

# Edouard Metzger

## List of Publications by Citations

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57  
papers

1,310  
citations

22  
h-index

34  
g-index

61  
ext. papers

1,545  
ext. citations

4.3  
avg, IF

4  
L-index

#	Paper	IF	Citations
57	Use of voltammetric solid-state (micro)electrodes for studying biogeochemical processes: Laboratory measurements to real time measurements with an in situ electrochemical analyzer (ISEA). <i>Marine Chemistry</i> , <b>2008</b> , 108, 221-235	3.7	135
56	Live (stained) benthic foraminifera from the Rhône prodelta (Gulf of Lion, NW Mediterranean): Environmental controls on a river-dominated shelf. <i>Journal of Sea Research</i> , <b>2011</b> , 65, 58-75	1.9	78
55	Live (stained) benthic foraminifera in the Whittard Canyon, Celtic margin (NE Atlantic). <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2011</b> , 58, 128-146	2.5	59
54	Oxygen respiration rates of benthic foraminifera as measured with oxygen microsensors. <i>Journal of Experimental Marine Biology and Ecology</i> , <b>2011</b> , 396, 108-114	2.1	57
53	Two-dimensional determination of dissolved iron and sulfur species in marine sediment pore-waters by thin-film based imaging. Thau lagoon (France). <i>Estuarine, Coastal and Shelf Science</i> , <b>2007</b> , 72, 420-431	2.9	54
52	Foraminiferal survival after long-term in situ experimentally induced anoxia. <i>Biogeosciences</i> , <b>2013</b> , 10, 7463-7480	4.6	53
51	Influence of the organic matter composition on benthic oxygen demand in the Rhône River prodelta (NW Mediterranean Sea). <i>Continental Shelf Research</i> , <b>2011</b> , 31, 1008-1019	2.4	49
50	Foraminiferal species responses to in situ, experimentally induced anoxia in the Adriatic Sea. <i>Biogeosciences</i> , <b>2014</b> , 11, 1775-1797	4.6	41
49	Benthic response to shellfish farming in Thau lagoon: Pore water signature. <i>Estuarine, Coastal and Shelf Science</i> , <b>2007</b> , 72, 406-419	2.9	38
48	Modeling biogeochemical processes in sediments from the Rhône River prodelta area (NW Mediterranean Sea). <i>Biogeosciences</i> , <b>2011</b> , 8, 1351-1366	4.6	36
47	Simultaneous 2D imaging of dissolved iron and reactive phosphorus in sediment porewaters by thin-film and hyperspectral methods. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 2816-26	10.3	35
46	Live and dead benthic foraminiferal faunas from Whittard Canyon (NE Atlantic): Focus on taphonomic processes and paleo-environmental applications. <i>Marine Micropaleontology</i> , <b>2012</b> , 94-95, 25-44	1.7	35
45	Experimental evidence for foraminiferal calcification under anoxia. <i>Biogeosciences</i> , <b>2014</b> , 11, 4029-4038	4.6	35
44	Sedimentary record of redox-sensitive elements (U, Mn, Mo) in a transitory anoxic basin (the Thau lagoon, France). <i>Marine Chemistry</i> , <b>2005</b> , 95, 271-281	3.7	35
43	Vertical distribution and respiration rates of benthic foraminifera: Contribution to aerobic remineralization in intertidal mudflats covered by <i>Zostera noltei</i> meadows. <i>Estuarine, Coastal and Shelf Science</i> , <b>2016</b> , 179, 23-38	2.9	35
42	Effect of light on photosynthetic efficiency of sequestered chloroplasts in intertidal benthic foraminifera (&lt;i>Haynesina germanica&/i> and &lt;i>Ammonia tepida&/i>). <i>Biogeosciences</i> , <b>2016</b> , 13, 2715-2726	4.6	32
41	Temporal variability of live (stained) benthic foraminiferal faunas in a river-dominated shelf □ Faunal response to rapid changes of the river influence (Rhône prodelta, NW Mediterranean). <i>Biogeosciences</i> , <b>2012</b> , 9, 1367-1388	4.6	30

