Odile Bruneel

List of Publications by Citations

40 papers	1,987 citations	26 h-index	41 g-index
41 ext. papers	2,249 ext. citations	5.5 avg, IF	3.97 L-index

#	Paper	IF	Citations
40	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. *Environmental Science & Technology*, **2003**, 37, 1705-12	10.3	170
39	Bacterial immobilization and oxidation of arsenic in acid mine drainage (Carnoulès creek, France). *Water Research*, **2003**, 37, 2929-36	12.5	148
38	Metabolic diversity among main microorganisms inside an arsenic-rich ecosystem revealed by meta- and proteo-genomics. *ISME Journal*, **2011**, 5, 1735-47	11.9	128
37	Diversity of microorganisms in Fe-As-rich acid mine drainage waters of Carnoulès, France. *Applied and Environmental Microbiology*, **2006**, 72, 551-6	4.8	116
36	Structure, function, and evolution of the Thiomonas spp. genome. *PLoS Genetics*, **2010**, 6, e1000859	6	101
35	Immobilization of arsenite and ferric iron by Acidithiobacillus ferrooxidans and its relevance to acid mine drainage. *Applied and Environmental Microbiology*, **2003**, 69, 6165-73	4.8	93
34	Mediation of arsenic oxidation by Thiomonas sp. in acid-mine drainage (Carnoulès, France). *Journal of Applied Microbiology*, **2003**, 95, 492-9	4.7	84
33	Kinetic control on the formation of tooeleite, schwertmannite and jarosite by Acidithiobacillus ferrooxidans strains in an As(III)-rich acid mine water. *Chemical Geology*, **2009**, 265, 432-441	4.2	83
32	Evaluation of protective effect of DNA vaccination with genes encoding antigens GRA4 and SAG1 associated with GM-CSF plasmid, against acute, chronical and congenital toxoplasmosis in mice. *Vaccine*, **2005**, 23, 4489-99	4.1	82
31	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 (Leuciscus cephalus). *Applied Geochemistry*, **2009**, 24, 787-799	3.5	79
30	Predominance of aqueous Tl(I) species in the river system downstream from the abandoned Carnoulès mine (Southern France). *Environmental Science & Technology*, **2011**, 45, 2056-64	10.3	73
29	Structure and reactivity of As(III)- and As(V)-rich schwertmannites and amorphous ferric arsenate sulfate from the Carnoulès acid mine drainage, France: Comparison with biotic and abiotic model compounds and implications for As remediation. *Geochimica Et Cosmochimica Acta*, **2013**, 104, 310-329	5.5	71
28	Sorption and redox processes controlling arsenic fate and transport in a stream impacted by acid mine drainage. *Science of the Total Environment*, **2005**, 347, 122-30	10.2	67
27	Characterization of the active bacterial community involved in natural attenuation processes in arsenic-rich creek sediments. *Microbial Ecology*, **2011**, 61, 793-810	4.4	61
26	Nanoscale study of As biomineralization in an acid mine drainage system. *Geochimica Et Cosmochimica Acta*, **2008**, 72, 3949-3963	5.5	58
25	Arsenic oxidation and bioaccumulation by the acidophilic protozoan, Euglena mutabilis, in acid mine drainage (Carnoulès, France). *Science of the Total Environment*, **2004**, 320, 259-67	10.2	56
24	Arsenic scavenging by aluminum-substituted ferrihydrites in a circumneutral pH river impacted by acid mine drainage. *Environmental Science & Technology*, **2013**, 47, 12784-92	10.3	52

