May 2023

CURRICULUM VITAE ET STUDIORUM – SHORT VERSION

1 - PERSONAL INFORMATION

Surname: **ACOCELLA**
First Name: **VALERIO**
Birth: Rome, March 9, 1968
Nationality: Italian

2 - EDUCATION HISTORY

June 2016: Associate professor at Dipartimento Scienze, Universita Roma Tre, Italy.
December 2013: Qualification for full professorship in the Italian Academia.
2009 - Present: Professorship habilitation at Roma Tre.
November 2006: Permanent research scientist at Dipartimento Scienze Geologiche Universita Roma Tre, Italy.
August 2001 - December 2006: Post-doc on volcano-tectonics (Universita Roma Tre).
January-October 2000: National (MURST) grant on "Ethiopian Rift" (Roma Tre).
November 1995-December 1999: 4-years Ph.D. in Earth Sciences (University of Siena, Italy), on: "Mechanisms of pluton emplacement in Southern Tuscany, Italy".
June-October 1995: EU grant ("GeoModAp" EEC EV5V-CT94-0464) on: "Volcano-tectonic features of Ischia Island, Southern Italy" (Roma Tre).
February 1995: Attainment of the Italian professional geologist qualification.
November 1993: Geological Science "Laurea" (B.Sc. equivalent; University "La Sapienza", Roma), with honors.
July 1987: Scientific High School license ("W. Goethe", Roma).

2 - RESEARCH

H-index:	46 (ISI)	**Citations:**	5666
	47 (Scopus)	**Citations**:	6223
	53 (Google Scholar).	**Citations:**	8093

Ranking: VA ranks as #51324 in the 2019 ranking metrics of the 100.000 top world scientists (https://doi.org/10.1371/journal.pbio.3000384).

Main research topics (number in brackets refer to the publications listed below):

(a) planetary geology (*84, 114*), continental and oceanic rift architecture *(8, 16, 21, 22, 31, 38, 52, 55, 58, 72, 74, 82, 90, 101, 103, 106, 107, 110, 116, 118, 129, 150)*, arc structure *(27, 38, 43, 51, 60, 61, 63, 66, 67, 99, 106, 117, 131, 135)*, back-arc extension and magmatism *(1, 19, 41, 71, 81, 86)*, collisional magmatism *(87, 102)* hot spots *(68)*, active extensional and strike-slip tectonics *(8, 22, 32, 43, 48)*; fault interaction *(3, 6, 8, 11, 32, 34, 35)*;

(b) magma-induced deformation *(37, 69, 154)*: volcano location *(5, 19, 21, 36, 130, 138)*, caldera *(9, 14, 21, 30, 38, 47, 48, 50, 53, 54, 56, 59, 73, 80, 88, 89, 91, 94, 105, 108, 109, 112, 115, 121, 122, 126, 134, 141, 142)*, resurgence *(2, 4, 9, 15, 23, 30, 128, 137, 146)*, flank collapse *(28, 29, 33, 39, 40, 49, 64, 75, 76, 79, 83, 93, 95, 96, 97, 98, 119),* laccolith *(10, 20)*, dikes *(24, 25, 26, 37, 36, 42, 44, 45, 46, 57, 62, 70, 85, 100, 111, 113, 120, 125, 132, 133, 145, 147, 148)*, sills (139), fracturing *(24, 25, 26, 28, 29, 32), seismic and volcanic activity (28, 65, 78, 140, 143, 144,)*, volcanic hazard and eruption forecasting (77, *92, 104, 123, 124, 127, 136, 151, 152, 153, 155*), magma chamber (149).

(c) structural control on pluton emplacement and pluton-induced deformations *(7, 10, 12, 13, 17, 18, 50).*

Main methodologies:

Field analysis, analogue modelling, remote sensing, InSAR.

