

Francoise Elbaz-Poulichet

List of Publications by Year in descending order

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83
papers

5,850
citations

50170

46
h-index

71532

76
g-index

85
all docs

85
docs citations

85
times ranked

5870
citing authors

#	ARTICLE	IF	CITATIONS
1	Marine ecosystems'™ responses to climatic and anthropogenic forcings in the Mediterranean. <i>Progress in Oceanography</i> , 2011, 91, 97-166.	1.5	385
2	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, 5282-5288.	4.6	299
3	Bacterial Formation of Tooeleite and Mixed Arsenic(III) or Arsenic(V)~Iron(III) Gels in the Carnoul's Acid Mine Drainage, France. A XANES, XRD, and SEM Study. <i>Environmental Science & Technology</i> , 2003, 37, 1705-1712.	4.6	190
4	Metabolic diversity among main microorganisms inside an arsenic-rich ecosystem revealed by meta- and proteo-genomics. <i>ISME Journal</i> , 2011, 5, 1735-1747.	4.4	186
5	4,500-YEAR-OLD MINING POLLUTION IN SOUTHWESTERN SPAIN: LONG-TERM IMPLICATIONS FOR MODERN MINING POLLUTION. <i>Economic Geology</i> , 2000, 95, 655-662.	1.8	177
6	Bacterial immobilization and oxidation of arsenic in acid mine drainage (Carnoul's creek, France). <i>Water Research</i> , 2003, 37, 2929-2936.	5.3	164
7	Lead cycling in estuaries, illustrated by the Gironde estuary, France. <i>Nature</i> , 1984, 308, 409-414.	13.7	159
8	River versus atmospheric input of material to the mediterranean sea: an overview. <i>Marine Chemistry</i> , 1989, 28, 159-182.	0.9	154
9	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.	0.9	152
10	Occurrence of an anthropogenic gadolinium anomaly in river and coastal waters of Southern France. <i>Water Research</i> , 2002, 36, 1102-1105.	5.3	147
11	Metal geochemistry in a mine-polluted estuarine system in Spain. <i>Applied Geochemistry</i> , 2003, 18, 1757-1771.	1.4	139
12	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.	0.9	137
13	Antimony and arsenic mobility in a creek draining an antimony mine abandoned 85 years ago (upper Orb) Tj ETQq1,1 0.784314 rgBT 133	1.4	133
14	Diversity of Microorganisms in Fe-As-Rich Acid Mine Drainage Waters of Carnoules, France. <i>Applied and Environmental Microbiology</i> , 2006, 72, 551-556.	1.4	131
15	Positive gadolinium anomalies in wastewater treatment plant effluents and aquatic environment in the Hérault watershed (South France). <i>Chemosphere</i> , 2009, 75, 1057-1064.	4.2	131
16	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, 509-521.	3.9	125
17	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.	3.9	118
18	Metal biogeochemistry in the Tinto~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.	0.9	116

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19	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, 6165-6173.	1.4	104
20	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, 2056-2064.	4.6	101
21	Stable lead isotopes ratios in major french rivers and estuaries. <i>Science of the Total Environment</i> , 1986, 54, 61-76.	3.9	97
22	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.	0.9	95
23	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.	1.4	95
24	Mediation of arsenic oxidation by <i>Thiomonas</i> sp. in acid-mine drainage (Carnoules, France). <i>Journal of Applied Microbiology</i> , 2003, 95, 492-499.	1.4	93
25	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</i>)	1.4	88
26	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.	1.4	83
27	A 3500-Year Record of Hg and Pb Contamination in a Mediterranean Sedimentary Archive (The Pierre)	4.6	81
28	Diversity and spatiotemporal dynamics of bacterial communities: physicochemical and other drivers along an acid mine drainage. <i>FEMS Microbiology Ecology</i> , 2014, 90, 247-263.	1.3	79
29	Atmospheric versus river inputs of metals to the Gulf of Lions. <i>Marine Pollution Bulletin</i> , 1991, 22, 176-183.	2.3	75
30	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.	0.9	75
31	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, 122-130.	3.9	74
32	Dissolved and bioavailable contaminants in the Seine river basin. <i>Science of the Total Environment</i> , 2007, 375, 244-256.	3.9	72
33	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, 278-287.	3.9	69
34	Characterization of the Active Bacterial Community Involved in Natural Attenuation Processes in Arsenic-Rich Creek Sediments. <i>Microbial Ecology</i> , 2011, 61, 793-810.	1.4	67
35	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.	5.3	66
36	<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.	1.2	66

