

## **Giuseppe SIANI**

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### **CURSUS**

- Depuis 2013 : Professeur à l'Université de Paris-Saclay (UPS), UMR8148, section 36, affecté à  
Géoscience Paris-Sud (GEOPS).
- 2009 : Habilitation à Diriger des Recherches, soutenue à UPS.
- 2002-2013 : Maître de conférences à UPS affecté au laboratoire IDES.
- 2001-2002 : Post-Doc au Laboratoire des Sciences du Climat et Environnement (LSCE).
- 2000-2001 : ATER à UPS.
- 1999-2000 : Chargé d'exposés/Conférencier au Palais de la Découverte, Paris.
- 1996-1999 : PhD en paléocéanographie au LSCE, soutenue à UPS.

### **RECHERCHE**

#### **Thème de recherche :**

- Paléoclimatologie et Paléocéanographie à l'échelle du Quaternaire
- Géochronologie (Radiocarbone), Téphrochronologie
- Micropaléontologie (foraminifères planctoniques et benthiques).

#### **Encadrement de thèse et de postdoctorat:**

- Participation au Co-Encadrement de neuf thèses dont trois en cours.
- Encadrement de deux Postdoctorants.

### **ENSEIGNEMENT**

#### **Responsabilités de filière et implication**

- Depuis 2013 : Responsable pour les Science de la Terre du Master MEEF "formation des professeurs parcours SVT" de l'Académie de Versailles.
- Depuis 2003 : Responsable des enseignements des Sciences de la Terre de la filière de Licence de Biologie parcours ESVT et Ecologie (BOE-E).

#### **Sujets d'enseignement**

- Paléoclimatologie, Paléontologie générale, Géochronologie, Sédimentologie

### **PUBLICATIONS**

#### **Articles de revues internationales référencées avec comité de lecture**

[1] Haddam N. A. , E. Michel, **G. Siani**, L. Licari, F. Dewilde. Ventilation and expansion of intermediate and deep waters the Southeast Pacific during the last termination (2020). *Paleoceanography & Paleoclimatology* 35, PA003743.<https://doi.org/10.1029/2019PA003743>

[2] Duhamel Maxence, Christophe Colin, Marie Revel, **Giuseppe Siani**, Arnaud Dapoigny, Eric Douville, Jiawang Wu, Yulong Zhao, Zhifei Liu, Paolo Montagna (2020). Variations in eastern Mediterranean hydrology during the last climatic cycle as inferred from neodymium isotopes in foraminifera. *Quaternary Science Review* 237. [doi.org/10.1016/j.quascirev.2020.106306](https://doi.org/10.1016/j.quascirev.2020.106306)

[3] Bablon Mathilde, Xavier Quidelleur, **Giuseppe Siani**, Pablo Samaniego, Jean-Luc Le Penneec, Julius Nouet, Céline Liorzou, Santiago Santamaría, Silvana Hidalgo (2020). Glass shards K-Ar dating

of massive Quaternary eruptions from the Ecuadorian volcanic arc. *Quaternary Geochronology* 57 <https://doi.org/10.1016/j.quageo.2020.101053>

[4] Wils Katleen, Maarten Van Daele, Catherine Kissel, Jasper Moernaut, Sabine Schmidt, **Giuseppe Siani**, Galderic Lastras (2020). Seismo-turbidites in Aysén Fjord (Southern Chile) reveal a complex pattern of rupture modes along the 1960 megathrust earthquake segment. *Journal of Geophysical Research - Solid Earth*. 125, e2020JB019405. <https://doi.org/10.1029/2020JB01940>

[5] Martínez-Fontaine Consuelo, Ricardo De Pol-Holz, Elisabeth Michel, **Giuseppe Siani**, Dharma Reyes-Macaya, Gema Martínez-Méndez, Tim DeVries, Lowell Stott, John Southon, Mahyar Mohtadi and Dierk Hebbeln (2019). Ventilation of the deep ocean carbon reservoir during the last deglaciation : Results from the Southeast Pacific. *Paleoceanography & Paleoclimatology* 34 (12) 2080-2097. <https://doi.org/10.1029/2019PA003613>

