

Francoise Elbaz-Poulichet

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82
papers

4,957
citations

42
h-index

69
g-index

85
ext. papers

5,415
ext. citations

6.2
avg, IF

5.02
L-index

#	Paper	IF	Citations
82	Marine ecosystems responses to climatic and anthropogenic forcings in the Mediterranean. <i>Progress in Oceanography</i> , 2011 , 91, 97-166	3.8	277
81	Consequences of treated water recycling as regards pharmaceuticals and drugs in surface and ground waters of a medium-sized Mediterranean catchment. <i>Environmental Science & Technology</i> , 2006 , 40, 5282-8	10.3	261
80	Bacterial formation of tooeleite and mixed arsenic(III) or arsenic(V)-iron(III) gels in the Carnoulès acid mine drainage, France. A XANES, XRD, and SEM study. <i>Environmental Science & Technology</i> , 2003 , 37, 1705-12	10.3	170
79	4,500-YEAR-OLD MINING POLLUTION IN SOUTHWESTERN SPAIN: LONG-TERM IMPLICATIONS FOR MODERN MINING POLLUTION. <i>Economic Geology</i> , 2000 , 95, 655-662	4.3	169
78	Bacterial immobilization and oxidation of arsenic in acid mine drainage (Carnoulès creek, France). <i>Water Research</i> , 2003 , 37, 2929-36	12.5	148
77	River versus atmospheric input of material to the mediterranean sea: an overview. <i>Marine Chemistry</i> , 1989 , 28, 159-182	3.7	143
76	Lead cycling in estuaries, illustrated by the Gironde estuary, France. <i>Nature</i> , 1984 , 308, 409-414	50.4	142
75	Preliminary assessment of the distributions of some trace elements (As, Cd, Cu, Fe, Ni, Pb and Zn) in a pristine aquatic environment: The Lena River estuary (Russia). <i>Marine Chemistry</i> , 1993 , 43, 185-199	3.7	141
74	Dissolved Cd behaviour in some selected french and chinese estuaries. Consequences on Cd supply to the ocean. <i>Marine Chemistry</i> , 1987 , 22, 125-136	3.7	131
73	Metabolic diversity among main microorganisms inside an arsenic-rich ecosystem revealed by meta- and proteo-genomics. <i>ISME Journal</i> , 2011 , 5, 1735-47	11.9	128
72	Metal geochemistry in a mine-polluted estuarine system in Spain. <i>Applied Geochemistry</i> , 2003 , 18, 1757-1771	3.7	125
71	Occurrence of an anthropogenic gadolinium anomaly in river and coastal waters of southern France. <i>Water Research</i> , 2002 , 36, 1102-5	12.5	121
70	Diversity of microorganisms in Fe-As-rich acid mine drainage waters of Carnoulès, France. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 551-6	4.8	116
69	Antimony and arsenic mobility in a creek draining an antimony mine abandoned 85 years ago (upper Orb basin, France). <i>Applied Geochemistry</i> , 2007 , 22, 788-798	3.5	113
68	Metal biogeochemistry in the Tinto and Odiel rivers (Southern Spain) and in the Gulf of Cadiz: a synthesis of the results of TOROS project. <i>Continental Shelf Research</i> , 2001 , 21, 1961-1973	2.4	108
67	Positive gadolinium anomalies in wastewater treatment plant effluents and aquatic environment in the Hérault watershed (South France). <i>Chemosphere</i> , 2009 , 75, 1057-64	8.4	101
66	Persisting impact of historical mining activity to metal (Pb, Zn, Cd, Tl, Hg) and metalloid (As, Sb) enrichment in sediments of the Gardon River, Southern France. <i>Science of the Total Environment</i> , 2014 , 481, 509-21	10.2	97

