Stephane Mounier

List of Publications by Citations

97 papers	1,939 citations	24 h-index	40 g-index
109 ext. papers	2,347 ext. citations	5.5 avg, IF	4.73 L-index

#	Paper	IF	Citations
97	Excitation-emission fluorescence matrix to study pH influence on organic matter fluorescence in the Amazon basin rivers. *Water Research*, **2002**, 36, 2571-81	12.5	150
96	Study of the spatial and historical distribution of sediment inorganic contamination in the Toulon bay (France). *Marine Pollution Bulletin*, **2011**, 62, 2075-86	6.7	109
95	Differentiation of organic matter's properties of the Rio Negro basin by cross-flow ultra-filtration and UV-spectrofluorescence. *Water Research*, **1999**, 33, 2363-2373	12.5	83
94	Identification and quantification of known polycyclic aromatic hydrocarbons and pesticides in complex mixtures using fluorescence excitation-emission matrices and parallel factor analysis. *Chemosphere*, **2014**, 107, 344-353	8.4	70
93	Dynamics and fates of trace metals chronically input in a Mediterranean coastal zone impacted by a large urban area. *Marine Pollution Bulletin*, **2013**, 69, 137-49	6.7	69
92	Fluorescence 3D de la matière organique dissoute du fleuve amazone. *Water Research*, **1999**, 33, 1523-1533	12.5	65
91	Seasonal variations of coastal sedimentary trace metals cycling: insight on the effect of manganese and iron (oxy)hydroxides, sulphide and organic matter. *Marine Pollution Bulletin*, **2015**, 92, 113-124	6.7	64
90	Kinetic and equilibrium studies of copper-dissolved organic matter complexation in water column of the stratified Krka River estuary (Croatia). *Marine Chemistry*, **2009**, 114, 110-119	3.7	64
89	A simple correction method of inner filter effects affecting FEEM and its application to the PARAFAC decomposition. *Chemometrics and Intelligent Laboratory Systems*, **2009**, 96, 227-238	3.8	60
88	Tracing of dissolved organic matter from the Sepetiba Bay (Brazil) by PARAFAC analysis of total luminescence matrices. *Marine Environmental Research*, **2008**, 65, 148-57	3.3	57
87	A comparison of extraction procedures for water-extractable organic matter in soils. *European Journal of Soil Science*, **2014**, 65, 520-530	3.4	47
86	Evidencing the Impact of Coastal Contaminated Sediments on Mussels Through Pb Stable Isotopes Composition. *Environmental Science & Technology*, **2015**, 49, 11438-48	10.3	45
85	Distribution and chemical speciation of arsenic and heavy metals in highly contaminated waters used for health care purposes (Srebrenica, Bosnia and Herzegovina). *Science of the Total Environment*, **2013**, 443, 420-8	10.2	45
84	Copper complexing properties of dissolved organic matter: PARAFAC treatment of fluorescence quenching. *Biogeochemistry*, **2011**, 106, 107-116	3.8	45
83	Characterisation and modelling of marine dissolved organic matter interactions with major and trace cations. *Marine Environmental Research*, **2009**, 67, 100-7	3.3	45
82	Influence of the type of titration and of data treatment methods on metal complexing parameters determination of single and multi-ligand systems measured by stripping voltammetry. *Analytica Chimica Acta*, **2004**, 505, 263-275	6.6	43
81	Microplastics in seawater: sampling strategies, laboratory methodologies, and identification techniques applied to port environment. *Environmental Science and Pollution Research*, **2020**, 27, 8938-8952	5.1	42