[6] Bazin L., B. Lemieux-Dudon, **G. Siani**, A. Govin, A. Landais, D. Genty, E. Michel, S. Nomade (2019). Construction of a Tephra-Based Multi-Archive Coherent Chronological Framework for the Last Deglaciation in the Mediterranean Region. *Quaternary Science Review* 216 : 47-57. [doi.org/10.1016/j.quascirev.2019.05.018](https://doi.org/10.1016/j.quascirev.2019.05.018)

[7] Haddam Naoufel Abdeldjalyl, **Giuseppe Siani**, Elisabeth Michel, Jérôme Kaiser, Frank Lamy, Stéphanie Duchamp-Alphonse, Jens Hefter, Pascale Braconnot, Fabien Dewilde, Gülay Isgüder, Nadine Tisnerat-Laborde, François Thil, Nicolas Durand, Catherine Kissel (2018). Changes in latitudinal sea-surface temperature gradients along the South Chilean margin since the last Glacial. *Quaternary Science Reviews* 194 : 62-76. [doi.org/10.1016/j.quascirev.2018.06.023](https://doi.org/10.1016/j.quascirev.2018.06.023).

[8] Duchamp-Alphonse Stéphanie, **Giuseppe Siani**, Elisabeth Michel, Luc Beaufort, Yves Gally, Samuel Jaccard (2018). Enhanced ocean-atmosphere carbon partitioning via the carbonate counter pump during the last deglacial. *Nature Communication* 9:2396, DOI: 10.1038/s41467-018-04625-7.

[9] Cornuault, M., Tachikawa, K., Vidal, L., Guihou, A., **Siani G.**, Deschamps, P., Revel, M. (2018). Circulation changes in eastern Mediterranean Sea over the past 23,000 years inferred from authigenic Nd isotopic ratios. *Paleoceanography & Paleoclimatology*.

[10] Lamair, L., Hubert-Ferrari, A., Yamamoto, S., El Ouahabi, M., Vander Auwera, J., Obrochta, S., Boes, E., Fujiwara, O., Shishikura, M., Schmidt, S., **Siani G.**, Miyari, Y., Yokoama, Y., De Batist, M., Heyvaert, V.M.A. and the QuakeRecNankai Team (2018). Volcanic influence of Mt Fuji on the watershed of Lake Motosu and its impact on the lacustrine sedimentary record. *Sedimentary Geology* 363, 200–220.

[11] Wils, K., Van Daele, M., Lastras, G., Kissel, C., Lamy, F., **Siani G.** (2017). Holocene Event Record of Aysén Fjord (Chilean Patagonia): an Interplay of Volcanic Eruptions, Crustal and Megathrust Earthquakes. *Journal of Geophysical Research: Solid Earth*, 122. <https://doi.org/10.1002/2017JB014573>.

[12] Ayache M, Dutay, J.C., Mouchet, A., Tisnerat-Laborde, N., Montagna, P., Tanhua T., **Siani, G.** and Jean-Baptiste, P. (2017) - High resolution regional modeling of natural and anthropogenic radiocarbon in the Mediterranean Sea. *Biogeosciences*, 14, 1197–1213. [doi:10.5194/bg-14-1197-2017](https://doi.org/10.5194/bg-14-1197-2017).

[13] Dubois-Dauphin, Q., P. Montagna, **G. Siani**, E. Douville, C. Wienberg, D. Hebbeln, Z. Liu, N. Kallel, A. Dapoigny, M. Revel, E. Pons-Branchu, and C. Colin (2017). Hydrological variations of the intermediate water masses of the western Mediterranean Sea during the past 20 ka inferred from neodymium isotopic composition in foraminifera and cold-water corals. *Climate of the Past*, 13, 17–37, [doi:10.5194/cp-13-17-2017](https://doi.org/10.5194/cp-13-17-2017)

[14] Qiong, W., Colin, C., Liu, Z., Bassinot, F., Dubois-Dauphin, Q., Douville, E., Thil, F., **Siani, G.** (2017). Foraminiferal Nd in the deep north-western subtropical Pacific Ocean: Tracing changes in weathering input over the last 30,000 years. *Chemical Geology*, 470, 55-56.