65	Trace metal and nutrient distribution in an extremely low pH (2.5) river estuarine system, the Ria of Huelva (South West Spain). <i>Science of the Total Environment</i> , 1999 , 227, 73-83	10.2	94
64	Immobilization of arsenite and ferric iron by <i>Acidithiobacillus ferrooxidans</i> and its relevance to acid mine drainage. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 6165-73	4.8	93
63	Stable lead isotopes ratios in major french rivers and estuaries. <i>Science of the Total Environment</i> , 1986 , 54, 61-76	10.2	89
62	Mediation of arsenic oxidation by <i>Thiomonas</i> sp. in acid-mine drainage (Carnoulès, France). <i>Journal of Applied Microbiology</i> , 2003 , 95, 492-9	4.7	84
61	Kinetic control on the formation of tooeleite, schwertmannite and jarosite by <i>Acidithiobacillus ferrooxidans</i> strains in an As(III)-rich acid mine water. <i>Chemical Geology</i> , 2009 , 265, 432-441	4.2	83
60	The Conservative Behaviour of Trace Metals (Cd, Cu, Ni and Pb) and As in the Surface Plume of Stratified Estuaries: Example of the Rhône River (France). <i>Estuarine, Coastal and Shelf Science</i> , 1996 , 42, 289-310	2.9	83
59	Hydrological and geochemical control of metals and arsenic in a Mediterranean river contaminated by acid mine drainage (the Amous River, France); preliminary assessment of impacts on fish (<i>Leuciscus cephalus</i>). <i>Applied Geochemistry</i> , 2009 , 24, 787-799	3.5	79
58	Behaviour of rare earth elements at the freshwater-seawater interface of two acid mine rivers: the Tinto and Odiel (Andalucia, Spain). <i>Applied Geochemistry</i> , 1999 , 14, 1063-1072	3.5	74
57	Predominance of aqueous Tl(I) species in the river system downstream from the abandoned Carnoulès mine (Southern France). <i>Environmental Science & Technology</i> , 2011 , 45, 2056-64	10.3	73
56	A 3500-year record of Hg and Pb contamination in a mediterranean sedimentary archive (the Pierre Blanche Lagoon, France). <i>Environmental Science & Technology</i> , 2011 , 45, 8642-7	10.3	72
55	Dissolved and bioavailable contaminants in the Seine river basin. <i>Science of the Total Environment</i> , 2007 , 375, 244-56	10.2	69
54	Sorption and redox processes controlling arsenic fate and transport in a stream impacted by acid mine drainage. <i>Science of the Total Environment</i> , 2005 , 347, 122-30	10.2	67
53	Metal fluxes through the Strait of Gibraltar: the influence of the Tinto and Odiel rivers (SW Spain). <i>Marine Chemistry</i> , 2001 , 73, 193-213	3.7	67
52	Atmospheric versus river inputs of metals to the Gulf of Lions. <i>Marine Pollution Bulletin</i> , 1991 , 22, 176-183	3.7	66
51	Characterization of the active bacterial community involved in natural attenuation processes in arsenic-rich creek sediments. <i>Microbial Ecology</i> , 2011 , 61, 793-810	4.4	61
50	Influence of sorption processes by iron oxides and algae fixation on arsenic and phosphate cycle in an acidic estuary (Tinto river, Spain). <i>Water Research</i> , 2000 , 34, 3222-3230	12.5	60
49	Short-term variability of dissolved trace element concentrations in the Marne and Seine rivers near Paris. <i>Science of the Total Environment</i> , 2006 , 367, 278-87	10.2	57
48	<i>Thermodesulfovibrio hydrogeniphilus</i> sp. nov., a new thermophilic sulphate-reducing bacterium isolated from a Tunisian hot spring. <i>Systematic and Applied Microbiology</i> , 2008 , 31, 38-42	4.2	56

