=1c06960ad37f72a4810325bc8dc3dd73>

DOI: 10.2343/geochemj.2.0263

Tamburello, G., Aiuppa, A., Kantzas, E.P., McGonigle, A.J.S., Ripepe, M.
Passive vs. active degassing modes at an open-vent volcano (Stromboli, Italy)
(2012) *Earth and Planetary Science Letters*, 359-360, pp. 106-116.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84868477484&doi=10.1016%2fj.epsl.2012.09.050&partnerID=40&md5=b9a4af28f5d3205cde12069ee0f3a9d2>

DOI: 10.1016/j.epsl.2012.09.050

Moussallam, Y., Oppenheimer, C., Aiuppa, A., Giudice, G., Moussallam, M., Kyle, P.
Hydrogen emissions from Erebus volcano, Antarctica
(2012) *Bulletin of Volcanology*, 74 (9), pp. 2109-2120.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84867874795&doi=10.1007%2fs00445-012-0649-2&partnerID=40&md5=8cf3b9fd917e81ccfbdd25f73b8617fd>

DOI: 10.1007/s00445-012-0649-2

Martin, R.S., Witt, M.L.I., Sawyer, G.M., Thomas, H.E., Watt, S.F.L., Bagnato, E., Calabrese, S., Aiuppa, A., Delmelle, P., Pyle, D.M., Mather, T.A.
Bioindication of volcanic mercury (Hg) deposition around Mt. Etna (Sicily)
(2012) *Chemical Geology*, 310-311, pp. 12-22.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84859918123&doi=10.1016%2fj.chemgeo.2012.03.022&partnerID=40&md5=167631dd7db242cbdcdb2bb96cfca9fcb>

DOI: 10.1016/j.chemgeo.2012.03.022

Mather, T.A., Witt, M.L.I., Pyle, D.M., Quayle, B.M., Aiuppa, A., Bagnato, E., Martin, R.S., Sims, K.W.W., Edmonds, M., Sutton, A.J., Ilyinskaya, E.
Halogens and trace metal emissions from the ongoing 2008 summit eruption of Kīlauea volcano, Hawai'i
(2012) *Geochimica et Cosmochimica Acta*, 83, pp. 292-323.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84863410080&doi=10.1016%2fj.gca.2011.11.029&partnerID=40&md5=83dd1f4a7f5dc87b17e80c9db910b929>

DOI: 10.1016/j.gca.2011.11.029

Aiuppa, A., Giudice, G., Liuzzo, M., Tamburello, G., Allard, P., Calabrese, S., Chaplygin, I., McGonigle, A.J.S., Taran, Y.
First volatile inventory for Gorely volcano, Kamchatka
(2012) *Geophysical Research Letters*, 39 (6), art. no. L06307, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84859319313&doi=10.1029%2f2012GL051177&partnerID=40&md5=1992560d7cc4ea612278708278c6f180>

DOI: 10.1029/2012GL051177

Aiuppa, A., Burton, M., Allard, P., Caltabiano, T., Giudice, G., Gurrieri, S., Liuzzo, M., Salerno, G.
First observational evidence for the CO₂-driven origin of Stromboli's major explosions
(2011) *Solid Earth*, 2 (2), pp. 135-142.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84862907091&doi=10.5194%2fse-2-135-2011&partnerID=40&md5=a48937c13c2209bf0976293412c8c16f>

DOI: 10.5194/se-2-135-2011

Calabrese, S., Aiuppa, A., Allard, P., Bagnato, E., Bellomo, S., Brusca, L., D'Alessandro, W., Parello, F.
Atmospheric sources and sinks of volcanogenic elements in a basaltic volcano (Etna, Italy)

(2011) *Geochimica et Cosmochimica Acta*, 75 (23), pp. 7401-7425.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-80155191188&doi=10.1016%2fj.gca.2011.09.040&partnerID=40&md5=39509d6884cf6bb78e49d0a31a7cd44e>

DOI: 10.1016/j.gca.2011.09.040

Floor, G.H., Calabrese, S., Román-Ross, G., D'Alessandro, W., Aiuppa, A.
Selenium mobilization in soils due to volcanic derived acid rain: An example from Mt Etna volcano, Sicily
(2011) *Chemical Geology*, 289 (3-4), pp. 235-244.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-80053609977&doi=10.1016%2fj.chemgeo.2011.08.004&partnerID=40&md5=1c1a4f59498a6512e03376d2979d95ab>

DOI: 10.1016/j.chemgeo.2011.08.004

Aiuppa, A., Shinohara, H., Tamburello, G., Giudice, G., Liuzzo, M., Moretti, R.
Hydrogen in the gas plume of an open-vent volcano, Mount Etna, Italy
(2011) *Journal of Geophysical Research: Solid Earth*, 116 (10), art. no. B10204, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-80455174063&doi=10.1029%2f2011JB008461&partnerID=40&md5=fdd2ca07e66f60301200b355b9240ae9>

DOI: 10.1029/2011JB008461

Fourré, E., Di Napoli, R., Aiuppa, A., Parello, F., Gaubi, E., Jean-Baptiste, P., Allard, P., Calabrese, S., Mamou, A.B.
Regional variations in the chemical and helium-carbon isotope composition of geothermal fluids across Tunisia
(2011) *Chemical Geology*, 288 (1-2), pp. 67-85.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-80051666091&doi=10.1016%2fj.chemgeo.2011.07.003&partnerID=40&md5=50f4ad480cd41dd015b70770ad2becfb>

DOI: 10.1016/j.chemgeo.2011.07.003

Tamburello, G., Kantzas, E.P., McGonigle, A.J.S., Aiuppa, A.
Vulcamera: A program for measuring volcanic SO₂ using UV cameras
(2011) *Annals of Geophysics*, 54 (2), pp. 219-221.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79959968229&doi=10.4401%2fag-5181&partnerID=40&md5=a35156125c34ab2999fcf4eca74d072f>

DOI: 10.4401/ag-5181

Tamburello, G., McGonigle, A.J.S., Kantzas, E.P., Aiuppa, A.
Recent advances in ground-based ultraviolet remote sensing of volcanic SO₂ fluxes
(2011) *Annals of Geophysics*, 54 (2), pp. 199-208.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79959919961&doi=10.4401%2fag-5179&partnerID=40&md5=444739a69c4ee998ae3e3060b78a1c4d>

DOI: 10.4401/ag-5179

Di Napoli, R., Martorana, R., Orsi, G., Aiuppa, A., Camarda, M., De Gregorio, S., Gagliano Candela, E., Luzio, D., Messina, N., Pecoraino, G., Bitetto, M., De Vita, S., Valenza, M.
The structure of a hydrothermal system from an integrated geochemical, geophysical, and geological approach: The Ischia Island case study
(2011) *Geochemistry, Geophysics, Geosystems*, 12 (7), art. no. Q07017, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79960824295&doi=10.1029%2f2010GC003476&partnerID=40&md5=3ab436338ebfda6e3a7336f3ca4fa014>

DOI: 10.1029/2010GC003476

Bagnato, E., Aiuppa, A., Parello, F., Allard, P., Shinohara, H., Liuzzo, M., Giudice, G.

