

## PUBLICATION LIST

Publication of a book, co-edition of 4 books/special issues, 15 book chapters and more than 80 articles in international journals (24 as first author and 36 as second or last author).

### Books

**Sánchez Goñi, M.F.** 1993. *De la taphonomie pollinique à la reconstitution de l'environnement : l'exemple de la région cantabrique*. British Archaeological Reports, International Series 586, Oxford, 207 p.

### Co-editor of book and special issues

Landais, A. & **Sánchez Goñi, M.F.** (Coordinatrices, 2017) Q10 Paléoclimats et environnements quaternaires, quoi de neuf sous le soleil ? **Quaternaire** 28 : 135-293.

**Sánchez Goñi, M.F.** & Harrison, S.P. (Guest Editors, 2010) Vegetation Response to Millennial-scale Variability during the Last Glacial. **Quaternary Science Reviews** Special issue 29: 2823-2980.

Abrantes, F., Ruehlemann, C., **Sánchez Goñi, M.F.** & Voelker, A. (Guest Editors, 2009) Circum-Iberia Paleooceanography and Paleoclimate: What Do We Know? **Geochemistry, Geophysics, Geosystems** 10(4):Q04U04

Sirocko, F., Claussen, M., **Sánchez Goñi, M.F.** & Litt, T. (eds.) *The climate of past interglacials*. Elsevier, Amsterdam, 2007.

### Book chapters

15. **Sánchez Goñi, M.F.** (2014). Rapid climatic variability in Europe over the last glacial. *Transitions, ruptures et continuité en Préhistoire*, vol. 2. In : Jaubert, J., Fourment, N. et Depaepe, P. (Inrap). Actes du XXVIIe Congrès préhistorique de France, Société Préhistorique Française, pp : 185-193.
14. d'Errico, F., **Sánchez Goni, M.F.** & Banks, W. (2012) L'impact du dernier maximum glaciaire sur les populations européennes. In : J.F. Berger, *Des climats et des hommes*. Ed. La Découverte. Paris.
13. **Sánchez-Goni M.F.**, d'Errico F., Daniau A.L. (2012) La variabilité climatique rapide de la dernière période glaciaire et l'extinction des Néandertaliens, *Sous la direction de J.-F. Berger*. Ed. La Découverte, Paris.
12. Wolff, E. W., Harrison, S. P., Knutti, R., **Sánchez-Goñi, M. F.**, Wild, O., Daniau, A. L., Masson-Delmotte, V., Prentice, I. C. and Spahni, R. (2012): How has climate responded to natural perturbations?, in: *Understanding the Earth System: An Integrated Approach to Climate Change* edited by: Cornell, S., Downy, C., Page, J. and Prentice, I. C., Cambridge University Press, Cambridge, in review.
11. Valdés, L., Reina, J., Ensunza, R., **Sánchez Goñi, M.F.** y Zapata, L. (2009) Capítulo 2. El territorio de la cuenca hidrográfica del río Oka. In: Valdés, L. *Gastiburu El santuario vasco de la edad del Hierro*. Real Academia de la Historia, Bibliotheca Archaeologica Hispana 29, Madrid.
10. **Sánchez Goñi, M.F.** (2007) Introduction to climate and vegetation in Europe during MIS 5. In : Sirocko, F., Claussen, M., Sánchez Goñi, M.F. & Litt, T. (eds.) *The climate of past interglacials*. Elsevier, p. 197-205.
9. Müller, H. & **Sánchez Goñi, M.F.** (2007). Vegetation dynamics in southern Germany during Marine Isotope Stage 5 (~130,000-70,000 BP). In : Sirocko, F., Claussen, M., Sánchez Goñi, M.F. & Litt, T. (eds.) *The climate of past interglacials*. Elsevier, p. 277-288.
8. Desprat, S., **Sánchez Goñi, M.F.**, Turon, J.-L., Duprat, J., Malaizé, B. & Peypouquet, J.-P. (2007) Climate variability of the last five isotopic interglacials from direct land-sea-ice correlation, In : Sirocko, F., Claussen, M., Sánchez Goñi, M.F. & Litt, T. (eds.) *The climate of past interglacials*. Elsevier, p.375-386.
7. Loutre, M.F., Berger, A., Crucifix M., Desprat, S. & **Sánchez Goñi, M.F.** (2007) Interglacials as simulated by MoBidiC and the LLN 2-D NH climate models, In : Sirocko, Claussen, M. F., Sánchez Goñi, M.F. & Litt, T. (eds.) *The climate of past interglacials*. Elsevier, p. 547-562.

