



## ***Curriculum Vitae – Laura Sadori***

**Laura Sadori** works at Dipartimento di Biologia Ambientale, Università “La Sapienza”, Roma, and has a permanent position as Professore Ordinario in Systematic Botany (BIO/02).

### **Qualifications**

Laura Sadori is graduated in Scienze Naturali (University of Rome “La Sapienza”), Master in Botanica (Universitat Autònoma de Barcelona, Spain), European Doctor in Biology (PhD in Botany, Universitat Autònoma de Barcelona, Spain).

### **Scientific production and bibliometric indicators**

ISI Web of Science: 88 articles, H index 36, citations 3381.

Scopus: 128 articles, H index 38, citations 4069.

Google Scholar: H index 41, citations 5775.

For updating, please check:

[LS ID ORCID](http://orcid.org/0000-0002-2774-6705): <http://orcid.org/0000-0002-2774-6705>

[LS Researcher ID](https://researcherid.com/rid/E-4774-2015): [researcherid.com/rid/E-4774-2015](https://researcherid.com/rid/E-4774-2015)

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[LS pagina scholar](https://scholar.google.it/citations?user=ArOp8t0AAAAJ&hl=it): <https://scholar.google.it/citations?user=ArOp8t0AAAAJ&hl=it>

[LS TOPITALIANSCIENTISTS](http://www.topitalianscientists.org/):

[http://www.topitalianscientists.org/TIS\\_HTML/Top\\_Italian\\_Scientists\\_Natural\\_Environmental\\_Sciences.htm](http://www.topitalianscientists.org/TIS_HTML/Top_Italian_Scientists_Natural_Environmental_Sciences.htm)

### **Current scientific interests:**

- Palynology of the Quaternary
- Palaeoenvironmental and palaeoclimatic reconstructions through pollen analysis
- Archaeobotany
- Holocene climatic change vs. human impact
- Plant macrofossil study through isotope and aDNA analyses

### **Scientific duties**

- Vice-President of the International Federation of Palynological Societies (IFPS) since 2017.
- Vice-President of the International Union for Quaternary Research (INQUA) dal 2019.
- Italian Councilor at the International Federation of Palynological Societies (IFPS) in the period 2000 – 2008 and 2016-present.
- Coordinator of the international pollen group of palynology SCOPSCO project -Scientific Collaboration On Past Speciation Conditions in Lake Ohrid since 2014.
- Member of the Advisory Board of European Pollen Database (EPD) in the years 2004-2008.
- Coordinator of Gruppo di interesse scientifico e tecnico operativo per la Palinologia della Società Botanica Italiana in the period 2005-2011.
- Coordinator of Gruppo di interesse scientifico e tecnico operativo per la Paleobotanica della Società Botanica Italiana in the period 2012-2015.
- Deputy of Macroarea A in Commissione Ricerca di Ateneo (Università “La Sapienza”) in the period 2015-2016.

### **Università degli Studi di Roma “La Sapienza”**

#### **Dipartimento di Biologia Ambientale**

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### **Editorial roles**

Participation to editorial boards

- Annali di Botanica, since 2013.
- Plant Biosystems, since 2016.

Editor of special issues of ISI journals:

- Sadori L., Perez R., Bittmann F. (eds) 2007. Special Issue on Evolution of the landscape and climate in the Mediterranean ecosystem. *Vegetation History and Archaeobotany*, 16(4).
- Bertini A., Sadori L. (eds) 2010. Special Issue on Palynological and palaeobotanical Plio-Pleistocene records from Italy: State of the Art. *Quaternary International*, 225(1).
- Mercuri A.M., Sadori L., Blasi C. (eds) 2010. Archaeobotany for cultural landscape and human impact reconstructions. *Plant Biosystems*, 144(4).
- Roberts N., Sadori L., Perez R. (eds) 2011. Special Issue on Mid-Holocene climate change in the Mediterranean region. *The Holocene*, 11(2).
- Zanchetta G., Bini, M., Cremaschi, M., Magny, M., Sadori, L. (eds) 2013. The transition from natural to anthropogenic-dominated environmental change in Italy and the surrounding regions since the Neolithic. *Quaternary International*, 303.
- Mercuri A.M., Marignani M., Sadori L. (eds) 2015. Palaeoecology and Long-Term Human Impact in Plant Biology, 149(1).