New clues on the contribution of Earth's volcanism to the global mercury cycle

(2011) *Bulletin of Volcanology*, 73 (5), pp. 497-510.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79959217994&doi=10.1007%2fs00445-010-0419-y&partnerID=40&md5=6726ad5f521fe9a24542f90f624cf57f>

DOI: 10.1007/s00445-010-0419-y

Chiodini, G., Caliro, S., Aiuppa, A., Avino, R., Granieri, D., Moretti, R., Parello, F.

First ¹³C/¹²C isotopic characterisation of volcanic plume CO₂

(2011) *Bulletin of Volcanology*, 73 (5), pp. 531-542.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79959198442&doi=10.1007%2fs00445-010-0423-2&partnerID=40&md5=487ecec1fc614d1844ac3855f3c794ef>

DOI: 10.1007/s00445-010-0423-2

Tamburo, E., Aiuppa, A., Marini, L., Valenza, M.

Modelling groundwater processes in a carbonate catchment: A case study from the Madonie area (Northern Sicily)

(2011) *Applied Geochemistry*, 26 (7), pp. 1274-1287.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79956257382&doi=10.1016%2fj.apgeochem.2011.04.019&partnerID=40&md5=94745563b8f9f886aede5e77d38f54db>

DOI: 10.1016/j.apgeochem.2011.04.019

Métrich, N., Allard, P., Aiuppa, A., Bani, P., Bertagnini, A., Shinohara, H., Parello, F., Di Muro, A., Garaebiti, E., Belhadj, O., Massare, D.

Magma and volatile supply to post-collapse volcanism and block resurgence in Siwi caldera (Tanna Island, Vanuatu arc)

(2011) *Journal of Petrology*, 52 (6), art. no. egr019, pp. 1077-1105.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79959607606&doi=10.1093%2fpetrology%2fegr019&partnerID=40&md5=63cae72984cd0e16b4058fe5163fb659>

DOI: 10.1093/petrology/egr019

Fiorani, L., Colao, F., Palucci, A., Poreh, D., Aiuppa, A., Giudice, G.

First-time lidar measurement of water vapor flux in a volcanic plume

(2011) *Optics Communications*, 284 (5), pp. 1295-1298.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-78751641993&doi=10.1016%2fj.optcom.2010.10.082&partnerID=40&md5=1193a1b7d6f87f10a072e30921ecca35>

DOI: 10.1016/j.optcom.2010.10.082

Bagnato, E., Aiuppa, A., Andronico, D., Cristaldi, A., Liotta, M., Brusca, L., Miraglia, L.

Leachate analyses of volcanic ashes from Stromboli volcano: A proxy for the volcanic gas plume composition?

(2011) *Journal of Geophysical Research Atmospheres*, 116 (17), art. no. D17204, .

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-80053087016&doi=10.1029%2f2010JD015512&partnerID=40&md5=dfc670a0640750827aaeb3ed50c6609b>

DOI: 10.1029/2010JD015512

Tamburello, G., Kantzas, E.P., McGonigle, A.J.S., Aiuppa, A., Giudice, G.

UV camera measurements of fumarole field degassing (La Fossa crater, Vulcano Island)

(2011) *Journal of Volcanology and Geothermal Research*, 199 (1-2), pp. 47-52.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-78650531267&doi=10.1016%2fj.jvolgeores.2010.10.004&partnerID=40&md5=92a6c614576612a3e22d2932eb88ffb9>

DOI: 10.1016/j.jvolgeores.2010.10.004

Vance, A., McGonigle, A.J.S., Aiuppa, A., Stith, J.L., Turnbull, K., Von Glasow, R.

Ozone depletion in tropospheric volcanic plumes

(2010) *Geophysical Research Letters*, 37 (22), art. no. L22802, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-78649510866&doi=10.1029%2f2010GL044997&partnerID=40&md5=161ff674d40bf93034bda282c38c96cd)

[78649510866&doi=10.1029%2f2010GL044997&partnerID=40&md5=161ff674d40bf93034bda282c38c96cd](https://www.scopus.com/inward/record.uri?eid=2-s2.0-78649510866&doi=10.1029%2f2010GL044997&partnerID=40&md5=161ff674d40bf93034bda282c38c96cd)

DOI: 10.1029/2010GL044997

Aiuppa, A., Cannata, A., Cannavò, F., Di Grazia, G., Ferrari, F., Giudice, G., Guerrieri, S., Liuzzo, M., Mattia, M., Montalto, P., Patan, D., Puglisi, G.

Patterns in the recent 2007-2008 activity of Mount Etna volcano investigated by integrated geophysical and geochemical observations

(2010) *Geochemistry, Geophysics, Geosystems*, 11 (9), art. no. Q09008, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-77957591295&doi=10.1029%2f2010GC003168&partnerID=40&md5=d08b9a50c251b95c42a514c4dc9ad0b5)

[77957591295&doi=10.1029%2f2010GC003168&partnerID=40&md5=d08b9a50c251b95c42a514c4dc9ad0b5](https://www.scopus.com/inward/record.uri?eid=2-s2.0-77957591295&doi=10.1029%2f2010GC003168&partnerID=40&md5=d08b9a50c251b95c42a514c4dc9ad0b5)

DOI: 10.1029/2010GC003168

Aiuppa, A., Burton, M., Caltabiano, T., Giudice, G., Guerrieri, S., Liuzzo, M., Mur, F., Salerno, G.

Unusually large magmatic CO₂ gas emissions prior to a basaltic paroxysm

(2010) *Geophysical Research Letters*, 37 (17), art. no. L17303, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-77956449976&doi=10.1029%2f2010GL043837&partnerID=40&md5=8478b51948851b461802f7a1792e4f14)

[77956449976&doi=10.1029%2f2010GL043837&partnerID=40&md5=8478b51948851b461802f7a1792e4f14](https://www.scopus.com/inward/record.uri?eid=2-s2.0-77956449976&doi=10.1029%2f2010GL043837&partnerID=40&md5=8478b51948851b461802f7a1792e4f14)

DOI: 10.1029/2010GL043837

Kantzas, E.P., McGonigle, A.J.S., Tamburello, G., Aiuppa, A., Bryant, R.G.

