Edouard Metzger

List of Publications by Year
in descending order

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59 papers	1,738 citations	218381 26 h-index	288905 40 g-index
61 all docs	61 docs citations	61 times ranked	1852 citing authors

#	Article	IF	Citations
1	Use of voltammetric solid-state (micro)electrodes for studying biogeochemical processes: Laboratory measurements to real time measurements with an in situ electrochemical analyzer (ISEA). Marine Chemistry, 2008, 108, 221-235.	0.9	156
2	Live (stained) benthic foraminifera from the RhÃ´ne prodelta (Gulf of Lion, NW Mediterranean): Environmental controls on a river-dominated shelf. Journal of Sea Research, 2011, 65, 58-75.	0.6	89
3	Live (stained) benthic foraminifera in the Whittard Canyon, Celtic margin (NE Atlantic). Deep-Sea Research Part I: Oceanographic Research Papers, 2011, 58, 128-146.	0.6	71
4	Foraminiferal survival after long-term in situ experimentally induced anoxia. Biogeosciences, 2013, 10, 7463-7480.	1.3	68
5	Oxygen respiration rates of benthic foraminifera as measured with oxygen microsensors. Journal of Experimental Marine Biology and Ecology, 2011, 396, 108-114.	0.7	64
6	Influence of the organic matter composition on benthic oxygen demand in the RhÃ´ne River prodelta (NW Mediterranean Sea). Continental Shelf Research, 2011, 31, 1008-1019.	0.9	61
7	Two-dimensional determination of dissolved iron and sulfur species in marine sediment pore-waters by thin-film based imaging. Thau lagoon (France). Estuarine, Coastal and Shelf Science, 2007, 72, 420-431.	0.9	60
8	Effect of light on photosynthetic efficiency of sequestered chloroplasts in intertidal benthic foraminifera (<i>Haynesina germanica</i> and <i>Ammonia) Tj ETQq1 1 0 rgBT /Overlock 1	1.3	56
9	Benthic response to shellfish farming in Thau lagoon: Pore water signature. Estuarine, Coastal and Shelf Science, 2007, 72, 406-419.	0.9	50
10	Experimental evidence for foraminiferal calcification under anoxia. Biogeosciences, 2014, 11, 4029-4038.	1.3	50
11	Foraminiferal species responses to in situ, experimentally induced anoxia in the Adriatic Sea. Biogeosciences, 2014, 11, 1775-1797.	1.3	50
12	Vertical distribution and respiration rates of benthic foraminifera: Contribution to aerobic remineralization in intertidal mudflats covered by Zostera noltei meadows. Estuarine, Coastal and Shelf Science, 2016, 179, 23-38.	0.9	48
13	Live and dead benthic foraminiferal faunas from Whittard Canyon (NE Atlantic): Focus on taphonomic processes and paleo-environmental applications. Marine Micropaleontology, 2012, 94-95, 25-44.	0.5	45
14	Sedimentary record of redox-sensitive elements (U, Mn, Mo) in a transitory anoxic basin (the Thau) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.9	44
15	Simultaneous 2D Imaging of Dissolved Iron and Reactive Phosphorus in Sediment Porewaters by Thin-Film and Hyperspectral Methods. Environmental Science & Technology, 2014, 48, 2816-2826.	4.6	44
16	Modeling biogeochemical processes in sediments from the RhÃ´ne River prodelta area (NW) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 T	1.3	43
17	Kleptoplastidic benthic foraminifera from aphotic habitats: insights into assimilation of inorganic C, N and S studied with subâ€cellular resolution. Environmental Microbiology, 2019, 21, 125-141.	1.8	41
18	Assessment of the metal contamination evolution in the Loire estuary using Cu and Zn stable isotopes and geochemical data in sediments. Marine Pollution Bulletin, 2019, 143, 12-23.	2.3	40