Referees for scientific reviews with Impact Factor:

*Catena, Comptes Rendus Biologies, Forest and Ecology Management, Geology, Global Ecology and Biogeography, Global Planetary Change, Journal of Archaeological Science, Journal of Cultural Heritage, Journal of Paleolimnology, Journal of Vegetation Science, Landscape Ecology, Plant Biosystems, Plos One, Quaternary International, Quaternary Science Reviews, Rapid Communication in Mass Spectrometry, Review of Palaeobotany and Palynology, The Holocene, Vegetation History and Archaeobotany*) e senza Impact Factor (*Journal of Environmental Archaeology, Alpine and Mediterranean Quaternary (già Il Quaternario), Informatore Botanico Italiano, Journal of African Archaeology, Journal of Mediterranean Archaeology, The Egyptian Journal of Botany*) and of special series (*British Archaeological Reports*).

Reviewer of research projects:

- USA (National Science Foundation, Division of Earth Sciences), United Arab Emirates University, NKFI Hungarian National Research, Development and Innovation Office), German Israeli Foundation, Swiss National Foundation and of post-doc grants of European Union at foreign universities.
- reviewer for VQR 2004-2010 (GEV04 and GEV05).

### **Main scientific projects (both in the role of coordinator and of scientist responsible):**

European Union

- 2005-2006: Cultural landscapes of the past: recovering crop fields and gardens in archaeological parks of Europe, Program Culture 2000.
- 2007-2009: Plants and Culture: seeds of the Cultural Heritage of Europe, Program Culture 2000.

APAT

- 2004-2005: Studio paleobotanico dei depositi continentali plio-quadernari affioranti nell'area del foglio n. 367 "Tagliacozzo" della Carta Geomorfologia d'Italia.

MIUR - national

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- Prin-Miur 2006-2008: Il ruolo dell'agricoltura e dell'artigianato nel sistema economico centralizzato del IV millennio ad Arslantepe-Malatya: lo studio sperimentale paleobotanico.
- Prin-Miur 2008-2010: PICAR – Il paesaggio culturale e l'impatto umano nei paesi circum-mediterranei.

She coordinated five projects of Sapienza university and took part in seven other projects of European Union, in two French CNRS projects and in a number of Italian projects of CNR, ENEA and ministry ones.

### Teaching duties

- She is at present tenured for teaching:
  - Archeobotanica (3 CFU) in Laboratorio per lo studio dei materiali di origine vegetale to students of the first level degree in Tecnologie per la Conservazione e il Restauro dei Beni Culturali.
  - Archeological research: methods and Case Studies to students of the second level degree in Scienze and Tecnologie per la Conservazione dei Beni Culturali and of the Erasmus Mundus European Master in Archaeological Materials Sciences.
  - Introduction to thesis and practical seminars to students of the second level degree in Scienze and Tecnologie per la Conservazione dei Beni Culturali and of the Erasmus Mundus European Master in Archaeological Materials Sciences.
  - Botanica Sistemática to students of the first level degree in Scienze Naturali.
- She is a member of the teaching board of Dottorato di Ricerca in Scienze della Terra of Sapienza university.
- Laura Sadori takes part in the Erasmus program in the frame of Teaching Mobility (TM) with the universities of Barcelona (Spain), of South Boemia (Czech Republic) and of Athens (Greece).
- She was tutor of six PhD students (XX ciclo, Scienze Botaniche, XXIV ciclo, Scienze Applicate per la Protezione dell'Ambiente e dei Beni Culturali, XXVI, XXVIII, XXX ciclo, Scienze della Terra) and she is at present tutor of two PhD students.
- She was in several national boards (Università di Genova, Università di Modena e Reggio Emilia, Università di Pisa, Università di Padova) and in foreign ones (Universitat Autònoma de Barcelona and Universidad del País Vasco, Spain; Universität zu Köln, Germany, Université de Montpellier, France) for the final exam of PhD students.