80	Effects of UV-visible irradiation on natural organic matter from the Amazon basin. *Science of the Total Environment*, **2004**, 321, 231-9	10.2	36
79	Carbon and metal concentrations, size distributions and fluxes in major rivers of the Amazon basin. *Hydrological Processes*, **2003**, 17, 1363-1377	3.3	34
78	Key parameters controlling arsenic dynamics in coastal sediments: An analytical and modeling approach. *Marine Chemistry*, **2014**, 161, 34-46	3.7	33
77	Speciation of trace metals in natural waters: the influence of an adsorbed layer of natural organic matter (NOM) on voltammetric behaviour of copper. *Analytica Chimica Acta*, **2008**, 606, 37-44	6.6	32
76	Copper and cadmium effects on growth and extracellular exudation of the marine toxic dinoflagellate Alexandrium catenella: 3D-fluorescence spectroscopy approach. *Chemosphere*, **2013**, 93, 1230-9	8.4	31
75	Sedimentary dynamics of coastal organic matter: An assessment of the porewater size/reactivity model by spectroscopic techniques. *Estuarine, Coastal and Shelf Science*, **2014**, 151, 100-111	2.9	28
74	Humic extracts of hydrochar and Amazonian Dark Earth: Molecular characteristics and effects on maize seed germination. *Science of the Total Environment*, **2020**, 708, 135000	10.2	25
73	The importance of humin in soil characterisation: A study on Amazonian soils using different fluorescence techniques. *Science of the Total Environment*, **2015**, 537, 152-8	10.2	24
72	Organic carbon, and major and trace element dynamic and fate in a large river subjected to poorly-regulated urban and industrial pressures (Sebou River, Morocco). *Science of the Total Environment*, **2015**, 502, 296-308	10.2	22
71	Biogeochemistry of an Amazonian podzol-ferralsol soil system with white kaolin. *Biogeosciences*, **2012**, 9, 3705-3720	4.6	22
70	Significance of data treatment and experimental setup on the determination of copper complexing parameters by anodic stripping voltammetry. *Analytica Chimica Acta*, **2010**, 664, 136-43	6.6	22
69	Humic-like acids from hydrochars: Study of the metal complexation properties compared with humic acids from anthropogenic soils using PARAFAC and time-resolved fluorescence. *Science of the Total Environment*, **2020**, 722, 137815	10.2	21
68	Fluxes of dissolved and colloidal organic carbon, along the Purus and Amazonas rivers (Brazil). *Science of the Total Environment*, **1999**, 229, 53-64	10.2	21
67	Study of interactions of concentrated marine dissolved organic matter with copper and zinc by pseudopolarography. *Analytica Chimica Acta*, **2008**, 618, 35-42	6.6	19
66	Copper and mercury complexing capacity of organic matter from a mangrove mud flat environment, Sepetiba Bay, Brazil. *Bulletin of Environmental Contamination and Toxicology*, **2001**, 67, 519-25	2.7	19
65	Impact of rapid urbanisation and industrialisation on river sediment metal contamination. *Environmental Monitoring and Assessment*, **2014**, 186, 2851-65	3.1	18
64	Influence of dissolved organic carbon content on modelling natural organic matter acid-base properties. *Water Research*, **2004**, 38, 3685-92	12.5	18
63	Evaluation and modelling of dissolved organic matter reactivity toward As(III) and As(V) □ implication in environmental arsenic speciation. *Talanta*, **2015**, 134, 530-537	6.2	17

