

François-Xavier Le Bourdonnec

List of Articles by Year in descending order

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52

peer-reviewed
articles

959

peer-reviewed
citations

472329

19

peer-reviewed
h-index

593275

29

g-index

58

documents

1114

doc citations

444359

21

h-index

1576

citing authors

#	ARTICLE	IF	CITATIONS
1	Supervised laser induced breakdown spectroscopy classification for prehistoric chert provenance: A methodological framework. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2025, 263, 105411.	3.6	4
2	Chert sourcing using LIBS: The case of Cova del Parco, Spain. <i>Archaeometry</i> , 2024, 66, 493-505.	1.3	3
3	Patterns of lithic procurement strategies in the Pre-Pyrenean Middle Magdalenian sequence of Cova del Parco (Aï's de Balaguer, Spain). <i>Geoarchaeology - an International Journal</i> , 2024, 39, 453-469.	1.2	6
4	Obsidian in the Caribbean islands? Mysterious Ceramic Age glass artefacts in the Lesser Antilles. <i>Archaeometry</i> , 2024, 66, 1255-1279.	1.3	1
5	Consuming local: The new obsidian source of Ideloo (Northwestern Iran) and first evidence of use by neighbouring prehistoric communities. <i>Geoarchaeology - an International Journal</i> , 2021, 36, 266-282.	1.2	2
6	Characterizing the lithic raw materials from Fuente del Trucho (AsqueâColungo, Huesca): New data about Palaeolithic human mobility in north-east Iberia. <i>Archaeometry</i> , 2021, 63, 247-265.	1.3	4
7	Extending the scale of obsidian studies: Towards a high-resolution investigation of obsidian prehistoric circulation patterns in the southern Caucasus and north-western Iran. <i>Archaeometry</i> , 2021, 63, 923-940.	1.3	10
8	Earliest known human burial in Africa. <i>Nature</i> , 2021, 593, 95-100.	38.0	91
9	Tracing Palaeolithic human routes through the geochemical characterisation of chert tools from Caune de Belvis (Aude, France). <i>Archaeological and Anthropological Sciences</i> , 2020, 12, .	1.5	6
10	Lithic raw material procurement at the Chaves cave (Huesca, Spain): A geochemical approach to defining Palaeolithic human mobility. <i>Geoarchaeology - an International Journal</i> , 2020, 35, 856-870.	1.2	22
11	Obsidian consumption at QdeirÂ1, a Final Pre-Pottery Neolithic site in Syria: An integrated characterisation study. <i>Comptes Rendus - Palevol</i> , 2019, 18, 268-282.	0.3	13
12	Crossing the Pyrenees during the Late Glacial Maximum. The use of geochemistry to trace past human mobility. <i>Journal of Anthropological Archaeology</i> , 2019, 56, 101105.	1.5	13
13	Sourcing and nuclear magnetic resonance: new applications for old materials. <i>Science and Technology of Archaeological Research</i> , 2019, 5, 20-28.	1.1	3
14	Advanced statistical analysis of LIBS spectra for the sourcing of obsidian samples. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 867-873.	3.0	28
15	Geochemical fingerprinting of Monegros cherts: Redefining the origin of a prehistoric tracer. <i>Archaeometry</i> , 2019, 61, 1233-1245.	1.3	15
16	Manganese and iron oxide use at Combe-Grenal (Dordogne, France): A proxy for cultural change in Neanderthal communities. <i>Journal of Archaeological Science: Reports</i> , 2019, 25, 239-256.	0.5	20
17	First Obsidian in the Northern French Alps during the Early Neolithic. <i>Journal of Field Archaeology</i> , 2019, 44, 180-194.	1.2	5
18	Provenance d'artefacts en rhyolite corse: Ãvaluation des mÃethodes d'analyse gÃochimique. <i>Comptes Rendus - Palevol</i> , 2018, 17, 220-232.	0.3	3

