Liviu Giosan

List of Publications by Year
in descending order

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134 papers	8,082 citations	66343 42 h-index	53230 85 g-index
142 all docs	142 docs citations	142 times ranked	7710 citing authors

#	Article	IF	Citations
1	Sinking deltas due to human activities. Nature Geoscience, 2009, 2, 681-686.	12.9	1,823
2	Climate change: Protect the world's deltas. Nature, 2014, 516, 31-33.	27.8	512
3	Wave-influenced deltas: geomorphological implications for facies reconstruction. Sedimentology, 2003, 50, 187-210.	3.1	441
4	Fluvial landscapes of the Harappan civilization. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1688-94.	7.1	239
5	Climatic control of Mississippi River flood hazard amplified by river engineering. Nature, 2018, 556, 95-98.	27.8	202
6	Holocene aridification of India. Geophysical Research Letters, 2012, 39, .	4.0	187
7	Holocene erosion of the Lesser Himalaya triggered by intensified summer monsoon. Geology, 2008, 36, 79.	4.4	174
8	Recent morphodynamics of the Indus delta shore and shelf. Continental Shelf Research, 2006, 26, 1668-1684.	1.8	160
9	Decrease in coccolithophore calcification and CO2 since the middle Miocene. Nature Communications, 2016, 7, 10284.	12.8	135
10	Battling to Save the Worldâ€™s River Deltas. Bulletin of the Atomic Scientists, 2009, 65, 31-43.	0.6	129
11	Evolution of the plankton paleome in the Black Sea from the Deglacial to Anthropocene. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8609-8614.	7.1	128
12	Young Danube delta documents stable Black Sea level since the middle Holocene: Morphodynamic, paleogeographic, and archaeological implications. Geology, 2006, 34, 757.	4.4	122
13	Approaches to defining deltaic sustainability in the 21st century. Estuarine, Coastal and Shelf Science, 2016, 183, 275-291.	2.1	117
14	Was the Black Sea catastrophically flooded in the early Holocene?. Quaternary Science Reviews, 2009, 28, 1-6.	3.0	111
15	Wave-angle control of delta evolution. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	91
16	Deglacial floods in the Beaufort Sea preceded Younger Dryas cooling. Nature Geoscience, 2018, 11, 599-604.	12.9	89
17	An Abrupt Shift in the Indian Monsoon 4000 Years Ago. Geophysical Monograph Series, 0, , 75-88.	0.1	85
18	What makes a delta wave-dominated?. Geology, 2015, 43, 511-514.	4.4	84

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19	U-Pb zircon dating evidence for a Pleistocene Sarasvati River and capture of the Yamuna River. Geology, 2012, 40, 211-214.	4.4	83
20	The last reconnection of the Marmara Sea (Turkey) to the World Ocean: A paleoceanographic and paleoclimatic perspective. Marine Geology, 2008, 255, 64-82.	2.1	82
21	Early Anthropogenic Transformation of the Danube-Black Sea System. Scientific Reports, 2012, 2, 582.	3.3	81
22	Paleoceanographic significance of sediment color on western North Atlantic drifts: I. Origin of color. Marine Geology, 2002, 189, 25-41.	2.1	78
23	A new look at old carbon in active margin sediments. Geology, 2009, 37, 239-242.	4.4	78
24	Clay mineral variations in Holocene terrestrial sediments from the Indus Basin. Quaternary Research, 2012, 77, 368-381.	1.7	78
25	DNA and lipid molecular stratigraphic records of haptophyte succession in the Black Sea during the Holocene. Earth and Planetary Science Letters, 2009, 284, 610-621.	4.4	77
26	Climate oscillations reflected within the microbiome of Arabian Sea sediments. Scientific Reports, 2017, 7, 6040.	3.3	74
27	Alongshore sediment bypassing as a control on river mouth morphodynamics. Journal of Geophysical Research F: Earth Surface, 2016, 121, 664-683.	2.8	73
28	Long-timescale variation in bulk and clay mineral composition of Indian continental margin sediments in the Bay of Bengal, Arabian Sea, and Andaman Sea. Marine and Petroleum Geology, 2014, 58, 117-138.	3.3	69
29	Monsoon-influenced variation in productivity and lithogenic sediment flux since 110Âka in the offshore Mahanadi Basin, northern Bay of Bengal. Marine and Petroleum Geology, 2014, 58, 502-525.	3.3	65
30	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
31	South <scp>A</scp>sian monsoon history over the past 60 kyr recorded by radiogenic isotopes and clay mineral assemblages in the <scp>A</scp>ndaman <scp>S</scp>ea. Geochemistry, Geophysics, Geosystems, 2015, 16, 505-521.	2.5	63
32	Sediment fluxes and buffering in the postâ€glacial Indus Basin. Basin Research, 2014, 26, 369-386.	2.7	62
33	Maintenance of large deltas through channelization: Nature vs. humans in the Danube delta. Anthropocene, 2013, 1, 35-45.	3.3	58
34	Anthropocene metamorphosis of the Indus Delta and lower floodplain. Anthropocene, 2013, 3, 24-35.	3.3	58
35	The role of North Brazil Current transport in the paleoclimate of the Brazilian Nordeste margin and paleoceanography of the western tropical Atlantic during the late Quaternary. Palaeogeography, Palaeoclimatology, Palaeoecology, 2014, 415, 3-13.	2.3	58
36	Astronomical age models for Pleistocene drift sediments from the western North Atlantic (ODP Sites) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.1	56

