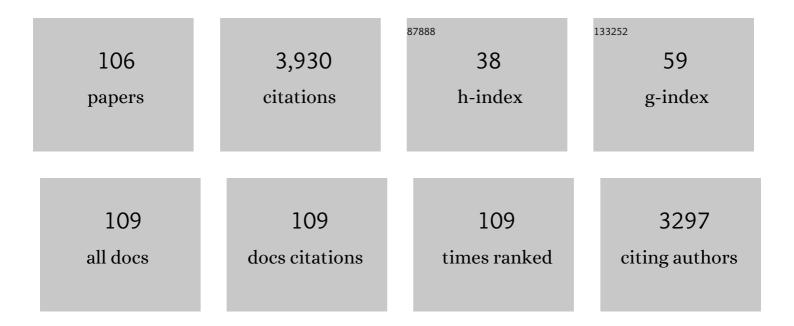
Sergio Sanchez-Moral

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Paleobiology and comparative morphology of a late Neandertal sample from El Sidron, Asturias, Spain. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19266-19271.	7.1	206
2	Role of pore structure in salt crystallisation in unsaturated porous stone. Journal of Crystal Growth, 2004, 260, 532-544.	1.5	159
3	Hidden, abiotic CO2 flows and gaseous reservoirs in the terrestrial carbon cycle: Review and perspectives. Agricultural and Forest Meteorology, 2010, 150, 321-329.	4.8	146
4	Microorganisms and Microbially Induced Fabrics in Cave Walls. Geomicrobiology Journal, 2001, 18, 223-240.	2.0	143
5	On the origin of fiber calcite crystals in moonmilk deposits. Die Naturwissenschaften, 2006, 93, 27-32.	1.6	135
6	Paleolithic Art in Peril: Policy and Science Collide at Altamira Cave. Science, 2011, 334, 42-43.	12.6	120
7	Microclimatic characterization of a karstic cave: human impact on microenvironmental parameters of a prehistoric rock art cave (Candamo Cave, northern Spain). Environmental Geology, 1998, 33, 231-242.	1.2	119
8	Inorganic deterioration affecting the Altamira Cave, N Spain: quantitative approach to wall-corrosion (solutional etching) processes induced by visitors. Science of the Total Environment, 1999, 243-244, 67-84.	8.0	105
9	The biogeochemical role of Actinobacteria in Altamira Cave, Spain. FEMS Microbiology Ecology, 2012, 81, 281-290.	2.7	97
10	Can flux tower research neglect geochemical CO2 exchange?. Agricultural and Forest Meteorology, 2008, 148, 1045-1054.	4.8	95
11	Geomicrobiological Study of the Grotta dei Cervi, Porto Badisco, Italy. Geomicrobiology Journal, 2001, 18, 241-258.	2.0	93
12	Biomediated Precipitation of Calcium Carbonate Metastable Phases in Hypogean Environments: A Short Review. Geomicrobiology Journal, 2003, 20, 491-500.	2.0	87
13	Isolation of five Rubrobacter strains from biodeteriorated monuments. Die Naturwissenschaften, 2009, 96, 71-79.	1.6	87
14	Microbial Communities Associated With Hydromagnesite and Needle-Fiber Aragonite Deposits in a Karstic Cave (Altamira, Northern Spain). Geomicrobiology Journal, 1999, 16, 9-25.	2.0	86
15	Detection of human-induced environmental disturbances in a show cave. Environmental Science and Pollution Research, 2011, 18, 1037-1045.	5.3	85
16	Short-term CO2(g) exchange between a shallow karstic cavity and the external atmosphere during summer: Role of the surface soil layer. Atmospheric Environment, 2011, 45, 1418-1427.	4.1	79
17	A NEW DATE FOR THE NEANDERTHALS FROM EL SIDRÓN CAVE (ASTURIAS, NORTHERN SPAIN)*. Archaeometry, 2013, 55, 148-158.	1.3	76
18	Microbial communities and associated mineral fabrics in Altamira Cave, Spain. International Journal of Speleology, 2009, 38, 83-92.	1.0	76

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19	Deterioration of building materials in Roman catacombs: The influence of visitors. Science of the Total Environment, 2005, 349, 260-276.	8.0	75
20	The Actinobacterial Colonization of Etruscan Paintings. Scientific Reports, 2013, 3, 1440.	3.3	74
21	Cave aerosols: distribution and contribution to speleothem geochemistry. Quaternary Science Reviews, 2013, 63, 23-41.	3.0	73
22	Pathogenic and opportunistic microorganisms in caves. International Journal of Speleology, 2010, 39, 15-24.	1.0	73
23	Lime–pozzolana mortars in Roman catacombs: composition, structures and restoration. Cement and Concrete Research, 2005, 35, 1555-1565.	11.0	65
24	Radon continuous monitoring in Altamira Cave (northern Spain) to assess user's annual effective dose. Journal of Environmental Radioactivity, 2005, 80, 161-174.	1.7	63
25	Entomogenous fungi and the conservation of the cultural heritage: A review. International Biodeterioration and Biodegradation, 2008, 62, 325-330.	3.9	63
