

**ISI Web of Science peer reviewed publications - Scientific staff residing in observatories
Observatoires Volcanologiques et Sismologiques (OVS) of IPGP (OVSM+OVPF+OVSG)
Service National d'observations en volcanologie**

2012-2017

1. Ahmed A, Doubre C, Leroy S, Kassim M, Keir D, Abayazid A, Julie P, Laurence A, Vergne J, Alexandre N, **Jacques E**, Khanbari K, Sholan J, Rolandone F, Al-Ganad I (2016) Seafloor spreading event in western Gulf of Aden during the November 2010-March 2011 period captured by regional seismic networks: evidence for diking events and interactions with a nascent transform zone. *Geophysical Journal International* 205(2):1244-1266
2. Allard P, Aiuppa A, **Beauducel F**, Gaudin D, Di Napoli R, Calabrese S, Parello F, **Crispi O**, **Hammouya G**, Tamburello G (2014) Steam and gas emission rate from La Soufriere volcano, Guadeloupe (Lesser Antilles): Implications for the magmatic supply during degassing unrest. *Chemical Geology* 384:76-93
3. Allemand P, Delacourt C, **Lajeunesse E**, Devauchelle O, **Beauducel F** (2014) Erosive effects of the storm Helena (1963) on Basse Terre Island (Guadeloupe - Lesser Antilles Arc). *Geomorphology* 206:79-86
4. **Amorese D**, Bossu R, Mazet-Roux G (2015) Automatic Clustering of Macroseismic Intensity Data Points from Internet Questionnaires: Efficiency of the Partitioning around Medoids (PAM). *Seismological Research Letters* 86(4):1171-1177
5. Atwater BF, ten Brink US, Cescon AL, **Feuillet N**, Fuentes Z, Halley RB, Nunez C, Reinhardt EG, Roger JH, Sawai Y, Spiske M, Tuttle MP, Wei Y, Weil-Accardo J (2017) Extreme waves in the British Virgin Islands during the last centuries before 1500 CE. *Geosphere* 13(2):301-368
6. **Aubaud C**, Athanase JE, **Clouard V**, Barras AV, Sedan O (2013) A review of historical lahars, floods, and landslides in the Precheur river catchment (Montagne Pelee volcano, Martinique island, Lesser Antilles). *Bulletin De La Societe Geologique De France* 184(1-2):137-154
7. Barde-Cabusson S, Finizola A, **Peltier A**, Chaput M, Taquet N, Dumont S, Duputel Z, Guy A, Mathieu L, Saumet S, Sorbadere F, Vieille M (2012) Structural control of collapse events inferred by self-potential mapping on the Piton de la Fournaise volcano (La Reunion Island). *Journal of Volcanology and Geothermal Research* 209:9-18
8. Berenguer JL, Courboux F, Tocheport A, **Bouin MP** (2013) Tuned in to the Earth ... from the school EduSismo: the French educational seismological network. *Bulletin De La Societe Geologique De France* 184(1-2):183-187
9. **Brenguier F**, **Kowalski P**, Ackerley N, Nakata N, Boue P, Campillo M, Larose E, Rambaud S, Pequegnat C, Lecocq T, Roux P, **Ferrazzini V**, **Villeneuve N**, Shapiro NM, Chaput J (2016) Toward 4D Noise-Based Seismic Probing of Volcanoes: Perspectives from a Large-N Experiment on Piton de la Fournaise Volcano. *Seismological Research Letters* 87(1):15-25
10. **Brenguier F**, **Kowalski P**, **Staudacher T**, **Ferrazzini V**, **Lauret F**, **Boissier P**, **Catherine P**, **Lemarchand A**, Pequegnat C, Meric O, Pardo C, **Peltier A**, **Tait S**, Shapiro NM, Campillo M, **Di Muro A** (2012) First Results from the UnderVolc High Resolution Seismic and GPS Network Deployed on Piton de la Fournaise Volcano. *Seismological Research Letters* 83(1):97-102