6. d'Errico, F., **Sánchez Goñi, M.F.** & Vanhaeren, M. (2006). L'impact de la variabilité climatique rapide des OIS3-2 sur le peuplement de l'Europe. In : *L'homme face au climat*. Odile Jacob, Paris.
5. **Sánchez Goñi, M.F.** & d'Errico, F. (2005) La historia de la vegetación y el clima del último ciclo climático (OIS5-OIS1, 140.000-10.000 años BP) en la Península Ibérica y su posible impacto sobre los grupos paleolíticos. Neandertales cantábricos, estado de la cuestión. Museo de Altamira, Monografías nº20, p. 115-129.
4. **Sánchez Goñi, M.F.** (2004) Cambios climáticos y evolución del paisaje vegetal. *Historia del País Vasco*, vol. Prehistoria. Editorial LUR, San Sebastián.
3. Crucifix, M. & **Sánchez Goñi, M.F.** (2004) About climate, vegetation and astronomical forcing. Milutin Milankovitch Anniversary Symposium: Paleoclimate and the Earth Climate System, Serbian Academy of Sciences and Arts, Belgrade, Scientific meetings vol. CX, 161-172.
2. **Sánchez Goñi, M.F.** (2004) La vegetación contemporánea de los grupos meso-neolíticos y neo-calcolíticos de Kanpanoste (Vírgala, Alava). In : Kanpanoste (Vírgala, Alava). Memorias de Yacimientos Alaveses, 9. Diputación Foral de Alava. Vitoria, pp 161-168.
1. Turner C. & **Sánchez Goñi M.F.** 1997. Late Glacial landscape and vegetation in Epirus. Chapter 29, pp. 559-585. In: *Bailey, G.N. (ed.) Klithi: Paleolithic settlement and Quaternary landscapes in northwest Greece*. Vol. 2. McDonald Institute Monographs, Cambridge.

## Selected articles

### 2019

89. Waelbroeck, C, Bryan C Lougheed, Natalia Vazquez Riveiros, Lise Missiaen, Joel Pedro, Trond Dokken, Irka Hajdas, Lukas Wacker, Peter Abbott, Jean-Pascal Dumoulin, François Thil, Frédérique Eynaud, Linda Rossignol, Wiem Fersi, Ana Luiza Albuquerque, Helge Arz, William EN Austin, Rosemarie Came, Anders E Carlson, James A Collins, Bernard Dennielou, Stéphanie Desprat, Alex Dickson, Mary Elliot, Christa Farmer, Jacques Giraudeau, Julia Gottschalk, Jorijntje Henderiks, Konrad Hughen, Simon Jung, Paul Knutz, Susana Lebreiro, David C Lund, Jean Lynch-Stieglitz, Bruno Malaizé, Thomas Marchitto, Gema Martínez-Méndez, Gesine Mollenhauer, Filipa Naughton, Silvia Nave, Dirk Nürnberg, Delia Oppo, Victoria Peck, Frank JC Peeters, Aurélie Penaud, Rodrigo da Costa Portilho-Ramos, Janne Repschläger, Jenny Roberts, Carsten Rühlemann, Emilia Salgueiro, **Maria Fernanda Sanchez Goñi**, Joachim Schönfeld, Paolo Scussolini, Luke C Skinner, Charlotte Skonieczny, David Thornalley, Samuel Toucanne, David Van Rooij, Laurence Vidal, Antje HL Voelker, Mélanie Wary, Syee Weldeab, Martin Ziegler (2019) Consistently dated atlantic sediment cores over the last 40 thousand years. **Scientific data** 6, 1-12.
88. Polanco-Martínez, Josué M., Martin A. Medina-Elizalde, **Maria Fernanda Sanchez Goñi**, Manfred Mudelsee. BINCOR: An R package for Estimating the Correlation between Two Unevenly Spaced Time Series *The R-journal*
87. Naughton, F, S Costas, SD Gomes, S Desprat, T Rodrigues, **MF Sanchez Goñi**, H Renssen, R Trigo, C Bronk-Ramsey, D Oliveira, E Salgueiro, AHL Voelker, F Abrantes (2019) Coupled ocean and atmospheric changes during Greenland stadial 1 in southwestern Europe. **Quaternary Science Reviews** 212,108-120.
86. **Sánchez Goñi, M.F.**, Ferretti, P., Polanco-Martinez, J.M., Rodrigues, T., Alonso-Garcia, M., Rodriguez-Tovar, F.J., Dorador, J., Desprat, S. (2019). Pronounced northward shift of the westerlies during MIS 17 leading to the strong 100-kyr ice age cycles. **Earth and Planetary Science Letters** 511, 117-129.