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19	Obsidian economy on the Cauria Plateau (South Corsica, Middle Neolithic): New evidence from Renaghju and I Stantari. <i>Quaternary International</i> , 2018, 467, 323-331.	1.5	2
20	Bone or shell? Using ED-XRF to determine the nature of prehistoric ornaments. <i>Journal of Archaeological Science: Reports</i> , 2018, 21, 128-136.	0.5	1
21	Micro-PIXE studies on prehistoric chert tools: elemental mapping to determine Palaeolithic lithic procurement. <i>Archaeological and Anthropological Sciences</i> , 2018, 11, 2375-2383.	1.5	6
22	On sourcing obsidian assemblages from the Mediterranean area: analytical strategies for their exhaustive geochemical characterisation. <i>Journal of Archaeological Science: Reports</i> , 2017, 12, 834-844.	0.5	23
23	Trace element mapping of two Pyrenean chert deposits (SW Europe) by PIXE. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 400, 58-64.	1.2	5
24	Applying ED-XRF and LA-ICP-MS to geochemically characterize chert. The case of the Central-Eastern Pre-Pyrenean lacustrine cherts and their presence in the Magdalenian of NE Iberia. <i>Journal of Archaeological Science: Reports</i> , 2017, 13, 88-98.	0.5	18
25	The geochemical characterization of two long distance chert tracers by ED-XRF and LA-ICP-MS. Implications for Magdalenian human mobility in the Pyrenees (SW Europe). <i>Science and Technology of Archaeological Research</i> , 2017, 3, 405-417.	1.1	23
26	Reconsidering prehistoric chert catchment sources: new data from the Central Pyrenees (Western) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.5	10
27	Ochre Provenance and Procurement Strategies During The Middle Stone Age at Diepkloof Rock Shelter, South Africa. <i>Archaeometry</i> , 2016, 58, 807-829.	1.3	58
28	Sourcing obsidian: a new optimized LA-ICP-MS protocol. <i>Science and Technology of Archaeological Research</i> , 2016, 2, 192-202.	1.1	14
29	Bondi Cave and the Middle-Upper Palaeolithic transition in western Georgia (south Caucasus). <i>Quaternary Science Reviews</i> , 2016, 146, 77-98.	3.1	42
30	The extreme mobility of debris avalanches: A new model of transport mechanism. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 8110-8119.	3.7	75
31	Towards high resolution ceramic series for production site studies: the case of Loron amphorae (Croatia, 1st-3rd c. A.D.). <i>Heritage Science</i> , 2015, 3, .	3.3	3
32	Obsidians from the Kerkennah Islands (eastern Tunisia) and the PIXE elemental compositions of the Mediterranean peralkaline obsidians. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 358, 271-275.	1.2	6
33	Les stèles gravées néolithiques de Beyssan à Gargas (Vaucluse). <i>Bulletin De La Societe Prehistorique Francaise</i> , 2015, 112, 761-788.	0.2	2
34	Typologie et provenance de l'obsidienne du site néolithique de Guaita (NW Cap Corse, Corse, France). <i>Comptes Rendus - Palevol</i> , 2014, 13, 317-331.	0.3	9
35	Obsidians artefacts from Renaghju (Corsica Island) and the Early Neolithic circulation of obsidian in the Western Mediterranean. <i>Archaeological and Anthropological Sciences</i> , 2014, 7, 441-462.	1.5	17
36	Sourcing obsidian from Tell Aswad and Qdeir 1 (Syria) by SEM-EDS and EDXRF: Methodological implications. <i>Comptes Rendus - Palevol</i> , 2013, 12, 173-180.	0.3	29

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37	Libyan Desert Glass: New field and Fourier transform infrared data. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2517-2530.	2.0	22
38	Multiple origins of Bondi Cave and Ortvale Klde (NW Georgia) obsidians and human mobility in Transcaucasia during the Middle and Upper Palaeolithic. <i>Journal of Archaeological Science</i> , 2012, 39, 1317-1330.	2.4	51
39	New data and provenance of obsidian blocks from Middle Neolithic contexts on Corsica (western Tj ETQq1 1 0.784314 rgBT /Overlock 18	0.3	18
40	Marginal Perspectives: Sourcing Epi-Palaeolithic to Chalcolithic Obsidian from the Ā-kĀ¼zini Cave (SW Tj ETQq0 0 0 rgBT /Overlock 10	0.4	25
41	SEM-EDS characterization of western Mediterranean obsidians and the Neolithic site of A Fuata (Corsica). <i>Journal of Archaeological Science</i> , 2010, 37, 92-106.	2.4	44
42	Obsidian from the Epipalaeolithic and Neolithic eastern Maghreb. A view from the Hergla context (Tunisia). <i>Journal of Archaeological Science</i> , 2010, 37, 2529-2537.	2.4	36
43	The use of SEM-EDS, PIXE and EDXRF for obsidian provenance studies in the Near East: a case study from Neolithic ĀžatalhĀ¼k (central Anatolia). <i>Journal of Archaeological Science</i> , 2010, 37, 2705-2720.	2.4	82
44	Obsidians in the Rio Saboccu (Sardinia, Italy) campsite: Provenance, reduction and relations with the wider Early Neolithic Tyrrhenian area. <i>Comptes Rendus - Palevol</i> , 2008, 7, 249-258.	0.3	27
45	Chert and obsidian procurement of three Corsican sites during the 6th and 5th millenniums BC. <i>Comptes Rendus - Palevol</i> , 2008, 7, 237-248.	0.3	20
46	Origins of prehistoric flints: The neocortex memory revealed by scanning electron microscopy. <i>Comptes Rendus - Palevol</i> , 2007, 6, 557-568.	0.3	48
47	Early Neolithic obsidians in Sardinia (Western Mediterranean): the Su Carroppu case. <i>Journal of Archaeological Science</i> , 2007, 34, 428-439.	2.4	40
48	A map ofĀtheĀMonte Arci (Sardinia Island, Western Mediterranean) obsidian primary toĀsecondary sources. Implications forĀNeolithic provenance studies. <i>Comptes Rendus - Palevol</i> , 2006, 5, 995-1003.	0.3	33
49	SEMĀ€EDS analysis of western Mediterranean obsidians: a new tool for Neolithic provenance studies. <i>Comptes Rendus - Geoscience</i> , 2006, 338, 1150-1157.	1.4	29
50	PIXE characterization of Western Mediterranean and Anatolian obsidians and Neolithic provenance studies. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005, 240, 595-599.	1.2	39
51	Raman micro-spectroscopy of western Mediterranean obsidian glass: one step towards provenance studies?. <i>Journal of Raman Spectroscopy</i> , 2004, 35, 671-677.	1.9	51
52	Archaeometrical study of ceramic materials from the ChupĀcuaro culture (Formative Period,) Tj ETQq0 0 0 rgBT /Overlock 10 Jf 50 142	1.3	10