Study areas:

Italy (Ischia, Campi Flegrei, Vesuvio, Etna, Aeolian arc, Vulsini, Tuscany), Iceland, Ethiopia, Afar, New Zealand, Japan, Kamchatka, Central Andes, Easter Island, Azores, Iran, Galapagos Islands.

3.1 - peer-reviewed PUBLICATIONS on NATIONAL journals

1) Acocella V., Faccenna C., Funiciello R. (1996) Elementi strutturali della media Valle Latina. *Bollettino Società Geologica Italiana*, 115, 501-518.
2) Acocella V., Funiciello R., Lombardi S. (1997) Active regional tectonics and resurgence at Ischia island (Southern Italy). *Il Quaternario,* 10 (2), 427-432.
3) Acocella V., Salvini F., Pizzino L., Quattrocchi F., Faccenna C., Funiciello R. (1997) Anomalie geochimiche e meccanismi di estensione: il caso della sequenza sismica umbro-marchigiana del settembre-ottobre 1997. In: Studi preliminari sulla sequenza sismica dell'Appennino Umbro-Marchigiano del settembre-ottobre 1997. *Pubblicazione ING*, Roma, pp. 66-71.
11) Acocella V., Faccenna C., Funiciello R., Rossetti F. (2000) Analogue models of extensional transfer zones. *Boll. Soc. Geol. It.,* 119, 85-96.
12) Acocella V., Rossetti F., Faccenna C., Funiciello R., Lazzarotto A. (2000) Strike-slip faulting and pluton emplacement at Campiglia Marittima (Southern Tuscany). *Boll. Soc Geol. It.,* 119, 517-528.
19) Acocella V., Funiciello R. (2002) Transverse structures and volcanic activity along the Tyrrhenian margin of central Italy. *Mem. Soc. Geol. It*., 1, 739-747.
20) Acocella V., Pascucci V., Dominici G. (2002) Basin deformation due to laccolith emplacement at Radicofani (Southern Tuscany, Italy). *Mem. Soc. Geol. It.*, 1, 749-756.

3.2 - peer-reviewed PUBLICATIONS on INTERNATIONAL journals

4) Acocella V., Funiciello R. (1999) The interaction between regional and local tectonics during resurgent doming: the case of the island of Ischia, Italy. *Journal of Volcanology and Geothermal Research*, 88, 109-123.
5) Acocella V., Salvini F., Funiciello R., Faccenna C. (1999) The role of transfer structures on volcanic activity at Campi Flegrei (Southern Italy). *Journal of Volcanology and Geothermal Research*, 91, 123-139.
6) Acocella V., Faccenna C., Funiciello R., Rossetti F. (1999) Sand-box modelling of basement controlled transfer zones in extensional domains. *Terra Nova*, 11, 149-156.
7) Rossetti F., Faccenna C., Acocella V., Funiciello R., Jolivet L., Salvini F. (1999) Pluton emplacement in the Northern Tyrrhenian area (Italy). *Journal of the Geological Society, London, Special Pubblication,* 174, 55-77.
8) Acocella V., Gudmundsson A., Funiciello R. (2000) Interaction and linkage of extension fractures and normal faults: examples from the rift zone of Iceland. *Journal of Structural Geology,* 22, 1233-1246.
9) Acocella V., Cifelli F., Funiciello R. (2000) Analogue models of collapse calderas and resurgent domes. *Journal of Volcanology and Geothermal Research*, 104, 81-96.
10) Acocella V. (2000) Space accommodation by roof lifting during pluton emplacement at Amiata (Italy). *Terra Nova*, 12, 149-155.
13) Acocella V., Mulugeta G. (2001) Surface deformation induced by pluton emplacement: the case of Amiata (Italy). *Physics and Chemistry of the Earth,* 26, 355-362.
14) Acocella V., Cifelli F., Funiciello R. (2001) Formation of nonintersecting nested calderas: insights from analogue models. *Terra Nova,* 13, 58-63.

