Valier Galy

List of Publications by Year
in descending order

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78 papers	6,232 citations	76326 40 h-index	76900 74 g-index
92 all docs	92 docs citations	92 times ranked	6114 citing authors

#	Article	IF	Citations
1	Persistence of old soil carbon under changing climate: The role of mineral-organic matter interactions. Chemical Geology, 2022, 587, 120629.	3.3	17
2	Heliumâ€flushed sheathed nickel tube reactor for continuous flow oxygen stable isotope compoundâ€specific analysis. Rapid Communications in Mass Spectrometry, 2022, 36, e9252.	1.5	0
3	Terrestrial organic carbon age and reactivity in the Yellow River fueling efficient preservation in marine sediments. Earth and Planetary Science Letters, 2022, 585, 117515.	4.4	17
4	Turbidity Currents Can Dictate Organic Carbon Fluxes Across Riverâ€Fed Fjords: An Example From Bute Inlet (BC, Canada). Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	3.0	7
5	Climate control on terrestrial biospheric carbon turnover. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	64
6	The Pulse of the Amazon: Fluxes of Dissolved Organic Carbon, Nutrients, and Ions From the World's Largest River. Global Biogeochemical Cycles, 2021, 35, e2020GB006895.	4.9	16
7	Coal fly ash is a major carbon flux in the Chang Jiang (Yangtze River) basin. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	7
8	Limited Presence of Permafrost Dissolved Organic Matter in the Kolyma River, Siberia Revealed by Ramped Oxidation. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG005977.	3.0	16
9	Controls on short-term dissolved 87Sr/86Sr variations in large rivers: Evidence from the Gangaâ€“Brahmaputra. Earth and Planetary Science Letters, 2021, 566, 116958.	4.4	9
10	Controls on the age of plant waxes in marine sediments â€“ A global synthesis. Organic Geochemistry, 2021, 157, 104259.	1.8	11
11	From Andes to Amazon: Assessing Branched Tetraether Lipids as Tracers for Soil Organic Carbon in the Madre de Dios River System. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005270.	3.0	17
12	Analytical and Computational Advances, Opportunities, and Challenges in Marine Organic Biogeochemistry in an Era of â€œOmicsâ€• Frontiers in Marine Science, 2020, 7, .	2.5	24
13	Millennial-scale hydroclimate control of tropical soil carbon storage. Nature, 2020, 581, 63-66.	27.8	44
14	Miocene C₄ Grassland Expansion as Recorded by the Indus Fan. Paleoceanography and Paleoclimatology, 2020, 35, e2020PA003856.	2.9	28
15	Soothsaying DOM: A Current Perspective on the Future of Oceanic Dissolved Organic Carbon. Frontiers in Marine Science, 2020, 7, .	2.5	44
16	Biomass-Derived Provenance Dominates Glacial Surface Organic Carbon in the Western Himalaya. Environmental Science & Technology, 2020, 54, 8612-8621.	10.0	11
17	Using Stable Carbon Isotopes to Quantify Radiocarbon Reservoir Age Offsets in the Coastal Black Sea. Radiocarbon, 2019, 61, 309-318.	1.8	7
18	Carbon dioxide emissions by rock organic carbon oxidation and the net geochemical carbon budget of the Mackenzie River Basin. Numerische Mathematik, 2019, 319, 473-499.	1.4	45