Protocols for UV camera volcanic SO₂ measurements

(2010) *Journal of Volcanology and Geothermal Research*, 194 (1-3), pp. 55-60.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-77953695986&doi=10.1016%2fj.jvolgeores.2010.05.003&partnerID=40&md5=d7cff21af63dfb86f96fd370119cc200)

[77953695986&doi=10.1016%2fj.jvolgeores.2010.05.003&partnerID=40&md5=d7cff21af63dfb86f96fd370119cc200](https://www.scopus.com/inward/record.uri?eid=2-s2.0-77953695986&doi=10.1016%2fj.jvolgeores.2010.05.003&partnerID=40&md5=d7cff21af63dfb86f96fd370119cc200)

DOI: 10.1016/j.jvolgeores.2010.05.003

Aiuppa, A., Bertagnini, A., Métrich, N., Moretti, R., Di Muro, A., Liuzzo, M., Tamburello, G.

A model of degassing for Stromboli volcano

(2010) *Earth and Planetary Science Letters*, 295 (1-2), pp. 195-204.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-77953020432&doi=10.1016%2fj.epsl.2010.03.040&partnerID=40&md5=c0ddc9ef5ff46e7495a0cb330fe14b9e)

[77953020432&doi=10.1016%2fj.epsl.2010.03.040&partnerID=40&md5=c0ddc9ef5ff46e7495a0cb330fe14b9e](https://www.scopus.com/inward/record.uri?eid=2-s2.0-77953020432&doi=10.1016%2fj.epsl.2010.03.040&partnerID=40&md5=c0ddc9ef5ff46e7495a0cb330fe14b9e)

DOI: 10.1016/j.epsl.2010.03.040

Edmonds, M., Aiuppa, A., Humphreys, M., Moretti, R., Giudice, G., Martin, R.S., Herd, R.A., Christopher, T.

Excess volatiles supplied by mingling of mafic magma at an andesite arc volcano

(2010) *Geochemistry, Geophysics, Geosystems*, 11 (4), art. no. Q04005, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-76349090268&doi=10.1029%2f2009GC002781&partnerID=40&md5=2326cbc0f9b05fc97e38d64c8707beaa)

[76349090268&doi=10.1029%2f2009GC002781&partnerID=40&md5=2326cbc0f9b05fc97e38d64c8707beaa](https://www.scopus.com/inward/record.uri?eid=2-s2.0-76349090268&doi=10.1029%2f2009GC002781&partnerID=40&md5=2326cbc0f9b05fc97e38d64c8707beaa)

DOI: 10.1029/2009GC002781

McGonigle, A.J.S., Aiuppa, A., Ripepe, M., Kantzas, E.P., Tamburello, G.

Spectroscopic capture of 1 Hz volcanic SO₂ fluxes and integration with volcano geophysical data

(2009) *Geophysical Research Letters*, 36 (21), art. no. L21309, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-72049113826&doi=10.1029%2f2009GL040494&partnerID=40&md5=bb4e644282123528b6a115f42c6e1f57)

[72049113826&doi=10.1029%2f2009GL040494&partnerID=40&md5=bb4e644282123528b6a115f42c6e1f57](https://www.scopus.com/inward/record.uri?eid=2-s2.0-72049113826&doi=10.1029%2f2009GL040494&partnerID=40&md5=bb4e644282123528b6a115f42c6e1f57)

DOI: 10.1029/2009GL040494

Di Napoli, R., Aiuppa, A., Bellomo, S., Brusca, L., D'Alessandro, W., Candela, E.G., Longo, M., Pecoraino, G., Valenza, M.

A model for Ischia hydrothermal system: Evidences from the chemistry of thermal groundwaters

(2009) *Journal of Volcanology and Geothermal Research*, 186 (3-4), pp. 133-159.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-69649089365&doi=10.1016%2fj.jvolgeores.2009.06.005&partnerID=40&md5=3bbeff1c4b556924eab6743dd557d178)

[69649089365&doi=10.1016%2fj.jvolgeores.2009.06.005&partnerID=40&md5=3bbeff1c4b556924eab6743dd557d178](https://www.scopus.com/inward/record.uri?eid=2-s2.0-69649089365&doi=10.1016%2fj.jvolgeores.2009.06.005&partnerID=40&md5=3bbeff1c4b556924eab6743dd557d178)

DOI: 10.1016/j.jvolgeores.2009.06.005

Bagnato, E., Allard, P., Parello, F., Aiuppa, A., Calabrese, S., Hammouya, G.

Mercury gas emissions from La Soufrière Volcano, Guadeloupe Island (Lesser Antilles)

(2009) *Chemical Geology*, 266 (3-4), pp. 267-273.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-68949189526&doi=10.1016%2fj.chemgeo.2009.06.011&partnerID=40&md5=681bbf329787dbd1ce0b42d89902cde1)

[68949189526&doi=10.1016%2fj.chemgeo.2009.06.011&partnerID=40&md5=681bbf329787dbd1ce0b42d89902cde1](https://www.scopus.com/inward/record.uri?eid=2-s2.0-68949189526&doi=10.1016%2fj.chemgeo.2009.06.011&partnerID=40&md5=681bbf329787dbd1ce0b42d89902cde1)

DOI: 10.1016/j.chemgeo.2009.06.011

Aiuppa, A., Baker, D.R., Webster, J.D.

Halogens in volcanic systems

(2009) *Chemical Geology*, 263 (1-4), pp. 1-18.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-65549161900&doi=10.1016%2fj.chemgeo.2008.10.005&partnerID=40&md5=39164e71b68c8ca9de5136b03eccc963)

[65549161900&doi=10.1016%2fj.chemgeo.2008.10.005&partnerID=40&md5=39164e71b68c8ca9de5136b03eccc963](https://www.scopus.com/inward/record.uri?eid=2-s2.0-65549161900&doi=10.1016%2fj.chemgeo.2008.10.005&partnerID=40&md5=39164e71b68c8ca9de5136b03eccc963)

DOI: 10.1016/j.chemgeo.2008.10.005

Aiuppa, A.

Degassing of halogens from basaltic volcanism: Insights from volcanic gas observations

(2009) *Chemical Geology*, 263 (1-4), pp. 99-109.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-65549146809&doi=10.1016%2fj.chemgeo.2008.08.022&partnerID=40&md5=54d112f0b9066336c0aa06f49ff6bf29)

[65549146809&doi=10.1016%2fj.chemgeo.2008.08.022&partnerID=40&md5=54d112f0b9066336c0aa06f49ff6bf29](https://www.scopus.com/inward/record.uri?eid=2-s2.0-65549146809&doi=10.1016%2fj.chemgeo.2008.08.022&partnerID=40&md5=54d112f0b9066336c0aa06f49ff6bf29)

DOI: 10.1016/j.chemgeo.2008.08.022

Alletti, M., Baker, D.R., Scaillet, B., Aiuppa, A., Moretti, R., Ottolini, L.

