Angel Fernandez-Cortes

List of Publications by Year
in descending order

75 papers	1,948 citations	304743 22 h-index	276875 41 g-index
79 all docs	79 docs citations	79 times ranked	2015 citing authors

#	Article	IF	Citations
1	Neanderthal medics? Evidence for food, cooking, and medicinal plants entrapped in dental calculus. Die Naturwissenschaften, 2012, 99, 617-626.	1.6	315
2	Paleolithic Art in Peril: Policy and Science Collide at Altamira Cave. Science, 2011, 334, 42-43.	12.6	120
3	The biogeochemical role of Actinobacteria in Altamira Cave, Spain. FEMS Microbiology Ecology, 2012, 81, 281-290.	2.7	97
4	Detection of human-induced environmental disturbances in a show cave. Environmental Science and Pollution Research, 2011, 18, 1037-1045.	5.3	85
5	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
6	Cave aerosols: distribution and contribution to speleothem geochemistry. Quaternary Science Reviews, 2013, 63, 23-41.	3.0	73
7	Fungal outbreak in a show cave. Science of the Total Environment, 2010, 408, 3632-3638.	8.0	62
8	Estimating groundwater recharge induced by engineering systems in a semiarid area (southeastern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.2	56
9	Salt damage and microclimate in the Postumius Tomb, Roman Necropolis of Carmona, Spain. Environmental Earth Sciences, 2011, 63, 1529-1543.	2.7	53
10	Biogenic Mn oxide minerals coating in a subsurface granite environment. Chemical Geology, 2012, 322-323, 181-191.	3.3	52
11	Environmental control for determining human impact and permanent visitor capacity in a potential show cave before tourist use. Environmental Conservation, 2003, 30, 160-167.	1.3	51
12	The fungal colonisation of rock-art caves: experimental evidence. Die Naturwissenschaften, 2009, 96, 1027-1034.	1.6	48
13	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
14	Subterranean atmospheres may act as daily methane sinks. Nature Communications, 2015, 6, 7003.	12.8	42
15	Spatiotemporal analysis of air conditions as a tool for the environmental management of a show cave (Cueva del Agua, Spain). Atmospheric Environment, 2006, 40, 7378-7394.	4.1	41
16	Characterization of trace gases' fluctuations on a â€˜low energyâ€™ cave (CastaÃ±ar de Ãbor, Spain) using techniques of entropy of curves. International Journal of Climatology, 2011, 31, 127-143.	3.5	38
17	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
18	Annual and transient signatures of gas exchange and transport in the CastaÃ±ar de Ibor cave (Spain). International Journal of Speleology, 2009, 38, 153-162.	1.0	38

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19	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
20	Combining stable isotope (Î´13C) 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
21	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
22	High radon levels in subterranean environments: monitoring and technical criteria to ensure human safety (case of CastaÃ±ar cave, Spain). Journal of Environmental Radioactivity, 2015, 145, 19-29.	1.7	26
23	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
24	Speleothems in gypsum caves and their paleoclimatological significance. Environmental Geology, 2008, 53, 1099-1105.	1.2	22
25	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
26	Climatic conditions, diapause and migration in a troglophile caddisfly. Freshwater Biology, 2008, 53, 1606-1617.	2.4	21
27	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
28	Geostatistical spatiotemporal analysis of air temperature as an aid to delineating thermal stability zones in a potential show cave: Implications for environmental management. Journal of Environmental Management, 2006, 81, 371-383.	7.8	19
29	Role of subterranean microbiota in the carbon cycle and greenhouse gas dynamics. Science of the Total Environment, 2022, 831, 154921.	8.0	19
30	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
31	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
32	Microbiological study of bulls of indulgence of the 15thâ€“16th centuries. Science of the Total Environment, 2010, 408, 3711-3715.	8.0	16
33	Changes in the storage and sink of carbon dioxide in subsurface atmospheres controlled by climate-driven processes: the case of the Ojo GuareÃ±a karst system. Environmental Earth Sciences, 2015, 74, 7715-7730.	2.7	16
34	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
35	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
36	EnvironmentalWaveletTool: Continuous and discrete wavelet analysis and filtering for environmental time series. Computer Physics Communications, 2014, 185, 2758-2770.	7.5	15

