

# Alfonso Benito-Calvo

## List of Publications by Year in descending order

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82  
papers

2,773  
citations

186265

28  
h-index

182427

51  
g-index

85  
all docs

85  
docs citations

85  
times ranked

2121  
citing authors

#	ARTICLE	IF	CITATIONS
1	The first hominin of Europe. <i>Nature</i> , 2008, 452, 465-469.	27.8	545
2	An Early Pleistocene hominin mandible from Atapuerca-TD6, Spain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 5674-5678.	7.1	152
3	Assessing regional geodiversity: the Iberian Peninsula. <i>Earth Surface Processes and Landforms</i> , 2009, 34, 1433-1445.	2.5	128
4	Matuyama-age lithic tools from the Sima del Elefante site, Atapuerca (northern Spain). <i>Journal of Human Evolution</i> , 2006, 50, 163-169.	2.6	117
5	Experimental protocols for the study of battered stone anvils from Olduvai Gorge (Tanzania). <i>Journal of Archaeological Science</i> , 2013, 40, 313-332.	2.4	86
6	OSL dating of the Middle Pleistocene palaeolithic Hootel California site, Sierra de Atapuerca, north-central Spain. <i>Boreas</i> , 2013, 42, 285-305.	2.4	81
7	ESR chronology of alluvial deposits in the Arlanzán valley (Atapuerca, Spain): Contemporaneity with Atapuerca Gran Dolina site. <i>Quaternary Geochronology</i> , 2012, 10, 418-423.	1.4	78
8	Analysis of orientation patterns in Olduvai Bed I assemblages using GIS techniques: Implications for site formation processes. <i>Journal of Human Evolution</i> , 2011, 61, 50-60.	2.6	74
9	Evolution of multilevel caves in the Sierra de Atapuerca (Burgos, Spain) and its relation to human occupation. <i>Geomorphology</i> , 2013, 196, 122-137.	2.6	69
10	Prehistoric herding facilities: site formation processes and archaeological dynamics in Cova Gran de Santa Linya (Southeastern Prepyrenees, Iberia). <i>Journal of Archaeological Science</i> , 2014, 41, 784-800.	2.4	58
11	Quantitative reconstruction of Late Cenozoic landscapes: a case study in the Sierra de Atapuerca (Burgos, Spain). <i>Earth Surface Processes and Landforms</i> , 2008, 33, 196-208.	2.5	56
12	Fluvial geomorphology and hydrology in the dispersal and fate of pyrite mud particles released by the Aznalcóllar mine tailings spill. <i>Science of the Total Environment</i> , 1999, 242, 13-26.	8.0	54
13	Acheulean technological behaviour in the Middle Pleistocene landscape of Mieso (East-Central Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.6	50
14	Sedimentological and archaeological fabrics in Palaeolithic levels of the South-Eastern Pyrenees: Cova Gran and Roca dels Bous Sites (Lleida, Spain). <i>Journal of Archaeological Science</i> , 2009, 36, 2566-2577.	2.4	48
15	Pleistocene sedimentary facies of the Gran Dolina archaeo-paleoanthropological site (Sierra de Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.5	46
16	First GIS Analysis of Modern Stone Tools Used by Wild Chimpanzees ( <i>Pan troglodytes verus</i> ) in Bossou, Guinea, West Africa. <i>PLoS ONE</i> , 2015, 10, e0121613.	2.5	46
17	Erosion surfaces and Neogene landscape evolution in the NE Duero Basin (north-central Spain). <i>Geomorphology</i> , 2007, 88, 226-241.	2.6	45
18	Imaging and photogrammetry models of Olduvai Gorge (Tanzania) by Unmanned Aerial Vehicles: A high-resolution digital database for research and conservation of Early Stone Age sites. <i>Journal of Archaeological Science</i> , 2016, 75, 40-56.	2.4	45