15) Acocella V., Cifelli F., Funiciello R. (2001) The control of overburden thickness on resurgent domes: insights from analogue models. *Journal of Volcanology and Geothermal Research,* 111, 137-153.
16) Acocella V., Korme T. (2002) Holocene extension direction along the Main Ethiopian Rift, East Africa. *Terra Nova,* 14, 191-197.
17) Acocella V., Mulugeta G. (2002) Experiments simulating surface deformation induced by pluton emplacement. *Tectonophysics*, 352, 275-293.
18) Acocella V., Rossetti F. (2002) The role of extensional tectonics at different crustal levels on granite ascent and emplacement: an example from Tuscany (Italy). *Tectonophysics,* 354, 71-83.
21) Acocella V., Korme T., Salvini F., Funiciello R. (2002) Elliptic calderas in the Ethiopian Rift: control of pre-existing structures. *Journal of Volcanology and Geothermal Research,* 119, 189-203.
22) Acocella V., Korme T., Salvini F. (2003) Formation of normal faults along the axial zone of the Ethiopian Rift. *Journal of Structural Geology,* 25, 503-513.
23) Molin P., Acocella V., Funiciello R. (2003) Structural, seismic and hydrothermal features at the border of an active intermittent resurgent block: Ischia island (Italy). *Journal of Volcanology and Geothermal Research,* 121, 65-81.
24) Acocella V., Neri M. (2003) What makes flank eruptions? The 2001 Etna eruption and its possible triggering mechanisms. *Bulletin of Volcanology,* 65, 517-529.
25) Billi A., Acocella V., Funiciello R., Giordano G., Lanzafame G., Neri M. (2003) Mechanism for ground surface fracturing and incipient slope failure associated with the 2001 eruption of Mt. Etna, Italy: analysis of ephemeral field data. *Journal of Volcanology and Geothermal Research,* 122, 281-294.
26) Lanzafame G., Neri M., Acocella V., Billi A., Funiciello R., Giordano G. (2003) Structural features of the July-August 2001 Mount Etna eruption: evidence for a complex magma supply system. *Journal of the Geological Society of London*, 160, 531-544.
27) Acocella V., Spinks K., Cole J., Nicol, A. (2003) Oblique back-arc rifting of Taupo Volcanic Zone, New Zealand. *Tectonics,* 22, 4, 1045, doi:10.1029/2002TC001447.
28) Acocella V., Behncke B., Neri M. D'Amico S. (2003) Link between major flank slip and 2002-2003 eruption at Mt. Etna (Italy). *Geophysical Research Letters* 30, 24, 2286, doi: 10.1029/2003GL018642.
29) Neri M., Acocella V., Behncke B. (2004) The role of the Pernicana Fault System in the spreading of Mt. Etna (Italy) during the 2002-2003 eruption. *Bulletin of Volcanology,* 66, 417-430. DOI: 10.1007/s00445-003-0322-x.
30) Acocella V., Funiciello R., Marotta E., Orsi G., de Vita S. (2004) The role of extensional structures on experimental calderas and resurgence. *Journal of Volcanology and Geothermal Research*, 129, 199-217. Also on *"Experimental Earth" Virtual Journal,* (www.experimentalearth.com), 1, 5 (2003).
31) Korme T., Acocella V. Abebe B. (2004) The role of pre-existing structures in the origin, propagation and architecture of faults in the Main Ethiopian rift. *Gondwana Research*, 7, 467-479.
32) Acocella V., Neri M. (2005) Structural features of an active strike-slip fault on the sliding flank of Mt. Etna (Italy). *Journal of Structural Geology,* 27, 343-355.
33) Acocella V. (2005) Modes of sector collapse of volcanic cones: insights from analogue experiments. *Journal of Geophysical Research, 110, B2, B02205,* 10.1029/2004JB003166.
34) Hus R., Acocella V., Funiciello R., De Batist M. (2005) Sandbox models of relay ramp structure and evolution. *Journal of Structural Geology*, 27, 459-473.
35) Acocella V., Morvillo P., Funiciello R. (2005) What controls relay ramps and transfer

faults within rift zones? Insights from analogue models. *Journal of Structural Geology*, 27, 397-408.