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37	Geochemical record of Holocene to Recent sedimentation on the Western Indus continental shelf, Arabian Sea. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	53
38	Influence of total organic carbon deposition on the inventory of gas hydrate in the Indian continental margins. Marine and Petroleum Geology, 2014, 58, 406-424.	3.3	51
39	Wave reworking of abandoned deltas. Geophysical Research Letters, 2013, 40, 5899-5903.	4.0	50
40	Remote and local drivers of Pleistocene South Asian summer monsoon precipitation: A test for future predictions. Science Advances, 2021, 7, .	10.3	50
41	Signal or noise? Isolating grain size effects on Nd and Sr isotope variability in Indus delta sediment provenance. Chemical Geology, 2018, 485, 56-73.	3.3	47
42	Branched glycerol dialkyl glycerol tetraethers in Arctic lake sediments: Sources and implications for paleothermometry at high latitudes. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1738-1754.	3.0	46
43	River Delta Morphodynamics: Examples from the Danube Delta. , 2011, , 393-411.		46
44	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
45	Sediment storage and reworking on the shelf and in the Canyon of the Indus Riverâ€Fan System since the last glacial maximum. Basin Research, 2014, 26, 183-202.	2.7	43
46	Indian monsoon variations during three contrasting climatic periods: The Holocene, Heinrich Stadial 2 and the last interglacialâ€“glacial transition. Quaternary Science Reviews, 2015, 125, 50-60.	3.0	43
47	Paleoceanographic significance of sediment color on western North Atlantic Drifts: II. Late Plioceneâ€“Pleistocene sedimentation. Marine Geology, 2002, 189, 43-61.	2.1	40
48	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
49	Survive or subside?. Nature Geoscience, 2008, 1, 156-157.	12.9	39
50	First high-resolution marinopalynological stratigraphy of Late Quaternary sediments from the central part of the Bulgarian Black Sea area. Quaternary International, 2013, 293, 170-183.	1.5	39
51	Sedimentation rates from calcareous nannofossil and planktonic foraminifera biostratigraphy in the Andaman Sea, northern Bay of Bengal, and eastern Arabian Sea. Marine and Petroleum Geology, 2014, 58, 425-437.	3.3	38
52	Anomalous porosity preservation and preferential accumulation of gas hydrate in the Andaman accretionary wedge, NGHP-01 site 17A. Marine and Petroleum Geology, 2014, 58, 99-116.	3.3	38
53	Composition and origin of authigenic carbonates in the Krishnaâ€“Godavari and Mahanadi Basins, eastern continental margin of India. Marine and Petroleum Geology, 2014, 58, 438-460.	3.3	37
54	Spatial variations in geochemical characteristics of the modern Mackenzie Delta sedimentary system. Geochimica Et Cosmochimica Acta, 2015, 171, 100-120.	3.9	36