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19	Review on sinkhole monitoring and performance of remediation measures by high-precision leveling and terrestrial laser scanner in the salt karst of the Ebro Valley, Spain. <i>Engineering Geology</i> , 2019, 248, 283-308.	6.3	40
20	Application of GIS methods to retrieve orientation patterns from imagery; a case study from Beds I and II, Olduvai Gorge (Tanzania). <i>Journal of Archaeological Science</i> , 2013, 40, 2446-2457.	2.4	38
21	Chronostratigraphy of the Upper Pleistocene and Holocene archaeological sequence in Cova Gran (southeastern Pre-Pyrenees, Iberian Peninsula). <i>Journal of Quaternary Science</i> , 2011, 26, 635-644.	2.1	34
22	Assessment of Accumulation Processes at the Middle Pleistocene Site of Ambrona (Soria, Spain). Density and Orientation Patterns in Spatial Datasets Derived from Excavations Conducted from the 1960s to the Present. <i>PLoS ONE</i> , 2016, 11, e0167595.	2.5	34
23	Raw stone material supply for Upper Pleistocene settlements in Sierra de Atapuerca (Burgos, Spain): flint characterization using petrographic and geochemical techniques. <i>Journal of Archaeological Science</i> , 2008, 35, 1961-1973.	2.4	33
24	Trampling experiments at Cova Gran de Santa Linya, Pre-Pyrenees, Spain: their relevance for archaeological fabrics of the Upper-Middle Paleolithic assemblages. <i>Journal of Archaeological Science</i> , 2011, 38, 3652-3661.	2.4	31
25	Rapid subsidence in damaging sinkholes: Measurement by high-precision leveling and the role of salt dissolution. <i>Geomorphology</i> , 2018, 303, 393-409.	2.6	31
26	Geomorphology of the Sierra de Atapuerca and the Middle Arlanzán Valley (Burgos, Spain). <i>Journal of Maps</i> , 2015, 11, 535-544.	2.0	30
27	Hydrological and geomorphological criteria to evaluate the dispersion risk of waste sludge generated by the Aznalcollar mine spill (SW Spain). <i>Environmental Geology</i> , 2001, 40, 417-428.	1.2	28
28	Assessing automated image analysis of sand grain shape to identify sedimentary facies, Gran Dolina archaeological site (Burgos, Spain). <i>Sedimentary Geology</i> , 2016, 346, 72-83.	2.1	28
29	From site formation processes to human behaviour: Towards a constructive approach to depict palimpsests in Roca dels Bous. <i>Quaternary International</i> , 2016, 417, 82-93.	1.5	27
30	Montane pine forests in NE Iberia during MIS 3 and MIS 2. A study based on new anthracological evidence from Cova Gran (Santa Linya, Iberian Pre-Pyrenees). <i>Review of Palaeobotany and Palynology</i> , 2018, 258, 62-72.	1.5	26
31	Applying electrical resistivity tomography to the identification of endokarstic geometries in the Pleistocene Sites of the Sierra de Atapuerca (Burgos, Spain). <i>Archaeological Prospection</i> , 2010, 17, 233-245.	2.2	24
32	Formation processes and stratigraphic integrity of the Middle-to-Upper Palaeolithic sequence at Cova Gran de Santa Linya (Southeastern Prepyrenees of Lleida, Iberian Peninsula). <i>Quaternary International</i> , 2016, 417, 16-38.	1.5	24
33	Quantifying 3D Micro-Surface Changes on Experimental Stones Used to Break Bones and Their Implications for the Analysis of Early Stone Age Pounding Tools. <i>Archaeometry</i> , 2018, 60, 419-436.	1.3	24
34	New insights for understanding spatial patterning and formation processes of the Neanderthal occupation in the Amalda I cave (Gipuzkoa, Spain). <i>Scientific Reports</i> , 2020, 10, 8733.	3.3	24
35	Palaeogeographical reconstruction of the Sierra de Atapuerca Pleistocene sites (Burgos, Spain). <i>Quaternary International</i> , 2017, 433, 379-392.	1.5	23
36	Spatial and orientation patterns of experimental stone tool refits. <i>Archaeological and Anthropological Sciences</i> , 2019, 11, 4569-4584.	1.8	23