36) Acocella V., Tibaldi A. (2005) Dike propagation driven by volcano collapse: a general model tested at Stromboli, Italy. *Geophysical Research Letters*, 32, L08308, 10.1029/2004GL022248.
37) Gudmundsson A., Acocella V., De Natale G., (2005) The Tectonics and Physics of Volcanoes. Preface. *Journal of Volcanology and Geothermal Research,* 144, 1-5.
38) Spinks K., Acocella V., Cole J., Bassett K., (2005) Structural control of volcanism and caldera development in the transtensional Taupo Volcanic Zone, New Zealand. *Journal of Volcanology and Geothermal Research,* 144, 7-22.
39) Neri M., Acocella V., Behncke B., Maiolino V., Ursino A, Velardita R., (2005) Contrasting triggering mechanisms of the 2001 and 2002-2003 eruptions of Mount Etna (Italy). *Journal of Volcanology and Geothermal Research,* 144, 235-255.
40) Walter T.R., Acocella V., Neri M., Amelung F. (2005) Feedback processes between magmatism and E-flank movement at Mt. Etna (Italy) during the 2002-2003 eruption. *Journal of Geophysical Research,* 110, B10125, 10.1029/2005JB003688.
41) Acocella V., Funiciello R. (2006) Transverse systems along the extensional Tyrrhenian margin of central Italy and their influence on volcanism. *Tectonics*, 25, TC2003, doi:10.1029/2005TC001845.
42) Acocella V., Porreca M., Neri M., Massimi E., Mattei M. (2006) Propagation of dikes at Vesuvio (Italy) and the effect of Mt. Somma. *Geophysical Research Letters,* 33, L08301, doi:10.1029/2005GL025590.
43) Kozhurin A., Acocella V., Kyle P.R., Lagmay F.M., Melekestsev I.V., Ponomareva V., Rust D., Tibaldi A., Tunesi A., Corazzato C., Rovida A., Sakharov A., Tengonciang A., Uy, H (2006) Trenching, active faults in Kamchatka, Russia: paleoseismological and tectonic implications. *Tectonophysics,* 417, 285-304.
44) Porreca M., Acocella V., Massimi E., Mattei M., Funiciello R., De Benedetti, A.A. (2006) Geometric and kinematic features of the dike complex at Mt. Somma, Vesuvio (Italy). *Earth and Planetary Science Letters,* 245, 389-407.
45) Acocella V., Porreca M., Neri M., Mattei M., Funiciello R., (2006) Fissure eruptions at Mount Vesuvius (Italy): insights on the shallow propagation of dikes at volcanoes. *Geology,* 34, 673-676.
46) Acocella V., Neri M., Scarlato P. (2006) Understanding shallow magma emplacement at volcanoes: orthogonal feeder dikes during the 2002-2003 Stromboli (Italy) eruption. *Geophysical Research Letters,* 33, L17310, doi:10.1029/2006GL026862.
47) Acocella, V. (2006) Caldera types: How end-members relate to evolutionary stages of collapse. *Geophysical Research Letters,* 33, L18314, doi:10.1029/2006GL027434.
48) Acocella V. (2006) Regional and local tectonics at Erta Ale caldera, Afar (Ethiopia). *Journal of Structural Geology,* 28, 1808-1820.
49) Neri M., Acocella V. (2006) The 2004-05 Etna eruption: implications for flank deformation and structural behaviour of the volcano. *Journal of Volcanology and Geothermal Research,* 158, 195-206.
50) Aizawa K., Acocella V., Yoshida T. (2006) How the development of magma chambers affects collapse calderas: an overview. *Journal of the Geological Society of London*, *Special Publication,* 269, 65-81.
51) Acocella V., Vezzoli L., Omarini R., Matteini M., Mazzuoli R. (2007) Kinematic variations across Eastern Cordillera at 24°S (Central Andes): tectonic and magmatic implications. *Tectonophysics,* 434, 81-92.