### List of recent publications (2015-present)

*Articles in Web of Sciences (with Impact Factor) and in Scopus*

1. (p ISI, Scopus) Combourieu-Nebout N., Bertini A., Russo-Ermolli E., Peyron O., Klotz S., Montade V., Fauquette S., Allen J.R.M., Fusco F., Goring S., Huntley B., Joannin S., Lebreton V., Magri D., Martinetto E., Orain R., Sadori L., 2015. Climate changes in the central Mediterranean and Italian vegetation dynamics since the Pliocene. *Review of Palaeobotany and Palynology*, 218: 127–147, doi 10.1016/j.revpalbo.2015.03.001.
2. (p ISI) Giaccio B. Regattieri E., Zanchetta G., Wagner B., Galli P., Mannella G., Niespolo E., Peronace E., Renne P. R., Nomade S., Cavinato G.P., Messina P., Sposato A., Boschi C., Florindo F., Marra F., Sadori L. 2015. A key continental archive for the last 2 Ma of climatic history of the central Mediterranean region: A pilot drilling in the Fucino Basin, central Italy. *Sci. Dril.*, 20, 13–19, doi:10.5194/sd-20-13-2015.

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3. (p Scopus) Marchetto A., Aritzegui D., Brauer A., Lami A., Mercuri A.M., Sadori L., Vigliotti L., Wolf S., Guilizzoni P., 2015. Crater lake sediments as sensitive archives of climate and environment change. In: Rouwet D., Christenson B., Tassi F., Vandemeulebrouck J.: *Volcanic Lakes*, pag. 379-399, Springer Berlin Heidelberg.
4. (p ISI, Scopus) Mazzini I., Gliozzi E., Koci R., Soulie-Märsche I., Zanchetta G., Baneschi I., Sadori L., Giardini M., Van Welden A., Bushati S., 2015. Historical evolution and Middle to Late Holocene environmental changes in Lake Shkodra (Albania): New evidences from micropaleontological analysis. *Palaeogeography, Palaeoclimatology, Palaeoecology* 419: 47–59. Doi <http://dx.doi.org/10.1016/j.palaeo.2014.08.012>.
5. (p ISI, Scopus) Mercuri A.M., Allevato E., Arobba D., Bandini Mazzanti M., Bosi G., Caramiello R., Castiglioni E., Carra M.L., Celant A., Costantini L., Di Pasquale G., Fiorentino G., Florenzano A., Guido M., Marchesini M., Mariotti Lippi M., Marvelli S., Miola A., Montanari C., Nisbet R., Peña-Chocarro L., Perego R., Ravazzi C., Rottoli M., Sadori L., Uccesu M., Rinaldi R., 2015. Pollen and macroremains from Holocene archaeological sites: a dataset for the understanding of the bio-cultural diversity of the Italian landscape. *Review of Palaeobotany and Palynology*, 218: 250-266, doi 10.1016/j.revpalbo.2014.05.010.
6. (p ISI, Scopus) Mercuri A.M., Marignani M., Sadori L., 2015. Palaeoecology and long-term human impact in plant biology. *Plant Biosystems* 149: 136-143, doi 10.1080/11263504.2014.998309.
7. (p Scopus) Piccione P., Alvaro C., Bartosiewicz L., Lemorini C., Masi A., Sadori L., 2015. Distribution of artifacts and ecofacts in an Early Bronze Age house in Eastern Anatolia: Space use and household economy at Arslantepe VI B2 (2900–2750 BCE). *Journal of Archaeological Science: Reports*, 4, 8-22.
8. (p ISI, Scopus) Sadori L., Allevato E., Bellini C., Bertacchi A., Boetto G., Di Pasquale G., Giachi G., Giardini M., Masi A., Pepe C., Russo Ermolli E., Mariotti Lippi M., 2015. Archaeobotany in Italian ancient Roman harbours. *Review of Palaeobotany and Palynology*, 218: 217-230, doi 10.1016/j.revpalbo.2014.02.004.
9. (p ISI, Scopus) Sadori L., Giardini M., Gliozzi E., Mazzini I., Sulpizio R., van Welden A., Zanchetta G. 2015. Vegetation, climate and environmental history of the last 4500 years at lake Shkodra (Albania/Montenegro). *The Holocene* 25: 435-444, doi 10.1177/0959683614561891.
10. (p ISI, Scopus) Sadori L., Masi A., Ricotta C., 2015. Climate driven past fires in central Sicily. *Plant Biosystems* 149: 166-173, doi 10.1080/11263504.2014.992996.
11. (p Scopus) Bertini A., Sadori L., Combourieu-Nebout N., Donders T.H., Kouli K., Koutsodendris A., Joannin S., Masi A., Mercuri A.M., Panagiotopoulos K., Peyron O., Sinopoli G., Torri P., Zanchetta G., Francke A., Wagner B. 2016. All together now: An international palynological team documents vegetation and climate changes during the last 500 kyr at lake Ohrid (SE Europe). *Alpine and Mediterranean Quaternary* 29: 201-210.
12. (p ISI, Scopus) Francke A., Wagner B., Just J., Leicher N., Gromig R., Baumgarten H., Vogel H., Lacey J. H., Sadori L., Wonik T., Leng M. J., Zanchetta G., Sulpizio R., Giaccio B. 2016. Sedimentological processes and environmental variability at Lake Ohrid (Macedonia, Albania) between 637 ka and the present. *Biogeosciences* 13:1179-1196.
13. (p ISI, Scopus) Gatta M., Sinopoli G., Giardini M., Giaccio M., Hajdas I., Pandolfi L., Bailey G., Spikins P., Rolfo M. F., Sadori L. 2016. Pollen from Late Pleistocene



