



## Pubblicazioni 2011

1312. Aiuppa, A., Burton M., **Allard P.**, **Caltabiano T.**, Giudice G., Gurrieri S., Liuzzo M., **Salerno G.** (2011). First observational evidence for the CO<sub>2</sub>-driven origin of Stromboli's major explosions, *Solid Earth*, 2, 135-142, doi: 10.5194/se-2-135-2011
1313. **Aloisi, M.**, **Mattia M.**, Ferlito C., **Palano M.**, **Bruno V.**, **Cannavò F.** (2011). Imaging the multi-level magma reservoir at Mt. Etna volcano (Italy), *Geophysical Research Letters*, 38, L16306, doi: 10.1029/2011GL048488
1314. **Aloisi, M.**, **Mattia M.**, **Monaco C.**, **Pulvirenti F.** (2011). Magma, faults, and gravitational loading at Mount Etna: The 2002–2003 eruptive period, *Journal of Geophysical Research*, 116, B05203, doi: 10.1029/2010JB007909
1315. **Alparone, S.**, **Barberi G.**, **Bonforte A.**, **Maiolino V.**, **Ursino A.** (2011). Evidence of multiple strain fields beneath the eastern flank of Mt. Etna volcano (Sicily, Italy) deduced from seismic and geodetic data during 2003–2004, *Bulletin of Volcanology*, 73, 869–885, doi: 10.1007/s00445-011-0456-1
1316. Andò, B., **Coltelli M.**, **Prestifilippo M.**, **Scollo S.** (2011). A Lab-Scale Experiment to Measure Terminal Velocity of Volcanic Ash, *IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT*, 60, 4, doi: 10.1109/TIM.2010.2090690
1317. **Andronico, D.**, **Corsaro R. A.** (2011). Lava fountains during the episodic eruption of South-East Crater (Mt. Etna), 2000: insights into magma-gas dynamics within the shallow volcano plumbing system, *Bulletin of Volcanology*, 73, 1165-1178, doi: 10.1007/s00445-011-0467-y
1318. **Azzaro, R.**, **D'Amico S.**, **Tuvè T.** (2011). Estimating the magnitude of historic earthquakes from macroseismic intensity data: new relationships for the volcanic region of Mount Etna (Italy), *Seismological Research Letters*, 82, 4, doi: 10.1785/gssrl.82.4.533
1319. **Azzaro, R.**, **Barbano M. S.**, **D'Amico S.**, **Tuvè T.**, **Scarfi L.**, **Mostaccio A.** (2011). The L'Aquila 2009 earthquake: an application of the European Macroseismic Scale to the damage survey in the epicentral area, *Bollettino Geofisica Teorica e Applicata*, 52, 3, doi: 10.4430/bgta0012
1320. Bagnato, E., Aiuppa A., **Andronico D.**, **Cristaldi A.**, **Liotta M.**, Brusca L. (2011). Leachate analyses of volcanic ashes from Stromboli volcano: A proxy for the volcanic gas plume composition?, *Journal of Geophysical Research*, 116, D17204, doi: 10.1029/2010JD015512
1321. Battaglia, M., Di Bari M., Acocella V., **Neri M.** (2011). Dike emplacement and flank instability at Mount Etna: Constraints from a poro-elastic-model of flank collapse, *Journal of Volcanology and Geothermal Research*, 199, 153-164, doi: 10.1016/j.jvolgeores.2010.11.005
1322. Belousov, A., **Behncke B.**, Belousova M. (2011). Generation of pyroclastic flows by explosive interaction of lava flows with ice/water-saturated substrate. *J. Volcanol. Geotherm. Res.*, 202, 60-72, doi: 10.1016/j.jvolgeores.2011.01.004
1323. Bemis, K., Walker J., Borgia A., Turrin B., **Neri M.**, Swisher III C. (2011). The growth and erosion of cinder cones in Guatemala and El Salvador: Models and statistics, *Journal of Volcanology and Geothermal Research*, 201, 39-52, doi: 10.1016/j.jvolgeores.2010.11.007

