HervÃ© Quiquampoix

List of Publications by Year
in descending order

46 papers	2,090 citations	257450 24 h-index	233421 45 g-index
46 all docs	46 docs citations	46 times ranked	2060 citing authors

#	Article	IF	Citations
1	Conformational Changes of Bovine Serum Albumin Induced by Adsorption on Different Clay Surfaces: FTIR Analysis. Journal of Colloid and Interface Science, 2000, 221, 273-283.	9.4	217
2	Evaluation of Biological and Physical Protection against Nuclease Degradation of Clay-Bound Plasmid DNA. Applied and Environmental Microbiology, 2001, 67, 293-299.	3.1	191
3	Extracellular enzyme activity in soil: effect of pH and ionic strength on the interaction with montmorillonite of two acid phosphatases secreted by the ectomycorrhizal fungus Hebeloma cylindrosporum. European Journal of Soil Science, 1996, 47, 511-522.	3.9	132
4	Chymotrypsin Adsorption on Montmorillonite: Enzymatic Activity and Kinetic FTIR Structural Analysis. Journal of Colloid and Interface Science, 1999, 214, 319-332.	9.4	107
5	Interactions between Proteins and Soil Mineral Surfaces: Environmental and Health Consequences. Elements, 2007, 3, 401-406.	0.5	105
6	Interpretation of the pH dependence of protein adsorption on clay mineral surfaces and its relevance to the understanding of extracellular enzyme activity in soil. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1993, 75, 85-93.	4.7	94
7	High Resolution Imaging of Plant Tissues10. Journal of Experimental Botany, 1987, 38, 1713-1723.	4.8	89
8	A stepwise approach to the understanding of extracellular enzyme activity in soil I. Effect of electrostatic interactions on the conformation of a Î²-d-glucosidase adsorbed on different mineral surfaces. Biochimie, 1987, 69, 753-763.	2.6	81
9	Adsorption and Conformation of Bovine Serum Albumin on Montmorillonite: Modification of the Balance between Hydrophobic and Electrostatic Interactions by Protein Methylation and pH Variation. Journal of Colloid and Interface Science, 1994, 166, 89-94.	9.4	78
10	Dissimilar pH-dependent adsorption features of bovine serum albumin and Î±-chymotrypsin on mica probed by AFM. Colloids and Surfaces B: Biointerfaces, 2009, 70, 226-231.	5.0	78
11	Adsorption of Cesium by Synthetic Clayâ€'Organic Matter Complexes:â€‰ Effect of the Nature of Organic Polymers. Environmental Science & Technology, 2000, 34, 2985-2989.	10.0	76
12	A 31P NMR study of the adsorption of bovine serum albumin on montmorillonite using phosphate and the paramagnetic cation Mn2+: modification of conformation with pH. Journal of Colloid and Interface Science, 1992, 148, 343-352.	9.4	74
13	Fate of Prions in Soil:Â Adsorption and Extraction by Electroelution of Recombinant Ovine Prion Protein from Montmorillonite and Natural Soils. Environmental Science & Technology, 2006, 40, 1497-1503.	10.0	70
14	Adsorption and desorption of monomeric Bt (Bacillus thuringiensis) Cry1Aa toxin on montmorillonite and kaolinite. Soil Biology and Biochemistry, 2009, 41, 498-504.	8.8	59
15	1H and 31P NMR investigation of gadolinium uptake in maize roots. Journal of Inorganic Biochemistry, 1990, 38, 265-275.	3.5	55
16	Fate of Prions in Soil:Â Adsorption Kinetics of Recombinant Unglycosylated Ovine Prion Protein onto Mica in Laminar Flow Conditions and Subsequent Desorption. Biomacromolecules, 2005, 6, 3425-3432.	5.4	48
17	Efficiency of acid phosphatases secreted from the ectomycorrhizal fungus Hebeloma cylindrosporumâ€ƒ to hydrolyse organic phosphorus in podzols. FEMS Microbiology Ecology, 2010, 73, no-no.	2.7	48
18	Effects of physicochemical interactions and microbial activity on the persistence of Cry1Aa Bt (Bacillus thuringiensis) toxin in soil. Soil Biology and Biochemistry, 2011, 43, 1089-1097.	8.8	48