- [15] Haddam, N.A., Michel, E., **Siani, G.**, Cortese, G., Bostock, H., Duprat, J.M., Isguder, G. (2016). Improving past sea surface temperature reconstructions from the Southern Hemisphere oceans using planktonic foraminiferal census data. *Paleoceanography* 31, doi:10.1002/2016PA002946.
- [16] Jaouadi, S., Lebreton, V., Bout-Roumazeilles, V., **Siani, G.**, Lakhdar, R., Boussoffara, R., Dezileau, L., Kallel, N., Mannai-Tayeck, B., and Combourieu-Nebout, N. (2016). Environmental changes, climate and anthropogenic impact in southern-eastern Tunisia during the last 8 kyr, *Climate of the Past*, 12, 1339–1359, 2016. doi:10.5194/cp-12-1339-2016.
- [17] Van Daele, M., Bertrand, S., Meyer, I., Moernaut, J., Vandoorne, W., **Siani, G.**, Tanghe, N., Ghazoui, Z., Pino, M., Urrutia, R., and De Batist, M. (2016). Late Quaternary evolution of Lago Castor (northern Chilean Patagonia, 46°S): lake formation and evolution of the southern westerlies during the last 17 kyr. *Quaternary Science Review* 133, 130–146
- [18] Zhao, Y., Colin, C., Liu, Z., Bonneau, L., **Siani, G.** (2016). Climate forcing of terrigenous sediment input to the central Mediterranean Sea since the early Pleistocene. *Palaeogeography, Palaeoclimatology, Palaeoecology* 442, 23–35.
- [19] Montade, V., Kageyama, M., Combourieu Nebout, N., Ledru, M.P., Michel, E., **Siani G.**, Kissel, C. (2015). Teleconnection between the intertropical convergence zone and southern westerly winds throughout the last deglaciation. *Geology*. 43, 735-738, doi:10.1130/G36745.1
- [20] Roberto Sulpizio, Giovanni Zanchetta, Benoit Caron, Pierfrancesco Dellino, Daniela Mele, Biagio Giaccio, Donatella Insinga, Martine Paterne, **Giuseppe Siani**, Antonio Costa, Giovanni Macedonio, Roberto Santacroce (2014) – Volcanic ash hazard in the Central Mediterranean assessed from geological data. *Bulletin of Volcanology* 76:866 DOI 10.1007/s00445-014-0866-y.
- [21] Colin C., **Siani G.**, Liu Z.F., Blamart D., Skonieckzny C., Zhao Y., Bory A., Franck N., Duchamp-Alphonse S., Thil F., Richter T., Kissel C., Gargani J. (2014). “Late Miocene to early Pliocene climate variability off NW Africa (ODP 659)”. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 401, 81 - 95 doi: 10.1016/j.palaeo.2014.02.015
- [22] **Siani, G.**, Michel, E. De-Pol Holz, R., DeVries T., Lamy, F., Carel, M., Isguder, G., Dewilde F., Laurantou A. (2013) – Carbon isotope records reveal precise timing of enhanced Southern Ocean upwelling during the last deglaciation. *Nature Communication*. 4: 2758 doi: 10.1038/ncomms3758.  
**(Research Highlights in Nature Geoscience, vol. 6, december 2013 page 989)**
- [23] Magny, M. J.L. de Beaulieu, E. Brugiapaglia, V. Bout-Roumazeilles, E. Chapron, D. Colombaroli, N. Combourieu Nebout, M. Debret, M. Desmet, S. Desprat, J. Didier, L. Esselami, D. Galop, A. Gilli, J.N. Haas, S. Joannin, N. Kallel, L. Millet, O. Peyron, M. Revel, L. Sadori, **G. Siani**, M.A. Sicre, A. Simonneau, A. Stock, W. Tinner, J.L. Turon, B. Vannièrè, B. Wagner, G. Zanchetta. (2013) - North-south palaeohydrological contrasts in the central Mediterranean during the Holocene: tentative synthesis and working hypotheses. *Climate of the Past* 9, 2043-2071.
- [24] Combourieu-Nebout, N., Peyron, O., Bout Roumazeilles, V., Dormoy, I., Joannin, S., Sadori, L., **Siani, G.**, Magny, M. (2013) - Holocene vegetation and climate changes in the central Mediterranean inferred from a high resolution marine pollen record (Adriatic Sea). *Climate of the Past* 9, 2023-2042.
- [25] Tisnérat-Laborde, N., Montagna, P., McCulloch, M., **Siani, G.** Silenzi, S., Frank, N. (2013) – A high resolution coral based  $\delta^{14}\text{C}$  record of surface water processes in the western Mediterranean Sea. *Radiocarbon* 55, (2–3), 1617-1630.
- [26] Sicre, M.A., **G. Siani**, D. Genty, N. Kallel, L. Essallami (2013) - Seemingly divergent sea surface temperature proxy records in the central Mediterranean during the last deglacial. *Climate of the Past*, 9, 1375–1383
- [27] **Siani, G.**, Magny, M., Paterne, M., Debret, M., Fontugne, M. (2013) - Paleohydrology reconstruction and Holocene climate variability in the South Adriatic Sea. *Climate of the Past*, 9, 499-515.