1324. Bilotta G., Rustico E., **Herault A.**, **Vicari A.**, Russo G., **Del Negro C.**, Gallo G. (2011). Porting and optimizing MAGFLOW on CUDA, *Annals of Geophysics*, 54, 5, 580-591, doi: 10.4401/ag-5341
1325. Bilotta, G., Russo G., **Herault A.**, **Del Negro C.** (2011). Moving least-squares corrections for smoothed particle hydrodynamics, *Annals of Geophysics*, 54, 5, 622-633, doi:10.4401/ag-5344
1326. **Bonaccorso, A.**, **Bonforte A.**, **Currenti G.**, **Del Negro C.**, **Di Stefano A.**, **Greco, F.** (2011). Magma storage, eruptive activity and flank instability: inferences from ground deformation and gravity changes during the 1993-2000 recharging of mt. Etna volcano, *Journal Volcanology and Geothermal Research*, 200, 3-4, 245-254, doi:10.1016/j.jvolgeores.2011.01.001
1327. **Bonaccorso, A.**, **Bonforte A.**, **Calvari S.**, **Del Negro C.**, **Di Grazia G.**, **Ganci G.**, **Neri, M.**, **Vicari, A.**, **Boschi E.** (2011). The initial phases of the 2008–2009 Mount Etna eruption: A multidisciplinary approach for hazard assessment, *Journal of Geophysical Research*, 116, B03203, doi: 10.1029/2010JB007906
1328. **Bonaccorso, A.**, **Caltabiano T.**, **Currenti G.**, **Del Negro C.**, **Gambino S.**, **Ganci G.**, **Giammanco S.**, **Greco F.**, **Pistorio A.**, **Salerno G.**, **Spampinato S.**, **Boschi E.** (2011). Dynamics of a lava fountain revealed by geophysical, geochemical and thermal satellite measurements: The case of the 10 April 2011 Mt Etna eruption, *Geophysical Research Letters*, 38, L24307, doi: 10.1029/2011GL049637
1329. **Bonaccorso, A.**, **Cannata A.**, **Corsaro R. A.**, **Di Grazia G.**, **Gambino S.**, **Greco F.**, **Miraglia L.**, **Pistorio A.** (2011). Multidisciplinary investigation on a lava fountain preceding a flank eruption: The 10 May 2008 Etna case, *Geochemistry Geophysics Geosystems*, 12, 7, doi:10.1029/2010GC003480
1330. **Bonanno, A.**, **Palano M.**, **Privitera E.**, **Gresta S.**, **Puglisi G.** (2011). Magma intrusion mechanisms and redistribution of seismogenic stress at Mt. Etna volcano (1997–1998), *Terra Nova*, 23, 5, 339-348, doi: 10.1111/j.1365-3121.2011.01019.x
1331. **Bonforte, A.**, **Guglielmino F.**, **Coltelli M.**, **Ferretti A.**, **Puglisi G.** (2011). Structural assessment of Mount Etna volcano from Permanent Scatterers analysis, *Geochemistry Geophysics Geosystems*, 12, 2, doi: 10.1029/2010GC003213
1332. **Branca, S.**, **Coltelli M.**, **Groppelli G.**, **Lentini F.** (2011). Geological map of Etna volcano, 1:50,000 scale, *Italian Journal Geosciences*, 130,3, 265-291, doi: 10.3301/IJG.2011.15
1333. **Branca, S.**, **Coltelli M.**, **Groppelli G.** (2011). Geological evolution of a complex basaltic strato volcano, *Italian Journal Geosciences*, 130, 3, 306-317, doi: 10.3301/IJG.2011.13
1334. **Brancato, A.**, **Gresta S.**, **Alparone S.**, **Andronico D.**, **Bonforte A.**, **Caltabiano T.**, **Cocina O.**, **Corsaro R. A.**, **Cristofolini R.**, **Di Grazia G.**, **Distefano G.**, **Ferlito C.**, **Gambino S.**, **Giammanco S.**, **Greco F.**, **Napoli R.**, **Sandri L.**, **Selva J.**, **Tusa G.**, **Viccaro M.** (2011). Application of BET\_EF to Mount Etna: a retrospective analysis (years 2001-2005), *Annals of Geophysics*, 54, 5, 642-661, doi: 10.4401/ag-5346