47	Arsenic oxidation and bioaccumulation by the acidophilic protozoan, <i>Euglena mutabilis</i> , in acid mine drainage (Carnoulès, France). <i>Science of the Total Environment</i> , 2004 , 320, 259-67	10.2	56
46	Inorganic arsenic speciation at river basin scales: the Tinto and Odiel rivers in the Iberian Pyrite Belt, SW Spain. <i>Environmental Pollution</i> , 2009 , 157, 1202-9	9.3	55
45	Diversity and spatiotemporal dynamics of bacterial communities: physicochemical and other drivers along an acid mine drainage. <i>FEMS Microbiology Ecology</i> , 2014 , 90, 247-63	4.3	51
44	Impact of Los Frailes mine spill on riverine, estuarine and coastal waters in southern Spain. <i>Water Research</i> , 1999 , 33, 3387-3394	12.5	51
43	Trace element geochemistry in the upper Amazon drainage basin (Bolivia). <i>Chemical Geology</i> , 1999 , 157, 319-334	4.2	45
42	A reassessment of trace metal budgets in the Western Mediterranean Sea. <i>Marine Pollution Bulletin</i> , 2001 , 42, 623-7	6.7	44
41	An updated insight into the natural attenuation of As concentrations in Reigous Creek (southern France). <i>Applied Geochemistry</i> , 2010 , 25, 1949-1957	3.5	42
40	Trace elements in the sediments of a large Mediterranean marina (Port Camargue, France): levels and contamination history. <i>Marine Pollution Bulletin</i> , 2013 , 73, 78-85	6.7	41
39	Desulfotomaculum hydrothermale sp. nov., a thermophilic sulfate-reducing bacterium isolated from a terrestrial Tunisian hot spring. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2008 , 58, 2529-35	2.2	41
38	Microbial Diversity in a Pyrite-Rich Tailings Impoundment (Carnoulès, France). <i>Geomicrobiology Journal</i> , 2005 , 22, 249-257	2.5	41
37	Archaeal diversity in a Fe-As rich acid mine drainage at Carnoulès (France). <i>Extremophiles</i> , 2008 , 12, 563-71		40
36	Three-year survey of sulfate-reducing bacteria community structure in Carnoulès acid mine drainage (France), highly contaminated by arsenic. <i>FEMS Microbiology Ecology</i> , 2013 , 83, 724-37	4.3	37
35	Archaeal diversity: temporal variation in the arsenic-rich creek sediments of Carnoulès Mine, France. <i>Extremophiles</i> , 2012 , 16, 645-57	3	36
34	Sedimentary record of redox-sensitive elements (U, Mn, Mo) in a transitory anoxic basin (the Thau lagoon, France). <i>Marine Chemistry</i> , 2005 , 95, 271-281	3.7	35
33	Deciphering the presence of wastewater in a medium-sized Mediterranean catchment using a multitracer approach. <i>Applied Geochemistry</i> , 2005 , 20, 1587-1596	3.5	34
32	Geochemical Processes Controlling the Formation of As-Rich Waters Within a Tailings Impoundment (Carnoulès, France). <i>Aquatic Geochemistry</i> , 2003 , 9, 273-290	1.7	31
31	A Michaelis-Menten type equation for describing methylmercury dependence on inorganic mercury in aquatic sediments. <i>Biogeochemistry</i> , 2014 , 119, 35-43	3.8	27
30	Iron isotopes in acid mine waters and iron-rich solids from the Tinto-Odiel Basin (Iberian Pyrite Belt, Southwest Spain). <i>Chemical Geology</i> , 2008 , 253, 162-171	4.2	26