52) Abebe B., Acocella V., Korme T., Ayalew D. (2007) Quaternary faulting and volcanism in the main Ethiopian Rift. *Journal of African Earth Sciences,* 48, 115-124.
53) Scandone, R., Acocella V. (2007) Control of the aspect ratio of the chamber roof on caldera formation during silicic eruptions. *Geophysical Research Letters,* 34, L22307, doi:10.1029/2007GL032059.
54) Acocella V. (2007) Understanding caldera structure and development: an overview of analogue models compared to natural calderas. *Earth Science Reviews*, 85, 125-160.
55) Acocella V. (2008) Transform Faults or Overlapping Spreading Centers? Oceanic ridge interactions revealed by analogue models. *Earth and Planetary Science Letters,* 265, 379-385.
56) Acocella V. (2008) Structural development of calderas: a synthesis from analogue experiments. In: Caldera volcanism: analysis, modelling and response (Marti J., Gottsmann J., eds.). Developments in Volcanology, Elsevier, 10, 285-311.
57) Neri M., Lanzafame G., Acocella V. (2008) Dike emplacement and related hazard in volcanoes with sector collapse: the 2007 Stromboli (Italy) eruption. *Journal of the Geological Society of London,* 165, 883-886.
58) Acocella V., Abebe B., Korme T., Barberi F. (2008) Structure of Tendaho Graben and Manda Hararo Rift: implications for the evolution of the Red Sea propagator in Central Afar. *Tectonics*, 27, TC4016, doi:10.1029/2007TC002236.
59) Acocella V. (2008) Activating and reactivating pairs of nested collapses during caldera-forming eruptions: Campi Flegrei (Italy). *Geophysical Research Letters,* 35, L17304, doi:10.1029/2008GL035078.
60) Acocella V., Yoshida T. Yamada R., Funiciello F. (2008) Structural control on Late Miocene to Quaternary volcanism in the NE Honshu arc, Japan**.** *Tectonics,* 27, TC5008, doi:10.1029/2008TC002296.
61) Mazzuoli R., Vezzoli L., Omarini R., Acocella V., Gioncada A., Matteini M., Dini A., Guillou H., Hauser N. Uttini A., Scaillet S. (2008) Miocene magmatism and tectonics of the easternmost sector of the Calama–Olacapato–El Toro fault system in Central Andes at ~24°S: Insights into the evolution of the Eastern Cordillera. *Bulletin of the Geological Society of America,*120, 1493-1517
62) Acocella V., Neri M., Sulpizio R. (2009) Dike propagation within active central volcanic edifices: constraints from Somma-Vesuvius, Etna and analogue models. *Bulletin of Volcanology*, 71, 219-223, doi:10.1007/s00445-008-0258-2.
63) Vezzoli L., Matteini M., Hauser N., Omarini R., Mazzuoli R., Acocella V. (2009) Non-explosive magma-water interaction in a continental setting: examples from the Miocene magmatism of the Eastern Cordillera (central Andes). *Bulletin of Volcanology*, 71, 509-532, doi:10.1007/s00445-008-0239-5.
64) Neri M., Casu F., Acocella V., Solaro G., Pepe S., Berardino P., Sansosti E., Caltabiano T., Lundgren P., Lanari R. (2009) Deformation and eruptions at Mt. Etna (Italy): a lesson from 15 years of observations. *Geophysical Research Letters,* 36, L02309, doi:10.1029/2008GL036151.
65) Walter T.R., Wang R., Acocella V., Neri M., Grosser H., Zschau J. (2009) Simultaneous magma and gas eruptions at three volcanoes in southern Italy: an earthquake trigger? *Geology*, 37, 251-254.
66) Acocella V., Neri M., Walter T. (2009) Structural features of Panarea volcano in the frame of the Aeolian Arc (Italy): implications for the 2002-2003 unrest. *Journal of Geodynamics,* 47, 288-292.
67) Acocella V., Vezzoli L., Omarini R., Matteini M., Mazzuoli R. (2009) Kinematic variations across Eastern Cordillera at 24°S (Central Andes): tectonic and magmatic implications. Reply to the Comment. *Tectonophysics*, 469, 155-159.