11. Brothelande E, Finizola A, **Peltier A**, Delcher E, Komorowski JC, Di Gangi F, Borgogno G, Passarella M, Trovato C, Legendre Y (2014) Fluid circulation pattern inside La Soufriere volcano (Guadeloupe) inferred from combined electrical resistivity tomography, self-potential, soil temperature and diffuse degassing measurements. *Journal of Volcanology and Geothermal Research* 288:105-122
12. **Carazzo G**, Girault F, Aubry T, Bouquerel H, Kaminski E (2014) Laboratory experiments of forced plumes in a density-stratified crossflow and implications for volcanic plumes. *Geophysical Research Letters* 41(24):8759-8766
13. **Carazzo G**, Jellinek AM (2013) Particle sedimentation and diffusive convection in volcanic ash-clouds. *Journal of Geophysical Research-Solid Earth* 118(4):1420-1437
14. **Carazzo G**, Kaminski E, Tait S (2015) The timing and intensity of column collapse during explosive volcanic eruptions. *Earth and Planetary Science Letters* 411:208-217
15. **Carazzo G**, **Tait S**, Kaminski E, Gardner JE (2012) The recent Plinian explosive activity of Mt. Pelee volcano (Lesser Antilles): The P1 AD 1300 eruption. *Bulletin of Volcanology* 74(9):2187-2203
16. Carrier A, Got JL, **Peltier A**, **Ferrazzini V**, **Staudacher T**, **Kowalski P**, **Boissier P** (2015) A damage model for volcanic edifices: Implications for edifice strength, magma pressure, and eruptive processes. *Journal of Geophysical Research- Solid Earth* 120(1):567-583
17. Chen JB, Gaillardet J, **Dessert C**, Villemant B, Louvat P, **Crispi O**, Birck JL, Wang YN (2014) Zn isotope compositions of the thermal spring waters of La Soufriere volcano, Guadeloupe Island. *Geochimica Et Cosmochimica Acta* 127:67-82
18. Clarke D, **Brenguier F**, Froger JL, Shapiro NM, **Peltier A**, **Staudacher T** (2013) Timing of a large volcanic flank movement at Piton de la Fournaise Volcano using noise-based seismic monitoring and ground deformation measurements. *Geophysical Journal International* 195(2):1132-1140
19. Clergue C, Dellinger M, Buss HL, Gaillardet J, Benedetti MF, **Dessert C** (2015) Influence of atmospheric

- deposits and secondary minerals on Li isotopes budget in a highly weathered catchment, Guadeloupe (Lesser Antilles). *Chemical Geology* 414:28-41
20. Clouard V, Athanase JE, Aubaud C (2013) Physical characteristics and triggering mechanisms of the 2009-2010 landslide crisis at Montagne Pelee volcano, Martinique: implication for erosional processes and debris-flow hazards. *Bulletin De La Societe Geologique De France* 184(1-2):155-164
 21. Colombier M, Wadsworth FB, Gurioli L, Scheu B, Kueppers U, Di Muro A, Dingwell DB (2017) The evolution of pore connectivity in volcanic rocks. *Earth and Planetary Science Letters* 462:99-109
 22. Coppola D, Di Muro A, Peltier A, Villeneuve N, Ferrazzini V, Favalli M, Bachelery P, Gurioli L, Harris AJL, Moune S, Vlastelic I, Galle B, Arellano S, Aiuppa A (2017) Shallow system rejuvenation and magma discharge trends at Piton de la Fournaise volcano (La Reunion Island). *Earth and Planetary Science Letters* 463:13-24
 23. De Barros L, Bean CJ, Zecevic M, Brenguier F, Peltier A (2013) Eruptive fracture location forecasts from high-frequency events on Piton de la Fournaise Volcano. *Geophysical Research Letters* 40(17):4599-4603
 24. De Plaen RSM, Lecocq T, Caudron C, Ferrazzini V, Francis O (2016) Single- station monitoring of volcanoes using seismic ambient noise. *Geophysical Research Letters* 43(16):8511-8518
