Isabelle Michaud-Soret

List of Publications by Year
in descending order

56	2,178	186265	233421
papers	citations	28 h-index	45 g-index

59	59	59	2635
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Direct inhibition by nitric oxide of the transcriptional ferric uptake regulation protein via nitrosylation of the iron. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 16619-16624.	7.1	162
2	X-ray Absorption Spectroscopy of a New Zinc Site in the Fur Protein fromEscherichia coli. Biochemistry, 1998, 37, 2564-2571.	2.5	130
3	The structure of the Helicobacter pylori ferric uptake regulator Fur reveals three functional metal binding sites. Molecular Microbiology, 2011, 79, 1260-1275.	2.5	109
4	Resonance Raman Studies of Catecholate and Phenolate Complexes of Recombinant Human Tyrosine Hydroxylase. Biochemistry, 1995, 34, 5504-5510.	2.5	99
5	Structural Changes of Escherichia coli Ferric Uptake Regulator during Metal-dependent Dimerization and Activation Explored by NMR and X-ray Crystallography. Journal of Biological Chemistry, 2006, 281, 21286-21295.	3.4	96
6	Spectroscopic Description of the Two Nitrosylâ^'Iron Complexes Responsible for Fur Inhibition by Nitric Oxide. Journal of the American Chemical Society, 2004, 126, 6005-6016.	13.7	88
7	Spectroscopic and Saturation Magnetization Properties of the Manganese- and Cobalt-Substituted Fur (Ferric Uptake Regulation) Protein fromEscherichia coliâ€. Biochemistry, 1999, 38, 6248-6260.	2.5	76
8	Identification of the Two Zinc-Bound Cysteines in the Ferric Uptake Regulation Protein from Escherichia coli:â€‰ Chemical Modification and Mass Spectrometry Analysis. Biochemistry, 1999, 38, 8582-8589.	2.5	68
9	Visualization, quantification and coordination of Ag⁺ions released from silver nanoparticles in hepatocytes. Nanoscale, 2016, 8, 17012-17021.	5.6	68
10	Textural, Structural and Biological Evaluation of Hydroxyapatite Doped with Zinc at Low Concentrations. Materials, 2017, 10, 229.	2.9	64
11	Interference of CuO nanoparticles with metal homeostasis in hepatocytes under sub-toxic conditions. Nanoscale, 2014, 6, 1707-1715.	5.6	63
12	Structural and Biological Assessment of Zinc Doped Hydroxyapatite Nanoparticles. Journal of Nanomaterials, 2016, 2016, 1-10.	2.7	59
13	Coupling of Iron Assimilation and Pectinolysis in Erwinia chrysanthemi 3937. Molecular Plant-Microbe Interactions, 2002, 15, 1181-1191.	2.6	55
14	Hierarchical regulation of the NikR-mediated nickel response in Helicobacter pylori. Nucleic Acids Research, 2011, 39, 7564-7575.	14.5	55
15	Conformational changes of the ferric uptake regulation protein upon metal activation and DNA binding; first evidence of structural homologies with the diphtheria toxin repressor11Edited by G. v. Heijne. Journal of Molecular Biology, 2001, 310, 83-91.	4.2	54
16	Silver nanoparticle fate in mammals: Bridging in vitro and in vivo studies. Coordination Chemistry Reviews, 2018, 364, 118-136.	18.8	52
17	The Existence of Two Oxidized Mn(III)Mn(III) Forms ofThermusthermophilusManganese Catalase. Inorganic Chemistry, 1998, 37, 3874-3876.	4.0	49
18	Metal homeostasis disruption and mitochondrial dysfunction in hepatocytes exposed to sub-toxic doses of zinc oxide nanoparticles. Nanoscale, 2016, 8, 18495-18506.	5.6	48