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55	Neoglacial climate anomalies and the Harappan metamorphosis. Climate of the Past, 2018, 14, 1669-1686.	3.4	36
56	Sea-level responses to erosion and deposition of sediment in the Indus River basin and the Arabian Sea. Earth and Planetary Science Letters, 2015, 416, 12-20.	4.4	34
57	Evolution of biomolecular loadings along a major river system. Geochimica Et Cosmochimica Acta, 2018, 223, 389-404.	3.9	34
58	Enhancing mud supply from the Lower Missouri River to the Mississippi River Delta USA: Dam bypassing and coastal restoration. Estuarine, Coastal and Shelf Science, 2016, 183, 304-313.	2.1	33
59	Simulating fluvial fluxes in the Danube watershed: The â€˜Little Ice Ageâ€™ versus modern day. Holocene, 2012, 22, 91-105.	1.7	32
60	On the Holocene evolution of the Ayeyawady megadelta. Earth Surface Dynamics, 2018, 6, 451-466.	2.4	32
61	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
62	Pb isotopic variability in the modern-Pleistocene Indus River system measured by ion microprobe in detrital K-feldspar grains. Geochimica Et Cosmochimica Acta, 2011, 75, 4771-4795.	3.9	30
63	Progress in coupling models of coastline and fluvial dynamics. Computers and Geosciences, 2013, 53, 21-29.	4.2	30
64	Branched GDGT signals in fluvial sediments of the Danube River basin: Method comparison and longitudinal evolution. Organic Geochemistry, 2017, 103, 88-96.	1.8	30
65	Holocene paleodepositional changes reflected in the sedimentary microbiome of the Black Sea. Geobiology, 2019, 17, 436-448.	2.4	30
66	Continuous Holocene input of river sediment to the Indus Submarine Canyon. Marine Geology, 2018, 406, 159-176.	2.1	29
67	Migration history of a fine-grained abyssal sediment wave on the Bahama Outer Ridge. Marine Geology, 2002, 192, 259-273.	2.1	28
68	Holocene palaeoenvironmental evolution of the Ebro Delta (Western Mediterranean Sea): Evidence for an early construction based on the benthic foraminiferal record. Holocene, 2016, 26, 1438-1456.	1.7	28
69	Tracing the Vedic Saraswati River in the Great Rann of Kachchh. Scientific Reports, 2017, 7, 5476.	3.3	28
70	Temporal deconvolution of vascular plant-derived fatty acids exported from terrestrial watersheds. Geochimica Et Cosmochimica Acta, 2019, 244, 502-521.	3.9	28
71	What Can We Learn From Xâ€Ray Fluorescence Core Scanning Data? A Paleomonsoon Case Study. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008414.	2.5	27
72	A late Mioceneâ€“Early Pliocene biogenic silica crash in the Andaman Sea and Bay of Bengal. Marine and Petroleum Geology, 2014, 58, 490-501.	3.3	26

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73	Testing the physical oceanographic implications of the suggested sudden Black Sea infill 8400 years ago. Paleoceanography, 2004, 19, n/a-n/a.	3.0	25
74	Tempestuous highs and lows in the Gulf of Mexico. Geology, 2008, 36, 751.	4.4	25
75	Littoral steering of deltaic channels. Earth and Planetary Science Letters, 2016, 453, 204-214.	4.4	25
76	Fluvial response to climate variations and anthropogenic perturbations for the Ebro River, Spain in the last 4000 years. Science of the Total Environment, 2014, 473-474, 20-31.	8.0	24
77	Linking Danube River activity to Alpine Ice-Sheet fluctuations during the last glacial (ca. 33â€“17 ka BP): Insights into the continental signature of Heinrich Stadials. Quaternary Science Reviews, 2020, 229, 106136.	3.0	24
78	Black Sea paleosalinity evolution since the last deglaciation reconstructed from alkenone-inferred Isochrysidales diversity. Earth and Planetary Science Letters, 2021, 564, 116881.	4.4	23
79	A human role in Andean megafaunal extinction?. Quaternary Science Reviews, 2019, 205, 154-165.	3.0	20
80	Reconciling drainage and receiving basin signatures of the Godavari River system. Biogeosciences, 2018, 15, 3357-3375.	3.3	19
81	Evolution of Chilia lobes of the Danube delta: Reorganization of deltaic processes under cultural pressures. Anthropocene, 2014, 5, 65-70.	3.3	18
82	Embanking the Lower Danube: From Natural to Engineered Floodplains and Back. , 2015, , 265-288.		18
83	Paleoclimatic evolution of the SW and NE South China Sea and its relationship with spectral reflectance data over various age scales. Palaeogeography, Palaeoclimatology, Palaeoecology, 2019, 525, 25-43.	2.3	16
84	Intercomparison of XRF Core Scanning Results From Seven Labs and Approaches to Practical Calibration. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC009248.	2.5	16
85	Expedition 353 methods. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	16
86	Aeolian delivery to Ulleung Basin, Korea (Japan Sea), during development of the East Asian Monsoon through the last 12 Ma. Geological Magazine, 2020, 157, 806-817.	1.5	15
87	StableÂâ‰ÂSustainable: Delta Dynamics Versus the Human Need for Stability. Earth's Future, 2021, 9, e2021EF002121.	6.3	15
88	Expedition 353 summary. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	14
89	Constraining Instantaneous Fluxes and Integrated Compositions of Fluvially Discharged Organic Matter. Geochemistry, Geophysics, Geosystems, 2018, 19, 2453-2462.	2.5	13
90	Morphodynamic Feedbacks on Deltaic Coasts: Lessons from the Wave-Dominated Danube Delta. , 2007, , 828.		12