1335. **Calvari, S.**, **Branca S.**, **Corsaro R. A.**, **De Beni E.**, **Miraglia L.**, **Norini G.**, **Wijbrans J.**, **Boschi E.** (2011). Reconstruction of the eruptive activity on the NE sector of Stromboli volcano: timing of flank eruptions since 15 ka, *Bulletin of Volcanology*, 73, 101-112, doi: 10.1007/s00445-010-0412-5
1336. **Calvari, S.**, **Tanner L. H.** (2011). The Miocene Costa Giardini diatreme, Iblean Mountains, southern Italy: Model for maar-diatreme formation on a submerged carbonate platform, *Bulletin of Volcanology*, 73, 557-576, doi: 10.1007/s00445-010-0436-x
1337. **Calvari, S.**, **Salerno G. G.**, **Spampinato L.**, **Gouhier M.**, **La Spina A.**, **Pecora E.**, **Harris A. J. L.**, **Labazuy P.**, **Biale E.**, **Boschi E.** (2011). An unloading foam model to constrain Etna's 11–13 January 2011 lava fountaining episode, *Journal of Geophysical Research*, 116, B11207, doi: 10.1029/2011JB008407
1338. **Calvari, S.**, **Spampinato L.**, **Bonaccorso A.**, **Oppenheimer C.**, **Rivalta, E.**, **Boschi E.** (2011). Lava effusion – a slow fuse for paroxysms at Stromboli volcano?, *Earth Planetary Science Letters*, 301, 317-323, doi: 10.1016/j.epsl.2010.11.015
1339. **Calvari, S.** (2011). Monitoring eruptive activity through web-cameras network and thermal mapping, *Acta Vulcanologica*, 22, 1\2, 47-52

1340. **Cannata, A., Montalto P., Aliotta M.,** Cassisi C., Pulvirenti A., **Privitera E., Patanè D.** (2011). Clustering and classification of infrasonic events at Mount Etna using pattern recognition techniques, *Geophysical Journal International*, 185, 253-264, doi: 10.1111/j.1365-246X.2011.04951.x
1341. **Cannata, A., Sciotto M., Spampinato L.,** Spina L. (2011). Insights into explosive activity at closely-spaced eruptive vents using infrasound signals: Example of Mt. Etna 2008 eruption, *Journal of Volcanology and Geothermal Research*, 208, 1-11, doi: 10.1016/j.jvolgeores.2011.09.003
1342. **Cannavò, F., Palano M.** (2011). PlatEMotion: a Matlab® Tool for Geodetic Reference Frame Definition, *Rapporti Tecnici INGV*, 201
1343. **Cappello, A., Vicari A., Del Negro C.** (2011). Retrospective validation of a lava flow hazard map for Mount Etna volcano, *Annals of Geophysics*, 54, 5, doi: 10.4401/ag-5345
1344. **Cappello, A., Vicari A., Del Negro C.** (2011). Assessment and modeling of lava flow hazard on Mt. Etna volcano, *Bollettino di Geofisica Teorica e Applicata*, 52, 2, doi: 10.4430/bgta0003
1345. Cassisi, C., **Montalto P., Pulvirenti A., Aliotta M., Cannata A.** (2011). PYDBSCAN UN SOFTWARE PER IL CLUSTERING DI DATI, *Rapporti tecnici*, 182
1346. Chiocci, F.L., **Coltelli M.,** Bosman A., Cavallaro D. (2011). Continental margin large-scale instability controlling the flank sliding of Etna volcano, *EARTH AND PLANETARY SCIENCE LETTERS*, 305 57-64, doi: 10.1016/j.epsl.2011.02.040
1347. Cioni, R., Bertagnini A., **Andronico D.,** Cole P. D., Mundula F. (2011). The 512 AD eruption of Vesuvius: complex dynamics of a small scale subplinian event, *Bulletin of Volcanology*, 73, 789-810, doi: 10.1007/s00445-011-0454-3
1348. **Coltelli, M., Prestifilippo M., Scollo S., Spata G.** (2011). Radiosondaggi atmosferici nell'area etnea, *Rapporti Tecnici INGV*, 193
1349. **Currenti, G., Napoli R., Di Stefano A., Greco F., Del Negro C.** (2011). 3D integrated geophysical modeling for the 2008 magma intrusion at Etna: Constraints on rheology and dike overpressure, *Physics of the Earth and Planetary Interiors*, 185, 44-52, doi: 10.1016/j.pepi.2011.01.002