- hyena (*Crocota crocuta spelaea*) coprolites: an interdisciplinary approach from two Italian sites. *Review of Palaeobotany and Palynology*, doi: 10.1016/j.revpalbo.2016.07.005
14. (p ISI, Scopus) Hoogakker B.A.A., Smith R.S., Singarayer J.S., Marchant R., Prentice I.C., Allen J.R.M., Anderson R.S., Bhagwat S.A., Behling H., Borisova O., Bush M., Correa-Metrio A., de Vernal A., Finch J.M., Fréchette B., Lozano-Garcia S., Gosling W.D., Granoszewski W., Grimm E.C., Gröger E., Hanselman J., Harrison S.P., Hill T.R., Huntley B., Jiménez-Moreno G., Kershaw P., Ledru M.-P., Magri D., McKenzie M., Müller U., Nakagawa T., Novenko E., Penny D., Sadori L., Scott L., Stevenson J., Valdes P.J., Vandergoes M., Velichko A., Whitlock C., Tzedakis C. 2016. Terrestrial biosphere changes over the last 120 kyr. *Clim. Past* 12, 51–73.
  15. (p ISI, Scopus) Izdebski A., Holmgren K., Weiberg E., Stocker S.R., Büntgen U., Florenzano A., Gogou A., Leroy A.G.S., Luterbacher J., Martrat B., Masi A., Mercuri A.M., Montagna P., Sadori L., Schneider A.L., Sicre A.M., Triantaphyllou M., Xoplaki E. 2016. Realising consilience: how better communication between archaeologists, historians and geoscientists can transform the study of past climate change in the Mediterranean. *Quaternary Science Reviews* 136: 5-22, 10.1016/j.quascirev.2015.10.038.
  16. (p ISI, Scopus) Mazzini I., Gliozzi E., Galaty M., Bejko L., Sadori L., Soulie-Marsche I., Koçi R., Van Welden A., Bushati S. 2016. Holocene evolution of Lake Shkodra: Multidisciplinary evidence for diachronic landscape change in northern Albania. *Quaternary Science Reviews* 136: 85-95, <http://dx.doi.org/10.1016/j.quascirev.2016.01.006>
  17. (p ISI, Scopus) Morellon M., Anselmetti F.S., Ariztegui D., Brushulli B., Sinopoli G., Wagner B., Sadori L., Gilli A., Pambuku A. 2016. Human-climate interactions in the central Mediterranean region during the last millennia: The laminated record of Lake Butrint (Albania). *Quaternary Science Reviews* 136: 134-152, <http://dx.doi.org/10.1016/j.quascirev.2015.10.043>.
  18. (p ISI, Scopus) Pepe C., Sadori L., Andrieu-Ponel V., Salomon F., Goiran J.-P., 2016. Late Holocene pollen record from Fiume Morto (Dead River), a palaeomeander of Tiber River near Ancient Ostia (central Italy). *Journal of Paleolimnology* 56: 173–187, DOI 10.1007/s10933-016-9903-5
  19. (p ISI, Scopus) Sadori L., Giraudi C., Masi A., Magny M., Ortu E., Zanchetta G., Izdebski A. 2016. Climate, environment and society in southern Italy during the last 2000 years. A review of the environmental, historical and archaeological evidence. *Quaternary Science Reviews* 136: 173-188, <http://dx.doi.org/10.1016/j.quascirev.2015.09.020>.
  20. (p ISI, Scopus) Sadori L., Koutsodendris A., Panagiotopoulos K., Masi A., Bertini A., Combourieu-Nebout N., Francke A., Kouli K., Joannin S., Mercuri A.M., Peyron O., Torri P., Wagner B., Zanchetta G., Sinopoli G., Donders T.H., 2016. Pollen-based paleoenvironmental and paleoclimatic change at Lake Ohrid (SE Europe) during the past 500 ka, *Biogeosciences*, 13, 1423–1437, <http://dx.doi.org/10.5194/bg-13-1423-2016>.
  21. (p ISI, Scopus) Sadori L., Mazzini I., Pepe C., Goiran J.-P., Pleuger E., Ruscito V., Salomon F., Vittori C. 2016. Palynology and ostracodology at the Roman port of ancient Ostia. *The Holocene* 26, 1502–1512, doi 10.1177/0959683616640054.
  22. (p ISI, Scopus) Wilke T., Wagner B., Van Bocxlaer B., Albrecht C., Ariztegui D., Delicado D., Francke A., Harzhauser, M., Hauffe T., Holtvoeth J., Just J., Leng M.J., Levkov Z., Penkman K., Sadori, L., Skinner A., Stelbrink, B., Vogel, H., Wesselingh F., Wonik T., 2016. Scientific drilling projects in ancient lakes: Integrating geological and biological histories. *Global and Planetary Change* 143: 118-151.