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37	New interpretation of the Gran Dolina-TD6 bearing Homo antecessor deposits through sedimentological analysis. <i>Scientific Reports</i> , 2016, 6, 34799.	3.3	22
38	2D and 3D ERT imaging for identifying karst morphologies in the archaeological sites of Gran Dolina and Galería Complex (Sierra de Atapuerca, Burgos, Spain). <i>Quaternary International</i> , 2017, 433, 393-401.	1.5	21
39	Hundidero: mis 4 open air neanderthal occupations in Sierra de Atapuerca. <i>Archaeology, Ethnology and Anthropology of Eurasia</i> , 2011, 39, 29-41.	0.2	20
40	The intrusive nature of the Châtelperronian in the Iberian Peninsula. <i>PLoS ONE</i> , 2022, 17, e0265219.	2.5	20
41	4D Monitoring of Active Sinkholes with a Terrestrial Laser Scanner (TLS): A Case Study in the Evaporite Karst of the Ebro Valley, NE Spain. <i>Remote Sensing</i> , 2018, 10, 571.	4.0	18
42	The geology and chronology of the Acheulean deposits in the Mieso area (East-Central Ethiopia). <i>Journal of Human Evolution</i> , 2014, 76, 26-38.	2.6	17
43	The impact of hydraulic processes in Olduvai Beds I and II, Tanzania, through a particle dimension analysis of stone tool assemblages. <i>Geoarchaeology - an International Journal</i> , 2018, 33, 218-236.	1.5	17
44	Pen management and livestock activities based on phytoliths, dung spherulites, and minerals from Cova Gran de Santa Linya (Southeastern pre-Pyrenees). <i>Archaeological and Anthropological Sciences</i> , 2020, 12, 1.	1.8	16
45	New excavations in the MNK Skull site, and the last appearance of the Oldowan and Homo habilis at Olduvai Gorge, Tanzania. <i>Journal of Anthropological Archaeology</i> , 2021, 61, 101255.	1.6	16
46	Quartzite selection in fluvial deposits: The N12 level of Roca dels Bous (Middle Palaeolithic). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 T</i>	1.5	15
47	3D 360° surface morphometric analysis of pounding stone tools used by Hadza foragers of Tanzania: A new methodological approach for studying percussive stone artefacts. <i>Journal of Archaeological Science: Reports</i> , 2018, 20, 611-621.	0.5	15
48	Late Neanderthal subsistence strategies and cultural traditions in the northern Iberia Peninsula: Insights from Prado Vargas, Burgos, Spain. <i>Quaternary Science Reviews</i> , 2021, 254, 106795.	3.0	14
49	Defining and Characterising Clusters in Palaeolithic Sites: a Review of Methods and Constraints. <i>Journal of Archaeological Method and Theory</i> , 2022, 29, 305-333.	3.0	14
50	Aprovisionamiento de sílex en el Prepirineo oriental durante el Paleolítico superior antiguo: el nivel arqueológico 497C de Cova Gran (Santa Linya, Lleida). <i>Trabajos De Prehistoria</i> , 2013, 70, 7-27.	0.7	13
51	Pliocene endorheic-exhoreic drainage transition of the Cenozoic Madrid Basin (Central Spain). <i>Global and Planetary Change</i> , 2020, 194, 103295.	3.5	11
52	San Quirce (Palencia, Spain). A Neanderthal open air campsite with short term-occupation patterns. <i>Quaternary International</i> , 2017, 435, 115-128.	1.5	10
53	Archaeological surveys today: Projects, methods and results. The case of Sierra de Atapuerca (Burgos). <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 382 T</i>	1.5	10
54	Atapuerca Karst and its Palaeoanthropological Sites. <i>World Geomorphological Landscapes</i> , 2014, , 101-110.	0.3	10