23	Diversity and spatiotemporal dynamics of bacterial communities: physicochemical and other drivers along an acid mine drainage. *FEMS Microbiology Ecology*, **2014**, 90, 247-63	4.3	51
22	An updated insight into the natural attenuation of As concentrations in Reigous Creek (southern France). *Applied Geochemistry*, **2010**, 25, 1949-1957	3.5	42
21	Microbial Diversity in a Pyrite-Rich Tailings Impoundment (Carnoulès, France). *Geomicrobiology Journal*, **2005**, 22, 249-257	2.5	41
20	Archaeal diversity in a Fe-As rich acid mine drainage at Carnoulès (France). *Extremophiles*, **2008**, 12, 563-71	3	40
19	Three-year survey of sulfate-reducing bacteria community structure in Carnoulès acid mine drainage (France), highly contaminated by arsenic. *FEMS Microbiology Ecology*, **2013**, 83, 724-37	4.3	37
18	Archaeal diversity: temporal variation in the arsenic-rich creek sediments of Carnoulès Mine, France. *Extremophiles*, **2012**, 16, 645-57	3	36
17	Geochemical Processes Controlling the Formation of As-Rich Waters Within a Tailings Impoundment (Carnoulès, France). *Aquatic Geochemistry*, **2003**, 9, 273-290	1.7	31
16	Polymetallic pollution from abandoned mines in Mediterranean regions: a multidisciplinary approach to environmental risks. *Regional Environmental Change*, **2018**, 18, 677-692	4.3	26
15	Iron isotopes in acid mine waters and iron-rich solids from the Tinto–Odiel Basin (Iberian Pyrite Belt, Southwest Spain). *Chemical Geology*, **2008**, 253, 162-171	4.2	26
14	In-depth characterization of bacterial and archaeal communities present in the abandoned Kettara pyrrhotite mine tailings (Morocco). *Extremophiles*, **2017**, 21, 671-685	3	23
13	A new bacterial strain mediating As oxidation in the Fe-rich biofilm naturally growing in a groundwater Fe treatment pilot unit. *Chemosphere*, **2006**, 64, 492-6	8.4	18
12	Dynamics of Bacterial Communities Mediating the Treatment of an As-Rich Acid Mine Drainage in a Field Pilot. *Frontiers in Microbiology*, **2018**, 9, 3169	5.7	16
11	Spatial Distribution of Eukaryotic Communities Using High-Throughput Sequencing Along a Pollution Gradient in the Arsenic-Rich Creek Sediments of Carnoulès Mine, France. *Microbial Ecology*, **2016**, 72, 608-20	4.4	15
10	Fate of Sb(V) and Sb(III) species along a gradient of pH and oxygen concentration in the Carnoulès mine waters (Southern France). *Environmental Sciences: Processes and Impacts*, **2013**, 15, 1536-44	4.3	14
9	Release of arsenite, arsenate and methyl-arsenic species from streambed sediment affected by acid mine drainage: a microcosm study. *Environmental Chemistry*, **2014**, 11, 514	3.2	13
8	Role of microorganisms in rehabilitation of mining sites, focus on Sub Saharan African countries. *Journal of Geochemical Exploration*, **2019**, 205, 106327	3.8	11
7	Spatio-Temporal Detection of the Thiomonas Population and the Thiomonas Arsenite Oxidase Involved in Natural Arsenite Attenuation Processes in the Carnoulès Acid Mine Drainage. *Frontiers in Cell and Developmental Biology*, **2016**, 4, 3	5.7	9
6	Environmental microbiology as a mosaic of explored ecosystems and issues. *Environmental Science and Pollution Research*, **2015**, 22, 13577-98	5.1	6

5	Contrasting arsenic biogeochemical cycling in two Moroccan alkaline pit lakes. *Research in Microbiology*, **2020**, 171, 28-36	4	4
4	In situ metabolic activities of uncultivated Ferrovum sp. CARN8 evidenced by metatranscriptomic analysis. *Research in Microbiology*, **2020**, 171, 37-43	4	3
3	Response to Comment on Predominance of Aqueous Tl(I) Species in the River System Downstream from the Abandoned Carnoulès Mine (Southern France) *Environmental Science & Technology*, **2012**, 46, 2475-2476	10.3	1
2	Metatranscriptomic outlook on green and brown food webs in acid mine drainage. *Environmental Microbiology Reports*, **2021**, 13, 606-615	3.7	1
1	Description of Microbial Communities of Phosphate Mine Wastes in Morocco, a Semi-Arid Climate, Using High-Throughput Sequencing and Functional Prediction. *Frontiers in Microbiology*, **2021**, 12, 666936	5.7	0