40	Recent sediment transport and deposition in the Cap-Ferret Canyon, South-East margin of Bay of Biscay. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2014</b> , 104, 134-144	2.3	29
39	Two-dimensional distribution of living benthic foraminifera in anoxic sediment layers of an estuarine mudflat (Loire estuary, France). <i>Biogeosciences</i> , <b>2015</b> , 12, 6219-6234	4.6	28
38	Hydrothermal Vent Mussel Habitat Chemistry, Pre- and Post-Eruption at 9°50' North on the East Pacific Rise. <i>Journal of Shellfish Research</i> , <b>2008</b> , 27, 169-175	1	25
37	Assessment of the metal contamination evolution in the Loire estuary using Cu and Zn stable isotopes and geochemical data in sediments. <i>Marine Pollution Bulletin</i> , <b>2019</b> , 143, 12-23	6.7	23
36	Coupling of carbon, nitrogen and oxygen cycles in sediments from a Mediterranean lagoon: a seasonal perspective. <i>Marine Ecology - Progress Series</i> , <b>2007</b> , 346, 45-59	2.6	22
35	Experimental calibration of manganese incorporation in foraminiferal calcite. <i>Geochimica Et Cosmochimica Acta</i> , <b>2018</b> , 237, 49-64	5.5	21
34	Incorporation of Mg and Sr and oxygen and carbon stable isotope fractionation in cultured <i>Ammonia tepida</i> . <i>Marine Micropaleontology</i> , <b>2012</b> , 92-93, 16-28	1.7	21
33	Two dimensional mapping of iron release in marine sediments at submillimetre scale. <i>Marine Chemistry</i> , <b>2017</b> , 191, 34-49	3.7	19
32	Influence of diagenetic processes in Thau lagoon on cadmium behavior and benthic fluxes. <i>Estuarine, Coastal and Shelf Science</i> , <b>2007</b> , 72, 497-510	2.9	18
31	Carbon and nutrient accumulation in tropical mangrove creeks, Amazon region. <i>Marine Geology</i> , <b>2020</b> , 429, 106317	3.3	18
30	Benthic foraminiferal thanatocoenoses from the Cap-Ferret Canyon area (NE Atlantic): A complex interplay between hydro-sedimentary and biological processes. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2014</b> , 104, 145-163	2.3	16
29	SEQUESTERED CHLOROPLASTS IN THE BENTHIC FORAMINIFER <i>HAYNESINA GERMANICA</i> : CELLULAR ORGANIZATION, OXYGEN FLUXES AND POTENTIAL ECOLOGICAL IMPLICATIONS. <i>Journal of Foraminiferal Research</i> , <b>2017</b> , 47, 268-278	1.1	16
28	Artificially induced migration of redox layers in a coastal sediment from the Northern Adriatic. <i>Biogeosciences</i> , <b>2014</b> , 11, 2211-2224	4.6	16
27	In situ study of short-term variations of redox species chemistry in intertidal permeable sediments of the Arcachon lagoon. <i>Hydrobiologia</i> , <b>2012</b> , 699, 69-84	2.4	16
26	Kleptoplastidic benthic foraminifera from aphotic habitats: insights into assimilation of inorganic C, N and S studied with sub-cellular resolution. <i>Environmental Microbiology</i> , <b>2019</b> , 21, 125-141	5.2	16
25	Solid-State Au/Hg Microelectrode for the Investigation of Fe and Mn Cycling in a Freshwater Wetland: Implications for Methane Production. <i>Electroanalysis</i> , <b>2008</b> , 20, 233-239	3	15
24	Simultaneous Nitrite/Nitrate Imagery at Millimeter Scale through the Water-Sediment Interface. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 8188-95	10.3	15
23	Survival, Reproduction and Calcification of Three Benthic Foraminiferal Species in Response to Experimentally Induced Hypoxia. <i>Environmental Science and Engineering</i> , <b>2014</b> , 163-193	0.2	14