68) Vezzoli L., Acocella V. (2009) Easter Island, SE Pacific: an end-member type of hotspot volcanism. *Bulletin of the Geological Society of America,*121, 869-886.
69) Gudmundsson A., Acocella V., Vinciguerra S., (2009) Understanding stress and deformation in active volcanoes. Preface. *Tectonophysics,* 471, 1-3
70) Acocella V., Neri M. (2009) Dike propagation in volcanic edifices: overview and possible developments. *Tectonophysics,* 471, 67-77.
71) Acocella V., Funiciello F. (2010) Kinematic setting and structural control on arc volcanism. *Earth and Planetary Science Letters*, 289, 43-53.
72) Tentler T., Acocella V. (2010) How does the initial configuration of oceanic ridge segments affect their interaction? Insights from analogue models. *Journal of Geophysical Research,* 115, B01401, doi:10.10292008JB006269.
73) Acocella V. (2010) Evaluating fracture patterns within a resurgent caldera: Campi Flegrei. Italy. *Bulletin of Volcanology,* 72, 623-638.
74) Acocella V. (2010) Coupling volcanism and tectonics along divergent boundaries: collapsed rifts from Central Afar, Ethiopia. *Bulletin of the Geological Society of America, 122, 1717-1728.* Mentioned in "Research Highlights", Nature Geoscience, 3, 589, 2010.
75) Ruch J., Acocella V., Storti F., Neri M., Pepe S., Solaro G., Sansosti E. (2010) Detachment depth revealed by rollover deformation: an integrated approach at Mount Etna. *Geophysical Research Letters,* 37, L16304, doi:10.1029/2010GL044131.
76) Solaro G., Acocella V., Pepe S., Ruch J., Neri M., Sansosti E. (2010) Anatomy of an unstable volcano from InSAR: multiple processes affecting flank instability at Mt. Etna, 1994-2008. *Journal of Geophysical Research,* 115, B10405, doi:10.1029/2009JB000820.
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78) Falsaperla S., Cara F., Rovelli A., Neri M., Behncke B., Acocella V. (2010) Effects of the 1989 fractures system in the dynamics of the upper SE flank of Etna revealed by volcanic tremor data: the missing link? *Journal of Geophysical Research,* 115, B11306, doi:10-1029/2010JB007529.
79) 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.
80) Aguirre-Diaz G., Geyer A., Martí J., Acocella V., (2011) Improving our knowledge and understanding of calderas: past and future activities of the IAVCEI Commission on Collapse Calderas. *EOS,* 92, 53-54.
81) Acocella V., Gioncada A., Omarini R., Riller U., Mazzuoli R., Vezzoli L., (2011) Tectono-magmatic characteristics of the back-arc portion of the Calama-Olacapato-El Toro Fault Zone, Central Andes. *Tectonics,* 30, TC3005, doi:10.1029/2010TC002854.
82) Acocella V., Abebe B., Korme T. (2011) Holocene opening directions along the axes of Red Sea (Afar) and Main Ethiopian rifts: an overview. *Special Volume of the Bulletin of the Geological Society of America: Volcanism and evolution of the African lithosphere. Beccaluva L., Bianchini G., Wilson M., eds. Special Paper 478*, 25-35.
83) Norini G., Acocella V., (2011) Analogue modeling of flank instability at Mount Etna: understanding the driving factors. *Journal of Geophysical Research,* 116, B07206, doi:10.1029/2011JB008216.
84) Dohm J.M., Miyamoto H., Ori G.G., Fairén A.G., Davila A.F., Komatsu G., Mahaney W.C., Williams P., Joye S., Di Achille G., Oehler D., Marzo G., Schulze-Makuch D., Acocella V., Glamoclija M., Pondrelli M., Boston P., Allen C.R., Anderson R.C., Baker V.R., Beaty D., Ferris J.C., Fink W., Frazer A.R., Furfaro R., Gross C.H., Hare T.M., Hart K.M., Ip F., Kelleher B.P., Kim K.J., Maruyama S., McGuire P.C., Netoff D.,