### 2018

85. Fischer, H, KJ Meissner, AC Mix, NJ Abram, J Austermann, V Brovkin, E Capron, D Colombaroli, AL Daniau, KA Dyez, T Felis, SA Finkelstein, SL Jaccard, ER McClymont, A Rovere, J Sutter, EW Wolff, S Affolter, P Bakker, JA Ballesteros-Cánovas, C Barbante, T Caley, AE Carlson, O Churakova, G Cortese, BF Cumming, BAS Davis, A de Vernal, J Emile-

Geay, SC Fritz, P Gierz, J Gottschalk, MD Holloway, F Joos, M Kucera, MF Loutre, DJ Lunt, K Marcisz, JR Marlon, P Martinez, V Masson-Delmotte, C Nehrbass-Ahles, BL Otto-Bliesner, CC Raible, B Risebrobakken, **MF Sánchez Goñi**, J Saleem Arrigo, M Sarnthein, J Sjolte, TF Stocker, Velasquez Álvarez, W Tinner, PJ Valdes, H Vogel, H Wanner, Q Yan, Z Yu, M Ziegler, L Zhou, (2018) Palaeoclimate constraints on a world with post-industrial warming of 2 degrees and beyond. *Nature Geoscience*, <https://doi.org/10.1038/s41561-018-0146-0>

84. Bouttes, N., Swingedouw, D., Roche, D. M., **Sanchez-Goni, M. F.**, Crosta, X. (2018, in press). Response of the carbon cycle to the different orbital configurations of the last 9 interglacials. **The Climate of the Past**
83. **Sánchez Goñi, M.F.**, Desprat, S., Fletcher, W.J., Morales del Molino, C., Naughton, F., Oliveira, D., Urrego, D.H., Zorzi, C. (2018). Pollen from the sea: a breakthrough in the mystery of the Ice Ages. **Frontiers in Plant Sciences**, 9.

## 2017

82. Oliveira, D., Desprat, S., Yin, Q., Naughton, F., Trigo, R., Rodrigues, T., Abrantes, F., **Sánchez Goñi, M.F.** (2017). Unraveling the forcings controlling the vegetation and climate of the best orbital analogues for the present interglacial in SW Europe. **Climate Dynamics**, doi:10.1007/s00382-017-3948-7
81. **Sánchez Goñi, M.F.**, Desprat, S., Daniau, A.-L., Bassinot, F., Polanco-Martinez, J.M., Harrison, S.P. and ACER contributors (2017). The ACER pollen and charcoal database : a global resource to document vegetation and fire response to abrupt climate changes during the last glacial period. **Earth System Science Data**, 9, 679-695.
80. d'Errico, F., Banks, W.E., Warren, D.L., Sgubin, G., van Niekerk, K., Henshilwood, C., Daniau, A.-L., **Sánchez Goñi, M.F.** (2017). Identifying early modern human ecological niche expansions and associated cultural dynamics in the South African Middle Stone Age. **PNAS**, 114, 7869-7876.
79. Puech, E., Urrego, D., **Sánchez Goñi, M.F.**, d'Errico, F., Backwell, L. (2017). Vegetation and environmental changes at Wonderkrater, Limpopo, South Africa. Implications for Middle Stone Age cultural adaptation. **Quaternary Research**, 88, 313-326.
78. Desprat, S., Oliveira, D., Naughton, F., **Sánchez Goñi, M.F.** (2017). L'étude du pollen de sequences sédimentaires marines pour la compréhension du climat : l'exemple des périodes chaudes passées. **Quaternaire**, 28, 259-270.
77. Oliveira, D., **Sánchez Goñi, M.F.**, Naughton, F., Polanco-Martínez, J.M., Jimenez-Espejo, F.J., Grimalt, J.O., Martrat, B., Voelker, A.H.L., Trigo, R., Hodell, D., Abrantes, F., Desprat, S. (2017). Unexpected weak seasonal climate in the western Mediterranean region in response to MIS 31, a high-insolation forced interglacial. **Quaternary Science Reviews**, 161, 1-17.