Chlorine partitioning between a basaltic melt and H₂O-CO₂ fluids at Mount Etna

(2009) *Chemical Geology*, 263 (1-4), pp. 37-50.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-65549083094&doi=10.1016%2fj.chemgeo.2009.04.003&partnerID=40&md5=b763d631f1be0ab463e7d5b89ee0eb2b)

[65549083094&doi=10.1016%2fj.chemgeo.2009.04.003&partnerID=40&md5=b763d631f1be0ab463e7d5b89ee0eb2b](https://www.scopus.com/inward/record.uri?eid=2-s2.0-65549083094&doi=10.1016%2fj.chemgeo.2009.04.003&partnerID=40&md5=b763d631f1be0ab463e7d5b89ee0eb2b)

DOI: 10.1016/j.chemgeo.2009.04.003

Aiuppa, A., Federico, C., Giudice, G., Giuffrida, G., Guida, R., Gurrieri, S., Liuzzo, M., Moretti, R., Papale, P.

The 2007 eruption of Stromboli volcano: Insights from real-time measurement of the volcanic gas plume CO₂/SO₂ ratio

(2009) *Journal of Volcanology and Geothermal Research*, 182 (3-4), pp. 221-230.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-64849099497&doi=10.1016%2fj.jvolgeores.2008.09.013&partnerID=40&md5=e65d5f456471355600d38c54e3dca477)

[64849099497&doi=10.1016%2fj.jvolgeores.2008.09.013&partnerID=40&md5=e65d5f456471355600d38c54e3dca477](https://www.scopus.com/inward/record.uri?eid=2-s2.0-64849099497&doi=10.1016%2fj.jvolgeores.2008.09.013&partnerID=40&md5=e65d5f456471355600d38c54e3dca477)

DOI: 10.1016/j.jvolgeores.2008.09.013

Bagnato, E., Aiuppa, A., Parello, F., D'Alessandro, W., Allard, P., Calabrese, S.

Mercury concentration, speciation and budget in volcanic aquifers: Italy and Guadeloupe (Lesser Antilles)

(2009) *Journal of Volcanology and Geothermal Research*, 179 (1-2), pp. 96-106.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-57849105839&doi=10.1016%2fj.jvolgeores.2008.10.005&partnerID=40&md5=2a365091271781ebf0c1321f79da98a0)

[57849105839&doi=10.1016%2fj.jvolgeores.2008.10.005&partnerID=40&md5=2a365091271781ebf0c1321f79da98a0](https://www.scopus.com/inward/record.uri?eid=2-s2.0-57849105839&doi=10.1016%2fj.jvolgeores.2008.10.005&partnerID=40&md5=2a365091271781ebf0c1321f79da98a0)

DOI: 10.1016/j.jvolgeores.2008.10.005

Martin, R.S., Mather, T.A., Pyle, D.M., Watt, S.F.L., Day, J.A., Collins, S.J., Wright, T.E., Aiuppa, A., Calabrese, S. Sweet chestnut (*Castanea sativa*) leaves as a bio-indicator of volcanic gas, aerosol and ash deposition onto the flanks of Mt Etna in 2005-2007

(2009) *Journal of Volcanology and Geothermal Research*, 179 (1-2), pp. 107-119.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-57749118638&doi=10.1016%2Fj.jvolgeores.2008.10.012&partnerID=40&md5=70462642864add0e486b57b812f2f701)

[57749118638&doi=10.1016%2Fj.jvolgeores.2008.10.012&partnerID=40&md5=70462642864add0e486b57b812f2f701](https://www.scopus.com/inward/record.uri?eid=2-s2.0-57749118638&doi=10.1016%2Fj.jvolgeores.2008.10.012&partnerID=40&md5=70462642864add0e486b57b812f2f701)

DOI: 10.1016/j.jvolgeores.2008.10.012

Aiuppa, A., Giudice, G., Gurrieri, S., Liuzzo, M., Burton, M., Caltabiano, T., McGonigle, A.J.S., Salerno, G., Shinohara, H., Valenza, M.

Total volatile flux from Mount Etna

(2008) *Geophysical Research Letters*, 35 (24), art. no. L24302, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-61349126216&doi=10.1029%2F2008GL035871&partnerID=40&md5=efea593423355a6f7db416257b78211a)

[61349126216&doi=10.1029%2F2008GL035871&partnerID=40&md5=efea593423355a6f7db416257b78211a](https://www.scopus.com/inward/record.uri?eid=2-s2.0-61349126216&doi=10.1029%2F2008GL035871&partnerID=40&md5=efea593423355a6f7db416257b78211a)

DOI: 10.1029/2008GL035871

Taran, Y., Rouwet, D., Inguaggiato, S., Aiuppa, A.

Major and trace element geochemistry of neutral and acidic thermal springs at El Chichón volcano, Mexico. Implications for monitoring of the volcanic activity

(2008) *Journal of Volcanology and Geothermal Research*, 178 (2), pp. 224-236.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-55549127516&doi=10.1016%2Fj.jvolgeores.2008.06.030&partnerID=40&md5=b2afebd9abe29da70a4e1b5261272b5f)

[55549127516&doi=10.1016%2Fj.jvolgeores.2008.06.030&partnerID=40&md5=b2afebd9abe29da70a4e1b5261272b5f](https://www.scopus.com/inward/record.uri?eid=2-s2.0-55549127516&doi=10.1016%2Fj.jvolgeores.2008.06.030&partnerID=40&md5=b2afebd9abe29da70a4e1b5261272b5f)

DOI: 10.1016/j.jvolgeores.2008.06.030

Martin, R.S., Mather, T.A., Pyle, D.M., Power, M., Allen, A.G., Aiuppa, A., Horwell, C.J., Ward, E.P.W.

Composition-resolved size distributions of volcanic aerosols in the Mt. Etna plumes

(2008) *Journal of Geophysical Research Atmospheres*, 113 (17), art. no. D17211, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-55849150332&doi=10.1029%2F2007JD009648&partnerID=40&md5=d8bcf7a9513a973d4e5fe6f0591696f1)

[55849150332&doi=10.1029%2F2007JD009648&partnerID=40&md5=d8bcf7a9513a973d4e5fe6f0591696f1](https://www.scopus.com/inward/record.uri?eid=2-s2.0-55849150332&doi=10.1029%2F2007JD009648&partnerID=40&md5=d8bcf7a9513a973d4e5fe6f0591696f1)

DOI: 10.1029/2007JD009648

Shinohara, H., Aiuppa, A., Giudice, G., Gurrieri, S., Liuzzo, M.