1350. **Currenti, G., Napoli R., Del Negro C.** (2011). Toward a realistic deformation model of the 2008 magmatic intrusion at Etna from combined DInSAR and GPS observations, *Earth and Planetary Science Letters*, 312, 22-27, doi: 10.1016/j.epsl.2011.09.058
1351. De Barros, L., Lokmer I., Bean C. J., O'Brien G. S., Saccorotti G., Métaixian J. P., **Zuccarello L., Patanè D.** (2011). Source mechanism of long-period events recorded by a high-density seismic network during the 2008 eruption on Mount Etna, *Journal of Geophysical Research*, 116, B01304, doi: 10.1029/2010JB007629
1352. **De Beni, E., Branca S., Coltelli M.,** Groppelli G., Wijbrans J. R. (2011). 40Ar/39Ar isotopic dating of Etna volcanic succession, *Italian Journal Geosciences*, 130, 3, 292-305, doi: 10.3301/IJG.2011.14
1353. De Gori, P., Chiarabba C., **Giampiccolo E.,** Arevalo C.M., **Patanè D.** (2011). Body wave attenuation heralds incoming eruptions at Mount Etna, *Geology*, 39, 503-506, doi: 10.1130/G31993.1
1354. De Martino, S., Falanga, M., Palo P., **Montalto P., Patanè D.** (2011). Statistical analysis of the volcano seismicity during the 2007 crisis, *Journal of Geophysical Research*, 116, B09312, doi: 10.1029/2010JB007503
1355. D'Oriano, C., Cioni R., Bertagnini A., **Andronico D.,** Cole P. D. (2011). Dynamics of ash-dominated eruptions at Vesuvius: the post-512 AD AS1a event, *Bulletin of Volcanology*, 73, 699-715, doi: 10.1007/s00445-010-0432-1
1356. **Ferro, A., Gambino S.,** Panepinto S., **Falzone G., Laudani G.,** Ducarme B. (2011). High Precision Tilt Observation at Mt. Etna Volcano, Italy, *Acta Geophysica*, 59, 3, doi: 10.2478/s11600-011-0003-7

1357. **Gambino, S., Bonforte A., Carnazzo A., Falzone G., Ferrari F., Ferro A., Guglielmino F., Laudani G., Maiolino V., Puglisi G.** (2011). Displacement across the Trecastagni Fault (Mt. Etna) and induced seismicity: the October 2009 to January 2010 episode, *Annals of Geophysics*, 54, 4, 414-423, doi: 10.4401/ag-4841
1358. **Ganci, G., Vicari A., Fortuna L., Del Negro C.** (2011). The HOTSAT volcano monitoring system based on combined use of SEVIRI and MODIS multispectral data, *Annals of Geophysics*, 54, 5, doi: 10.4401/ag-5338
1359. **Ganci, G., Vicari A., Bonfiglio S., Gallo G., Del Negro C.** (2011). A texton-based cloud detection algorithm for MSG-SEVIRI multispectral images, *Geomatics, Natural Hazards and Risk*, 2, 3, 1-12, doi: 10.1080/19475705.2011.578263
1360. **Greco, F., Pistorio A., Currenti G., Del Negro C., Napoli R., Scandura D.** (2011). 4D Hybrid Microgravity Measurements: Two Case Studies of Monitoring at Mt. Etna Volcano and at a Gas Storage Reservoir in Northern Italy, *Miscellanea INGV*, 12
1361. **Guglielmino, F., Bignami C., Bonforte A., Briole P., Obrizzo F., Puglisi G., Stramondo S., Wegmuller U.** (2011). Analysis of satellite and in situ ground deformation data integrated by the SISTEM approach: the April 3, 2010 earthquake along the Pernicana fault (Mt. Etna - Italy) case study, *Earth and Planetary Science Letters*, 312, 327-336, doi: 10.1016/j.epsl.2011.10.028
1362. **Guglielmino, F., Nunnari G., Puglisi G., Spata A.** (2011). Simultaneous and Integrated Strain Tensor Estimation from geodetic and satellite deformation Measurements (SISTEM) to obtain three-dimensional displacements maps, *IEEE Transactions on Geoscience and Remote Sensing*, 49, 6, doi: 10.1109/TGRS.2010.2103078