## 2016

76. Oliveira, D., Desprat, S., Rodrigues, T., Naughton, F., Hodell, D.A., Trigo, R., Rufino, M., Lopes, C., Abrantes, F., **Sánchez Goñi, M.F.** (2016) The diversity of millennial-scale cooling events in southwestern Europe during MIS 11. **Quaternary Research** 86, 373-387.
75. **Sánchez Goñi, M.F.**, Rodrigues, T., Hodell, D.A., Polanco-Martinez, J.M., Alonso-Garcia, M., Hernandez-Almeida, I., Desprat, S., Ferretti, P. (2016) Tropically-driven climate shifts in southwestern Europe during MIS 19, a low excentricity interglacial. **Earth and Planetary Science Letters** 448, 81-93.
74. **Sánchez Goñi, M.F.**, Ortu, E., Banks, W., Giraudeau, J., Leroyer, C., Hanquiez, V. (2016) The expansion of Central and Northern European Neolithic populations was associated with a multi-century warm winter and wetter climate. **The Holocene** DOI: 10.1177/0959683616638435
73. Eynaud, F., Londeix, L., Penaud, A., **Sanchez-Goni, M.-F.**, Oliveira, D., Desprat, S., and Turon, J.-L., (2016). Dinoflagellate cyst population evolution throughout past interglacials: Key

features along the Iberian margin and insights from the new IODP Site U1385 (Exp 339). **Global and Planetary Change** 136, 52-64.

72. **Sánchez Goñi, M.F.**, Llave, S., Oliveira, D., Naughton, F., Desprat, S., Ducassou, E., Hodell, D.A., Hernández-Molina, F.J. (2016) Climate changes in south western Iberia and Mediterranean Outflow variations during two contrasting cycles of the last 1 Myrs: MIS 31-MIS 30 and MIS 12- MIS 11. **Global and Planetary Change**, 136, 18-29. doi: 10.1016/j.gloplacha.2015.11.00668.

## 2015

71. Urrego, D.H., **Sánchez Goñi, M.F.**, A. L. Daniau, S. Lechevrel, and V. Hanquiez (2015) Increased aridity in southwestern Africa during the warmest periods of the last interglacial. **The Climate of the Past** 11, 1417-1431, doi:10.5194/cp-11-1417-2015.
70. Naughton, F., **Sánchez Goñi, M.F.**, Rodrigues, T., Salgueiro, E., Costas, S., Desprat, S. Duprat, J., Michel, E., Rossignol, L., Zaragosi, S., Voelker, A.H.L., Abrantes, F. (2015) Climate variability across the last deglaciation in NW Iberia and its margin. **Quaternary International**. doi: [10.1016/j.quaint.2015.08.073](https://doi.org/10.1016/j.quaint.2015.08.073).
69. Seillès, B., **Sánchez Goñi, M.F.**, Ledru, M.-P., Urrego, D.H., Martinez, P., Hanquiez, V., Schneider, R. (2015) Holocene land-sea climatic links on the equatorial Pacific coast (Bay of Guayaquil, Ecuador). **The Holocene**. doi: [10.1177/0959683615612566](https://doi.org/10.1177/0959683615612566).
68. Wagner, S., Litt, T., **Sánchez Goñi, M.F.**, Petit, R.J. (2015) History of *Larix decidua* Mill. (European larch) since 130 ka. **Quaternary Science Reviews** 124, 224-247.
67. Zorzi, C., **Sánchez Goñi, M.F.**, Anupama, K., Prasad, S., Hanquiez, V., Johnson, J., Giosan, L. (2015) Indian monsoon variations during three contrasting climatic periods: the Holocene, Heinrich Stadial 2 and the last interglacial-glacial transition. **Quaternary Science Reviews** 125, 50-60.
66. Desprat, S., Díaz Fernández, P.M., Coulon, T., Ezzat, L., Pessarossi-Langlois, J., Gil, L., Morales-Molino, C., **Sánchez Goñi, M.F.** (2015) *Pinus nigra* (European black pine) as the dominant species of the last glacial pinewoods in southwestern to central Iberia – A morphological study of modern and fossil pollen. **Journal of Biogeography** 42, 1998-2009.

## 2014

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64. Hernández-Molina, F.J., Stow, D.A., Alvarez-Zarikian, C.A., Acton, G., Bahr, A., Balestra B., Ducassou E., Flood, R., Flores, J.A., Furota, S., Grunert, P., Hodell, D., Jimenez-Espejo F., Kim, J.K., Krissek, L., Kuroda, J., Li, B., Llave, E. Lofi, J., Lourens, L. Miller, M., Nanayama, F., Nishida, N., Richter, C., Roque, C., Pereira, H., **Sanchez Goñi, M.F.**, Sierro, F.J., Singh, A.D., Sloss, Yasuhiro Takashimizu C., Tzanova, A., Voelker, A., Williams T. and Xuan, C. (2014). Onset of Mediterranean Outflow into the North Atlantic. **Science** 344, 1244-1250, doi: [10.1126/science.1251306](https://doi.org/10.1126/science.1251306).
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62. Chabaud L., **Sanchez Goñi, M.F.**, Desprat, S., Rossignol, L. (2014) Land-sea climatic variability in the eastern North Atlantic subtropical region over the last 14,200 years: atmospheric and oceanic processes at different timescales. **The Holocene** DOI: 10.1177/0959683614530439

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61. **Sánchez-Goñi, M.F.**, Bard, E., Landais, A., Rossignol, L., d'Errico, F. (2013). Air-sea temperature decoupling in Western Europe during the last interglacial/glacial transition. **Nature Geoscience**, DOI : 10.1038/geo1924.

