Pascale Gautret

List of Publications by Year
in descending order

39 papers	1,615 citations	430874 18 h-index	302126 39 g-index
45 all docs	45 docs citations	45 times ranked	1668 citing authors

#	Article	IF	Citations
1	Biosignatures on Mars: What, Where, and How? Implications for the Search for Martian Life. Astrobiology, 2015, 15, 998-1029.	3.0	209
2	Nature and environmental significance of microbialites in Quaternary reefs: the Tahiti paradox. Sedimentary Geology, 1999, 126, 271-304.	2.1	179
3	Mud mounds: A polygenetic spectrum of fine-grained carbonate buildups. Facies, 1995, 32, 1-69.	1.4	126
4	Petrology of Lower Cretaceous carbonate mud mounds (Albian, N. Spain): insights into organomineralic deposits of the geological record. Sedimentology, 1999, 46, 837-859.	3.1	111
5	Geyserite in hot-spring siliceous sinter: Window on Earth's hottest terrestrial (paleo)environment and its extreme life. Earth-Science Reviews, 2015, 148, 44-64.	9.1	95
6	Compositional diversity of soluble mineralizing matrices in some recent coral skeletons compared to fine-scale growth structures of fibres: discussion of consequences for biomineralization and diagenesis. International Journal of Earth Sciences, 1999, 88, 582-592.	1.8	83
7	Archean (3.33 Ga) microbe-sediment systems were diverse and flourished in a hydrothermal context. Geology, 2015, 43, 615-618.	4.4	82
8	Biochemical markers of zooxanthellae symbiosis in soluble matrices of skeleton of 24 Scleractinia species. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 1999, 123, 269-278.	1.8	57
9	Biochemical Control of Calcium Carbonate Precipitation in Modern Lagoonal Microbialites, Tikehau Atoll, French Polynesia. Journal of Sedimentary Research, 2004, 74, 462-478.	1.6	52
10	Composition of soluble mineralizing matrices in zooxanthellate and non-zooxanthellate scleractinian corals: Biochemical assessment of photosynthetic metabolism through the study of a skeletal feature. Facies, 1997, 36, 189-194.	1.4	45
11	Molecular fossils and other organic markers as palaeoenvironmental indicators of the Messinian Calcare di Base Formation: normal versus stressed marine deposition (Rossano Basin, northern) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.8	44
12	Skeletal formation in the modern but ultraconservative chaetetid spongeSpirastrella (Acanthochaetetes) wellsi (demospongiae, porifera). Facies, 1996, 34, 193-207.	1.4	40
13	Biosedimentology of Microbial Buildups IGCP Project No. 380 Proceedings of 2nd Meeting, GÃ¶ttingen/Germany 1996. Facies, 1997, 36, 195-284.	1.4	40
14	Organic and Biogeochemical Patterns in Cryptic Microbialites. , 2000, , 149-160.		39
15	Characterization and mobility of arsenic and heavy metals in soils polluted by the destruction of arsenic-containing shells from the Great War. Science of the Total Environment, 2016, 550, 658-669.	8.0	38
16	Metallomics in deep time and the influence of ocean chemistry on the metabolic landscapes of Earthâ€™s earliest ecosystems. Scientific Reports, 2020, 10, 4965.	3.3	31
17	Viruses Occur Incorporated in Biogenic High-Mg Calcite from Hypersaline Microbial Mats. PLoS ONE, 2015, 10, e0130552.	2.5	27
18	Automicrites in modern cyanobacterial stromatolitic deposits of Rangiroa, Tuamotu Archipelago, French Polynesia: Biochemical parameters underlaying their formation. Sedimentary Geology, 2005, 178, 55-73.	2.1	22