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19	Temporal variability of live (stained) benthic foraminiferal faunas in a river-dominated shelf â€“ Faunal response to rapid changes of the river influence (RhÃ´ne prodelta, NW Mediterranean). Biogeosciences, 2012, 9, 1367-1388.	1.3	39
20	Two-dimensional distribution of living benthic foraminifera in anoxic sediment layers of an estuarine mudflat (Loire estuary, France). Biogeosciences, 2015, 12, 6219-6234.	1.3	38
21	Recent sediment transport and deposition in the Cap-Ferret Canyon, South-East margin of Bay of Biscay. Deep-Sea Research Part II: Topical Studies in Oceanography, 2014, 104, 134-144.	0.6	33
22	Experimental calibration of manganese incorporation in foraminiferal calcite. Geochimica Et Cosmochimica Acta, 2018, 237, 49-64.	1.6	31
23	Incorporation of Mg and Sr and oxygen and carbon stable isotope fractionation in cultured Ammonia tepida. Marine Micropaleontology, 2012, 92-93, 16-28.	0.5	30
24	Two dimensional mapping of iron release in marine sediments at submillimetre scale. Marine Chemistry, 2017, 191, 34-49.	0.9	30
25	SEQUESTERED CHLOROPLASTS IN THE BENTHIC FORAMINIFERHAYNESINA GERMANICA: CELLULAR ORGANIZATION, OXYGEN FLUXES AND POTENTIAL ECOLOGICAL IMPLICATIONS. Journal of Foraminiferal Research, 2017, 47, 268-278.	0.1	30
26	Hydrothermal Vent Mussel Habitat Chemistry, Pre- and Post-Eruption at 9Â°50â€²North on the East Pacific Rise. Journal of Shellfish Research, 2008, 27, 169-175.	0.3	29
27	Coupling of carbon, nitrogen and oxygen cycles in sediments from a Mediterranean lagoon: a seasonal perspective. Marine Ecology - Progress Series, 2007, 346, 45-59.	0.9	27
28	Carbon and nutrient accumulation in tropical mangrove creeks, Amazon region. Marine Geology, 2020, 429, 106317.	0.9	25
29	Benthic foraminiferal thanatocoenoses from the Cap-Ferret Canyon area (NE Atlantic): A complex interplay between hydro-sedimentary and biological processes. Deep-Sea Research Part II: Topical Studies in Oceanography, 2014, 104, 145-163.	0.6	21
30	Influence of diagenetic processes in Thau lagoon on cadmium behavior and benthic fluxes. Estuarine, Coastal and Shelf Science, 2007, 72, 497-510.	0.9	20
31	Response of a kleptoplastidic foraminifer to heterotrophic starvation: photosynthesis and lipid droplet biogenesis. FEMS Microbiology Ecology, 2019, 95, .	1.3	20
32	Denitrification by benthic foraminifera and their contribution to N-loss from a fjord environment. Biogeosciences, 2021, 18, 327-341.	1.3	20
33	Survival, Reproduction and Calcification of Three Benthic Foraminiferal Species in Response to Experimentally Induced Hypoxia. Environmental Science and Engineering, 2014, , 163-193.	0.1	18
34	Manganese, iron and phosphorus cycling in an estuarine mudflat, Loire, France. Journal of Sea Research, 2016, 118, 92-102.	0.6	18
35	Solidâ€State Au/Hg Microelectrode for the Investigation of Fe and Mn Cycling in a Freshwater Wetland: Implications for Methane Production. Electroanalysis, 2008, 20, 233-239.	1.5	17
36	In situ study of short-term variations of redox species chemistry in intertidal permeable sediments of the Arcachon lagoon. Hydrobiologia, 2012, 699, 69-84.	1.0	17