 25. Derrien A, Villeneuve N, Peltier A, Beauducel F (2015) Retrieving 65 years of volcano summit deformation from multitemporal structure from motion: The case of Piton de la Fournaise (La Reunion Island). *Geophysical Research Letters* 42(17):6959-6966
 26. Dessert C, Lajeunesse E, Lloret E, Clergue C, Crispi O, Gorge C, Quidelleur X (2015) Controls on chemical weathering on a mountainous volcanic tropical island: Guadeloupe (French West Indies). *Geochimica Et Cosmochimica Acta* 171:216-237
 27. Di Muro A, Metrich N, Vergani D, Rosi M, Armienti P, Fougereux T, Deloule E, Arienzo I, Civetta L (2014) The Shallow Plumbing System of Piton de la Fournaise Volcano (La Réunion Island, Indian Ocean) Revealed by the Major 2007 Caldera-Forming Eruption. *Journal of Petrology* 55(7):1287-1315
 28. Di Muro A, Staudacher T, Ferrazzini V, Metrich N, Besson P, Garofalo C, Villemant B (2015) Shallow Magma Storage at Piton de la Fournaise Volcano After 2007 Summit Caldera Collapse Tracked in Pele's Hairs. In: Carey R, Cayol V, Poland M, Weis D (eds) *Hawaiian Volcanoes: from Source to Surface*. pp 189-212
 29. Doubre E, Deprez A, Masson F, Socquet A, Lewi E, Grandin R, Nercessian A, Ulrich P, De Chabalier JB, Saad I, Abayazid A, Peltzer G, Delorme A, Calais E, Wright T (2017) Current deformation in Central Afar and triple junction kinematics deduced from GPS and InSAR measurements. *Geophysical Journal International* 208(2):936-953
 30. Douilly R, Haase JS, Ellsworth WL, Bouin MP, Calais E, Smithe SJ, Armbruster JG, de Lepinay BM, Deschamps A, Mildor SL, Meremonte ME, Hough SE (2013) Crustal Structure and Fault Geometry of the 2010 Haiti Earthquake from Temporary Seismometer Deployments. *Bulletin of the Seismological Society of America* 103(4):2305-2325
 31. Dumont S, Klinger Y, Socquet A, Doubre C, Jacques E (2017) Magma influence on propagation of normal faults: Evidence from cumulative slip profiles along Dabbahu-Manda-Hararo rift segment (Afar, Ethiopia). *Journal of Structural Geology* 95:48-59
 32. Durand J, Tulet P, Leriche M, Bielli S, Villeneuve N, Di Muro A, Fillipi JB (2014) Modeling the lava heat flux during severe effusive volcanic eruption: An important impact on surface air quality. *Journal of Geophysical Research- Atmospheres* 119(20):11729-11742
 33. Escartin J, Leclerc F, Olive JA, Mevel C, Cannat M, Petersen S, Augustin N, Feuillet N, Deplus C, Bezos A, Bonnemains D, Chavagnac V, Choi YJ, Godard M, Haaga KA, Hamelin C, Ildefonse B, Jamieson JW, John BE, Leleu T, MacLeod CJ, Massot-Campos M, Nomikou P, Paquet M, Rommevaux-Jestin C, Rothenbeck M, Steinfuhrer A, Tominaga M, Triebe L, Campos R, Gracias N, Garcia R, Andreani M, Vilaseca G (2016) First direct observation of coseismic slip and seafloor rupture along a submarine normal fault and implications for fault slip history. *Earth and Planetary Science Letters* 450:96-107
 34. Fontaine FR, Roult G, Michon L, Barruol G, Di Muro A (2014) The 2007 eruptions and caldera collapse of the Piton de la Fournaise volcano (La Reunion Island) from tilt analysis at a single very broadband seismic station. *Geophysical Research Letters* 41(8):2803-2811
 35. Gaudin D, Beauducel F, Allemand P, Delacourt C, Finizola A (2013) Heat flux measurement from thermal infrared imagery in low-flux fumarolic zones: Example of the Ty fault (La Soufriere de Guadeloupe). *Journal of Volcanology and Geothermal Research* 267:47-56