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19	Extraterrestrial organic matter preserved in 3.33â€¯Ga sediments from Barberton, South Africa. Geochimica Et Cosmochimica Acta, 2019, 258, 207-225.	3.9	21
20	Syndepositional cements associated with nannofossils in the Marmolada Massif: Evidences of microbially mediated primary marine cements? (Middle Triassic, Dolomites, Italy). Sedimentary Geology, 2006, 185, 267-275.	2.1	20
21	Mechanistic Morphogenesis of Organo-Sedimentary Structures Growing Under Geochemically Stressed Conditions: Keystone to Proving the Biogenicity of Some Archaean Stromatolites?. Geosciences (Switzerland), 2019, 9, 359.	2.2	19
22	Defining organominerals: Comment on â€¯Defining biominerals and organominerals: Direct and indirect indicators of lifeâ€™ by Perry et al. (2007, Sedimentary Geology, 201, 157â€“179). Sedimentary Geology, 2009, 213, 152-155.	2.1	17
23	Dating Carbonaceous Matter in Archean Cherts by Electron Paramagnetic Resonance. Astrobiology, 2013, 13, 151-162.	3.0	17
24	Preservation and Evolution of Organic Matter During Experimental Fossilisation of the Hyperthermophilic Archaea Methanocaldococcus jannaschii. Origins of Life and Evolution of Biospheres, 2012, 42, 587-609.	1.9	15
25	Are environmental conditions recorded by the organic matrices associated with precipitated calcium carbonate in cyanobacterial microbialites?. Geobiology, 2006, 4, 93-107.	2.4	13
26	The structure and role of the â€œpetolaâ€•microbial mat in sea salt production of the SeÄovlje (Slovenia). Science of the Total Environment, 2018, 644, 1254-1267.	8.0	12
27	Microcosm-scale biogeochemical stabilization of Pb, As, Ba and Zn in mine tailings amended with manure and ochre. Applied Geochemistry, 2019, 111, 104438.	3.0	12
28	Microbial community response to environmental changes in a technosol historically contaminated by the burning of chemical ammunitions. Science of the Total Environment, 2019, 697, 134108.	8.0	12
29	Impact of Fe(III) (Oxyhydr)oxides Mineralogy on Iron Solubilization and Associated Microbial Communities. Frontiers in Microbiology, 2020, 11, 571244.	3.5	12
30	Electron Paramagnetic Resonance Study of a Photosynthetic Microbial Mat and Comparison with Archean Cherts. Origins of Life and Evolution of Biospheres, 2012, 42, 569-585.	1.9	10
31	Conservation of a permanent hypersaline lake: management options evaluated from decadal variability of Coleofasciculus chthonoplastes microbial mats. Aquatic Conservation: Marine and Freshwater Ecosystems, 2013, 23, 532-545.	2.0	10
32	Influence of environmental changes on the biogeochemistry of arsenic in a soil polluted by the destruction of chemical weapons: A mesocosm study. Science of the Total Environment, 2018, 627, 216-226.	8.0	10
33	Recherche sur les affinitÃ©s desSpongiomorphidae Frech, 1890. Geobios, 1993, 26, 279-290.	1.4	7
34	Matrices organiques intrasquelettiques des sclÃ©ractiniaires rÃ©cifaux: Ã‰volution diagÃ©nÃ©tique prÃ©coce de leurs caractÃ©ristiques biochimiques et consÃ©quences pour les processus de cimentation. Geobios, 2000, 33, 73-78.	1.4	7
35	Microbialites and microbial communities: Biological diversity, biogeochemical functioning, diagenetic processes, tracers of environmental changes. Sedimentary Geology, 2006, 185, 127-130.	2.1	6
36	Effect of water table variations and input of natural organic matter on the cycles of C and N, and mobility of As, Zn and Cu from a soil impacted by the burning of chemical warfare agents: A mesocosm study. Science of the Total Environment, 2017, 595, 279-293.	8.0	6

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37	Reply to â€œReply to comments on defining biominerals and organominerals: Direct and indirect indicators of life [Perry et al., Sedimentary Geology, 201, 157â€“179]â€•by R.S. Perry and M.A. Sephton. Sedimentary Geology, 2010, 223, 390-391.	2.1	5
38	Evolution des Scleractiniaires: DiversitÃ© des architectures poreuses au Trias supÃ©rieur. Geobios, 1993, 26, 405-412.	1.4	3
39	PrÃ©sence d'un Stromatopore calcitique dans le Trias de Turquie (nappes d'Antalya, Alakir Cay). Geobios, 1991, 24, 417-421.	1.4	0