Variation of H₂O/CO₂ and CO₂/SO₂ ratios of volcanic gases discharged by continuous degassing of Mount Etna volcano, Italy

(2008) *Journal of Geophysical Research: Solid Earth*, 113 (9), art. no. B09203, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-55849120029&doi=10.1029%2F2007JB005185&partnerID=40&md5=6f551d09f68cdb0cd47fa092ed3b2958)

[55849120029&doi=10.1029%2F2007JB005185&partnerID=40&md5=6f551d09f68cdb0cd47fa092ed3b2958](https://www.scopus.com/inward/record.uri?eid=2-s2.0-55849120029&doi=10.1029%2F2007JB005185&partnerID=40&md5=6f551d09f68cdb0cd47fa092ed3b2958)

DOI: 10.1029/2007JB005185

Witt, M.L.I., Mather, T.A., Pyle, D.M., Aiuppa, A., Bagnato, E., Tsanev, V.I.

Mercury and halogen emissions from Masaya and telica volcanoes, Nicaragua

(2008) *Journal of Geophysical Research: Solid Earth*, 113 (6), art. no. B06203, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-50649100125&doi=10.1029%2F2007JB005401&partnerID=40&md5=82e0a97e95918e8efd1b96f6c0a68528)

[50649100125&doi=10.1029%2F2007JB005401&partnerID=40&md5=82e0a97e95918e8efd1b96f6c0a68528](https://www.scopus.com/inward/record.uri?eid=2-s2.0-50649100125&doi=10.1029%2F2007JB005401&partnerID=40&md5=82e0a97e95918e8efd1b96f6c0a68528)

DOI: 10.1029/2007JB005401

Madonia, P., Federico, C., Cusano, P., Petrosino, S., Aiuppa, A., Gurrieri, S.

Crustal dynamics of Mount Vesuvius from 1998 to 2005: Effects on seismicity and fluid circulation

(2008) *Journal of Geophysical Research: Solid Earth*, 113 (5), art. no. B05206, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-55349143539&doi=10.1029%2F2007JB005210&partnerID=40&md5=2fef99122731f7eef7f07763ab8d7edf)

[55349143539&doi=10.1029%2F2007JB005210&partnerID=40&md5=2fef99122731f7eef7f07763ab8d7edf](https://www.scopus.com/inward/record.uri?eid=2-s2.0-55349143539&doi=10.1029%2F2007JB005210&partnerID=40&md5=2fef99122731f7eef7f07763ab8d7edf)

DOI: 10.1029/2007JB005210

Parello, F., Aiuppa, A., Calderon, H., Calvi, F., Cellura, D., Martinez, V., Militello, M., Vammen, K., Vinti, D.
Geochemical characterization of surface waters and groundwater resources in the Managua area (Nicaragua, Central America)
(2008) *Applied Geochemistry*, 23 (4), pp. 914-931.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-41149181143&doi=10.1016%2fj.apgeochem.2007.08.006&partnerID=40&md5=d8f35b30baa1ba275b833838fd43e6e4>

DOI: 10.1016/j.apgeochem.2007.08.006

McGonigle, A.J.S., Aiuppa, A., Giudice, G., Tamburello, G., Hodson, A.J., Gurrieri, S.
Unmanned aerial vehicle measurements of volcanic carbon dioxide fluxes
(2008) *Geophysical Research Letters*, 35 (6), art. no. L06303, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-41549157879&doi=10.1029%2f2007GL032508&partnerID=40&md5=3b0c9a3a91bdb0da16b414876c3c01f7>

DOI: 10.1029/2007GL032508

Aiuppa, A., Moretti, R., Federico, C., Giudice, G., Gurrieri, S., Liuzzo, M., Papale, P., Shinohara, H., Valenza, M.
Forecasting Etna eruptions by real-time observation of volcanic gas composition
(2007) *Geology*, 35 (12), pp. 1115-1118.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-37449007359&doi=10.1130%2fG24149A.1&partnerID=40&md5=f8cd20c0815232eec94cd8f0bd658a38>

DOI: 10.1130/G24149A.1

Aiuppa, A., D'Alessandro, W., Gurrieri, S., Madonia, P., Parello, F.
Hydrologic and geochemical survey of the lake "Specchio di Venere" (Pantelleria island, Southern Italy)
(2007) *Environmental Geology*, 53 (4), pp. 903-913.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-36448990064&doi=10.1007%2fs00254-007-0702-1&partnerID=40&md5=64df2aab0505821e5d4f8fcd6286c334>

DOI: 10.1007/s00254-007-0702-1

Aiuppa, A., Bagnato, E., Witt, M.L.I., Mather, T.A., Parello, F., Pyle, D.M., Martin, R.S.
Real-time simultaneous detection of volcanic Hg and SO₂ at La Fossa Crater, Vulcano (Aeolian Islands, Sicily)
(2007) *Geophysical Research Letters*, 34 (21), art. no. L21307, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-38549141942&doi=10.1029%2f2007GL030762&partnerID=40&md5=e6df3100596da9450c7904b8193ecd6f>

DOI: 10.1029/2007GL030762

Bagnato, E., Aiuppa, A., Parello, F., Calabrese, S., D'Alessandro, W., Mather, T.A., McGonigle, A.J.S., Pyle, D.M., Wängberg, I.
Degassing of gaseous (elemental and reactive) and particulate mercury from Mount Etna volcano (Southern Italy)
(2007) *Atmospheric Environment*, 41 (35), pp. 7377-7388.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-35748946290&doi=10.1016%2fj.atmosenv.2007.05.060&partnerID=40&md5=5b8de6d0fd0cb58e9eac5ac829801231>

DOI: 10.1016/j.atmosenv.2007.05.060

Bellomo, S., Aiuppa, A., D'Alessandro, W., Parello, F.
Environmental impact of magmatic fluorine emission in the Mt. Etna area
(2007) *Journal of Volcanology and Geothermal Research*, 165 (1-2), pp. 87-101.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-34447298671&doi=10.1016%2fj.jvolgeores.2007.04.013&partnerID=40&md5=0d5519baa277314c8a9c7823968d4f19>

DOI: 10.1016/j.jvolgeores.2007.04.013

Watt, S.F.L., Pyle, D.M., Mather, T.A., Day, J.A., Aiuppa, A.
The use of tree-rings and foliage as an archive of volcanogenic cation deposition
(2007) *Environmental Pollution*, 148 (1), pp. 48-61.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-34247846168&doi=10.1016%2fj.envpol.2006.11.007&partnerID=40&md5=c726c5a399ded5c2bf98cf4a80c136f2>

DOI: 10.1016/j.envpol.2006.11.007

Bobrowski, N., von Glasow, R., Aiuppa, A., Inguaggiato, S., Louban, I., Ibrahim, O.W., Platt, U.
Reactive halogen chemistry in volcanic plumes
(2007) *Journal of Geophysical Research Atmospheres*, 112 (6), art. no. D06311, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-34249731897&doi=10.1029%2f2006JD007206&partnerID=40&md5=ec5ab0877d29013028eb2006fa2a79a9>