62	Soil organic matter in podzol horizons of the Amazon region: Humification, recalcitrance, and dating. *Science of the Total Environment*, **2018**, 613-614, 160-167	10.2	17
61	From canals to the coast: dissolved organic matter and trace metal composition in rivers draining degraded tropical peatlands in Indonesia. *Biogeosciences*, **2020**, 17, 1897-1909	4.6	15
60	Quantitative model of carbon and nitrogen isotope composition to highlight phosphorus cycling and sources in coastal sediments (Toulon Bay, France). *Chemosphere*, **2018**, 195, 683-692	8.4	15
59	In situ and laboratory non-additive litter mixture effect on C dynamics of Sphagnum rubellum and Molinia caerulea litters. *Journal of Soils and Sediments*, **2016**, 16, 13-27	3.4	15
58	Dissolved mercury concentrations and reactivity in mangrove waters from the Itacurussa Experimental Forest, Sepetiba Bay, SE Brazil. *Wetlands Ecology and Management*, **2001**, 9, 323-331	2.1	15
57	Solid phase extraction applied to natural waters: efficiency and selectivity. *Organic Geochemistry*, **2000**, 31, 127-131	3.1	14
56	How to correct inner filter effects altering 3D fluorescence spectra by using a mirrored cell. *Chemometrics and Intelligent Laboratory Systems*, **2013**, 126, 91-99	3.8	13
55	An adapted sequential chemical fractionation coupled with UV and fluorescence spectroscopy for calcareous soil organic matter study after compost amendment. *Microchemical Journal*, **2016**, 124, 139-148	4.8	12
54	Three-dimensional (3-D) fluorescence spectroscopy analysis of the fluorescent dissolved organic matter released by the marine toxic dinoflagellate Alexandrium catenella exposed to metal stress by zinc or lead. *Journal of Phycology*, **2014**, 50, 665-74	3	12
53	Sorption of selenate on soils and pure phases: kinetic parameters and stabilisation. *Journal of Environmental Radioactivity*, **2011**, 102, 843-51	2.4	11
52	Grassland-cropland rotation cycles in crop-livestock farming systems regulate priming effect potential in soils through modulation of microbial communities, composition of soil organic matter and abiotic soil properties. *Agriculture, Ecosystems and Environment*, **2020**, 299, 106973	5.7	11
51	Kinetics of selenate sorption in soil as influenced by biotic and abiotic conditions: a stirred flow-through reactor study. *Journal of Environmental Radioactivity*, **2014**, 138, 38-49	2.4	10
50	Spatio-temporal variability of fluorescent dissolved organic matter in the Rhône River delta and the Fos-Marseille marine area (NW Mediterranean Sea, France). *Environmental Science and Pollution Research*, **2017**, 24, 4973-4989	5.1	9
49	Identification of citrus varieties using laser-induced fluorescence spectroscopy (LIFS). *Computers and Electronics in Agriculture*, **2013**, 95, 11-18	6.5	9
48	Mercury speciation changes in waters of the sepetiba Bay, SE Brazil during tidal events and different seasons. *Journal of the Brazilian Chemical Society*, **2007**, 18, 1259-1269	1.5	9
47	Mercury distribution and reactivity in waters of a subtropical coastal lagoon, Sepetiba Bay, SE Brazil. *Journal of the Brazilian Chemical Society*, **2001**, 12, 93	1.5	9
46	Kinetic processes of copper and lead remobilization during sediment resuspension of marine polluted sediments. *Science of the Total Environment*, **2020**, 698, 134120	10.2	9
45	Modifications of the soluble proteome of a mediterranean strain of the invasive neurotoxic dinoflagellate Alexandrium catenella under metal stress conditions. *Aquatic Toxicology*, **2017**, 188, 80-91	5.1	8