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19	Thermal oxidation of carbon in organic matter rich volcanic soils: insights into SOC age differentiation and mineral stabilization. Biogeochemistry, 2019, 144, 291-304.	3.5	15
20	Sustained wood burial in the Bengal Fan over the last 19 My. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22518-22525.	7.1	43
21	Temporal constraints on lateral organic matter transport along a coastal mud belt. Organic Geochemistry, 2019, 128, 86-93.	1.8	20
22	Significance of Perylene for Source Allocation of Terrigenous Organic Matter in Aquatic Sediments. Environmental Science & Technology, 2019, 53, 8244-8251.	10.0	25
23	Mineral protection regulates long-term global preservation of natural organic carbon. Nature, 2019, 570, 228-231.	27.8	354
24	Reply to comment by Thomas M. Blattmann on â€œCarbon dioxide emissions by rock organic carbon oxidation and the next geochemical carbon budget of the Mackenzie River Basinâ€, v. 319, n. 6, p. 473â€“499.. Numerische Mathematik, 2019, 319, 905-906.	1.4	0
25	Glacier meltwater and monsoon precipitation drive Upper Ganges Basin dissolved organic matter composition. Geochimica Et Cosmochimica Acta, 2019, 244, 216-228.	3.9	28
26	Microbial oxidation of lithospheric organic carbon in rapidly eroding tropical mountain soils. Science, 2018, 360, 209-212.	12.6	97
27	Centers of organic carbon burial and oxidation at the land-ocean interface. Organic Geochemistry, 2018, 115, 138-155.	1.8	184
28	Neoglacial climate anomalies and the Harappan metamorphosis. Climate of the Past, 2018, 14, 1669-1686.	3.4	36
29	Dual isotope evidence for sedimentary integration of plant wax biomarkers across an Andes-Amazon elevation transect. Geochimica Et Cosmochimica Acta, 2018, 242, 64-81.	3.9	53
30	Global-scale evidence for the refractory nature of riverine black carbon. Nature Geoscience, 2018, 11, 584-588.	12.9	111
31	The effect of sample drying temperature on marine particulate organic carbon composition. Limnology and Oceanography: Methods, 2018, 16, 286-298.	2.0	3
32	Millennial soil retention of terrestrial organic matter deposited in the Bengal Fan. Scientific Reports, 2018, 8, 11997.	3.3	48
33	A 43 kyr record of protist communities and their response to oxygen minimum zone variability in the Northeastern Arabian Sea. Earth and Planetary Science Letters, 2018, 496, 248-256.	4.4	31
34	Assessing the Blank Carbon Contribution, Isotope Mass Balance, and Kinetic Isotope Fractionation of the Ramped Pyrolysis/Oxidation Instrument at NOSAMS. Radiocarbon, 2017, 59, 179-193.	1.8	33
35	Post-glacial climate forcing of surface processes in the Gangesâ€“Brahmaputra river basin and implications for carbon sequestration. Earth and Planetary Science Letters, 2017, 478, 89-101.	4.4	41
36	Climate oscillations reflected within the microbiome of Arabian Sea sediments. Scientific Reports, 2017, 7, 6040.	3.3	74

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37	Hydrologic controls on seasonal and inter-annual variability of Congo River particulate organic matter source and reservoir age. Chemical Geology, 2017, 466, 454-465.	3.3	28
38	Technical note: An inverse method to relate organic carbon reactivity to isotope composition from serial oxidation. Biogeosciences, 2017, 14, 5099-5114.	3.3	36
39	Short communication: Massive erosion in monsoonal central India linked to late Holocene land cover degradation. Earth Surface Dynamics, 2017, 5, 781-789.	2.4	45
40	Arctic Deltaic Lake Sediments As Recorders of Fluvial Organic Matter Deposition. Frontiers in Earth Science, 2016, 4, .	1.8	12
41	The acid and alkalinity budgets of weathering in the Andesâ€“Amazon system: Insights into the erosional control of global biogeochemical cycles. Earth and Planetary Science Letters, 2016, 450, 381-391.	4.4	103
42	A Note on Reporting of Reservoir ¹⁴C Disequilibria and Age Offsets. Radiocarbon, 2016, 58, 205-211.	1.8	43
43	Multiple plant-wax compounds record differential sources and ecosystem structure in large river catchments. Geochimica Et Cosmochimica Acta, 2016, 184, 20-40.	3.9	49
44	Source to sink: Evolution of lignin composition in the Madre de Dios River system with connection to the Amazon basin and offshore. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 1316-1338.	3.0	39
45	Late Quaternary environmental change in the interior South American tropics: new insight from leaf wax stable isotopes. Earth and Planetary Science Letters, 2016, 438, 75-85.	4.4	30
46	Paleoreconstruction of organic carbon inputs to an oxbow lake in the Mississippi River watershed: Effects of dam construction and land use change on regional inputs. Geophysical Research Letters, 2015, 42, 7983-7991.	4.0	19
47	Seasonal hydrology drives rapid shifts in the flux and composition of dissolved and particulate organic carbon and major and trace ions in the Fraser River, Canada. Biogeosciences, 2015, 12, 5597-5618.	3.3	24
48	Erosion of organic carbon in the Arctic as a geological carbon dioxide sink. Nature, 2015, 524, 84-87.	27.8	141
49	Global carbon export from the terrestrial biosphere controlled by erosion. Nature, 2015, 521, 204-207.	27.8	394
50	High rates of organic carbon burial in fjord sediments globally. Nature Geoscience, 2015, 8, 450-453.	12.9	295
51	Lithium isotopes in large rivers reveal the cannibalistic nature of modern continental weathering and erosion. Earth and Planetary Science Letters, 2014, 401, 359-372.	4.4	137
52	Source, transport and fluxes of Amazon River particulate organic carbon: Insights from river sediment depth-profiles. Geochimica Et Cosmochimica Acta, 2014, 133, 280-298.	3.9	122
53	C4 plant expansion in the Ganga Plain during the last glacial cycle: Insights from isotopic composition of vascular plant biomarkers. Organic Geochemistry, 2014, 67, 58-71.	1.8	33
54	Indonesian vegetation response to changes in rainfall seasonality over the past 25,000 years. Nature Geoscience, 2014, 7, 513-517.	12.9	80

