

# Edouard Metzger

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | 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         |
| 56 | 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         |
| 55 | 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         |
| 54 | 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         |
| 53 | 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         |
| 52 | 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         |
| 51 | Carbon and nutrient accumulation in tropical mangrove creeks, Amazon region. <i>Marine Geology</i> , <b>2020</b> , 429, 106317   | 3.3  | 18        |
| 50 | Biogeochemistry in an intertidal pocket beach. <i>Estuarine, Coastal and Shelf Science</i> , <b>2020</b> , 243, 106920   | 2.9  | 5         |
| 49 | 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        |
| 48 | 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         |
| 47 | 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         |
| 46 | 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         |
| 45 | 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         |
| 44 | 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        |
| 43 | 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         |
| 42 | 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         |
| 41 | Experimental calibration of manganese incorporation in foraminiferal calcite. <i>Geochimica Et Cosmochimica Acta</i> , <b>2018</b> , 237, 49-64  | 5.5  | 21        |

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| 40 | 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 |
| 39 | SEQUESTERED CHLOROPLASTS IN THE BENTHIC FORAMINIFERHAYNESINA GERMANICA: CELLULAR ORGANIZATION, OXYGEN FLUXES AND POTENTIAL ECOLOGICAL IMPLICATIONS. <i>Journal of Foraminiferal Research</i> , <b>2017</b> , 47, 268-278                                    | 1.1  | 16 |
| 38 | 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  |
| 37 | Effect of light on photosynthetic efficiency of sequestered chloroplasts in intertidal benthic foraminifera (&i&tHaynesina germanica&/i&t; and &i&tAmmonia tepida&/i&t;). <i>Biogeosciences</i> , <b>2016</b> , 13, 2715-2726                               | 4.6  | 32 |
| 36 | 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 |
| 35 | 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 |
| 34 | 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  |
| 33 | 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 |
| 32 | 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 |
| 31 | 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  |
| 30 | 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 |
| 29 | 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 |
| 28 | 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 |
| 27 | 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 |
| 26 | Experimental evidence for foraminiferal calcification under anoxia. <i>Biogeosciences</i> , <b>2014</b> , 11, 4029-4038   | 4.6  | 35 |
| 25 | 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 |
| 24 | 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 |
| 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 |

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| 22 | 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  |
| 21 | 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  |
| 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 | Foraminiferal survival after long-term in situ experimentally induced anoxia. <i>Biogeosciences</i> , <b>2013</b> , 10, 7463-7480  | 4.6  | 53  |
| 18 | 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  |
| 17 | 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  |
| 16 | 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  |
| 15 | Temporal variability of live (stained) benthic foraminiferal faunas in a river-dominated shelf □ Faunal response to rapid changes of the river influence (Rh e prodelta, NW Mediterranean). <i>Biogeosciences</i> , <b>2012</b> , 9, 1367-1388         | 4.6  | 30  |
| 14 | 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  |
| 13 | Live (stained) benthic foraminifera from the Rh e 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  |
| 12 | Modeling biogeochemical processes in sediments from the Rh e River prodelta area (NW Mediterranean Sea). <i>Biogeosciences</i> , <b>2011</b> , 8, 1351-1366  | 4.6  | 36  |
| 11 | 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  |
| 10 | Influence of the organic matter composition on benthic oxygen demand in the Rh e River prodelta (NW Mediterranean Sea). <i>Continental Shelf Research</i> , <b>2011</b> , 31, 1008-1019  | 2.4  | 49  |
| 9  | 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  |
| 8  | 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  |
| 7  | 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 |
| 6  | 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  |
| 5  | 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  |

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| 4 | 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 |
| 3 | 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 |
| 2 | 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  |     |    |
| 1 | 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 |