26	Fungal outbreak in a show cave. Science of the Total Environment, 2010, 408, 3632-3638.	8.0	62
27	Salt damage and microclimate in the Postumius Tomb, Roman Necropolis of Carmona, Spain. Environmental Earth Sciences, 2011, 63, 1529-1543.	2.7	53
28	Biogenic Mn oxide minerals coating in a subsurface granite environment. Chemical Geology, 2012, 322-323, 181-191.	3.3	52
29	Bacterially mediated mineralisation processes lead to biodeterioration of artworks in Maltese catacombs. Science of the Total Environment, 2011, 409, 2773-2782.	8.0	51
30	The fungal colonisation of rock-art caves: experimental evidence. Die Naturwissenschaften, 2009, 96, 1027-1034.	1.6	48
31	Dedolomites associated with karstification. An example of early dedolomitization in lacustrine sequences from the Tertiary Madrid basin, central Spain. Carbonates and Evaporites, 1996, 11, 85-103.	1.0	46
32	Main drivers of diffusive and advective processes of CO2-gas exchange between a shallow vadose zone and the atmosphere. International Journal of Greenhouse Gas Control, 2014, 21, 113-129.	4.6	44
33	High 222Rn levels in a show cave (Castañar de Ibor, Spain): Proposal and application of management measures to minimize the effects on guides and visitors. Atmospheric Environment, 2006, 40, 7395-7400.	4.1	42
34	Subterranean atmospheres may act as daily methane sinks. Nature Communications, 2015, 6, 7003.	12.8	42
35	Calcitization of Mg–Ca carbonate and Ca sulphate deposits in a continental Tertiary basin (Calatayud) Tj ETQq1	1.0.7843 2.1	14 rgBT /Ov
36	THE TECHNOLOGICAL AND TYPOLOGICAL BEHAVIOUR OF A NEANDERTHAL GROUP FROM EL SIDRÓN CAVE (ASTURIAS, SPAIN). Oxford Journal of Archaeology, 2010, 29, 119-148.	0.4	38

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37	Characterization of trace gases' fluctuations on a â€~low energy' cave (Castañar de Ãbor, Spain) using techniques of entropy of curves. International Journal of Climatology, 2011, 31, 127-143.	3.5	38
38	The role of microorganisms in the formation of calcitic moonmilk deposits and speleothems in Altamira Cave. Geomorphology, 2012, 139-140, 285-292.	2.6	38
39	Atmospheric turbulence triggers pronounced diel pattern in karst carbonate geochemistry. Biogeosciences, 2013, 10, 5009-5017.	3.3	38
40	Deterioration of an Etruscan tomb by bacteria from the order Rhizobiales. Scientific Reports, 2014, 4, 3610.	3.3	38
41	Annual and transient signatures of gas exchange and transport in the Castañar de Ibor cave (Spain). International Journal of Speleology, 2009, 38, 153-162.	1.0	38
42	Role of soil pore structure in water infiltration and CO2 exchange between the atmosphere and underground air in the vadose zone: A combined laboratory and field approach. Catena, 2017, 149, 402-416.	5.0	36
43	Is the availability of different nutrients a critical factor for the impact of bacteria on subterraneous carbon budgets?. Die Naturwissenschaften, 2009, 96, 1035-1042.	1.6	32
44	Combining stable isotope (δ13C) of trace gases and aerobiological data to monitor the entry and dispersion of microorganisms in caves. Environmental Science and Pollution Research, 2014, 21, 473-484.	5.3	28
45	Recolonization of mortars by endolithic organisms on the walls of San Roque church in Campeche (Mexico): A case of tertiary bioreceptivity. Construction and Building Materials, 2014, 53, 348-359.	7.2	27
46	High radon levels in subterranean environments: monitoring and technical criteria to ensure human safety (case of Castañar cave, Spain). Journal of Environmental Radioactivity, 2015, 145, 19-29.	1.7	26
47	A GIS-based methodology to quantitatively define an Adjacent Protected Area in a shallow karst cavity: The case of Altamira cave. Journal of Environmental Management, 2013, 118, 122-134.	7.8	25