 36. Gaudin D, Beauducel F, Coutant O, Delacourt C, Richon P, de Chabalier JB, Hammouya G (2016) Mass and heat flux balance of La Soufriere volcano (Guadeloupe) from aerial infrared thermal imaging. *Journal of Volcanology and Geothermal Research* 320:107-116
 37. Gaudin D, Finizola A, Delcher E, Beauducel F, Allemand P, Delacourt C, Brothelande E, Peltier A, Di Gangi F (2015) Influence of rainfalls on heat and steam fluxes of fumarolic zones: Six months records along the Ty fault (Soufriere of Guadeloupe, Lesser Antilles). *Journal of Volcanology and Geothermal Research* 302:273-285
 38. Girault F, Carazzo G, Tait S, Ferrucci F, Kaminski E (2014) The effect of total grain-size distribution on the dynamics of turbulent volcanic plumes. *Earth and Planetary Science Letters* 394:124-134
 39. Girault F, Carazzo G, Tait S, Kaminski E (2016) Combined effects of total grain- size distribution and crosswind on the rise of eruptive volcanic columns. *Journal of Volcanology and Geothermal Research* 326:103-113

40. Giunta T, Ader M, Bonifacie M, **Agrinier P**, Coleman M (2015) Pre-concentration of chloride in dilute water-samples for precise delta Cl-37 determination using a strong ion-exchange resin: Application to rainwaters. *Chemical Geology* 413:86-93
41. Got JL, **Peltier A**, **Staudacher T**, **Kowalski P**, **Boissier P** (2013) Edifice strength and magma transfer modulation at Piton de la Fournaise volcano. *Journal of Geophysical Research-Solid Earth* 118(9):5040-5057
42. Guimbretiere G, Canizares A, Finizola A, Delcher E, Raimboux N, **Di Muro A**, Simon P, Devouard B, Bertil A (2016) Raman spectroscopy as suitable tool for the field study of recent volcanic environments. *Journal of Raman Spectroscopy* 47(6):740-742
43. Gurioli L, Andronico D, Bachelery P, Balcone-Boissard H, Battaglia J, Boudon G, Burgisser A, Burton MR, Cashman K, Cichy S, Cioni R, **Di Muro A**, Dominguez L, D'Oriano C, Druitt T, Harris AJL, Hort M, Kelfoun K, Komorowski JC, Kueppers U, Le Pennec L, Menand T, Paris R, Pioli L, Pistolesi M, Polacci M, Pompilio M, Ripepe M, Roche O, Rose-Koga E, Rust A, Schiavi F, Scharff L, Sulpizio R, Taddeucci J, Thordarson T (2015) MeMoVolc consensual document: a review of cross-disciplinary approaches to characterizing small explosive magmatic eruptions. *Bulletin of Volcanology* 77(6)
44. Hibert C, Mangeney A, Grandjean G, Baillard C, Rivet D, Shapiro NM, **Satriano C**, Maggi A, **Boissier P**, **Ferrazzini V**, Crawford W (2014) Automated identification, location, and volume estimation of rockfalls at Piton de la Fournaise volcano. *Journal of Geophysical Research-Earth Surface* 119(5):1082-1105
45. Hibert C, Mangeney A, Grandjean G, **Peltier A**, **DiMuro A**, Shapiro NM, **Ferrazzini V**, **Boissier P**, Durand V, **Kowalski P** (2017) Spatio-temporal evolution of rockfall activity from 2007 to 2011 at the Piton de la Fournaise volcano inferred from seismic data. *Journal of Volcanology and Geothermal Research* 333:36-52
46. Hibert C, Mangeney A, Polacci M, Di Muro A, Vergnolle S, Ferrazzini V, Peltier A, Taisne B, Burton M, Dewez T, Grandjean G, Dupont A, Staudacher T, Brenguier F, Kowalski P, Boissier P, Catherine P, Lauret F (2015) Toward continuous quantification of lava extrusion rate: Results from the multidisciplinary analysis of the 2 January 2010 eruption of Piton de la Fournaise volcano, La Reunion. *Journal of Geophysical Research-Solid Earth* 120(5):3026-3047