23. (p ISI, Scopus) Zanchetta G., Regattieri E., Giaccio B., Wagner B., Sulpizio R., Francke A., Vogel H., Sadori L., Masi A., Sinopoli G., Lacey J. H., Leng M. J., Leicher N. 2016. Aligning and synchronization of MIS5 proxy records from Lake Ohrid (FYROM) with independently dated Mediterranean archives: implications for DEEP core chronology, *Biogeosciences* 13, 2757-2768, doi: 10.5194/bg-13-2757-, 2016.
24. (p ISI, Scopus) Marignani M., Chiarucci A., Sadori L., Mercuri A. M. 2017. Natural and human impact in Mediterranean landscapes: An intriguing puzzle or only a question of time? *Plant Biosystems* 151: 900-905.
25. (p ISI, Scopus) Peyron O., Combourieu-Nebout N., Brayshaw D., Goring S., Andrieu-Ponel V., Desprat S., Fletcher W., Gambin B., Ioakim C., Joannin S., Kotthoff U., Kouli K., Montade V., Pross J., Sadori L., Magny M. 2017. Precipitation changes in the Mediterranean basin during the Holocene from terrestrial and marine pollen records: a model–data comparison. *Climate of the Past* 13, 249–265, doi:10.5194/cp-13-249-2017.
26. (p ISI, Scopus) Thienemann M., Masi A., Kusch S., Sadori L., John S., Francke A., Wagner B., Rethemeyer J. 2017. Organic geochemical and palynological evidence for Holocene natural and anthropogenic environmental change at Lake Dojran (Macedonia/Greece). *The Holocene*, doi/10.1177/0959683616683261.
27. (p ISI, Scopus) Wagner B., Wilke T., Francke A., Albrecht C., Baumgarten H., Bertini A., Combourieu-Nebout N., Cvetkoska A., D’Addabbo M., Donders T.H., Föller K., Giaccio B., Grazhdani A., Hauffe T., Holtvoeth J., Joannin S., Jovanovska E., Just J., Kouli K., Koutsodendris A., Krastel S., Lacey J.H., Leicher N., Leng M.J., Levkov Z., Lindhorst K., Masi A., Mercuri A.M., Nomade S., Nowaczyk N., Panagiotopoulos K., Peyron O., Reed J.M., Regattieri E., Sadori L., Sagnotti L., Stelbrink B., Sulpizio R., Tofilovska S., Torri P., Vogel H., Wagner T., Wagner-Cremer F., Wolff G.A., Wonik T., Zanchetta G., S. Zhang X., 2017. The environmental and evolutionary history of Lake Ohrid (FYROM/Albania): Interim results from the SCOPSCO deep drilling project. *Biogeosciences*, 14: 2033-2054.
28. (p ISI, Scopus) Bellotti P., Davoli L., Sadori L., 2018. Landscape diachronic reconstruction in the Tiber delta during historical time: a holistic approach. *Geografia Fisica e Dinamica Quaternaria* 41: 3-21
29. (p ISI, Scopus) Marra, F., Motta, L., Brock, A.L., Macrì, P., Florindo, F., Sadori, L., Terrenato, N. 2018. Rome in its setting. Post-glacial aggradation history of the tiber river alluvial deposits and tectonic origin of the Tiber island (Article). *PLOS One* 13, e0194838
30. (p ISI, Scopus) Masi, A., Balossi Restelli, F., Sabato, D. Vignola C., Sadori L. 2018. Timber exploitation during the 5th–3rd millennia BCE at Arslantepe (Malatya, Turkey): environmental constraints and cultural choices *Archaeological and Anthropological Science* 10: 465-483. <https://doi.org/10.1007/s12520-017-0499-0>
31. (p ISI, Scopus) Masi, A., Francke, A., Pepe C., Thienemann M., Wagner B., Sadori L., 2018. Vegetation history and paleoclimate at Lake Dojran (FYROM/Greece) during the Late Glacial and Holocene. *Climate of the Past* 14: 351–367.
32. (p Scopus) Moricca C., Alhaique F., Barelli L., Masi A., Morretta S., Pugliese R., Sadori L., 2018. Early Arrival of New World Species Enriching the Biological Assemblage of the Santi Quattro Coronati Complex (Rome, Italy), *IANSA, Interdisciplinaria Archaeologica Natural Sciences in Archaeology*, 9: 83-93.
33. (p ISI, Scopus) Sadori, L., 2018. The Lateglacial and Holocene vegetation and climate history of Lago di Mezzano (central Italy). *Quaternary Science Reviews* 202: 30-44.