1363. Harris, A. J. L., Steffke A., **Calvari S., Spampinato L.** (2011). Thirty years of satellite-derived lava discharge rates at Etna: Implications for steady volumetric output, *Journal of Geophysical Research*, 116, B08204, doi: 10.1029/2011JB008237
1364. **Herault, A., Bilotta G., Vicari, A., Rustico E., Del Negro C.** (2011). Numerical simulation of lava flow using a GPU SPH model, *Annals of Geophysics*, 54, 5, doi: 10.4401/ag-5343
1365. **Langer, H., Falsaperla S., Messina A., Spampinato S., Behncke B.** (2011). Detecting imminent eruptive activity at Mt Etna, Italy, in 2007–2008 through pattern, *Journal of Volcanology and Geothermal Research*, 200, 1-17, doi: 10.1016/j.jvolgeores.2010.11.019
1366. **Lo Castro, M. D., Andronico, D. Cassisi, C., Montalto, P., Prestifilippo, M.** (2011). Implementazione di una nuova procedura per caratterizzare la forma di particelle mediante misure al CAMSIZER e algoritmi di clustering, *Quaderni di Geofisica*, 94
1367. Madonia, P., Grassa F., Cangemi M., **Musumeci C.** (2011). Geomorphological and geochemical characterization of the August 11, 2008 mud volcano eruption at S. Barbara village (Sicily, Italy) and its possible relationship with seismic activity, *Natural Hazards and Earth System sciences*, 11, 1545-1557, doi: 10.5194/nhess-11-1545-2011
1368. Marsella, M. A., Scifoni S., **Coltelli M., Proietti C.** (2011). Quantitative analysis of the 1981 and 2001 Etna flank eruptions: a contribution for future hazard evaluation and mitigation, *Annals of Geophysics*, 54, 5, 492-498, doi: 10.4401/ag-5334
1369. Merucci, L., Burton M., Corradini S., **Salerno G. G.** (2011). Reconstruction of SO<sub>2</sub> flux emission chronology from space-based measurements, *Journal of Volcanology and Geothermal Research*, 206, 80-87, doi: 10.1016/j.jvolgeores.2011.07.002
1370. **Messina, A., Langer H.** (2011). Pattern recognition of volcanic tremor data on Mt. Etna (Italy) with KAnalysis — A software program for unsupervised classification, *Computers & Geosciences*, 37, 7, 953-961, doi: 10.1016/j.cageo.2011.03.015
1371. Métrich, N., **Allard P., Aiuppa A., Bani P., Bertagnini A., Shinohara H., Parello F., Di Muro A., Garaebiti E., Belhadj O., Massare D.** (2011). Magma and Volatile Supply to Post-collapse Volcanism and Block Resurgence in Siwi Caldera (Tanna Island, Vanuatu Arc), *Journal of Petrology*, 52, 6, 1077-1105, doi: 10.1093/petrology/egr019

1372. **Montalto, P., D'Amico S., Aliotta M., Amore M.** (2011). Progetto di una banca dati multidisciplinare: il progetto europeo VOLUME come caso di studio, *Rapporti tecnici*, 187
1373. Morelli, D., Immè G., Altamore I., Cammisa S., **Giammanco S.**, La Delfa S., Mangano G., **Neri M.**, Patanè G. (2011). Radionuclide measurements, via different methodologies, as tool for geophysical studies on Mt. Etna, *Nuclear Instruments and Methods in Physics Research A*, 652, 911-914, doi: 10.1016/j.nima.2011.01.172
1374. Morelli, D., Immè G., Altamore I., Aranzulla M., Cammisa S., Catalano R., **Giammanco S.**, La Delfa S., Mangano G., **Neri M.**, Patanè G., Rosselli Tazzer A. (2011). Radiation measurements as tool for environmental and geophysics studies on volcano-tectonic areas, *Il Nuovo Cimento*, 34 C, 1, doi: 10.1393/ncc/i2011-10823-0