44	Distribution and diagenesis of trace metals in marine sediments of a coastal Mediterranean area: St Georges Bay (Lebanon). *Marine Pollution Bulletin*, **2020**, 155, 111066	6.7	8
43	Long-term monitoring emphasizes impacts of the dredging on dissolved Cu and Pb contamination along with ultraplankton distribution and structure in Toulon Bay (NW Mediterranean Sea, France). *Marine Pollution Bulletin*, **2020**, 156, 111196	6.7	8
42	Fluorescence lifetime evaluation of whole soils from the Amazon rainforest. *Applied Optics*, **2017**, 56, 6936-6941	1.7	8
41	Time-resolved laser fluorescence spectroscopy of organic ligands by europium: Fluorescence quenching and lifetime properties. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2018**, 193, 219-225	4.4	8
40	Natural superficial water storage and aquifer recharge assessment in Brazilian savanna wetland using unmanned aerial vehicle and geophysical survey. *Journal of Unmanned Vehicle Systems*, **2020**, 8, 224-244	2.7	7
39	Dissolved organic matter dynamics in the pristine Krka River estuary (Croatia). *Marine Chemistry*, **2020**, 225, 103848	3.7	7
38	A regularized nonnegative canonical polyadic decomposition algorithm with preprocessing for 3D fluorescence spectroscopy. *Journal of Chemometrics*, **2015**, 29, 253-265	1.6	7
37	Humic extracts from hydrochar and Amazonian Anthrosol: Molecular features and metal binding properties using EEM-PARAFAC and 2D FTIR correlation analyses. *Chemosphere*, **2020**, 256, 127110	8.4	7
36	Modeling the quenching of fluorescence from organic matter in Amazonian soils. *Science of the Total Environment*, **2020**, 698, 134067	10.2	7
35	Direct solid surface fluorescence spectroscopy of standard chemicals and humic acid in ternary system. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2017**, 177, 79-85	4.4	6
34	Uranium isotope geochemistry in modern coastal sediments: Insights from Toulon Bay, France. *Chemical Geology*, **2018**, 481, 133-145	4.2	6
33	Quantification of Microplastics in North-Western Mediterranean Harbors: Seasonality and Biofilm-Related Metallic Contaminants. *Journal of Marine Science and Engineering*, **2021**, 9, 337	2.4	6
32	Evaluation of the roles of metals and humic fractions in the podzolization of soils from the Amazon region using two analytical spectroscopy techniques. *Microchemical Journal*, **2019**, 144, 454-460	4.8	6
31	Effects of catchment area and nutrient deposition regime on phytoplankton functionality in alpine lakes. *Science of the Total Environment*, **2019**, 674, 114-127	10.2	5
30	Physico-chemical and spectroscopic quality assessment of compost from date palm (Phoenix dactylifera L.) waste valorization. *Journal of Environmental Management*, **2020**, 264, 110492	7.9	5
29	Characterization of the fate and changes of post-irradiance fluorescence signal of filtered anthropogenic effluent dissolved organic matter from wastewater treatment plant in the coastal zone of Gapeau river. *Environmental Science and Pollution Research*, **2020**, 27, 23141-23158	5.1	5
28	Structure of Humic Substances from Some Regions of the Amazon Assessed Coupling 3D Fluorescence Spectroscopy and CP/PARAFAC. *Journal of the Brazilian Chemical Society*, **2015**,	1.5	5
27	An analysis of distinguishing composite dissolved metal–ligand systems measurable by stripping voltammetry. *Analytica Chimica Acta*, **2005**, 538, 263-271	6.6	5

