

# Sergio Sanchez-Moral

## List of Publications by Year in descending order

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106  
papers

3,930  
citations

87888

38  
h-index

133252

59  
g-index

109  
all docs

109  
docs citations

109  
times ranked

3297  
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of subterranean microbiota in the carbon cycle and greenhouse gas dynamics. <i>Science of the Total Environment</i> , 2022, 831, 154921.	8.0	19
2	Early Detection of Phototrophic Biofilms in the Polychrome Panel, El Castillo Cave, Spain. , 2022, 1, 40-63.		7
3	Diversity of Microfungi in a High Radon Cave Ecosystem. <i>Frontiers in Microbiology</i> , 2022, 13, 869661.	3.5	9
4	Weathering Processes on Sandstone Painting and Carving Surfaces at Prehistoric Rock Sites in Southern Spain. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5330.	2.5	5
5	Holistic Approach to the Restoration of a Vandalized Monument: The Cross of the Inquisition, Seville City Hall, Spain. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6222.	2.5	1
6	Global models for <sup>222</sup> Rn and CO <sub>2</sub> concentrations in the Cave of Altamira. <i>Theoretical and Applied Climatology</i> , 2021, 143, 603-626.	2.8	6
7	Prokaryotic communities from a lava tube cave in La Palma Island (Spain) are involved in the biogeochemical cycle of major elements. <i>PeerJ</i> , 2021, 9, e11386.	2.0	25
8	Comparative analysis of water condensate porosity using mercury intrusion porosimetry and nitrogen and water adsorption techniques in porous building stones. <i>Construction and Building Materials</i> , 2021, 288, 123131.	7.2	16
9	Environment-driven control of fungi in subterranean ecosystems: the case of La Garma Cave (northern Spain). <i>International Microbiology</i> , 2021, 24, 573-591.	2.4	12
10	Dominance of <i>Arcobacter</i> in the white filaments from the thermal sulfidic spring of Fetida Cave (Apulia, southern Italy). <i>Science of the Total Environment</i> , 2021, 800, 149465.	8.0	6
11	Micromorphological Study of Site Formation Processes at El Sidrón Cave (Asturias, Northern Spain): Encrustations over Neanderthal Bones. <i>Geosciences (Switzerland)</i> , 2021, 11, 413.	2.2	0
12	Geo-environmental evaluation for the preventive conservation of open-air archaeological sites: the case of the Roman Necropolis of Carmona (Spain). <i>Archaeological Prospection</i> , 2020, 27, 13-26.	2.2	0
13	Microbial Activity in Subterranean Ecosystems: Recent Advances. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8130.	2.5	11
14	Biologically mediated release of endogenous N <sub>2</sub> O and NO <sub>2</sub> gases in a hydrothermal, hypoxic subterranean environment. <i>Science of the Total Environment</i> , 2020, 747, 141218.	8.0	21
15	Insights on Climate-Driven Fluctuations of Cave <sup>222</sup> Rn and CO <sub>2</sub> Concentrations Using Statistical and Wavelet Analyses. <i>Geofluids</i> , 2020, 2020, 1-17.	0.7	10
16	Nest Gasses as a Potential Attraction Cue for Biting Flying Insects and Other Ectoparasites of Cavity Nesting Birds. <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	2.2	8
17	Tectono-Sedimentary Evolution of the Madrid Basin (Spain) during the Late Miocene: Data from Paleokarst Profiles in Diagenetically-Complex Continental Carbonates. <i>Geosciences (Switzerland)</i> , 2020, 10, 433.	2.2	1
18	Environment and subsistence strategies at La Viña rock shelter and Llonin cave (Asturias, Spain) during MIS3. <i>Journal of Archaeological Science: Reports</i> , 2020, 30, 102198.	0.5	8