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37	Flash flood events recorded by air temperature changes in caves: A case study in Covadura Cave (SE) Tj ETQq1 1 0.784314 rgBT /Over	5.4	12
38	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
39	The PulpÃ-gigantic geode (AlmerÃa, Spain): geology, metal pollution, microclimatology, and conservation. Environmental Geology, 2006, 50, 707-716.	1.2	11
40	Microclimate processes characterization of the giant Geode of PulpÃ-(AlmerÃa, Spain): technical criteria for conservation. International Journal of Climatology, 2006, 26, 691-706.	3.5	11
41	Stalactite drip rate variations controlled by air pressure changes: an example of non-linear infiltration processes in the â€˜Cueva del Aguaâ€™ (Spain). Hydrological Processes, 2007, 21, 920-930.	2.6	11
42	Assessment of CO2 dynamics in subsurface atmospheres using the wavelet approach: from cavityâ€“atmosphere exchange to anthropogenic impacts in Rull cave (Vall dâ€²Ebo, Spain). Environmental Earth Sciences, 2016, 75, 1.	2.7	11
43	Microbial Activity in Subterranean Ecosystems: Recent Advances. Applied Sciences (Switzerland), 2020, 10, 8130.	2.5	11
44	Squandering water in drylands: the waterâ€use strategy of the phreatophyte Ziziphus lotus in a groundwaterâ€dependent ecosystem. American Journal of Botany, 2021, 108, 236-248.	1.7	11
45	Leaching of uranylâ€“silica complexes from the host metapelite rock favoring high radon activity of subsoil air: case of CastaÃ±ar cave (Spain). Journal of Radioanalytical and Nuclear Chemistry, 2013, 298, 1567-1585.	1.5	10
46	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
47	Insights on Climate-Driven Fluctuations of Cave ²²²Rn and CO₂ Concentrations Using Statistical and Wavelet Analyses. Geofluids, 2020, 2020, 1-17.	0.7	10
48	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
49	The deterioration of Circular Mausoleum, Roman Necropolis of Carmona, Spain. Science of the Total Environment, 2015, 518-519, 65-77.	8.0	9
50	Hydrogeochemical processes as environmental indicators in drip water: study of the Cueva del Agua (Southern Spain). International Journal of Speleology, 2008, 37, 41-52.	1.0	9
51	Diversity of Microfungi in a High Radon Cave Ecosystem. Frontiers in Microbiology, 2022, 13, 869661.	3.5	9
52	First assessment on the air CO2 dynamic in the show caves of tropical karst, Vietnam. International Journal of Speleology, 2018, 47, 93-112.	1.0	7
53	Early Detection of Phototrophic Biofilms in the Polychrome Panel, El Castillo Cave, Spain. , 2022, 1, 40-63.		7
54	Geochemical Fingerprinting of Rising Deep Endogenous Gases in an Active Hypogenic Karst System. Geofluids, 2018, 2018, 1-19.	0.7	6

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55	Global models for 222Rn and CO2 concentrations in the Cave of Altamira. Theoretical and Applied Climatology, 2021, 143, 603-626.	2.8	6
56	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
57	Geotourism in Spain: resources and environmental management. , 2006, , 199-220.		5
58	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
59	Rare Earth Elements in a Speleothem Analyzed by ICP-MS, EDS, and Spectra Cathodoluminescence. Spectroscopy Letters, 2011, 44, 474-479.	1.0	4
60	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
61	14. Scientific Data Suggest Altamira Cave Should Remain Closed. , 2015, , 303-320.		4
62	Radiolysis via radioactivity is not responsible for rapid methane oxidation in subterranean air. PLoS ONE, 2018, 13, e0206506.	2.5	4
63	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
64	Definition of Microclimatic Conditions in a Karst Cavity: Rull Cave (Alicante, Spain). , 2015, , 497-503.		4
65	Influence of Daily Visiting Regime in Tourist Cave at Different Seasons. Environmental Earth Sciences, 2010, , 475-481.	0.2	3
66	The Absolute Age and Origin of the Giant Gypsum Geode of PulpÃ-(AlmerÃa, SE Spain). Geosciences (Switzerland), 2022, 12, 144.	2.2	3
67	Mechanical Characterisation of Ancient Egyptian Mortars. Key Engineering Materials, 0, 465, 487-490.	0.4	1
68	Mineral-Variations Study of Canelobre Cave Phosphate Stalactites by Raman and Luminescence Methods. Spectroscopy Letters, 2011, 44, 539-542.	1.0	1
69	Mineral-Forming Processes at Canelobre Cave (Alicante, SE Spain). Environmental Earth Sciences, 2010, , 503-508.	0.2	1
70	Detection of urban subsurface pollution by rapid multiparametric surveys in the 16th century Paranhos spring water tunnel (Porto, Portugal). , 2014, , 89-94.		1
71	The conservation of the Carmona Necropolis (Sevilla, Spain). , 2014, , 45-50.		1
72	Climate-Driven Changes on Storage and Sink of Carbon Dioxide in Subsurface Atmosphere of Karst Terrains. , 2015, , 523-531.		0

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73	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
74	Micromorphological Study of Site Formation Processes at El SidrÃ³n Cave (Asturias, Northern Spain): Encrustations over Neanderthal Bones. Geosciences (Switzerland), 2021, 11, 413.	2.2	0
75	Estudio geoarqueolÃ³gico de la cueva de El SidrÃ³n (PiloÃ±a, Asturias).. Boletin Geologico Y Minero, 2018, 1129, 107-128.	0.1	0