48	Prokaryotic communities from a lava tube cave in La Palma Island (Spain) are involved in the biogeochemical cycle of major elements. PeerJ, 2021, 9, e11386.	2.0	25
49	Changes in the CO2 dynamics in near-surface cavities under a future warming scenario: Factors and evidence from the field and experimental findings. Science of the Total Environment, 2016, 565, 1151-1164.	8.0	22
50	Cinética de carbonatación de morteros experimentales de cal de tipo romano. Materiales De Construccion, 2004, 54, 23-38.	0.7	22
51	High CO 2 Levels in Boreholes at El Teide Volcano Complex (Tenerife, Canary Islands): Implications for Volcanic Activity Monitoring. Pure and Applied Geophysics, 2004, 161, 1519-1532.	1.9	21
52	Biologically mediated release of endogenous N2O and NO2 gases in a hydrothermal, hypoxic subterranean environment. Science of the Total Environment, 2020, 747, 141218.	8.0	21
53	Penecontemporaneous diagenesis in continental saline sediments: bloeditization in Quero playa lake (La Mancha, Central Spain). Chemical Geology, 1998, 149, 189-207.	3.3	20
54	Role of subterranean microbiota in the carbon cycle and greenhouse gas dynamics. Science of the Total Environment, 2022, 831, 154921.	8.0	19

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55	Experimental definition of microclimatic conditions based on water transfer and porous media properties for the conservation of prehistoric constructions: Cueva Pintada at Galdar, Gran Canaria, Spain. Environmental Geology, 2009, 56, 1495.	1.2	18
56	Effect of water vapour condensation on the radon content in subsurface air in a hypogeal inactive-volcanic environment in Galdar cave, Spain. Atmospheric Environment, 2013, 75, 15-23.	4.1	18
57	Palaeoenvironmental evolution of the blue Nile (Central Sudan) during the early and mid-holocene (Mesolithic-Neolithic transition). Quaternary Science Reviews, 1997, 16, 583-588.	3.0	17
58	DATING OF THE HOMINID (<i>HOMO NEANDERTHALENSIS</i>) REMAINS ACCUMULATION FROM EL SIDRÓN CAVE (PILOÑA, ASTURIAS, NORTH SPAIN): AN EXAMPLE OF A MULTIâ€METHODOLOGICAL APPROACH TO THE DATING OF UPPER PLEISTOCENE SITES. Archaeometry, 2010, 52, 680-705.	1.3	17
59	Composition, uses, provenance and stability of rocks and ancient mortars in a Theban Tomb in Luxor (Egypt). Materials and Structures/Materiaux Et Constructions, 2016, 49, 941-960.	3.1	17
60	3D soft-sediment deformation structures: evidence for Quaternary seismicity in the Madrid basin, Spain. Terra Nova, 1997, 9, 208-212.	2.1	16
61	Changes in the storage and sink of carbon dioxide in subsurface atmospheres controlled by climate-driven processes: the case of the Ojo Guareña karst system. Environmental Earth Sciences, 2015, 74, 7715-7730.	2.7	16
62	Abiotic and seasonal control of soil-produced CO2 efflux in karstic ecosystems located in Oceanic and Mediterranean climates. Atmospheric Environment, 2017, 164, 31-49.	4.1	16
63	Comparative analysis of water condensate porosity using mercury intrusion porosimetry and nitrogen and water adsorption techniques in porous building stones. Construction and Building Materials, 2021, 288, 123131.	7.2	16
64	Meteoric calcitization of magnesite in Miocene lacustrine deposits (Calatayud basin, NE Spain). Sedimentary Geology, 1998, 119, 183-194.	2.1	15
65	Examining Hydrated Minerals Using Optically Stimulated X-Ray Diffraction, an Inexpensive Modification of Traditional Diffractometers. Journal of Sedimentary Research, 2000, 70, 964-967.	1.6	12
66	Analysis of potential direct insolation as a degradation factor of cave paintings in Villar del Humo, Cuenca, Central Spain. Geoarchaeology - an International Journal, 2009, 24, 450-465.	1.5	12