DOI: 10.1029/2006JD007206

Aiuppa, A., Franco, A., Von Glasow, R., Allen, A.G., D'Alessandro, W., Mather, T.A., Pyle, D.M., Valenza, M.
The tropospheric processing of acidic gases and hydrogen sulphide in volcanic gas plumes as inferred from field and model investigations
(2007) *Atmospheric Chemistry and Physics*, 7 (5), pp. 1441-1450.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-33947100981&doi=10.5194%2facp-7-1441-2007&partnerID=40&md5=14e3245d6af721d48a417b6b1866d318>

DOI: 10.5194/acp-7-1441-2007

Aiuppa, A., Federico, C., Giudice, G., Gurrieri, S., Valenza, M.
Hydrothermal buffering of the $\text{SO}_2/\text{H}_2\text{S}$ ratio in volcanic gases: Evidence from la Fossa Crater fumarolic field, Vulcano Island
(2006) *Geophysical Research Letters*, 33 (21), art. no. L21315, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-34248536276&doi=10.1029%2f2006GL027730&partnerID=40&md5=82405773deb884b39a5c675cdd520747>

DOI: 10.1029/2006GL027730

Aiuppa, A., Federico, C., Giudice, G., Gurrieri, S., Liuzzo, M., Shinohara, H., Favarra, R., Valenza, M.
Rates of carbon dioxide plume degassing from Mount Etna volcano
(2006) *Journal of Geophysical Research: Solid Earth*, 111 (9), art. no. B09207, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-34250828959&doi=10.1029%2f2006JB004307&partnerID=40&md5=fc48c6be70b6b3aa9f5d12596b25f313>

DOI: 10.1029/2006JB004307

Oppenheimer, C., Tsanev, V.I., Braban, C.F., Cox, R.A., Adams, J.W., Aiuppa, A., Bobrowski, N., Delmelle, P., Barclay, J., McGonigle, A.J.S.
BrO formation in volcanic plumes
(2006) *Geochimica et Cosmochimica Acta*, 70 (12), pp. 2935-2941.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-33744782318&doi=10.1016%2fj.gca.2006.04.001&partnerID=40&md5=fe4daa9a20784ea018f91038b18bedaa>

DOI: 10.1016/j.gca.2006.04.001

Aiuppa, A., Avino, R., Brusca, L., Caliro, S., Chiodini, G., D'Alessandro, W., Favara, R., Federico, C., Ginevra, W., Inguaggiato, S., Longo, M., Pecoraino, G., Valenza, M.
Mineral control of arsenic content in thermal waters from volcano-hosted hydrothermal systems: Insights from island of Ischia and Phlegrean Fields (Campanian Volcanic Province, Italy)
(2006) *Chemical Geology*, 229 (4), pp. 313-330.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-33747616926&doi=10.1016%2fj.chemgeo.2005.11.004&partnerID=40&md5=150a4926794865e046d56f5c34c96ce5>

DOI: 10.1016/j.chemgeo.2005.11.004

Allen, A.G., Mather, T.A., McGonigle, A.J.S., Aiuppa, A., Delmelle, P., Davison, B., Bobrowski, N., Oppenheimer, C., Pyle, D.M., Inguaggiato, S.
Sources, size distribution, and downwind grounding of aerosols from Mount Etna
(2006) *Journal of Geophysical Research Atmospheres*, 111 (10), art. no. D10302, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-33745904725&doi=10.1029%2f2005JD006015&partnerID=40&md5=9357b0143496ebd20531ee6f2ebae331>

DOI: 10.1029/2005JD006015

Aiuppa, A., Bellomo, S., Brusca, L., D'Alessandro, W., Di Paola, R., Longo, M.
Major-ion bulk deposition around an active volcano (Mt. Etna, Italy)
(2006) *Bulletin of Volcanology*, 68 (3), pp. 255-265.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-33644771271&doi=10.1007%2fs00445-005-0005-x&partnerID=40&md5=0a536e7065d067800e5a9f00591c289d>

DOI: 10.1007/s00445-005-0005-x

Aiuppa, A., Federico, C., Franco, A., Giudice, G., Gurrieri, S., Inguaggiato, S., Liuzzo, M., McGonigle, A.J.S., Valenza, M.
Emission of bromine and iodine from Mount Etna volcano
(2005) *Geochemistry, Geophysics, Geosystems*, 6 (8), art. no. Q08008, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-33744791284&doi=10.1029%2f2005GC000965&partnerID=40&md5=6fae5e2231463a3e8e0ccd731de33280>

DOI: 10.1029/2005GC000965

Aiuppa, A., Federico, C., Giudice, G., Gurrieri, S.
Chemical mapping of a fumarolic field: La Fossa Crater, Vulcano Island (Aeolian Islands, Italy)
(2005) *Geophysical Research Letters*, 32 (13), pp. 1-4.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-24944496191&doi=10.1029%2f2005GL023207&partnerID=40&md5=7d7a0337c3607124978b6c0acca05036>

DOI: 10.1029/2005GL023207

Aiuppa, A., Inguaggiato, S., McGonigle, A.J.S., O'Dwyer, M., Oppenheimer, C., Padgett, M.J., Rouwet, D., Valenza, M.
H₂S fluxes from Mt. Etna, Stromboli, and Vulcano (Italy) and implications for the sulfur budget at volcanoes
(2005) *Geochimica et Cosmochimica Acta*, 69 (7), pp. 1861-1871.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-16344385831&doi=10.1016%2fj.gca.2004.09.018&partnerID=40&md5=9d76665b050ca438ef384e298a68bc51>

DOI: 10.1016/j.gca.2004.09.018

Aiuppa, A., Federico, C., Allard, P., Gurrieri, S., Valenza, M.
Trace metal modeling of groundwater-gas-rock interactions in a volcanic aquifer: Mount Vesuvius, Southern Italy
(2005) *Chemical Geology*, 216 (3-4), pp. 289-311.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-14644436409&doi=10.1016%2fj.chemgeo.2004.11.017&partnerID=40&md5=9e3cbb763c6041913f6130a7cbe939ee>

DOI: 10.1016/j.chemgeo.2004.11.017

McGonigle, A.J.S., Hayes, A.R., Oppenheimer, C., Aiuppa, A., Inguaggiato, S.
Accurate measurement of volcanic SO₂ flux: Determination of plume transport speed and integrated SO₂ concentration with a single device

(2005) *Geochemistry, Geophysics, Geosystems*, 6 (2), art. no. Q02003, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-23844460123&doi=10.1029%2f2004GC000845&partnerID=40&md5=0af91350ce67d767d46310224dd9680d)

[23844460123&doi=10.1029%2f2004GC000845&partnerID=40&md5=0af91350ce67d767d46310224dd9680d](https://www.scopus.com/inward/record.uri?eid=2-s2.0-23844460123&doi=10.1029%2f2004GC000845&partnerID=40&md5=0af91350ce67d767d46310224dd9680d)

DOI: 10.1029/2004GC000845

Aiuppa, A., Bellomo, S., D'Alessandro, W., Federico, C., Ferm, M., Valenza, M.