22	Manganese, iron and phosphorus cycling in an estuarine mudflat, Loire, France. <i>Journal of Sea Research</i> , <b>2016</b> , 118, 92-102	1.9	14
21	Millimeter-scale alkalinity measurement in marine sediment using DET probes and colorimetric determination. <i>Water Research</i> , <b>2013</b> , 47, 5575-83	12.5	12
20	Live (Stained) Benthic Foraminifera Off Walvis Bay, Namibia: A Deep-Sea Ecosystem under the Influence of Bottom Nepheloid Layers. <i>Journal of Foraminiferal Research</i> , <b>2013</b> , 43, 55-71	1.1	12
19	Live (stained) benthic foraminifera from the Cap-Ferret Canyon (Bay of Biscay, NE Atlantic): A comparison between the canyon axis and the surrounding areas. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2013</b> , 74, 98-114	2.5	11
18	Nutrient regeneration susceptibility under contrasting sedimentary conditions from the Rio de Janeiro coast, Brazil. <i>Marine Pollution Bulletin</i> , <b>2016</b> , 108, 297-302	6.7	11
17	Particles transformation in estuaries: Fe, Mn and REE signatures through the Loire Estuary. <i>Journal of Sea Research</i> , <b>2016</b> , 118, 103-112	1.9	9
16	Response of a kleptoplastidic foraminifer to heterotrophic starvation: photosynthesis and lipid droplet biogenesis. <i>FEMS Microbiology Ecology</i> , <b>2019</b> , 95,	4.3	7
15	Benthic oxygen exchange over a heterogeneous <i>Zostera noltei</i> meadow in a temperate coastal ecosystem. <i>Marine Ecology - Progress Series</i> , <b>2016</b> , 543, 55-71	2.6	7
14	Two-dimensional ammonium distribution in sediment pore waters using a new colorimetric diffusive equilibration in thin-film technique. <i>Water Research X</i> , <b>2019</b> , 2, 100023	8.1	5
13	Transient early diagenetic processes in Rhe prodelta sediments revealed in contrasting flood events. <i>Continental Shelf Research</i> , <b>2018</b> , 166, 65-76	2.4	5
12	The impact of induced redox transitions on nutrient diagenesis in coastal marine sediments (Gulf of Trieste, northern Adriatic Sea). <i>Journal of Soils and Sediments</i> , <b>2015</b> , 15, 2443-2452	3.4	5
11	Biogeochemistry in an intertidal pocket beach. <i>Estuarine, Coastal and Shelf Science</i> , <b>2020</b> , 243, 106920	2.9	5
10	2D Image Quantification of Microbial Iron Chelators (Siderophores) Using Diffusive Equilibrium in Thin Films Method. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 1399-1407	7.8	5
9	Differential manganese and iron recycling and transport in continental margin sediments of the Northern Gulf of Mexico. <i>Marine Chemistry</i> , <b>2021</b> , 229, 103908	3.7	5
8	Denitrification by benthic foraminifera and their contribution to N-loss from a fjord environment. <i>Biogeosciences</i> , <b>2021</b> , 18, 327-341	4.6	4
7	A multiscale study of mercury transformations and dynamics at the chemocline of the Petit-Saut tropical reservoir (French Guiana). <i>Science of the Total Environment</i> , <b>2018</b> , 630, 1401-1412	10.2	3
6	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?. <i>Frontiers in Marine Science</i> , <b>2021</b> , 8,	4.5	2
5	Seasonal changes in metal and nutrient fluxes across the sediment-water interface in tropical mangrove creeks in the Amazon region. <i>Applied Geochemistry</i> , <b>2022</b> , 138, 105217	3.5	1

4	2D distribution of <i>Pseudomonas fluorescens</i> activities at the soil-root interface of sunflower grown on vineyard soils: Effects on copper uptake. <i>Soil Biology and Biochemistry</i> , <b>2021</b> , 163, 108462	7.5	1
3	Coupling between sediment biogeochemistry and phytoplankton development in a temperate freshwater marsh (Charente-Maritime, France): Evidence of temporal pattern. <i>Water Research</i> , <b>2021</b> , 189, 116567	12.5	1
2	New evidence of perfect overlapping of Haploops and pockmarks field: Is it a coincidence?. <i>Marine Geology</i> , <b>2019</b> , 415, 105961	3.3	0
1	Pore water trace metal chemistry in polluted sediments of a tropical estuary of SE Brazil. <i>Diqiu Huaxue</i> , <b>2006</b> , 25, 66-67		