29	Variation of dissolved and particulate metal(loid) (As, Cd, Pb, Sb, Tl, Zn) concentrations under varying discharge during a Mediterranean flood in a former mining watershed, the Gardon River (France). <i>Journal of Geochemical Exploration</i> , 2015 , 158, 132-142	3.8	25
28	Trace metal behaviour in a highly stratified Mediterranean estuary: the Krka (Yugoslavia). <i>Marine Chemistry</i> , 1991 , 32, 211-224	3.7	25
27	Mercury in the Tinto-Odiel Estuarine System (Gulf of Cádiz, Spain): Sources and Dispersion. <i>Aquatic Geochemistry</i> , 2001 , 7, 1-12	1.7	24
26	Consequences of contaminant mixture on the dynamics and functional diversity of bacterioplankton in a southwestern Mediterranean coastal ecosystem. <i>Chemosphere</i> , 2016 , 144, 1060-73	8.4	23
25	Antimony isotopic composition in river waters affected by ancient mining activity. <i>Talanta</i> , 2015 , 144, 851-61	6.2	21
24	Major ion chemistry of groundwaters in the Continental Terminal water table of southwestern Niger (Africa). <i>Applied Geochemistry</i> , 2002 , 17, 1343-1349	3.5	21
23	Biogeochemical control on the temporal variability of trace element concentrations in the Oubangui river (Central African Republic). <i>Journal of Hydrology</i> , 1996 , 180, 319-332	6	20
22	Assessment of copper bioavailability and toxicity in vineyard runoff waters by DPASV and algal bioassay. <i>Science of the Total Environment</i> , 2005 , 348, 82-92	10.2	19
21	The Distribution of Redox Sensitive Elements (U, As, Sb, V and Mo) along a River-Wetland-Lake System (Balaton Region, Hungary). <i>Aquatic Geochemistry</i> , 1997 , 3, 267-282	1.7	18
20	Influence of diagenetic processes in Thau lagoon on cadmium behavior and benthic fluxes. <i>Estuarine, Coastal and Shelf Science</i> , 2007 , 72, 497-510	2.9	18
19	A new bacterial strain mediating As oxidation in the Fe-rich biofilm naturally growing in a groundwater Fe treatment pilot unit. <i>Chemosphere</i> , 2006 , 64, 492-6	8.4	18
18	C18 Sep-Pak extractable trace metals in waters from the Gulf of Lions. <i>Marine Chemistry</i> , 1994 , 46, 67-75	3.7	17
17	Contrasted responses of <i>Ruditapes decussatus</i> (filter and deposit feeding) and <i>Loripes lacteus</i> (symbiotic) exposed to polymetallic contamination (Port-Camargue, France). <i>Science of the Total Environment</i> , 2015 , 505, 526-34	10.2	16
16	Behaviour of butyltin compounds in the sediment pore waters of a contaminated marina (Port Camargue, South of France). <i>Chemosphere</i> , 2016 , 150, 123-129	8.4	16
15	Chemical speciation of dissolved Cu, Ni, and Co in a contaminated estuary in southwest Spain and its influence on plankton communities. <i>Environmental Science & Technology</i> , 2007 , 41, 4214-20	10.3	15
14	Fate of Sb(V) and Sb(III) species along a gradient of pH and oxygen concentration in the Carnoulès mine waters (Southern France). <i>Environmental Sciences: Processes and Impacts</i> , 2013 , 15, 1536-44	4.3	14
13	A 10,000-year record of trace metal and metalloid (Cu, Hg, Sb, Pb) deposition in a western Alpine lake (Lake Robert, France): Deciphering local and regional mining contamination. <i>Quaternary Science Reviews</i> , 2020 , 228, 106076	3.9	13
12	Organotin in a medium-size Mediterranean basin (the Herault River). <i>Journal of Environmental Monitoring</i> , 2008 , 10, 638-47		10

11	Trace-Metal Biogeochemistry in the Mediterranean Thau Lagoon, a Shellfish Farming Area. <i>Journal of Coastal Research</i> , 2008 , 4, 194-202	0.6	9
10	The environmental legacy of historic Pb-Zn-Ag-Au mining in river basins of the southern edge of the Massif Central (France). <i>Environmental Science and Pollution Research</i> , 2017 , 24, 20725-20735	5.1	7
9	Reverse Oxidation Zoning in Mine Tailings Generating Arsenic-rich Acidic Waters (Carnoulès, France). <i>Mine Water and the Environment</i> , 2003 , 22, 7-14	2.4	7
8	Sedimentary record of V, U, Mo and Mn in the Pierre-Blanche lagoon (Southern France) [Evidence for a major anoxia event during the Roman period. <i>Holocene</i> , 2014 , 24, 1384-1392	2.6	6
7	River Inputs of Metals and Arsenic. <i>Handbook of Environmental Chemistry</i> , 2005 , 211-235	0.8	6
6	Deciphering As and Cu cycling in sediment pore waters in a large marina (Port Camargue, southern France) using a multi-tracer (Fe, Mn, U, Mo) approach. <i>Applied Geochemistry</i> , 2016 , 66, 242-249	3.5	4
5	Arsenic removal by oxidizing bacteria in a heavily arsenic-contaminated acid mine drainage system (Carnoulès, France). <i>Geological Society Special Publication</i> , 2002 , 198, 267-274	1.7	4
4	Quality of water resources in the Niger basin and in the region of Lagos (Nigeria). <i>Bulletin of Geography, Physical Geography Series</i> , 2017 , 13, 51-60	0.9	3
3	Biogeochemistry of trace metals (Mn, Sr, Rb, Ba, Cu, Zn, Pb and Cd) in a river-wetland-lake system (Balaton Region, Hungary). <i>Aquatic Geochemistry</i> , 1997 , 2, 379-402	1.7	3
2	Biogeochemical cycle and speciation of As and Cr in an acid mine environment : The case of Carnoulès Creek, France. <i>European Physical Journal Special Topics</i> , 2003 , 107, 735-738		3
1	Response to Comment on [Predominance of Aqueous Tl(I) Species in the River System Downstream from the Abandoned Carnoulès Mine (Southern France)] <i>Environmental Science & Technology</i> , 2012 , 46, 2475-2476	10.3	1