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19	Evidencias de terremotos cuaternarios en una sima hipogéica: La Sima de Benás (Murcia, SE España). Cuaternario Y Geomorfología, 2019, 33, 25-52.	0.2	0
20	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
21	Geochemical Fingerprinting of Rising Deep Endogenous Gases in an Active Hypogenic Karst System. Geofluids, 2018, 2018, 1-19.	0.7	6
22	Estudio geoarqueológico de la cueva de El Sidrón (Piloña, Asturias).. Boletín Geológico Y Minero, 2018, 1129, 107-128.	0.1	0
23	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
24	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
25	Abiotic and seasonal control of soil-produced CO <sub>2</sub> efflux in karstic ecosystems located in Oceanic and Mediterranean climates. Atmospheric Environment, 2017, 164, 31-49.	4.1	16
26	Role of soil pore structure in water infiltration and CO <sub>2</sub> 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
27	Changes in the CO <sub>2</sub> 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
28	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
29	14. Scientific Data Suggest Altamira Cave Should Remain Closed. , 2015, , 303-320.		4
30	Composition, Luminescence, and Color of a Natural Blue Calcium Carbonate from Madagascar. Spectroscopy Letters, 2015, 48, 107-111.	1.0	5
31	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
32	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
33	Subterranean atmospheres may act as daily methane sinks. Nature Communications, 2015, 6, 7003.	12.8	42
34	The deterioration of Circular Mausoleum, Roman Necropolis of Carmona, Spain. Science of the Total Environment, 2015, 518-519, 65-77.	8.0	9
35	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
36	Combining stable isotope ( <sup>13</sup> C) 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

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37	Recolonization of mortars by endolithic organisms on the walls of San Roque church in Campeche (Mexico): A case of tertiary bioreceptivity. <i>Construction and Building Materials</i> , 2014, 53, 348-359.	7.2	27
38	Main drivers of diffusive and advective processes of CO <sub>2</sub> -gas exchange between a shallow vadose zone and the atmosphere. <i>International Journal of Greenhouse Gas Control</i> , 2014, 21, 113-129.	4.6	44
39	Deterioration of an Etruscan tomb by bacteria from the order Rhizobiales. <i>Scientific Reports</i> , 2014, 4, 3610.	3.3	38
40	Leaching of uranyl-silica complexes from the host metapelite rock favoring high radon activity of subsoil air: case of Castañar cave (Spain). <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2013, 298, 1567-1585.	1.5	10
41	Petrophysical properties, composition and deterioration of the Calatorao biogenic stone: case of the sculptures masonry of the Valley of the Fallen (Madrid, Spain). <i>Environmental Earth Sciences</i> , 2013, 69, 1733-1750.	2.7	4
42	Cave aerosols: distribution and contribution to speleothem geochemistry. <i>Quaternary Science Reviews</i> , 2013, 63, 23-41.	3.0	73
43	A GIS-based methodology to quantitatively define an Adjacent Protected Area in a shallow karst cavity: The case of Altamira cave. <i>Journal of Environmental Management</i> , 2013, 118, 122-134.	7.8	25
44	Materiales de construcción incompatibles dentro de las esculturas estereomórficas de Avalos en el Valle de Cañados (Madrid, España). <i>Materiales De Construcción</i> , 2013, 63, 117-129.	0.7	0
45	Effect of water vapour condensation on the radon content in subsurface air in a hypogeal inactive-volcanic environment in Galdar cave, Spain. <i>Atmospheric Environment</i> , 2013, 75, 15-23.	4.1	18
46	A NEW DATE FOR THE NEANDERTHALS FROM EL SIDRÓN CAVE (ASTURIAS, NORTHERN SPAIN)*. <i>Archaeometry</i> , 2013, 55, 148-158.	1.3	76
47	The Actinobacterial Colonization of Etruscan Paintings. <i>Scientific Reports</i> , 2013, 3, 1440.	3.3	74
48	Atmospheric turbulence triggers pronounced diel pattern in karst carbonate geochemistry. <i>Biogeosciences</i> , 2013, 10, 5009-5017.	3.3	38
49	Biogenic Mn oxide minerals coating in a subsurface granite environment. <i>Chemical Geology</i> , 2012, 322-323, 181-191.	3.3	52
50	The role of microorganisms in the formation of calcitic moonmilk deposits and speleothems in Altamira Cave. <i>Geomorphology</i> , 2012, 139-140, 285-292.	2.6	38
51	The biogeochemical role of Actinobacteria in Altamira Cave, Spain. <i>FEMS Microbiology Ecology</i> , 2012, 81, 281-290.	2.7	97
52	Uranyl-Evansites from Porto (Northwest Portugal) and Galicia (Northwest Spain): Structure and Assignment of Spectra Catholuminescence and Raman Bands. <i>Spectroscopy Letters</i> , 2011, 44, 511-515.	1.0	5
53	Bacterially mediated mineralisation processes lead to biodeterioration of artworks in Maltese catacombs. <i>Science of the Total Environment</i> , 2011, 409, 2773-2782.	8.0	51
54	Short-term CO <sub>2</sub> (g) exchange between a shallow karstic cavity and the external atmosphere during summer: Role of the surface soil layer. <i>Atmospheric Environment</i> , 2011, 45, 1418-1427.	4.1	79