- [28] Desprat, S., N. Combourieu-Nebout, L. Essallami, M. A. Sicre, I. Dormoy, O. Peyron, **G. Siani**, V. Bout Roumazeilles, and J. L. Turon (2013) - Deglacial and Holocene vegetation and climatic changes at the southernmost tip of the Central Mediterranean from a direct land-sea correlation. *Climate of the Past* 9, 767–787.
- [29] Montade V., Combourieu-Nebout N., Kissel C., Haberle, S., **Siani G.**, Michel E., (2013) - Vegetation and climate changes during the last 22,000 yr from a marine core near Taitao Peninsula, southern Chile. *Paleogeography, Paleoclimatology, Paleoecology*, 369 : 335-348.
- [30] Jouannic, G., Gillot, P.Y., Goiran, J.P., Lefevre, J.C., **Siani, G.**, Salomon, F. (2013) - Tephrochronological study in the Maccarese lagoon (near Rome, Italy): Identification of Holocene tephra layers. *Quaternaire*, 24 (1) : 65-74.
- [31] Bout-Roumazeilles, V., Combourieu-Nebout, N., Desprat, S., **Siani, G.**, Turon, J. L. (2013) - Tracking atmospheric and riverine terrigenous supplies variability during the Holocene and last glacial in central Mediterranean. *Climate of the Past*, 9, 1065–1087.
- [32] Zhao, Y., Colin, C., Liu, Z., Paterne, M., **Siani, G.**, Xie, X. – (2012) Reconstructing precipitation changes in northeastern Africa during the Quaternary by clay mineralogical and geochemical investigations of Nile deep-sea fan sediments. *Quaternary Science Review* 57 : 58-70
- [33] Caron, B., **Siani, G.**, Sulpizio, R. Zanchetta, G., Paterne, M., Santacroce, R., Tema, E., Zanella, E. (2012). Late Pleistocene to Holocene tephrostratigraphic record from the Northern Ionian Sea. *Marine Geology* 311-314 : 41-51.
- [34] Sabatier, P., Dezileau, L., Colin, C., Briquet, L., Bouchette, F., Martinez, P., **Siani G.**, Raynal, O., Von Grafenstein, U. (2012). 7000 years of paleostorm activity in the NW Mediterranean Sea in response to Holocene climate events. *Quaternary Research* 77 : 1-11.
- [35] Carel M., **Siani, G.**, Delpech, G. (2011) - Tephrostratigraphy of a deep-sea sediment sequence off the south Chilean margin: new insight on the Hudson volcanic activity since the last glacial period. *Journal of Volcanology and Geothermal Research*. 208 : 99 – 111.
- [36] Zhao, Y., Liu, Z., Colin, C., Paterne, M., **Siani, G.**, Cheng, X., Duchamp-Alphonse, S., Xie, X. (2011). Variation of the Nile suspended discharges during the last 1,75 Myr. *Paleogeography, Paleoclimatology, Paleoecology*. 311 :230-241
- [37] Zanchetta, G., Sulpizio, R., Roberts, N., Cioni R., **Siani, G.**, Caron, B., Paterne, M., Santacroce R. (2011) - Tephrostratigraphy, chronology and climatic events of the Mediterranean basin during the Holocene: an overview. *The Holocene*, 21 : 33-52.
- [38] **Siani G.**, Paterne, M., Colin, C. (2010) - Late Glacial to Holocene planktic foraminifera bioevents and climatic record in the South Adriatic Sea. *Journal of Quaternary Science*. 25 : 808-821. ISSN 0267-8179.
- [39] **Siani G.**, Colin, C., Michel, E., Richter, T., Carel, M., Kissel, K., Dewilde, F. (2010) - Late Glacial to Holocene terrigenous sediment record in the Northern Patagonia margin : paleoclimatic implications. *Paleogeography, Paleoclimatology, Paleoecology*. 297 : 26-36.
- [40] Colin, C., **Siani, G.**, Sicre, M.A., Zhifei, L., Segueni, F. (2010) - Impact of the East Asian monsoon rainfall changes on the erosion of the Mekong River basin over the past 25,000 yr. *Marine Geology* 271 : 84-92.
- [41] Caron, B., Sulpizio, R. Zanchetta, G., **Siani, G.**, Santacroce, R. (2010) - The Late Pleistocene to Holocene tephrostratigraphic record of Lake Ohrid (Albania). *Compte Rendu Géoscience*. 342 : 453-466.