67	Environment-driven control of fungi in subterranean ecosystems: the case of La Garma Cave (northern Spain). International Microbiology, 2021, 24, 573-591.	2.4	12
68	Low-magnesium uranium–calcite with high degree of crystallinity and gigantic luminescence emission. Applied Radiation and Isotopes, 2007, 65, 147-154.	1.5	11
69	Microbial Activity in Subterranean Ecosystems: Recent Advances. Applied Sciences (Switzerland), 2020, 10, 8130.	2.5	11
70	Leaching of uranyl–silica complexes from the host metapelite rock favoring high radon activity of subsoil air: case of Castañar cave (Spain). Journal of Radioanalytical and Nuclear Chemistry, 2013, 298, 1567-1585.	1.5	10
71	A study on the state of conservation of the Roman Necropolis of Carmona (Sevilla, Spain). Journal of Cultural Heritage, 2018, 34, 185-197.	3.3	10
72	Insights on Climate-Driven Fluctuations of Cave ²²² Rn and CO ₂ Concentrations Using Statistical and Wavelet Analyses. Geofluids, 2020, 2020, 1-17.	0.7	10

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73	The water balance equations in saline playa lakes: comparison between experimental and recent data from Quero Playa Lake (central Spain). Sedimentary Geology, 2002, 148, 221-234.	2.1	9
74	Role of alkalis of aggregate origin in the deterioration of CAC concrete. Cement and Concrete Research, 2005, 35, 1698-1704.	11.0	9
75	Variations in seepage water geochemistry induced by natural and anthropogenic microclimatic changes: Implications for speleothem growth conditions. Geodinamica Acta, 2010, 23, 1-13.	2.2	9
76	The deterioration of Circular Mausoleum, Roman Necropolis of Carmona, Spain. Science of the Total Environment, 2015, 518-519, 65-77.	8.0	9
77	Diversity of Microfungi in a High Radon Cave Ecosystem. Frontiers in Microbiology, 2022, 13, 869661.	3.5	9
78	Nest Gasses as a Potential Attraction Cue for Biting Flying Insects and Other Ectoparasites of Cavity Nesting Birds. Frontiers in Ecology and Evolution, 2020, 8, .	2.2	8
79	Environment and subsistence strategies at La Viña rock shelter and Llonin cave (Asturias, Spain) during MIS3. Journal of Archaeological Science: Reports, 2020, 30, 102198.	0.5	8
80	Geomorphology of Dra Abu el-Naga (Egypt): The basis of the funerary sacred landscape. Journal of African Earth Sciences, 2017, 131, 233-250.	2.0	7
81	Early Detection of Phototrophic Biofilms in the Polychrome Panel, El Castillo Cave, Spain. , 2022, 1, 40-63.		7
82	Mortars, pigments and saline efflorescence from Canarian pre-Hispanic constructions (Galdar, Grand) Tj ETQq0 0	0 rgBT /O 7:2	verlock 10 Tf
83	Phosphor plasters of on the courtyard wall of Djehuty's tomb (Luxor, Egypt). Radiation Measurements, 2008, 43, 849-853.	1.4	6
84	Geochemical Fingerprinting of Rising Deep Endogenous Gases in an Active Hypogenic Karst System. Geofluids, 2018, 2018, 1-19.	0.7	6
85	Global models for 222Rn and CO2 concentrations in the Cave of Altamira. Theoretical and Applied Climatology, 2021, 143, 603-626.	2.8	6
86	Dominance of Arcobacter in the white filaments from the thermal sulfidic spring of Fetida Cave (Apulia, southern Italy). Science of the Total Environment, 2021, 800, 149465.	8.0	6
87	Causas y mecanismos de deterioro de los materiales pétreos del pavimento del conjunto arqueológico de Baelo Claudia, Cádiz/España. Materiales De Construccion, 1999, 49, 5-18.	0.7	6
88	Uranyl-Evansites from Porto (Northwest Portugal) and Galicia (Northwest Spain): Structure and Assignment of Spectra Catholuminescence and Raman Bands. Spectroscopy Letters, 2011, 44, 511-515.	1.0	5
89	Composition, Luminescence, and Color of a Natural Blue Calcium Carbonate from Madagascar. Spectroscopy Letters, 2015, 48, 107-111.	1.0	5

90 Weathering Processes on Sandstone Painting and Carving Surfaces at Prehistoric Rock Sites in 2.5 Southern Spain. Applied Sciences (Switzerland), 2022, 12, 5330.