1375. **Napoli, R., Pistorio A., Scandura D., Currenti G., Greco F., Del Negro C.** (2011). Design and application of an adaptive nonstationary filter for noise reduction in volcanomagnetic monitoring at Mt Etna, *Geomatics, Natural Hazards and Risk*, 2, 3, 291-304, doi: 10.1080/19475705.2011.575477
1376. **Napoli, R., Currenti G., Del Negro C., Di Stefano A., Greco F.**, Boschi E. (2011). Magnetic features of the magmatic intrusion that occurred in the 2007 eruption at Stromboli Island (Italy), *Bulletin of Volcanology*, 73, 1311-1322, doi: 10.1007/s00445-011-0473-0
1377. **Neri, M.**, Acocella V., **Behncke B., Giammanco S.**, Mazzarini F., Rust D. (2011). Structural analysis of the eruptive fissures at Mount Etna (Italy), *Annals of Geophysics*, 54,5, 464-479, doi: 10.4401/ag-5332
1378. **Neri, M., Giammanco S.**, Ferrera E., Patanè G., Zanon V. (2011). Spatial distribution of soil radon as a tool to recognize active faulting on an active volcano: the example of Mt. Etna (Italy), *Journal of Environmental Radioactivity*, 102, 863-870, doi: 10.1016/j.jenvrad.2011.05.002
1379. **Neri, M.** (2011). Shallow dike emplacement and related hazard in central stratovolcanoes, *Acta Vulcanologica*, 22, 1/2, 53-56.
1380. O'Brien, G. S., Lokmer I., De Barros L., Bean C. J., Saccorotti G., Metaxian J. P., **Patanè D.** (2011). Time reverse location of seismic long-period events recorded on Mt Etna, *Geophysical Journal International*, 184, 452-462, doi: 10.1111/j.1365-246X.2010.04851.x
1381. **Palano, M., Cannavò F.**, Ferranti L., **Mattia M.**, Mazzella M. E. (2011). Strain and stress fields in the Southern Apennines (Italy) constrained by geodetic, seismological and borehole data, *Geophysical Journal International*, 187, 1270-1282, doi: 10.1111/j.1365-246X.2011.05234.x
1382. **Patanè, D., Aliotta M., Cannata A., Cassisi C., Coltelli M., Di Grazia G., Montalto P., Zuccarello L.** (2011). Editors: Schattner, Uri; Charney School of Marine Sciences, University of Haifa, Israel, Title: Interplay between Tectonics and Mount Etna's Volcanism: Insights into the Geometry of the Plumbing System, *New Frontiers in Tectonic Research - At the Midst of Plate Convergence*, 73-104, ISBN: 978-953-307-594-5
1383. Pesci, A., **Bonforte A.**, Casula G., **Puglisi G., Aiesi G., Amantia A., Calvagna F., Cantarero M., Consoli S., Consoli O., Manni M., Marturano M., Saraceno B.** (2011). Esperienza di monitoraggio mediante laser scanner nell'Isola di Vulcano: Rilievo multi temporale della Forgia vecchia, *Rapporti Tecnici INGV*, 184
1384. Pesci, A., Casula G., **Bonforte A., Puglisi G., Aiesi G., Amantia A., Calvagna F., Cantarero M., Consoli S., Consoli O., Manni M., Marturano M., Saraceno B.** (2011). La prima esperienza laser scanner per il rilievo del cratere dell'isola di Vulcano: La creazione del modello a scala variabile per integrazione con rilievi aerofotogrammetrici, *Rapporti Tecnici INGV*, 186
1385. **Pistorio, A., Greco F., Currenti G., Napoli R., Sicali A., Del Negro C.**, Fortuna L. (2011). High-precision gravity measurements using absolute and relative, *Annals of Geophysics*, 54, 5, 500-509, doi: 10.4401/ag-5348
1386. **Proietti, C., De Beni E., Coltelli M., Branca S.** (2011). The flank eruption history of Etna (1610-2006) as a constraint on lava flow hazard, *Annals of Geophysics*, 54, 5, doi: 10.4401/ag-5333