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34. (p ISI, Scopus) Sinopoli G., Masi A., Regattieri E., Wagner B., Francke A., Peyron O., Sadori L. 2018. Palynology of the Last Interglacial Complex at Lake Ohrid: palaeoenvironmental and palaeoclimatic inferences. *Quaternary Science Reviews* 180: 177-192.
35. (p ISI, Scopus) Vignola C., Masi A., Balossi Restelli F., Frangipane M., Marzaioli F., Passariello I., Rubino M., Terrasi F., Sadori L., 2018.  $\delta^{13}\text{C}$  values in archaeological  $^{14}\text{C}$ -AMS dated charcoals: assessing mid-Holocene climate fluctuations and human response from a high-resolution isotope record (Arslantepe, Turkey). *Rapid Communications in Mass Spectrometry* 32: 1149-1162.
36. (p ISI, Scopus) Vignola C., Masi A., Balossi Restelli F., Frangipane M., Marzaioli F., Passariello I., Stellato L., Terrasi F., Sadori L., 2018.  $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$  from  $^{14}\text{C}$ -AMS dated cereal grains reveal agricultural practices during 4300–2000 BC at Arslantepe (Turkey). *Review of Palaeobotany and Palynology* 247, 164-174.
37. (p ISI, Scopus) Zanchetta G., Baneschi, I., Francke, A., Boschi, C., Regattieri, E., Wagner, B., Lacey, J.H., Leng, M. J., Vogel, H., Sadori, L., 2018. Evidence for carbon cycling in a large freshwater lake in the Balkans over the last 0.5 million years using the isotopic composition of bulk organic matter *Quaternary Science Reviews* 202: 154-165.
38. (p ISI, Scopus) Mercuri A.M., Florenzano A., Burjachs F., Giardini M., Kouli K., Masi A., Picornell-Gelabert L., Revelles J., Sadori L., Servera-Vives G., Torri P., Fyfe, R. 2019. From influence to impact: The multifunctional land use in Mediterranean prehistory emerging from palynology of archaeological sites (8.0-2.8 ka BP). *The Holocene*, 10.1177/0959683619826631
39. (p ISI, Scopus) Sinopoli G., Peyron O., Masi A., Holtvoeth J., Francke A., Wagner B., Sadori L., 2019. Pollen-based temperature and precipitation changes in the Ohrid Basin (western Balkans) between 160 and 70 ka. *Climate of the Past* 15: 53-71.
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