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55	Leaf wax biomarkers in transit record river catchment composition. Geophysical Research Letters, 2014, 41, 6420-6427.	4.0	66
56	Cosmogenic 3He production rate in the high tropical Andes (3800 m, 20Â°S): Implications for the local last glacial maximum. Earth and Planetary Science Letters, 2013, 377-378, 260-275.	4.4	45
57	Increasing chemical weathering in the Himalayan system since the Last Glacial Maximum. Earth and Planetary Science Letters, 2013, 365, 243-252.	4.4	185
58	An interlaboratory study of TEX₈₆ and BIT analysis of sediments, extracts, and standard mixtures. Geochemistry, Geophysics, Geosystems, 2013, 14, 5263-5285.	2.5	76
59	Prominent bacterial heterotrophy and sources of ¹³C-depleted fatty acids to the interior Canada Basin. Biogeosciences, 2013, 10, 7065-7080.	3.3	5
60	Predominant floodplain over mountain weathering of Himalayan sediments (Ganga basin). Geochimica Et Cosmochimica Acta, 2012, 84, 410-432.	3.9	234
61	Direct measurement of riverine particulate organic carbon age structure. Geophysical Research Letters, 2012, 39, .	4.0	67
62	A Rouse-based method to integrate the chemical composition of river sediments: Application to the Ganga basin. Journal of Geophysical Research, 2011, 116, .	3.3	132
63	Protracted storage of biospheric carbon in the Gangesâ€“Brahmaputra basin. Nature Geoscience, 2011, 4, 843-847.	12.9	150
64	Mineralogical and chemical variability of fluvial sediments 2. Suspended-load silt (Gangaâ€“Brahmaputra, Bangladesh). Earth and Planetary Science Letters, 2011, 302, 107-120.	4.4	296
65	The provenance of vegetation and environmental signatures encoded in vascular plant biomarkers carried by the Gangesâ€“Brahmaputra rivers. Earth and Planetary Science Letters, 2011, 304, 1-12.	4.4	107
66	Oxidation of petrogenic organic carbon in the Amazon floodplain as a source of atmospheric CO2. Geology, 2010, 38, 255-258.	4.4	130
67	Monsoon control over erosion patterns in the Western Himalaya: possible feed-back into the tectonic evolution. Geological Society Special Publication, 2010, 342, 185-218.	1.3	40
68	Srâ€“Ndâ€“Os evidence for a stable erosion regime in the Himalaya during the past 12Myr. Earth and Planetary Science Letters, 2010, 290, 474-480.	4.4	79
69	Mineralogical and chemical variability of fluvial sediments1. Bedload sand (Gangaâ€“Brahmaputra,) Tj ETQq1 1 0.784314 rgBT /Overlo	4.4	230
70	Organic Carbon Cycling During Himalayan Erosion: Processes, Fluxes and Consequences for the Global Carbon Cycle. , 2010, , 163-181.		3
71	Recycling of Graphite During Himalayan Erosion: A Geological Stabilization of Carbon in the Crust. Science, 2008, 322, 943-945.	12.6	205
72	C4 plants decline in the Himalayan basin since the Last Glacial Maximum. Quaternary Science Reviews, 2008, 27, 1396-1409.	3.0	119

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73	Loading and fate of particulate organic carbon from the Himalaya to the Gangaâ€“Brahmaputra delta. Geochimica Et Cosmochimica Acta, 2008, 72, 1767-1787.	3.9	187
74	Efficient organic carbon burial in the Bengal fan sustained by the Himalayan erosional system. Nature, 2007, 450, 407-410.	27.8	562
75	Determination of Total Organic Carbon Content and Î´¹³C in Carbonateâ€Rich Detrital Sediments. Geostandards and Geoanalytical Research, 2007, 31, 199-207.	1.9	52
76	238Uâ€“234Uâ€“230Th disequilibria and timescale of sedimentary transfers in rivers: Clues from the Gangetic plain rivers. Journal of Geochemical Exploration, 2006, 88, 373-375.	3.2	41
77	SHORT COMMUNICATION: Massive Erosion in Monsoonal Central India Linked to Late Holocene Landcover Degradation. , 0, , .		0
78	Isotopic evidence for sources of dissolved carbon and the role of organic matter respiration in the Fraser River basin, Canada. Biogeochemistry, 0, , .	3.5	3