1387. Rongo, R., Avolio M. A., **Behncke B.**, D'Ambrosio D., Di Gregorio S., Lupiano V., **Neri M.**, Spataro W., Crisci G. M. (2011). Defining high-detail hazard maps by a cellular automata approach: application to Mount Etna (Italy), *Annals of Geophysics*, 54,5, doi: 10.4401/ag-5340
1388. Rustico, E., Bilotta G., **Herault A.**, **Del Negro C.**, Gallo G. (2011). Scalable multi-GPU implementation of the MAGFLOW simulator, *Annals of Geophysics*, 54, 5, 592-599, doi: 10.4401/ag-5342
1389. Sawyer, G. M., **Salerno G. G.**, Le Blond J. S., Martin R. S., **Spampinato L.**, Roberts T. J, Mather T. A., Witt, M. L. I., Tsanev V. I., Oppenheimer C. (2011). Gas and aerosol emissions from Villarrica volcano, Chile, *Journal of Volcanology and Geothermal Research*, 203, 62-75, doi: 10.1016/j.jvolgeores.2011.04.003
1390. **Sciotto, M.**, **Cannata A.**, **Di Grazia G.**, **Gresta S.**, **Privitera E.**, Spina L. (2011). Seismoacoustic investigations of paroxysmal activity at Mt. Etna volcano: New insights into the 16 November 2006 eruption, *Journal Geophysical Research*, 116, B09301, doi: 10.1029/2010JB008138
1391. **Scollo, S.**, **Prestifilippo M.**, **Coltelli M.**, **Spata G.** (2011). A statistical approach to evaluate the tephra deposit and ash concentration from PUFF model forecasts, *Journal of Volcanology and Geothermal Research*, 200, 129-142, doi: 10.1016/j.jvolgeores.2010.12.004
1392. **Scollo, S.**, Leto G., Pisani G., Spinelli N., Wang X., Tontodonato V., **Coltelli M.** (2011). Realizzazione di una stazione fissa per misure LIDAR sull'Etna, *Rapporti Tecnici INGV*, 199
1393. **Spampinato, L.**, **Calvari S.**, Oppenheimer C., Boschi E. (2011). Volcano surveillance using infrared cameras, *Earth-Science Reviews*, 106, 63-91, doi: 10.1016/j.earscirev.2011.01.00
1394. Steffke, A. M., Harris A. J. L., Burton M. R., **Caltabiano T.**, **Salerno G.G.** (2011). Coupled use of COSPEC and satellite measurements to define the volumetric balance during effusive eruptions at Mt. Etna, Italy, *Journal of Volcanology and Geothermal Research*, 205, 47-53, doi: 10.1016/j.jvolgeores.2010.06.004
1395. Taddeucci, J., Scarlato P., Montanaro C., Cimarelli C., Del Bello E., Freda C., **Andronico D.**, Gudmundsson, M. T., Dingwell, B. D. (2011). Aggregation-dominated ash settling from the Eyjafjallajökull volcanic cloud illuminated by field and laboratory high-speed imaging, *Geology*, 39, 9, 891-894, doi: 10.1130/G32016.1
1396. **Vicari, A.**, **Ganci G.**, **Behncke B.**, **Cappello A.**, **Neri M.**, **Del Negro C.** (2011). Near-real-time forecasting of lava flow hazards during the 12–13 January 2011 Etna eruption, *Geophysical Research Letters*, 38, L13317, doi: 10.1029/2011GL047545
1397. **Vicari, A.**, Bilotta G., Bonfiglio S., **Cappello A.**, **Ganci G.**, **Herault A.**, Rustico E., Gallo G., **Del Negro C.** (2011). LAV@HAZARD: A Web-Gis interface for volcanic hazard assessment, *Annals of Geophysics*, 54, 5, 662-670, doi: 10.4401/ag-5347
1398. Wijbrans, J., Schneider B., Kuiper K., **Calvari S.**, **Branca S.**, **De Beni E.**, Norini G., **Corsaro R. A.**, **Miraglia, L.** (2011).  $^{40}\text{Ar}/^{39}\text{Ar}$  geochronology of Holocene basalts; examples from Stromboli, Italy, *Quaternary Geochronology*, 6, 223-232, 10.1016/j.quageo.2010.10.003