47. **Jacques E**, Lloyd A, Imbeau P, Palermo D, Quek J (2015) GFRP-Retrofitted Reinforced Concrete Columns Subjected to Simulated Blast Loading. *Journal of Structural Engineering* 141(11)
48. Lara, M. C., Buss, H. L., von Strandmann, P. A. P., **Dessert, C.**, & Gaillardet, J. (2014). Controls on the Mg cycle in the tropics: insights from a case study at the Luquillo Critical Zone Observatory. *Procedia Earth and Planetary Science*, 10, 200-203
49. Lenat JF, Bachelery P, **Peltier A** (2012) The interplay between collapse structures, hydrothermal systems, and magma intrusions: the case of the central area of Piton de la Fournaise volcano. *Bulletin of Volcanology* 74(2):407-421
50. Lengline O, Duputel Z, **Ferrazzini V** (2016) Uncovering the hidden signature of amagmatic recharge at Piton de la Fournaise volcano using small earthquakes. *Geophysical Research Letters* 43(9):4255-4262
51. Leroy S, Ellouz-Zimmermann N, Corbeau J, Rolandone F, de Lepinay BM, Meyer B, Momplaisir R, Bruna JLG, Battani A, Baurion C, Burov E, **Clouard V**, Deschamps R, Gorini C, Hamon Y, Lafosse M, Leonel J, Le Pourhiet L, Estrada PL, Loget N, Lucazeau F, Pillot D, Poort J, Tankoo KR, Cuevas JL, Alcaide JF, Poix CJ, Munoz-Martin A, Mitton S, Rodriguez Y, Schmitz J, Seeber L, Carbo-Gorosabel A, Munoz S (2015) Segmentation and kinematics of the North America-Caribbean plate boundary offshore Hispaniola. *Terra Nova* 27(6):467-478
52. Li L, Bonifacie M, **Aubaud C**, **Crispi O**, **Dessert C**, **Agrinier P** (2015) Chlorine isotopes of thermal springs in arc volcanoes for tracing shallow magmatic activity. *Earth and Planetary Science Letters* 413:101-110
53. Liuzzo M, **Di Muro A**, Giudice G, Michon L, **Ferrazzini V**, Gurrieri S (2015) New evidence of CO2 soil degassing anomalies on Piton de la Fournaise volcano and the link with volcano tectonic structures. *Geochemistry Geophysics Geosystems* 16(12):4388-4404
54. Lloret E, **Dessert C**, Buss HL, Chaduteau C, Huon S, Alberic P, Benedetti MF (2016) Sources of dissolved organic carbon in small volcanic mountainous tropical rivers, examples from Guadeloupe (French West Indies). *Geoderma* 282:129-138
55. Lloret E, **Dessert C**, Pastor L, Lajeunesse E, **Crispi O**, Gaillardet J, Benedetti MF (2013) Dynamic of particulate and dissolved organic carbon in small volcanic mountainous tropical watersheds. *Chemical Geology* 351:229-244
56. Manzini M, Bouvier AS, Barnes JD, **Bonifacie M**, Rose-Koga EF, Ulmer P, Metrich N, Bardoux G, Williams J, Layne GD, Straub S, Baumgartner LP, John T (2017) SIMS chlorine isotope analyses in melt inclusions from arc settings. *Chemical Geology* 449:112-122
57. McNamara DE, von Hillebrandt-Andrade C, **Saurel JM**, Huerfano V, Lynch L (2016) Quantifying 10 Years of Improved Earthquake-Monitoring Performance in the Caribbean Region. *Seismological Research Letters* 87(1):26-36
58. Michon L, **Di Muro A**, **Villeneuve N**, Saint-Marc C, Fadda P, Manta F (2013) Explosive activity of the summit cone of Piton de la Fournaise volcano (La Reunion island): A historical and geological review. *Journal of Volcanology and Geothermal Research* 264:117-133