- [42] Sabatier, P., Dezileau, L., Blanchemanche, P., **Siani, G.**, Condomines, M., Bentaleb, I., Piques, G., (2010). Holocene variations of radiocarbon reservoir ages in a Mediterranean lagoonal system. *Radiocarbon*. 52 : 1-12.
- [43] Sabatier, P., Dezileau, L., Briqueu, L., Colin C., **Siani, G.** (2010) - Paleostorm events revealed by clay minerals and geochemistry in coastal lagoon : a study case of Pierre Blanche (NW Mediterranean Sea). *Sedimentary Geology*. 228 : 205-217.
- [44] C. Colin, **G. Siani**, F. Segueni, D. Blamart, S. Giunta, J.P. Suc, Z. Liu, N. Frank, L. Briqueu (2008) - Reconstruction of Northern African monsoon between 6,2 and 4,9 Ma and possible relationships with Late Miocene events. *Compte Rendu Géoscience* 340, 749-760.
- [45] Zanchetta G., Sulpizio R., Giaccio B., **Siani G.**, Paterne M., Wulf S., D'Orazio M. (2008) - The Y-3 Tephra: a last glacial stratigraphic marker for the central Mediterranean basin. *Journal of Volcanology and Geothermal Research*. 177, 145-154.
- [46] Paterne, M., Guichard, F., Duplessy, J.C., **Siani, G.**, Sulpizio, R., Labeyrie, J. (2008) - A 90,000 - 200,000 years marine tephra record of Italian volcanic activity in the Central Mediterranean Sea. *Journal of Volcanology and Geothermal Research*, 177, 187-196.
- [47] Sulpizio, R., B. Caron, B. Giaccio, M. Paterne, **G. Siani**, G. Zanchetta, R. Santacroce (2008) The dispersal of ash during explosive eruptions from central volcanoes and calderas: an underestimated hazard for the Central Mediterranean area. *IOP Conf. Series: Earth and Environmental Science* 3 012031.
- [48] Essallami, L., M. A. Sicre, N. Kallel, L. Labeyrie, and **G. Siani** (2007) - Hydrological changes in the Mediterranean Sea over the last 30,000 years, *Geochemistry. Geophysics. Geosystems.*, 8, Q07002, doi:10.1029/2007GC001587.
- [49] Z. Liu, C. Colin, A. Trentesaux, **G. Siani**, N. Frank, D. Blamart, F. Segueni (2005) - Late Quaternary climatic control on erosion and weathering in the eastern Tibetan Plateau and the Mekong Basin. *Quaternary Research* 63 : 316 – 328.
- [50] **Siani G.**, Sulpizio R., Paterne M., Sbrana, A. (2004) - Tephrostratigraphy study for the last 18,000 <sup>14</sup>C years in a deep-sea sediment sequence for the South Adriatic. *Quaternary Science Review* 23 : 2485-2500.
- [51] Sulpizio R., Zanchetta G., Paterne M., **Siani G.** (2003) - A review of tephrostratigraphy in central and southern Italy during the last 65 ka. *Alpine and Mediterranean Quaternary* (1) : 91-108.
- [52] Charbit S., Rabouille C., **Siani G.** (2002) - The effects of benthic transport processes on high frequency sedimentary signals in deep-sea cores: a time dependent modelling approach. *Journal of Geophysical Research*, 107 (C11), 3194.
- [53] Buccheri G., Bertoldo M., Coppa M.G., Munno R, Pennetta M., **Siani G.**, Valente A., Vecchione C. (2002) - Evoluzione sedimentaria e Paleoclimatologia tardo-aternaria della scarpata continentale del golfo di Policastro (mar Tirreno meridionale). *Bollettino della Società Geologica Italiana (Italian Journal of Geoscience)* 121 : 187 – 210
- [54] **Siani G.**, Paterne M., Michel, E., Sulpizio R., Sbrana, A., Arnold, M., Haddad, G. (2001) - Mediterranean sea-surface radiocarbon reservoir age changes since the last glacial maximum. *Science* 294 : 1917-1920. (**Research Highlights in Science, Adkins, Jess (2001) Dating--Vive la Différence. Science, 294 (5548). pp. 1844-1845. ISSN 0036-8075**)
- [55] **Siani G.**, Paterne M., Arnold M., Bard, E., Métivier, B., Tisnerat, N., and Bassinot, F. (2000) - Radiocarbon reservoir ages in the Mediterranean Sea and Black Sea. *Radiocarbon* 42(2) 271-280.