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37	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, 259-267.	3.9	62
38	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, 1202-1209.	3.7	62
39	Impact of Los Frailes mine spill on riverine, estuarine and coastal waters in southern Spain. <i>Water Research</i> , 1999, 33, 3387-3394.	5.3	57
40	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, 724-737.	1.3	56
41	<i>Desulfotomaculum hydrothermale</i> 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, 2529-2535.	0.8	51
42	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.	2.3	51
43	Trace element geochemistry in the upper Amazon drainage basin (Bolivia). <i>Chemical Geology</i> , 1999, 157, 319-334.	1.4	50
44	A Reassessment of Trace Metal Budgets in the Western Mediterranean Sea. <i>Marine Pollution Bulletin</i> , 2001, 42, 623-627.	2.3	49
45	An updated insight into the natural attenuation of As concentrations in Reigous Creek (southern Tj ETQq1 1 0.784314 rgBT /Overlock 1.4 49	1.4	49
46	Archaeal diversity in a Fe-As rich acid mine drainage at Carnoulès (France). <i>Extremophiles</i> , 2008, 12, 563-571.	0.9	48
47	Archaeal diversity: temporal variation in the arsenic-rich creek sediments of Carnoulès Mine, France. <i>Extremophiles</i> , 2012, 16, 645-657.	0.9	48
48	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	0.9	44
49	Microbial Diversity in a Pyrite-Rich Tailings Impoundment (Carnoulès, France). <i>Geomicrobiology Journal</i> , 2005, 22, 249-257.	1.0	44
50	Antimony isotopic composition in river waters affected by ancient mining activity. <i>Talanta</i> , 2015, 144, 851-861.	2.9	42
51	Deciphering the presence of wastewater in a medium-sized Mediterranean catchment using a multitracer approach. <i>Applied Geochemistry</i> , 2005, 20, 1587-1596.	1.4	41
52	Geochemical Processes Controlling the Formation of As-Rich Waters Within a Tailings Impoundment (Carnoulès, France). <i>Aquatic Geochemistry</i> , 2003, 9, 273-290.	1.5	36
53	A Michaelis-Menten type equation for describing methylmercury dependence on inorganic mercury in aquatic sediments. <i>Biogeochemistry</i> , 2014, 119, 35-43.	1.7	34
54	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.	1.5	33

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55	Trace metal behaviour in a highly stratified Mediterranean estuary: the Krka (Yugoslavia). <i>Marine Chemistry</i> , 1991, 32, 211-224.	0.9	31
56	Iron isotopes in acid mine waters and iron-rich solids from the Tinto-Odiel Basin (Iberian Pyrite Belt). <i>Journal of Geochemical Exploration</i> , 2000, 63, 1-10.	1.4	31
57	Mercury in the Tinto-Odiel Estuarine System (Gulf of Cádiz, Spain): Sources and Dispersion. <i>Aquatic Geochemistry</i> , 2001, 7, 1-12.	1.5	29
58	Consequences of contaminant mixture on the dynamics and functional diversity of bacterioplankton in a southwestern Mediterranean coastal ecosystem. <i>Chemosphere</i> , 2016, 144, 1060-1073.	4.2	28
59	Major ion chemistry of groundwaters in the Continental Terminal water table of southwestern Niger (Africa). <i>Applied Geochemistry</i> , 2002, 17, 1343-1349.	1.4	25
60	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.	1.4	24
61	Behaviour of butyltin compounds in the sediment pore waters of a contaminated marina (Port Tj ETQq1 1 0.784314 rgBT / Overlock 10 T	4.2	22
62	Title is missing!. <i>Aquatic Geochemistry</i> , 1997, 3, 267-282.	1.5	21
63	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.	3.9	21
64	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, 492-496.	4.2	21
65	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.	2.3	20
66	Influence of diagenetic processes in Thau lagoon on cadmium behavior and benthic fluxes. <i>Estuarine, Coastal and Shelf Science</i> , 2007, 72, 497-510.	0.9	20
67	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, 4214-4220.	4.6	19
68	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.	1.7	18
69	C18 Sep-Pak extractable trace metals in waters from the Gulf of Lions. <i>Marine Chemistry</i> , 1994, 46, 67-75.	0.9	17
70	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, 526-534.	3.9	16
71	Organotin in a medium-size Mediterranean basin (the Hérault River). <i>Journal of Environmental Monitoring</i> , 2008, 10, 638.	2.1	11
72	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.	0.9	11

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73	Reverse Oxidation Zoning in Mine Tailings Generating Arsenic-rich Acidic Waters (Carnoulès, France). <i>Mine Water and the Environment</i> , 2003, 22, 7-14.	0.9	9
74	Trace-Metal Biogeochemistry in the Mediterranean Thau Lagoon, a Shellfish Farming Area. <i>Journal of Coastal Research</i> , 2008, 4, 194-202.	0.1	9
75	Deciphering As and Cu cycling in sediment pore waters in a large marina (Port Camargue, southern) <i>Tj ETQq1 1 0.784314 rgBT /Overl</i>	1.4	8
76	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.	2.7	8
77	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.	0.8	7
78	River Inputs of Metals and Arsenic. <i>Handbook of Environmental Chemistry</i> , 2005, , 211-235.	0.2	7
79	Still Worrying with Trace Chemical Pollution. <i>Marine Pollution Bulletin</i> , 2001, 42, 621-622.	2.3	6
80	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.	0.2	5
81	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.	1.5	3
82	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.	0.3	3
83	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.	4.6	1