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55	Salt damage and microclimate in the Postumius Tomb, Roman Necropolis of Carmona, Spain. <i>Environmental Earth Sciences</i> , 2011, 63, 1529-1543.	2.7	53
56	Detection of human-induced environmental disturbances in a show cave. <i>Environmental Science and Pollution Research</i> , 2011, 18, 1037-1045.	5.3	85
57	Characterization of trace gases' fluctuations on a "low energy" cave (Castañar de Ábor, Spain) using techniques of entropy of curves. <i>International Journal of Climatology</i> , 2011, 31, 127-143.	3.5	38
58	Paleolithic Art in Peril: Policy and Science Collide at Altamira Cave. <i>Science</i> , 2011, 334, 42-43.	12.6	120
59	Rare Earth Elements in a Speleothem Analyzed by ICP-MS, EDS, and Spectra Cathodoluminescence. <i>Spectroscopy Letters</i> , 2011, 44, 474-479.	1.0	4
60	Mineral-Variations Study of Canelobre Cave Phosphate Stalactites by Raman and Luminescence Methods. <i>Spectroscopy Letters</i> , 2011, 44, 539-542.	1.0	1
61	DATING OF THE HOMINID ( <i>HOMO NEANDERTHALENSIS</i> ) REMAINS ACCUMULATION FROM EL SIDRÓN CAVE (PILOÑA, ASTURIAS, NORTH SPAIN): AN EXAMPLE OF A MULTIMETHODOLOGICAL APPROACH TO THE DATING OF UPPER PLEISTOCENE SITES. <i>Archaeometry</i> , 2010, 52, 680-705.	1.3	17
62	Fungal outbreak in a show cave. <i>Science of the Total Environment</i> , 2010, 408, 3632-3638.	8.0	62
63	THE TECHNOLOGICAL AND TYPOLOGICAL BEHAVIOUR OF A NEANDERTHAL GROUP FROM EL SIDRÓN CAVE (ASTURIAS, SPAIN). <i>Oxford Journal of Archaeology</i> , 2010, 29, 119-148.	0.4	38
64	Hidden, abiotic CO <sub>2</sub> flows and gaseous reservoirs in the terrestrial carbon cycle: Review and perspectives. <i>Agricultural and Forest Meteorology</i> , 2010, 150, 321-329.	4.8	146
65	Variations in seepage water geochemistry induced by natural and anthropogenic microclimatic changes: Implications for speleothem growth conditions. <i>Geodinamica Acta</i> , 2010, 23, 1-13.	2.2	9
66	Effect of Ventilation on Karst System Equilibrium (Altamira Cave, N Spain): an Appraisal of Karst Contribution to the Global Carbon Cycle Balance. <i>Environmental Earth Sciences</i> , 2010, , 469-474.	0.2	4
67	Pathogenic and opportunistic microorganisms in caves. <i>International Journal of Speleology</i> , 2010, 39, 15-24.	1.0	73
68	Analysis of potential direct insolation as a degradation factor of cave paintings in Villar del Humo, Cuenca, Central Spain. <i>Geoarchaeology - an International Journal</i> , 2009, 24, 450-465.	1.5	12
69	Isolation of five <i>Rubrobacter</i> strains from biodeteriorated monuments. <i>Die Naturwissenschaften</i> , 2009, 96, 71-79.	1.6	87
70	The fungal colonisation of rock-art caves: experimental evidence. <i>Die Naturwissenschaften</i> , 2009, 96, 1027-1034.	1.6	48
71	Is the availability of different nutrients a critical factor for the impact of bacteria on subterranean carbon budgets?. <i>Die Naturwissenschaften</i> , 2009, 96, 1035-1042.	1.6	32
72	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. <i>Environmental Geology</i> , 2009, 56, 1495.	1.2	18