Volcanic plume monitoring at Mount Etna by diffusive (passive) sampling

(2004) *Journal of Geophysical Research D: Atmospheres*, 109 (21), pp. D21308 1-11.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-13244252645&doi=10.1029%2f2003JD004481&partnerID=40&md5=bb3b068bf6bc839f13c136eddbc5095b)

[13244252645&doi=10.1029%2f2003JD004481&partnerID=40&md5=bb3b068bf6bc839f13c136eddbc5095b](https://www.scopus.com/inward/record.uri?eid=2-s2.0-13244252645&doi=10.1029%2f2003JD004481&partnerID=40&md5=bb3b068bf6bc839f13c136eddbc5095b)

DOI: 10.1029/2003JD004481

Aiuppa, A., Federico, C.

Anomalous magmatic degassing prior to the 5th April 2003 paroxysm on Stromboli

(2004) *Geophysical Research Letters*, 31 (14), pp. L14607 1-4.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-4644341361&doi=10.1029%2f2004GL020458&partnerID=40&md5=3685fb2a5d6395a2811f33aab2b22fec)

[4644341361&doi=10.1029%2f2004GL020458&partnerID=40&md5=3685fb2a5d6395a2811f33aab2b22fec](https://www.scopus.com/inward/record.uri?eid=2-s2.0-4644341361&doi=10.1029%2f2004GL020458&partnerID=40&md5=3685fb2a5d6395a2811f33aab2b22fec)

DOI: 10.1029/2004GL020458

Aiuppa, A., Federico, C., Giudice, G., Gurrieri, S., Paonita, A., Valenza, M.

Plume chemistry provides insights into mechanisms of sulfur and halogen degassing in basaltic volcanoes

(2004) *Earth and Planetary Science Letters*, 222 (2), pp. 469-483.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-2542502554&doi=10.1016%2fj.epsl.2004.03.020&partnerID=40&md5=8b18396d727ef19a36674b94c992f855)

[2542502554&doi=10.1016%2fj.epsl.2004.03.020&partnerID=40&md5=8b18396d727ef19a36674b94c992f855](https://www.scopus.com/inward/record.uri?eid=2-s2.0-2542502554&doi=10.1016%2fj.epsl.2004.03.020&partnerID=40&md5=8b18396d727ef19a36674b94c992f855)

DOI: 10.1016/j.epsl.2004.03.020

Aiuppa, A., Caleca, A., Federico, C., Gurrieri, S., Valenza, M.

Diffuse degassing of carbon dioxide at Somma-Vesuvius volcanic complex (Southern Italy) and its relation with regional tectonics

(2004) *Journal of Volcanology and Geothermal Research*, 133 (1-4), pp. 55-79.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-16544379634&doi=10.1016%2fS0377-0273%2803%2900391-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-16544379634&doi=10.1016%2fS0377-0273%2803%2900391-3&partnerID=40&md5=7cc3783fbd30191a6ce69d17ff83714e)

[3&partnerID=40&md5=7cc3783fbd30191a6ce69d17ff83714e](https://www.scopus.com/inward/record.uri?eid=2-s2.0-16544379634&doi=10.1016%2fS0377-0273%2803%2900391-3&partnerID=40&md5=7cc3783fbd30191a6ce69d17ff83714e)

DOI: 10.1016/S0377-0273(03)00391-3

Federico, C., Aiuppa, A., Favara, R., Gurrieri, S., Valenza, M.

Geochemical monitoring of groundwaters (1998-2001) at Vesuvius volcano (Italy)

(2004) *Journal of Volcanology and Geothermal Research*, 133 (1-4), pp. 81-104.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-16544370079&doi=10.1016%2fS0377-0273%2803%2900392-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-16544370079&doi=10.1016%2fS0377-0273%2803%2900392-5&partnerID=40&md5=d0ce98ec0c631a84881cce4a4dac09e7)

[5&partnerID=40&md5=d0ce98ec0c631a84881cce4a4dac09e7](https://www.scopus.com/inward/record.uri?eid=2-s2.0-16544370079&doi=10.1016%2fS0377-0273%2803%2900392-5&partnerID=40&md5=d0ce98ec0c631a84881cce4a4dac09e7)

DOI: 10.1016/S0377-0273(03)00392-5

Aiuppa, A., Burton, M., Murè, F., Inguaggiato, S.

Intercomparison of volcanic gas monitoring methodologies performed on Vulcano Island, Italy

(2004) *Geophysical Research Letters*, 31 (2), pp. L02610 1-5.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-2442528270&doi=10.1029%2f2003GL018651&partnerID=40&md5=3d45d5687eae7fcff5c247a00ebfa85b)

[2442528270&doi=10.1029%2f2003GL018651&partnerID=40&md5=3d45d5687eae7fcff5c247a00ebfa85b](https://www.scopus.com/inward/record.uri?eid=2-s2.0-2442528270&doi=10.1029%2f2003GL018651&partnerID=40&md5=3d45d5687eae7fcff5c247a00ebfa85b)

DOI: 10.1029/2003GL018651

Aiuppa, A., Allard, P., D'Alessandro, W., Giammanco, S., Parello, F., Valenza, M.
Magmatic gas leakage at mount etna (Sicily, Italy): Relationships with the volcano-tectonic structures, the hydrological pattern and the eruptive activity
(2004) Geophysical Monograph Series, 143, pp. 129-145.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991532171&doi=10.1029%2f143GM09&partnerID=40&md5=edcfffad28d2e6174712a6fa5c0719551>

DOI: 10.1029/143GM09

Aiuppa, A., Bellomo, S., D'Alessandro, W., Ferm, M., Valenza, M.
Influence of volcanic passive degassing on air quality in the Mt. Etna area
(2003) Advances in Air Pollution, 13, pp. 263-271.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-2942672447&partnerID=40&md5=a2aafbc9336bbae114c5fa51b69db41c>

Aiuppa, A., D'Alessandro, W., Federico, C., Palumbo, B., Valenza, M.
The aquatic geochemistry of arsenic in volcanic groundwaters from southern Italy
(2003) Applied Geochemistry, 18 (9), pp. 1283-1296.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0042769363&doi=10.1016%2fS0883-2927%2803%2900051-9&partnerID=40&md5=c142d84dbb2209af819052b73db371ff>