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55	3D monitoring of Paleolithic archaeological excavations using terrestrial laser scanner systems (Sierra de Atapuerca, Railway Trench sites, Burgos, N Spain). Digital Applications in Archaeology and Cultural Heritage, 2020, 19, e00156.	1.3	9
56	A bunch of refits: 497D blade knapping assemblage of the Early Upper Paleolithic in Cova Gran (Northeast Iberia). Archaeological and Anthropological Sciences, 2019, 11, 4585-4600.	1.8	8
57	Sinkhole subsidence monitoring combining terrestrial laser scanner and high-precision levelling. Earth Surface Processes and Landforms, 2021, 46, 1431-1444.	2.5	8
58	Reconstructing Mousterian landscapes in the southeastern Pyrenees (Roca dels Bous site, Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td	1.7	7
59	Atapuerca Neanderthal landscape at Fuente Mudarra site in Burgos, Spain, during Marine Isotope Stages 5-3. Quaternary Research, 2021, 99, 248-269.	1.7	7
60	Inside the Palimpsest: Identifying Short Occupations in the 497D Level of Cova Gran (Iberia). Interdisciplinary Contributions To Archaeology, 2020, , 39-69.	0.3	7
61	Three-dimensional surface morphometry differentiates behaviour on primate percussive stone tools. Journal of the Royal Society Interface, 2021, 18, 20210576.	3.4	7
62	Towards the steady state? A long-term river incision deceleration pattern during Pleistocene entrenchment (Upper Ebro River, Northern Spain). Global and Planetary Change, 2022, 213, 103813.	3.5	7
63	Geomorphology and prehistoric flint mining evidence in the Sierra de Araico (Basque-Cantabrian) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 622 Td	2.0	6
64	Chronological and palaeoenvironmental context of human occupations at the BuendÃa rockshelter (Central Spain) during the late Upper Pleistocene in inland Iberia. Journal of Quaternary Science, 2015, 30, 376-390.	2.1	6
65	Geomorphology of the Lozoya river drainage basin area (Community of Madrid, Spanish Central) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 622 Td	2.0	6
66	Shedding light on pre-Columbian crania collections through state-of-the-art 3D scanning techniques. Virtual Archaeology Review, 2021, 12, 1.	1.9	6
67	Site formation processes at Donggutuo: a major Early Pleistocene site in the Nihewan Basin, North China. Journal of Quaternary Science, 2019, 34, 621-632.	2.1	5
68	Geomorphological analysis using small unmanned aerial vehicles and submeter GNSS (Gara Saultana) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td	2.0	5
69	19. Paleomagnetic constraints on the Atapuerca karst development (N Spain). Special Paper of the Geological Society of America, 0, , 285-300.	0.5	5
70	Verificando la integridad del registro arqueolÃ³gico: anÃ¡lisis de fÃ¡bricas en las unidades arqueolÃ³gicas del paleolÃ©tico medio/superior de la Cova Gran (Santa Linya, Lleida). Treballs D Arqueologia, 0, 20, 55.	0.0	5
71	Unraveling ChÃ¢telperronian high-density accumulations: the open-air site of Aranbaltza II (Bizkaia,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 622 Td	1.8	5
72	Assessing the influence of isotopic composition of water on that of clay minerals during chemical treatments. Applied Clay Science, 2022, 222, 106495.	5.2	3

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73	Datación de dos terrazas rocosas del valle del río Lozoya (Comunidad De Madrid, España) mediante los isótopos cosmogénicos Be-10 y Al-26.. Cuaternario Y Geomorfología, 2016, 30, 37.	0.2	2
74	The archaeological site of Forat de Conqueta (Santa Linya, Lleida) chalcolitic-ancient Bronze. Treballs D Arqueologia, 0, 16, 7.	0.0	1
75	New materials of the white rhinoceros <i>Ceratotherium simum</i> and aurochs <i>Bos primigenius</i> from a Late Pleistocene terrace of the Oued el Haï (NE Morocco) - two elements of the Maghrebi Palearctic fauna. Historical Biology, 2022, 34, 1981-1999.	1.4	1
76	Erratum to "Acheulean technological behaviour in the Middle Pleistocene landscape of Mieso (East-Central Ethiopia)". J. Hum. Evol. 76 (2014) 1-25]. Journal of Human Evolution, 2015, 82, 197.	2.6	0
77	Assessing the effects of temporal ambivalence on defining palaeosystem interrelations, and applicability to the analysis of archaeological survey data. Quaternary International, 2017, 435, 13-34.	1.5	0
78	What's happening now in Atapuerca? Latest research at the Sierra de Atapuerca sites. Quaternary International, 2017, 433, 2-4.	1.5	0
79	Characterization and origin of lithic raw materials from the collective grave of Forat de Conqueta. Treballs D Arqueologia, 0, 16, 71.	0.0	0
80	Conceptos básicos y métodos en geoarqueología: geomorfología, estratigrafía y sedimentología. Treballs D Arqueologia, 0, 20, 41.	0.0	0
81	Estudio de la evolución cuaternaria de un modelado fluvial escalonado intramontano mediante índices morfométricos: río Lozoya, Sistema Central Español. Estudios Geológicos, 2020, 76, e134.	0.2	0
82	San Quirce (Palencia, Spain): new chronologies for the Lower to Middle Palaeolithic transition of south-west Europe. Journal of Quaternary Science, 2023, 38, 21-37.	2.1	0