#	Article	IF	CITATIONS
91	Hydration diapirism: a climate-related initiation of evaporite mounds in two continental Neogene basins of central Spain. Geological Society Special Publication, 1996, 100, 49-63.	1.3	4
92	Rare Earth Elements in a Speleothem Analyzed by ICP-MS, EDS, and Spectra Cathodoluminescence. Spectroscopy Letters, 2011, 44, 474-479.	1.0	4
93	Petrophysical properties, composition and deterioration of the Calatorao biogenic stone: case of the sculptures masonry of the Valley of the Fallen (Madrid, Spain). Environmental Earth Sciences, 2013, 69, 1733-1750.	2.7	4
94	14. Scientific Data Suggest Altamira Cave Should Remain Closed. , 2015, , 303-320.		4
95	New insights on speleoseismology: The geothermal gradient and heat flow values in caves for the study of active faults. Quaternary International, 2017, 451, 165-175.	1.5	4
96	Effect of Ventilation on Karst System Equilibrium (Altamira Cave, N Spain): an Appraisal of Karst Contribution to the Global Carbon Cycle Balance. Environmental Earth Sciences, 2010, , 469-474.	0.2	4
97	Composition and spectra of copper-carotenoid sediments from a pyrite mine stream in Spain. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 135, 203-210.	3.9	3
98	Mechanical Characterisation of Ancient Egyptian Mortars. Key Engineering Materials, 0, 465, 487-490.	0.4	1
99	Mineral-Variations Study of Canelobre Cave Phosphate Stalactites by Raman and Luminescence Methods. Spectroscopy Letters, 2011, 44, 539-542.	1.0	1
100	Tectono-Sedimentary Evolution of the Madrid Basin (Spain) during the Late Miocene: Data from Paleokarst Profiles in Diagenetically-Complex Continental Carbonates. Geosciences (Switzerland), 2020, 10, 433.	2.2	1
101	Holistic Approach to the Restoration of a Vandalized Monument: The Cross of the Inquisition, Seville City Hall, Spain. Applied Sciences (Switzerland), 2022, 12, 6222.	2.5	1
102	Materiales de construcción incompatibles dentro de las esculturas estereotómicas de Avalos en el Valle de CaÃdos (Madrid, España). Materiales De Construccion, 2013, 63, 117-129.	0.7	0
103	Geoâ€environmental evaluation for the preventive conservation of openâ€air archaeological sites: the case of the Roman Necropolis of Carmona (Spain). Archaeological Prospection, 2020, 27, 13-26.	2.2	0
104	Micromorphological Study of Site Formation Processes at El Sidrón Cave (Asturias, Northern Spain): Encrustations over Neanderthal Bones. Geosciences (Switzerland), 2021, 11, 413.	2.2	0
105	Estudio geoarqueológico de la cueva de El Sidrón (Piloña, Asturias) Boletin Geologico Y Minero, 2018, 1129, 107-128.	0.1	0
106	Evidencias de terremotos cuaternarios en una sima hipogénica: La Sima de BenÃs (Murcia, SE España). Cuaternario Y Geomorfologia, 2019, 33, 25-52.	0.2	0