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91	Arctic Deltaic Lake Sediments As Recorders of Fluvial Organic Matter Deposition. Frontiers in Earth Science, 2016, 4, .	1.8	12
92	Uâ€PB Detrital Zircon Geochronology of the Lower Danube and Its Tributaries: Implications for the Geology of the Carpathians. Geochemistry, Geophysics, Geosystems, 2018, 19, 3208-3223.	2.5	12
93	Pliocene expansion of C₄ vegetation in the Core Monsoon Zone on the Indian Peninsula. Climate of the Past, 2020, 16, 2533-2546.	3.4	12
94	Multi-proxy records of Holocene palaeoenvironmental changes in the Varna Lake area, western Black Sea coast. Quaternary International, 2016, 401, 99-108.	1.5	11
95	Middle Miocene Intensification of South Asian Monsoonal Rainfall. Paleoceanography and Paleoclimatology, 2020, 35, e2020PA003853.	2.9	11
96	The adoption of agropastoralism and increased ENSO frequency in the Andes. Quaternary Science Reviews, 2020, 243, 106471.	3.0	11
97	A Brief Commentary on the Interpretation of Chinese Speleothem Î´18O Records as Summer Monsoon Intensity Tracers. Quaternary, 2020, 3, 7.	2.0	11
98	Impacts of sediment supply and local tectonics on clinoform distribution: the seismic stratigraphy of the mid Pleistocene-Holocene Indus Shelf. Marine Geophysical Researches, 2012, 33, 251-267.	1.2	10
99	Provenance and Weathering of Clays Delivered to the Bay of Bengal During the Middle Miocene: Linkages to Tectonics and Monsoonal Climate. Paleoceanography and Paleoclimatology, 2021, 36, e2020PA003917.	2.9	10
100	A cartographical perspective to the engineering works at the Sulina mouth, the Danube Delta. Acta Geodaetica Et Geophysica Hungarica, 2010, 45, 71-79.	0.4	9
101	Radiogenic fingerprinting reveals anthropogenic and buffering controls on sediment dynamics of the Mississippi River system. Geology, 2019, 47, 271-274.	4.4	9
102	The Indus Deltaâ€”Catchment, River, Coast, and People. , 2019, , 213-232.		8
103	Deltas in Arid Environments. Water (Switzerland), 2021, 13, 1677.	2.7	8
104	High-resolution carbonate content estimated from diffuse spectral reflectance for Leg 172 sites. , 0, , .		8
105	Using Stable Carbon Isotopes to Quantify Radiocarbon Reservoir Age Offsets in the Coastal Black Sea. Radiocarbon, 2019, 61, 309-318.	1.8	7
106	The Mighty Susquehannaâ€”Extreme Floods in Eastern North America During the Past Two Millennia. Geophysical Research Letters, 2019, 46, 3398-3407.	4.0	7
107	Delta Winners and Losers in the Anthropocene. , 2019, , 149-165.		7
108	Large-scale coastal and fluvial models constrain the late Holocene evolution of the Ebro Delta. Earth Surface Dynamics, 2017, 5, 585-603.	2.4	6