[56] Mercone, D., Thomson, J., Croudace, I.W., **Siani, G.**, Paterne, M., Tröelstra S. (2000) - Duration of S1, the most recent Eastern Mediterranean sapropel, as indicated by AMS radiocarbon and geochemical evidence. *Paleoceanography* 15 (3) : 336-347.

[57] Combourieu-Nebout N., Paterne M., Turon J.L., **Siani G.** (1998) - A high resolution record of the last deglaciation in the central Mediterranean Sea : Paleovegetation and Paleohydrological evolution. *Quaternary Science Reviews* 17 : 303-317.

### Articles de revues internationales de Rang B

[58] **Siani G.**, Sulpizio R., Paterne, M. (2006). Application of marine tephrochronology to paleoclimatic studies: The example of the Central Mediterranean Sea. *Acta Vulcanologica* 18 (1-2) : 47-54.

[59] Z. Liu, C. Colin, A. Trentesaux, D. Blamart, F. Bassinot, **G. Siani**, (2005) - Late Quaternary weathering and erosion of the Eastern Tibetan Plateau and the Mekong basin and East Asian Monsoon evolution recorded by the sediment from the South China Sea. *Bulletin of Mineralogy, Petrology and Geochemistry* 24 (1) : 30-38.

[60] Coppa M.G., Russo B., **Siani G.** (1994) - The holocene foraminiferal assemblages of the continental margin between Agropoli and Capo Palinuro (Tyrrhenian Sea, Italy)". in " Studies on Ecology and Paleoecology of Benthic Communities " (Matteucci *et al.*, eds.). *Bollettino Società Paleontologica Italiana*, Spec. vol. 2, 67-91

### Articles de Vulgarisation

Colin C., Frank N. et **G. Siani** (2006) - Erosion de l'Himalaya: témoins fidèles des changements des moussons asiatiques, *Plein Sud - Spéciale recherche*.

De Martino M., **Siani G.** (1994) - Ricostruzioni paleoclimatiche nel Quaternario recente ed Olocene nel Tirreno Meridionale, studio sui foraminiferi planctonici. *Territorio ed Ambiente - De Frede - Napoli* : 64-66.

### En révision

Maxence Duhamel, Christophe Colin, **Giuseppe Siani**, Quentin Dubois-Dauphin, Emmanuelle Ducassou, Zhifei Liu, Jiawang Wu, Marie Revel, , Arnaud Dapoigny, Eric Douville, Marco Taviani, Paolo Montagna (2020). Changes in the intermediate water masses of the Mediterranean Sea during the last climatic cycle - New constraints from neodymium isotopes in foraminifera. *Paleoceanography and Paleoclimatology*.

Zouari, Sonda, Soumaya Boussetta, **Giuseppe Siani**, Nadine Tisnérat-Laborde, François Thil, Nejib Kallel (2020). Mediterranean faunal evolution and biochronological events during the last 24 kyr. *Marine Micropaleontology*.

Küssner, K, M. Sarnthein, E. Michel, G. Mollenhauer, T. Ronge, **G. Siani**, R. Tiedemann. Glacial to deglacial reservoir ages of surface waters in the southern South Pacific (2020). *Paleoceanography and Paleoclimatology*.

Martínez-Fontaine Consuelo, **Giuseppe Siani**, Guillaume Delpech, Elisabeth Michel, Gustavo Villarosa, Julius Nouet (2020). Post glacial tephrochronology record off the Chilean continental margin (~41° S). *Quaternary Science Review*.