Parnell J., Wendt L., Wheelock S. (2011) An inventory of potentially habitable environments on Mars: Geological and biological perspectives. *Geological Society of America, Special Paper,* 483, 317-347.

85) 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, 464-479.

86) Vezzoli L., Acocella V., Omarini R. Mazzuoli R. (2012) Miocene sedimentation, volcanism and deformation in the Eastern Cordillera (24°30'S, NW Argentina): Tracking the evolution of the foreland basin of Central Andes. *Basin Research,* 24, 1-27.

87) Shabanian E., Acocella V., Gioncada A., Ghasemi H., Bellier O. (2012) Structural control on magmatism in intraplate collisional settings: extinct example from NE Iran and current analogues. *Tectonics,* 31, TC3013, doi:10.1029/2011TC003042.

88) Acocella V., Palladino D.M., Cioni R., Russo P., Simei S. (2012) Caldera structure, amount of collapse and erupted volumes: the case of Bolsena Caldera, Italy. *Geological Society of America Bulletin*, 124, 1562-1576.

89) Ruch J., Acocella V., Geshi N., Nobile A., Corbi F. (2012) Kinematic analysis of vertical collapse on volcanoes using experimental models time series. *Journal of Geophysical Research,* 117, B07301, doi:10.1029/2012JB009229.

90) Nobile A., Pagli C., Keir D., Wright T.J., Ayele A., Ruch J., Acocella V. (2012) Dyke-fault interaction during the 2004 Dallol intrusion at the northern edge of the Erta Ale Ridge (Afar, Ethiopia). *Geophysical Research Letters,* 39, L19305, doi:10.1029/2012GL053152.

91) Geshi N., Acocella V., Ruch J. (2012) From structure- to erosion-controlled subsiding calderas: evidence thresholds and mechanics. *Bulletin of Volcanology,* 74, 1553-1567.

92) Cappello A, Neri M., Acocella V., Gallo G., Vicari, A., Del Negro C., (2012) Spatial vent opening probability map of Etna volcano (Sicily, Italy). *Bulletin of Volcanology*, 74, 2083-2094.

93) Ruch J., Pepe S., Casu F., Acocella V., Neri M., Solaro G., Sansosti E. (2012) How do rift zones relate to flank instability? Evidence from collapsing rift zones at Etna. *Geophysical Research Letters,* 39, L20311, doi:10.1029/2012GL053683.

94) Acocella V. Geyer A., Geshi N. (2013) What do we know about calderas? The 2012 IAVCEI Commission on Collapse Calderas Workshop in Bolsena, Italy. *EOS,* 94, 22.

95) Acocella V., Puglisi G., Amelung F., (2013) Flank instability, eruptions, seismicity and hazard: the case of Mt. Etna. Preface to the Special Volume of *Journal of Volcanology and Geothermal Research,* 251, 1-4.

96) Acocella V., Neri M., Norini G., (2013) An overview of experimental models to understand a complex volcanic instability: Application to Mount Etna, Italy. *Journal of Volcanology and Geothermal Research*, 251, 98-111.

97) Acocella V., Puglisi G., (2013) How to cope with volcano flank instability? A conceptual model behind possible scenarios for Mt. Etna. *Journal of Volcanology and Geothermal Research,* 251, 137-148.

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3.3 - PUBLICATIONS IN PRESS on INTERNATIONAL journals

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3.4 - BOOKS

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