59. Michon L, **Ferrazzini V**, **Di Muro A**, **Villeneuve N**, Famin V (2015) Rift zones and magma plumbing system of Piton de la Fournaise volcano: How do they differ from Hawaii and Etna? *Journal of*

- Volcanology and Geothermal Research 303:112-129
60. Nakata N, Boue P, Brenguier F, Roux P, Ferrazzini V, Campillo M (2016) Body and surface wave reconstruction from seismic noise correlations between arrays at Piton de la Fournaise volcano. *Geophysical Research Letters* 43(3):1047-1054
 61. Niemz, P. Amorèse, P. (2016). Relocalizing a historical earthquake using recent methods: The 10 November 1935 Earthquake near Montserrat, Lesser Antilles. *Jour South American Earth Sciences*. 66 : 166-179
 62. Ort MH, Di Muro A, Michon L, Bachelery P (2016) Explosive eruptions from the interaction of magmatic and hydrothermal systems during flank extension: the Bellecombe Tephra of Piton de La Fournaise (La Reunion Island). *Bulletin of Volcanology* 78(1)
 63. Peltier A, Beauducel F, Villeneuve N, Ferrazzini V, Di Muro A, Aiuppa A, Derrien A, Jourde K, Taisne B (2016) Deep fluid transfer evidenced by surface deformation during the 2014-2015 unrest at Piton de la Fournaise volcano. *Journal of Volcanology and Geothermal Research* 321:140-148
 64. Peltier A, Got JL, Villeneuve N, Boissier P, Staudacher T, Ferrazzini V, Walpersdorf A (2015) Long-term mass transfer at Piton de la Fournaise volcano evidenced by strain distribution derived from GNSS network. *Journal of Geophysical Research-Solid Earth* 120(3):1874-1889
 65. Peltier A, Massin F, Bachelery P, Finizola A (2012) Internal structure and building of basaltic shield volcanoes: the example of the Piton de La Fournaise terminal cone (La Reunion). *Bulletin of Volcanology* 74(8):1881-1897
 66. Peltier A, Poland MP, Staudacher T (2015) Are Piton de la Fournaise (La Reunion) and Kilauea (Hawai'i) Really "Analog Volcanoes"? In: Carey R, Cayol V, Poland M, Weis D (eds) *Hawaiian Volcanoes: from Source to Surface*. pp 507-531
 67. Pioli L, Scalisi L, Costantini L, Di Muro A, Bonadonna C, Clavero J (2015) Explosive style, magma degassing and evolution in the Chaimilla eruption, Villarrica volcano, Southern Andes. *Bulletin of Volcanology* 77(11)
 68. Rivet D, Brenguier F, Clarke D, Shapiro NM, Peltier A (2014) Long-term dynamics of Piton de la Fournaise volcano from 13years of seismic velocity change measurements and GPS observations. *Journal of Geophysical Research- Solid Earth* 119(10):7654-7666
 69. Roult G, Peltier A, Taisne B, Staudacher T, Ferrazzini V, Di Muro A, Team O (2012) A new comprehensive classification of the Piton de la Fournaise activity spanning the 1985-2010 period. Search and analysis of short-term precursors from a broad-band seismological station. *Journal of Volcanology and Geothermal Research* 241:78-104
 70. Ruzie L, Aubaud C, Moreira M, Agrinier P, Dessert C, Greau C, Crispi O (2013) Carbon and helium isotopes in thermal springs of La Soufriere volcano (Guadeloupe, Lesser Antilles): Implications for volcanological monitoring. *Chemical Geology* 359:70-80
 71. Saint Fleur N, Feuillet N, Grandin R, Jacques E, Weil-Accardo J, Klinger Y (2015) Seismotectonics of southern Haiti: A new faulting model for the 12 January 2010 M7.0 earthquake. *Geophysical Research Letters* 42(23)