#	Article	IF	Citations
19	A stepwise approach to the understanding of extracellular enzyme activity in soil II. Competitive effects on the adsorption of a Î²-d-glucosidase in mixed mineral or organo-mineral systems. Biochimie, 1987, 69, 765-771.	2.6	43
20	Glomalinâ€related soil protein in <scp>F</scp>rench temperate forest soils: interference in the <scp>B</scp>radford assay caused by coâ€extracted humic substances. European Journal of Soil Science, 2015, 66, 311-319.	3.9	40
21	A31P-NMR Study of the Uptake and Compartmentation of Manganese by Maize Roots. Journal of Experimental Botany, 1993, 44, 1819-1827.	4.8	35
22	Role of Iron Oxid the Phosphate Adsorption Properties of Kaolinites from the Ivory Coast. Clays and Clay Minerals, 2002, 50, 217-222.	1.3	34
23	Assessing organic phosphorus status of Cerrado oxisols (Brazil) using 31P-NMR spectroscopy and phosphomonoesterase activity measurement. Canadian Journal of Soil Science, 2001, 81, 591-601.	1.2	28
24	Adsorption of Alexa-Labeled Bt Toxin on Mica, Glass, and Hydrophobized Glass: Study by Normal Scanning Confocal Fluorescence. Biomacromolecules, 2010, 11, 1661-1666.	5.4	24
25	Can soil properties and land use explain glomalin-related soil protein (GRSP) accumulation? A nationwide survey in France. Catena, 2020, 193, 104620.	5.0	23
26	The host plant Pinus pinaster exerts specific effects on phosphate efflux and polyphosphate metabolism of the ectomycorrhizal fungus Hebeloma cylindrosporum: a radiotracer, cytological staining and ³¹P NMR spectroscopy study. Plant, Cell and Environment, 2017, 40, 190-202.	5.7	22
27	Structural effects of drying and rehydration for enzymes in soils: aÂkinetics-FTIR analysis of Î±-chymotrypsin adsorbed on montmorillonite. Journal of Colloid and Interface Science, 2004, 273, 414-425.	9.4	21
28	Adsorption on montmorillonite prevents oligomerization of Bt Cry1Aa toxin. Journal of Colloid and Interface Science, 2011, 356, 718-725.	9.4	20
29	Diversity of adsorption affinity and catalytic activity of fungal phosphatases adsorbed on some tropical soils. Soil Biology and Biochemistry, 2013, 56, 13-20.	8.8	20
30	Quantitative Aspects of the31P-NMR Detection of Manganese in Plant Tissues12. Journal of Experimental Botany, 1993, 44, 1809-1818.	4.8	19
31	Characterisation of kaolinitic clays from the Ivory Coast (West Africa). Applied Clay Science, 2004, 27, 235-239.	5.2	17
32	Role of allophanes in the accumulation of glomalinâ€related soil protein in tropical soils (Martinique,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.9	17
33	Fate of insecticidalBacillus thuringiensisCry protein in soil: differences between purified toxin and biopesticide formulation. Pest Management Science, 2016, 72, 2247-2253.	3.4	15
34	Persistence of catalytic activity of fungal phosphatases incubated in tropical soils. Soil Biology and Biochemistry, 2013, 56, 69-74.	8.8	14
35	Mobility of adsorbed Cry1Aa insecticidal toxin fromBacillus thuringiensis(Bt) on montmorillonite measured by fluorescence recovery after photobleaching (FRAP). Philosophical Magazine, 2010, 90, 2365-2371.	1.6	7
36	Effects of companion crops and tillage on soil phosphorus in a Brazilian oxisol: a chemical and 31P NMR spectroscopy study. Journal of Soils and Sediments, 2021, 21, 1024-1037.	3.0	7

#	Article	IF	Citations
37	Comparison of the affinity and extraction yield of trace amounts of three <scp>C</scp>ry proteins from <scp>B</scp>acillus thuringiensis in contrasting types of soil. European Journal of Soil Science, 2016, 67, 90-98.	3.9	6
38	Establishing a Symbiotic Interface between Cultured Ectomycorrhizal Fungi and Plants to Follow Fungal Phosphate Metabolism. Bio-protocol, 2017, 7, e2577.	0.4	6
39	Water-extractable soil organic matter inhibits phosphatase activity. Soil Biology and Biochemistry, 2012, 55, 14-16.	8.8	5
40	A Method for Radioactive Labelling of Hebeloma cylindrosporum to Study Plant-fungus Interactions. Bio-protocol, 2017, 7, e2576.	0.4	5
41	Enzymes and Proteins, Interactions with Soilâ€Constituent Surfaces. Encyclopedia of Earth Sciences Series, 2008, , 210-216.	0.1	4
42	Characterisation of Kaolinitic Clays from the Ivory Coast: Identification of Structural Fe. Hyperfine Interactions, 2004, 155, 51-64.	0.5	2
43	A dansyl-derivatized phytic acid analogue as a fluorescent substrate for phytases: experimental and computational approach. Bioorganic Chemistry, 2021, 110, 104810.	4.1	2
44	In vivo and in vitro 31P-NMR Study of the Phosphate Transport and Polyphosphate Metabolism in Hebeloma cylindrosporum in Response to Plant Roots Signals. Bio-protocol, 2018, 8, e2973.	0.4	2
45	Evidence for proteolysis of a recombinant prion protein in a lamb brain-amended loamy soil. European Journal of Soil Science, 2011, 62, 607-616.	3.9	1
46	Structure, Biological Activity and Environmental Fate of Insecticidal Bt (Bacillus thuringiensis) Cry Proteins of Bacterial and Genetically Modified Plant Origin. , 2013, , 49-77.		1