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73	Microbial communities and associated mineral fabrics in Altamira Cave, Spain. <i>International Journal of Speleology</i> , 2009, 38, 83-92.	1.0	76
74	Annual and transient signatures of gas exchange and transport in the Castañar de Ibor cave (Spain). <i>International Journal of Speleology</i> , 2009, 38, 153-162.	1.0	38
75	Phosphor plasters of on the courtyard wall of Djehuty's tomb (Luxor, Egypt). <i>Radiation Measurements</i> , 2008, 43, 849-853.	1.4	6
76	Entomogenous fungi and the conservation of the cultural heritage: A review. <i>International Biodeterioration and Biodegradation</i> , 2008, 62, 325-330.	3.9	63
77	Can flux tower research neglect geochemical CO <sub>2</sub> exchange?. <i>Agricultural and Forest Meteorology</i> , 2008, 148, 1045-1054.	4.8	95
78	Low-magnesium uranium calcite with high degree of crystallinity and gigantic luminescence emission. <i>Applied Radiation and Isotopes</i> , 2007, 65, 147-154.	1.5	11
79	On the origin of fiber calcite crystals in moonmilk deposits. <i>Die Naturwissenschaften</i> , 2006, 93, 27-32.	1.6	135
80	High <sup>222</sup> Rn levels in a show cave (Castañar de Ibor, Spain): Proposal and application of management measures to minimize the effects on guides and visitors. <i>Atmospheric Environment</i> , 2006, 40, 7395-7400.	4.1	42
81	Paleobiology and comparative morphology of a late Neandertal sample from El Sidron, Asturias, Spain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 19266-19271.	7.1	206
82	Radon continuous monitoring in Altamira Cave (northern Spain) to assess user's annual effective dose. <i>Journal of Environmental Radioactivity</i> , 2005, 80, 161-174.	1.7	63
83	Lime pozzolana mortars in Roman catacombs: composition, structures and restoration. <i>Cement and Concrete Research</i> , 2005, 35, 1555-1565.	11.0	65
84	Role of alkalis of aggregate origin in the deterioration of CAC concrete. <i>Cement and Concrete Research</i> , 2005, 35, 1698-1704.	11.0	9
85	Deterioration of building materials in Roman catacombs: The influence of visitors. <i>Science of the Total Environment</i> , 2005, 349, 260-276.	8.0	75
86	High CO <sub>2</sub> Levels in Boreholes at El Teide Volcano Complex (Tenerife, Canary Islands): Implications for Volcanic Activity Monitoring. <i>Pure and Applied Geophysics</i> , 2004, 161, 1519-1532.	1.9	21
87	Role of pore structure in salt crystallisation in unsaturated porous stone. <i>Journal of Crystal Growth</i> , 2004, 260, 532-544.	1.5	159
88	Cinética de carbonatación de morteros experimentales de cal de tipo romano. <i>Materiales De Construcción</i> , 2004, 54, 23-38.	0.7	22
89	Biomediated Precipitation of Calcium Carbonate Metastable Phases in Hypogean Environments: A Short Review. <i>Geomicrobiology Journal</i> , 2003, 20, 491-500.	2.0	87
90	Mortars, pigments and saline efflorescence from Canarian pre-Hispanic constructions (Galdar, Grand Tj ETQq0 0 0 rgBT /Overlock 10 Tf	7.2	6