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37	Artificially induced migration of redox layers in a coastal sediment from the Northern Adriatic. Biogeosciences, 2014, 11, 2211-2224.	1.3	17
38	Simultaneous Nitrite/Nitrate Imagery at Millimeter Scale through the Waterâ€“Sediment Interface. Environmental Science & Technology, 2016, 50, 8188-8195.	4.6	17
39	Nutrient regeneration susceptibility under contrasting sedimentary conditions from the Rio de Janeiro coast, Brazil. Marine Pollution Bulletin, 2016, 108, 297-302.	2.3	17
40	Millimeter-scale alkalinity measurement in marine sediment using DET probes and colorimetric determination. Water Research, 2013, 47, 5575-5583.	5.3	14
41	Live (stained) benthic foraminifera from the Cap-Ferret Canyon (Bay of Biscay, NE Atlantic): A comparison between the canyon axis and the surrounding areas. Deep-Sea Research Part I: Oceanographic Research Papers, 2013, 74, 98-114.	0.6	14
42	Live (Stained) Benthic Foraminifera Off Walvis Bay, Namibia: A Deep-Sea Ecosystem under the Influence of Bottom Nepheloid Layers. Journal of Foraminiferal Research, 2013, 43, 55-71.	0.1	13
43	Particles transformation in estuaries: Fe, Mn and REE signatures through the Loire Estuary. Journal of Sea Research, 2016, 118, 103-112.	0.6	13
44	Differential manganese and iron recycling and transport in continental margin sediments of the Northern Gulf of Mexico. Marine Chemistry, 2021, 229, 103908.	0.9	12
45	Transient early diagenetic processes in RhÃ´ne prodelta sediments revealed in contrasting flood events. Continental Shelf Research, 2018, 166, 65-76.	0.9	10
46	Benthic oxygen exchange over a heterogeneous Zostera noltei meadow in a temperate coastal ecosystem. Marine Ecology - Progress Series, 2016, 543, 55-71.	0.9	10
47	Seasonal changes in metal and nutrient fluxes across the sediment-water interface in tropical mangrove creeks in the Amazon region. Applied Geochemistry, 2022, 138, 105217.	1.4	10
48	Two-dimensional ammonium distribution in sediment pore waters using a new colorimetric diffusive equilibration in thin-film technique. Water Research X, 2019, 2, 100023.	2.8	9
49	Coupling between sediment biogeochemistry and phytoplankton development in a temperate freshwater marsh (Charente-Maritime, France): Evidence of temporal pattern. Water Research, 2021, 189, 116567.	5.3	8
50	Biogeochemistry in an intertidal pocket beach. Estuarine, Coastal and Shelf Science, 2020, 243, 106920.	0.9	7
51	The impact of induced redox transitions on nutrient diagenesis in coastal marine sediments (Gulf of) Tj ETQq1 1 0.784314 rgBT /Over	1.5	5
52	A multiscale study of mercury transformations and dynamics at the chemocline of the Petit-Saut tropical reservoir (French Guiana). Science of the Total Environment, 2018, 630, 1401-1412.	3.9	5
53	2D Image Quantification of Microbial Iron Chelators (Siderophores) Using Diffusive Equilibrium in Thin Films Method. Analytical Chemistry, 2019, 91, 1399-1407.	3.2	5
54	Early Diagenesis in the Hypoxic and Acidified Zone of the Northern Gulf of Mexico: Is Organic Matter Recycling in Sediments Disconnected From the Water Column?. Frontiers in Marine Science, 2021, 8, .	1.2	4

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55	2D distribution of Pseudomonas fluorescens activities at the soil-root interface of sunflower grown on vineyard soils: Effects on copper uptake. Soil Biology and Biochemistry, 2021, 163, 108462.	4.2	3
56	New evidence of perfect overlapping of Haploops and pockmarks field: Is it a coincidence?. Marine Geology, 2019, 415, 105961.	0.9	1
57	Drivers for primary producersâ€™ dynamics: New insights on annual benthos pelagos monitoring in anthropised freshwater marshes (Charente-Maritime, France). Water Research, 2022, 221, 118718.	5.3	1
58	Pore water trace metal chemistry in polluted sediments of a tropical estuary of SE Brazil. Diqiu Huaxue, 2006, 25, 66-67.	0.5	0
59	PAIRED ANALYSES OF FINE-SCALE SEDIMENT GEOCHEMISTRY AND LIVE BENTHIC FORAMINIFERAL DISTRIBUTIONS IN MUDFLAT CHEMOCLINES. , 2016, , .		0