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109	Lipid Biomarker Record Documents Hydroclimatic Variability of the Mississippi River Basin During the Common Era. Geophysical Research Letters, 2020, 47, e2020GL087237.	4.0	6
110	Subseafloor Archaea reflect 139 kyrs of paleodepositional changes in the northern Red Sea. Geobiology, 2021, 19, 162-172.	2.4	6
111	Isolating Detrital and Diagenetic Signals in Magnetic Susceptibility Records From Methaneâ€Bearing Marine Sediments. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009867.	2.5	6
112	Marginal deltaic coasts in transition: From natural to anthropogenic along the southern Romanian cliffed coast. Anthropocene, 2017, 19, 35-44.	3.3	6
113	Holocene paleoenvironmental changes in the marginal marine basin of Great Rann of Kachchh, western India: Insights from sedimentological and mineral magnetic studies on a â¼460â€¯m long core. Quaternary International, 2021, 599-600, 138-147.	1.5	5
114	Climatically Driven Changes in the Supply of Terrigenous Sediment to the East China Sea. Geochemistry, Geophysics, Geosystems, 2018, 19, 2463-2477.	2.5	4
115	Lithogenic Particle Transport Trajectories on the Northwest Atlantic Margin. Journal of Geophysical Research: Oceans, 2021, 126, .	2.6	4
116	Site U1448. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	4
117	24. Varna Lake (north-eastern Bulgaria): vegetation history and human impact during the last 8000 years. Grana, 2014, 53, 309-311.	0.8	3
118	Evidence of a South Asian Protoâ€Monsoon During the Oligoceneâ€Miocene Transition. Paleoceanography and Paleoclimatology, 2021, 36, e2021PA004278.	2.9	3
119	Enhanced Late Miocene Chemical Weathering and Altered Precipitation Patterns in the Watersheds of the Bay of Bengal Recorded by Detrital Clay Radiogenic Isotopes. Paleoceanography and Paleoclimatology, 2021, 36, e2021PA004252.	2.9	3
120	Late Quaternary vegetation and climate of SE Europeâ€“NW Asia according to pollen records in three offshore cores from the Black and Marmara seas. Palaeobiodiversity and Palaeoenvironments, 2021, 101, 197-212.	1.5	3
121	FLUVIAL ENVIRONMENTS | Deltaic Environments. , 2007, , 704-716.		2
122	Comment on â€œGeochemistry of buried river sediments from Ghaggar Plains, NW India: Multi-proxy records of variations in provenance, paleoclimate, and paleovegetation patterns in the late quaternaryâ€•by Ajit Singh, Debajyoti Paul, Rajiv Sinha, Kristina J. Thomsen, Sanjeev Gupta. Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 455, 65-67.	2.3	2
123	Influence of Hydraulic Connectivity on Carbon Burial Efficiency in Mackenzie Delta Lake Sediments. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2020JG006054.	3.0	2
124	Site U1447. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	2
125	Contributions to the European Pollen Database. 22. Vegetation development in the central part of the Bulgarian Black Sea coast during the last 13 000 years. Grana, 2014, 53, 249-251.	0.8	1
126	The Nazca Drift System â€“ palaeoceanographic significance of a giant sleeping on the SE Pacific Ocean floor. Geological Magazine, 0, , 1-15.	1.5	1

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127	Determining the habitat depth of the planktic foraminifera Dentoglobigerina altispira in the eastern Arabian Sea during the middle Miocene. Marine Micropaleontology, 2022, 170, 102075.	1.2	1
128	No modern Irrawaddy River until the late Miocene-Pliocene. Earth and Planetary Science Letters, 2022, 584, 117516.	4.4	1
129	Academia resists clean-up in Romania. Nature, 2011, 472, 295-295.	27.8	0
130	Comment on â€œLandscape change and archaeological settlements in the lower Danube valley and delta from early Neolithic to Chalcolithic time: A reviewâ€•by Jean-Michel Carozza, Christian Micu, Florian Mihail, Laurent Carozza (Quaternary International 261, 21â€“31). Quaternary International, 2013, 298, 207-208.	1.5	0
131	FLUVIAL ENVIRONMENTS | Deltaic Environments. , 2013, , 693-703.		0
132	Controls on sediment flux through the Indus Submarine Canyon during the Last Glacial Cycle. , 2015, , .		0
133	The Sedimentary Record of Deglaciation in the Western Himalaya recorded in the Indus Delta, Pakistan. Himalayan Journal of Sciences, 2008, 5, 41.	0.3	0
134	Human practices behind the aquatic and terrestrial ecological decoupling to climate change in the tropical Andes. Science of the Total Environment, 2022, 826, 154115.	8.0	0