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91	The water balance equations in saline playa lakes: comparison between experimental and recent data from Quero Playa Lake (central Spain). <i>Sedimentary Geology</i> , 2002, 148, 221-234.	2.1	9
92	Geomicrobiological Study of the Grotta dei Cervi, Porto Badisco, Italy. <i>Geomicrobiology Journal</i> , 2001, 18, 241-258.	2.0	93
93	Calcitization of Mg-Ca carbonate and Ca sulphate deposits in a continental Tertiary basin (Calatayud) Tj ETQq1 1 0.784314 rgBT /C	2.1	39
94	Microorganisms and Microbially Induced Fabrics in Cave Walls. <i>Geomicrobiology Journal</i> , 2001, 18, 223-240.	2.0	143
95	Examining Hydrated Minerals Using Optically Stimulated X-Ray Diffraction, an Inexpensive Modification of Traditional Diffractometers. <i>Journal of Sedimentary Research</i> , 2000, 70, 964-967.	1.6	12
96	Inorganic deterioration affecting the Altamira Cave, N Spain: quantitative approach to wall-corrosion (solutional etching) processes induced by visitors. <i>Science of the Total Environment</i> , 1999, 243-244, 67-84.	8.0	105
97	Microbial Communities Associated With Hydromagnesite and Needle-Fiber Aragonite Deposits in a Karstic Cave (Altamira, Northern Spain). <i>Geomicrobiology Journal</i> , 1999, 16, 9-25.	2.0	86
98	Causas y mecanismos de deterioro de los materiales pétreos del pavimento del conjunto arqueológico de Baelo Claudia, Cádiz/España. <i>Materiales De Construccion</i> , 1999, 49, 5-18.	0.7	6
99	Microclimatic characterization of a karstic cave: human impact on microenvironmental parameters of a prehistoric rock art cave (Candamo Cave, northern Spain). <i>Environmental Geology</i> , 1998, 33, 231-242.	1.2	119
100	Meteoric calcitization of magnesite in Miocene lacustrine deposits (Calatayud basin, NE Spain). <i>Sedimentary Geology</i> , 1998, 119, 183-194.	2.1	15
101	Penecontemporaneous diagenesis in continental saline sediments: bloeditization in Quero playa lake (La Mancha, Central Spain). <i>Chemical Geology</i> , 1998, 149, 189-207.	3.3	20
102	Palaeoenvironmental evolution of the blue Nile (Central Sudan) during the early and mid-holocene (Mesolithic-Neolithic transition). <i>Quaternary Science Reviews</i> , 1997, 16, 583-588.	3.0	17
103	3D soft-sediment deformation structures: evidence for Quaternary seismicity in the Madrid basin, Spain. <i>Terra Nova</i> , 1997, 9, 208-212.	2.1	16
104	Hydration diapirism: a climate-related initiation of evaporite mounds in two continental Neogene basins of central Spain. <i>Geological Society Special Publication</i> , 1996, 100, 49-63.	1.3	4
105	Dedolomites associated with karstification. An example of early dedolomitization in lacustrine sequences from the Tertiary Madrid basin, central Spain. <i>Carbonates and Evaporites</i> , 1996, 11, 85-103.	1.0	46
106	Mechanical Characterisation of Ancient Egyptian Mortars. <i>Key Engineering Materials</i> , 0, 465, 487-490.	0.4	1