26	Total phosphorus determination in eutrophic tropical river sediments by laser-induced breakdown spectroscopy techniques. *Analytical Methods*, **2021**, 13, 77-83	3.2	5
25	Determining the Influence of Urbanization on Mangrove Zones of Northeastern Brazil: Characterization of Ceará State Coastal Zone Organic Matter Inputs. *Coastal Research Library*, **2018**, 199-222	0.4	4
24	Characterization of exudates released by the marine diatom Skeletonema costatum exposed to copper stress: a 3D-fluorescence spectroscopy approach. *BioMetals*, **2013**, 26, 773-81	3.4	4
23	Fluorescence spectroscopy to study dissolved organic matter interactions with agrochemicals applied in Swiss vineyards. *Environmental Science and Pollution Research*, **2015**, 22, 9284-92	5.1	3
22	Étude de la permittivité du sel de seignette en présence d'un champ électrique en forme de créneaux. *Le Journal De Physique Et Le Radium Publication De La Société Française De Physique*, **1966**, 27, 210-212		3
21	Rapid on site assessment of a compost chemical stability parameter by UV and fluorescence spectroscopy coupled with mathematical treatment. *Waste Management*, **2020**, 113, 413-421	8.6	3
20	Fulvic acids from Amazonian anthropogenic soils: Insight into the molecular composition and copper binding properties using fluorescence techniques. *Ecotoxicology and Environmental Safety*, **2020**, 205, 111173	7	3
19	Optimization of laser-induced breakdown spectroscopy parameters from the design of experiments for multi-element qualitative analysis in river sediment. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2021**, 177, 106066	3.1	3
18	Assessing extracted organic matter quality from river sediments by elemental and molecular characterization: Application to the Tietê and Piracicaba Rivers (São Paulo, Brazil). *Applied Geochemistry*, **2021**, 131, 105049	3.5	3
17	UV–Visible and Fluorescence Green Waste Composts Monitoring: Material Dependency. *Compost Science and Utilization*, **2018**, 26, 177-188	1.2	2
16	Identifying the Stoichiometry of Metal/Ligand Complex by Coupling Spectroscopy and Modelling: a Comprehensive Study on Two Fluorescent Molecules Specific to Lead. *Journal of Fluorescence*, **2019**, 29, 933-943	2.4	2
15	Front-face fluorescence spectroscopy of tryptophan and fluorescein using laser induced fluorescence and excitation emission matrix fluorescence. *RSC Advances*, **2017**, 7, 56117-56122	3.7	2
14	Seawater copper content controls biofilm bioaccumulation and microbial community on microplastics.. *Science of the Total Environment*, **2021**, 152278	10.2	2
13	Role of non-fluorescent chromophores in inner filter effect correction and PARAFAC decomposition. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2020**, 229, 117878	4.4	2
12	Modelling of impact of presence/absence of suspended particulate organic matter from river and sea and effluent wastewater on fluorescence signal in the coastal area of Gapeau River. *Environmental Science and Pollution Research*, **2021**, 28, 36707-36726	5.1	2
11	Chelating properties of humic-like substances obtained from process water of hydrothermal carbonization. *Environmental Technology and Innovation*, **2021**, 23, 101688	7	2
10	Have decades of abiotic studies in sediments been misinterpreted?. *Science of the Total Environment*, **2020**, 707, 135949	10.2	1
9	Impact of thermal treatment on bentonite retention ability toward nickel and silver retention. *Separation Science and Technology*, **2021**, 56, 2521-2531	2.5	1

List of Publications

8	In-Situ Variability of DOM in Relation with Biogeochemical and Physical Parameters in December 2017 in Laucala Bay (Fiji Islands) after a Strong Rain Event. *Journal of Marine Science and Engineering*, **2021**, 9, 241	2.4	1
7	Tropical mangrove forests as a source of dissolved rare earth elements and yttrium to the ocean. *Chemical Geology*, **2021**, 576, 120278	4.2	1
6	Negligible microbial heterotrophic quantitative contribution onto trace metals remobilization during marine sediment resuspension - insights from a Mediterranean urbanized bay. *Marine Chemistry*, **2021**, 234, 103981	3.7	1
5	Direct determination of Cu, Cr, and Ni in river sediments samples using double pulse laser-induced breakdown spectroscopy: Ecological risk and pollution level assessment.. *Science of the Total Environment*, **2022**, 155699	10.2	1
4	Cd transfers during marine sediment resuspension over short and long-term period: Associated risk for coastal water quality. *Marine Pollution Bulletin*, **2022**, 180, 113771	6.7	0
3	Rapid Enzymatic Method for the Enumeration of Fecal Enterococci in Seawater **2010**, 273-275		
2	The Use of 3-D Fluorescence and Its Decomposition in Environmental Organic Matter Studies **2018**, 1-16		
1	Online Nonnegative and Sparse Canonical Polyadic Decomposition of Fluorescence Tensors. *Chemometrics and Intelligent Laboratory Systems*, **2022**, 104550	3.8	