 72. Savage MK, Ferrazzini V, Peltier A, Rivemale E, Mayor J, Schmid A, Brenguier F, Massin F, Got JL, Battaglia J, DiMuro A, Staudacher T, Rivet D, Taisne B, Shelley A (2015) Seismic anisotropy and its precursory change before eruptions at Piton de la Fournaise volcano, La Reunion. *Journal of Geophysical Research-Solid Earth* 120(5):3430-3458
 73. Schlaphorst D, Kendall JM, Collier JS, Verdon JP, Blundy J, Baptie B, Latchman JL, Massin F, Bouin MP (2016) Water, oceanic fracture zones and the lubrication of subducting plate boundaries-insights from seismicity. *Geophysical Journal International* 204(3):1405-1420
 74. Schmid A, Grasso JR, Clarke D, Ferrazzini V, Bachelery P, Staudacher T (2012) Eruption forerunners from multiparameter monitoring and application for eruptions time predictability (Piton de la Fournaise). *Journal of Geophysical Research-Solid Earth* 117
 75. Sens-Schonfelder C, Pomponi E, Peltier A (2014) Dynamics of Piton de la Fournaise volcano observed by passive image interferometry with multiple references. *Journal of Volcanology and Geothermal Research* 276:32-45
 76. Shelly DR, Hill DP, Massin F, Farrell J, Smith RB, Taira Ta (2013) A fluid-driven earthquake swarm on the margin of the Yellowstone caldera. *Journal of Geophysical Research-Solid Earth* 118(9):4872-4886
 77. Sivia SG, Gheusi F, Mari C, Di Muro A (2015) Simulations and parameterisation of shallow volcanic plumes of Piton de la Fournaise, Reunion Island, using Meso- NH version 4-9-3. *Geoscientific Model Development* 8(5):1427-1443
 78. 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, Bourriane T, Brunet C, Burnet F, Cammas JP, Gabarrot F, Galle B, Giudice G, Guadagno C, Jeambly F, Kowalski P, de Bellevue JL, Marquestaut N, Mekies D, Metzger JM, Pianezze J, Portafaix T, Sciare J, Tournigand A, Villeneuve N (2017) First results of the Piton de la Fournaise STRAP 2015 experiment: multidisciplinary tracking of a volcanic gas and aerosol plume. *Atmospheric Chemistry and Physics* 17(8):5355-5378
 79. Villemant B, Komorowski JC, Dessert C, Michel A, Crispi O, Hammouya G, Beauducel F, De Chabaliér JB (2014) Evidence for a new shallow magma intrusion at La Soufriere of Guadeloupe (Lesser Antilles) Insights from long- term geochemical monitoring of halogen-rich hydrothermal fluids. *Journal of Volcanology and Geothermal Research* 285:247-277

80. Vlastelic I, Gannoun A, **Di Muro A**, Gurioli L, Bachelery P, Henot JM (2016) Origin and fate of sulfide liquids in hotspot volcanism (La Reunion): Pb isotope constraints from residual Fe-Cu oxides. *Geochimica Et Cosmochimica Acta* 194:179-192
81. Vlastelic I, **Staudacher T**, Deniel C, Devidal JL, Devouard B, Finizola A, Telouk P (2013) Lead isotopes behavior in the fumarolic environment of the Piton de la Fournaise volcano (Reunion Island). *Geochimica Et Cosmochimica Acta* 100:297-314
82. Vorobieva I, Narteanu C, Shebalin P, **Beauducel F**, **Nercessian A**, **Clouard V**, **Bouin MP** (2013) Multiscale Mapping of Completeness Magnitude of Earthquake Catalogs. *Bulletin of the Seismological Society of America* 103(4):2188-2202
83. Weil-Accardo J, **Feuillet N**, **Jacques E**, Deschamps P, **Beauducel F**, Cabioch G, Tapponnier P, **Saurel JM**, Galetzka J (2016) Two hundred thirty years of relative sea level changes due to climate and megathrust tectonics recorded in coral microatolls of Martinique (French West Indies). *Journal of Geophysical Research- Solid Earth* 121(4):2873-2903