60. Daniau, A.L., **Sánchez Goñi, M.F.**, Martinez, P., Urrego, D.H., Bout-Roumazielles, V., Desprat, S., Marlon, J.R.(2013). Orbital-scale climate forcing of grassland burning in southern Africa. *PNAS*, doi:0.1073/pnas.1214292110.
59. Fletcher, W.F., Debret, M., **Sanchez Goñi, M.F.** (2013). Mid-Holocene emergence of a low-frequency millennial oscillation in western Mediterranean climate: implications for past dynamics of the North Atlantic atmospheric westerlies. **The Holocene** 23, 153-166.

## 2012

58. Valsecchi, V., **Sánchez Goñi M.F.**, Londeix, L. (2012) Vegetation dynamics in the Northeastern Mediterranean region during the past 23,000 years: insights from a new pollen record from the Sea of Marmara. **The Climate of the Past** 8, 1941-1956.
57. **Sanchez Goni M.F.**, Bakker P., Desprat S., Carlson A.E., Van Meerbeek C.J., Peyron O., Naughton F., Fletcher W.J., Eynaud F., Rossignol L., Renssen H. (2012) European climate optimum and enhanced Greenland melt during the Last Interglacial, **Geology**, 40, 627-630.

## 2011

56. Van Meerbeek, C.J., Renssen, H., Roche, D.M., Wohlfarth, B., Bohncke, S., Bos, H., Engels, S., Helmens, K.F., **Sánchez-Goñi, M.F.**, Svensson, A., Vandenberghe, J. (2011) The nature of MIS 3 stadial-interstadial transitions in Europe: new insights from model-data comparisons. **Quaternary Science Reviews** 30, 3618-3637.
55. Penaud A., Eynaud F., **Sánchez Goñi M.F.**, Malaize B., Turon J.L., Rossignol L. (2011) Contrasting sea-surface responses between the western Mediterranean Sea and eastern subtropical latitudes of the North Atlantic during abrupt climatic events of MIS 3. **Marine Micropaleontology** 80: 1-17.

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53. **Sanchez Goñi, M.F.**, Harrison, S.P. (2010) Millennial-scale climate variability and vegetation changes during the last glacial: concepts and terminology. **Quaternary Science Reviews** 29: 2823-2827.
52. Villa, P., **Sanchez Goñi, M.F.**, Cuenca Bescos, G., Grün, R., Ajas, A., Garcia Pimienta, J.C., Lees, W. (2010) The archaeology and paleoenvironment of an Upper Pleistocene hyena den: An integrated approach. **Journal of Archaeological Science** 37: 919-935.
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50. Fletcher, W.J., **Sanchez Goñi, M.F.**, Peyron, O., Dormoy, I. (2010) Abrupt climate changes of the last deglaciation detected in a Western Mediterranean forest record. **The Climate of the Past** 6 : 245-264.
49. Daniau, A-L., d'Errico, F. & **Sanchez Goñi, M.F.** (2010) Testing the hypothesis of fire use for ecosystem management by Neanderthal and Upper Palaeolithic modern human populations. **Plos One** 5(2): e9157. doi:10.1371/journal.pone.0009157.
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38. Brewer, S., Guiot, J., **Sánchez-Goñi, M.F.**, Klotz, S. (2008), The climate in Europe during the Eemian: a multi-method approach using pollen data. **Quaternary Science Reviews** 27, 2303-2315
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Publication list. Preprints & submitted papers. Barraquand F., Picoche C., Detto M. & Hartig F. Inferring species interactions using Granger causality and convergent cross mapping. Barraquand F. & Gimenez O. Fitting stochastic predator-prey models using both population density and kill rate data. Barraquand F., Picoche C., Aluome C., Carassou L. & Feign C. Looking for compensation at multiple scales in a wetland bird community. Here is our list of the top 50 medium publications on the platform. Ive been watching as many of the publications on this list have grown drastically since the start of the year; its always fun to observe growth, especially when theres natural competition. As you may know, Top Publications by Smedian tracks over 8,200 Medium publications and ranks them by their number of followers to help readers and writers find the right ones for them.