DOI: 10.1016/S0883-2927(03)00051-9

Aiuppa, A., Bonfanti, P., D'Alessandro, W.
Rainwater chemistry at Mt. Etna (Italy): Natural and anthropogenic sources of major ions
(2003) Journal of Atmospheric Chemistry, 46 (1), pp. 89-102.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0042011295&doi=10.1023%2fA%3a1024878323823&partnerID=40&md5=527f516f02d3d7a27c346f83e4596c9e>

DOI: 10.1023/A:1024878323823

Aiuppa, A., Bellomo, S., Brusca, L., D'Alessandro, W., Federico, C.
Natural and anthropogenic factors affecting groundwater quality of an active volcano (Mt. Etna, Italy)
(2003) Applied Geochemistry, 18 (6), pp. 863-882.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0037410078&doi=10.1016%2fS0883-2927%2802%2900182-8&partnerID=40&md5=8b06118b93ee68fd5c85ce7ff2766104>

DOI: 10.1016/S0883-2927(02)00182-8

Aiuppa, A., Dongarrà, G., Valenza, M., Federico, C., Pecoraino, G.
Degassing of trace volatile metals during the 2001 eruption of etna
(2003) Geophysical Monograph Series, 139, pp. 41-54.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85041618729&doi=10.1029%2f139GM03&partnerID=40&md5=a1d1f43df5ce07baf7e47c406d65acc7>

DOI: 10.1029/139GM03

Aiuppa, A., Federico, C., Paonita, A., Pecoraino, G., Valenza, M.
S, Cl and F degassing as an indicator of volcanic dynamics: The 2001 eruption of Mount Etna
(2002) Geophysical Research Letters, 29 (11), pp. 54-1-54-4.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0036624621&doi=10.1029%2f2002GL015032&partnerID=40&md5=45443f21d171c7afdab7572b7d7f0f77>

DOI: 10.1029/2002GL015032

Federico, C., Aiuppa, A., Allard, P., Bellomo, S., Jean-Baptiste, P., Parello, F., Valenza, M.
Magma-derived gas influx and water-rock interactions in the volcanic aquifer of Mt. Vesuvius, Italy
(2002) *Geochimica et Cosmochimica Acta*, 66 (6), pp. 963-981.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0041653079&doi=10.1016%2fS0016-7037%2801%2900813-4&partnerID=40&md5=924dec0da6aa5c14de5ef21683ccbdcc>

DOI: 10.1016/S0016-7037(01)00813-4

Monna, F., Dongarrà, G., Varrica, D., Aiuppa, A.
Contribution of isotopic geochemistry to the origin of lead in the atmosphere of Sicily [Apport de la géochimie isotopique sur l'origine du plomb dans l'atmosphère de sicile par]
(2001) *Archives des Sciences et Compte Rendu Seances de la Societe*, 54 (3), pp. 205-222.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0035736252&partnerID=40&md5=81d0f67c954735788281242c9cdb8a98>

Brusca, L., Aiuppa, A., D'Alessandro, W., Parello, F., Allard, P., Michel, A.
Geochemical mapping of magmatic gas-water-rock interactions in the aquifer of Mount Etna volcano
(2001) *Journal of Volcanology and Geothermal Research*, 108 (1-4), pp. 199-218.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0035880518&doi=10.1016%2fS0377-0273%2800%2900286-9&partnerID=40&md5=218e47894bebcfb0a2cf99284cbd9858>

DOI: 10.1016/S0377-0273(00)00286-9

Aiuppa, A., Bonfanti, P., Brusca, L., D'Alessandro, W., Federico, C., Parello, F.
Evaluation of the environmental impact of volcanic emissions from the chemistry of rainwater: Mount Etna area (Sicily)
(2001) *Applied Geochemistry*, 16 (7-8), pp. 985-1000.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0034914691&doi=10.1016%2fS0883-2927%2800%2900075-5&partnerID=40&md5=567f24b8304bbc6406baf750992c5ad0>

DOI: 10.1016/S0883-2927(00)00075-5

Aiuppa, A., Allard, P., D'Alessandro, W., Michel, A., Parello, F., Treuil, M., Valenza, M.
Mobility and fluxes of major, minor and trace metals during basalt weathering and groundwater transport at Mt. Etna volcano (Sicily)
(2000) *Geochimica et Cosmochimica Acta*, 64 (11), pp. 1827-1841.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0034131396&doi=10.1016%2fS0016-7037%2800%2900345-8&partnerID=40&md5=45d54be1b55a9ac7569056a209355ddd>

DOI: 10.1016/S0016-7037(00)00345-8

Varrica, D., Aiuppa, A., Dongarrà, G.
Volcanic and anthropogenic contribution to heavy metal content in lichens from Mt. Etna and Vulcano island (Sicily)
(2000) *Environmental Pollution*, 108 (2), pp. 153-162.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0033963498&doi=10.1016%2fS0269-7491%2899%2900246-8&partnerID=40&md5=74a03bda5f89011eaa5f65335a39098d>

DOI: 10.1016/S0269-7491(99)00246-8

Aiuppa, A., Dongarrà, G., Capasso, G., Allard, P.
Trace elements in the thermal groundwaters of Vulcano Island (Sicily)
(2000) *Journal of Volcanology and Geothermal Research*, 98 (1-4), pp. 189-207.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0033941922&doi=10.1016%2fS0377-0273%2899%2900156-0&partnerID=40&md5=e4ef5006bcd16ee7ff7bc1b487d0a8c9>

DOI: 10.1016/S0377-0273(99)00156-0

Allard, P., Aiuppa, A., Loyer, H., Carrot, F., Gaudry, A., Pinte, G., Michel, A., Dongarrà, G.
Acid gas and metal emission rates during long-lived basalt degassing at Stromboli volcano
(2000) *Geophysical Research Letters*, 27 (8), pp. 1207-1210.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0034352466&doi=10.1029%2f1999GL008413&partnerID=40&md5=01930106da62fd1228a60d4548e439d2>

DOI: 10.1029/1999GL008413

Monna, F., Aiuppa, A., Varrica, D., Dongarra, G.
Pb isotope composition in lichens and aerosols from eastern Sicily: Insights into the regional impact of volcanoes on the environment
(1999) *Environmental Science and Technology*, 33 (15), pp. 2517-2523.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0033178847&doi=10.1021%2fes9812251&partnerID=40&md5=1fbce4c84a15fbf7130f099a692ff121>

DOI: 10.1021/es9812251

Aiuppa, A., Carapezza, M.L., Parello, F.
Fluid geochemistry of the San Vicente geothermal field (El Salvador)
(1997) *Geothermics*, 26 (1), pp. 83-97.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-0031076295&doi=10.1016%2fS0375-6505%2896%2900026-0&partnerID=40&md5=0919c4bbb8e7a0fd15f90dc26606e982>

DOI: 10.1016/S0375-6505(96)00026-0