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19	Feâ"Catecholate and Feâ"Oxalate Vibrations and Isotopic Substitution Shifts from DFT Quantum Chemistry. Journal of Physical Chemistry A, 1999, 103, 256-264.	2.5	41
20	Structure of catechol 1,2-dioxygenase from Pseudomonas arvilla. Biochemical and Biophysical Research Communications, 2005, 338, 198-205.	2.1	40
21	Reversible Redox- and Zinc-Dependent Dimerization of theEscherichia coliFur Protein. Biochemistry, 2007, 46, 1329-1342.	2.5	40
22	Structural and mechanistic insights into Helicobacter pylori NikR activation. Nucleic Acids Research, 2010, 38, 3106-3118.	14.5	38
23	Interaction of silver nanoparticles with metallothionein and ceruloplasmin: impact on metal substitution by Ag(<scp>i</scp>), corona formation and enzymatic activity. Nanoscale, 2017, 9, 6581-6594.	5.6	38
24	Electrospray ionization mass spectrometry analysis of the apo- and metal-substituted forms of the Fur protein. FEBS Letters, 1997, 413, 473-476.	2.8	35
25	Ferric uptake regulator protein: Binding free energy calculations and perâ€residue free energy decomposition. Proteins: Structure, Function and Bioinformatics, 2009, 75, 373-386.	2.6	35
26	A ZnS₄ Structural Zinc Site in the Helicobacter pylori Ferric Uptake Regulator. Biochemistry, 2009, 48, 5582-5591.	2.5	35
27	Characterization of the MerD protein from Ralstonia metallidurans CH34: a possible role in bacterial mercury resistance by switching off the induction of the mer operon. Molecular Microbiology, 2004, 52, 1475-1485.	2.5	32
28	Characterization of the DNA-binding site in the ferric uptake regulator protein fromEscherichia coliby UV crosslinking and mass spectrometry. FEBS Letters, 2005, 579, 5454-5460.	2.8	32
29	XAS Investigation of Silver(I) Coordination in Copper(I) Biological Binding Sites. Inorganic Chemistry, 2015, 54, 11688-11696.	4.0	31
30	Impact of labile metal nanoparticles on cellular homeostasis. Current developments in imaging, synthesis and applications. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 1566-1577.	2.4	26
31	First Spectroscopic Characterization of FeII-Fur, the Physiological Active Form of the Fur Protein. Journal of the American Chemical Society, 2000, 122, 394-395.	13.7	25
32	Quaternary Structure of Fur Proteins, a New Subfamily of Tetrameric Proteins. Biochemistry, 2016, 55, 1503-1515.	2.5	22
33	Quantum Chemical Approach to the Assignment of Ironâ"Catecholate Vibrations and Isotopic Substitution Shifts. Journal of the American Chemical Society, 1996, 118, 3283-3284.	13.7	20
34	The pathogenPseudomonas aeruginosaoptimizes the production of the siderophore pyochelin upon environmental challenges. Metallomics, 2020, 12, 2108-2120.	2.4	20
35	A Comparative Analysis of Perturbations Caused by a Gene Knock-out, a Dominant Negative Allele, and a Set of Peptide Aptamers. Molecular and Cellular Proteomics, 2007, 6, 2110-2121.	3.8	19
36	Structural and functional studies of the metalloregulator Fur identify a promoter-binding mechanism and itsÂrole in Francisella tularensis virulence. Communications Biology, 2018, 1, 93.	4.4	19

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37	pH dependent Ni(II) binding andÂaggregation ofÂEscherichiaÂcoli andÂHelicobacterÂpylori NikR. Biochimie, 2006, 88, 1693-1705.	2.6	18
38	Insights into polythiol-assisted AgNP dissolution induced by bio-relevant molecules. Environmental Science: Nano, 2018, 5, 1911-1920.	4.3	18
39	Thiolate-Capped Silver Nanoparticles: Discerning Direct Grafting from Sulfidation at the Metalâ€“Ligand Interface by Interrogating the Sulfur Atom. Journal of Physical Chemistry C, 2020, 124, 13467-13478.	3.1	18
40	Magnetization studies of the active and fluoride-inhibited derivatives of the reduced catalase of Lactobacillus plantarum: toward a general picture of the anion-inhibited and active forms of the reduced dimanganese catalases. Journal of Biological Inorganic Chemistry, 2002, 7, 445-450.	2.6	17
41	Sub-micromolar affinity of Escherichia coli NikR for Ni(ii). Chemical Communications, 2008, , 1813.	4.1	17
42	The role of cysteine and sulfide in the interplay between microbial Hg(ii) uptake and sulfur metabolism. Metallomics, 2019, 11, 1219-1229.	2.4	17
43	Nuclear translocation of silver ions and hepatocyte nuclear receptor impairment upon exposure to silver nanoparticles. Environmental Science: Nano, 2020, 7, 1373-1387.	4.3	16
44	New insights into the tetrameric family of the Fur metalloregulators. BioMetals, 2019, 32, 501-519.	4.1	14
45	From Peptide Aptamers to Inhibitors of FUR, Bacterial Transcriptional Regulator of Iron Homeostasis and Virulence. ACS Chemical Biology, 2016, 11, 2519-2528.	3.4	13
46	Crystallization of Catechol-1,2 Dioxygenase from Pseudomonas arvilla C-1. Journal of Molecular Biology, 1994, 236, 377-378.	4.2	11
47	Inhibition of the Ferric Uptake Regulator by Peptides Derived from Anti-FUR Peptide Aptamers: Coupled Theoretical and Experimental Approaches. ACS Chemical Biology, 2014, 9, 2779-2786.	3.4	11
48	Safer-by-design biocides made of tri-thiol bridged silver nanoparticle assemblies. Nanoscale Horizons, 2020, 5, 507-513.	8.0	11
49	Soybean lipoxygenases-1, -2a, -2b and -2c do not contain PQQ. Biochemical and Biophysical Research Communications, 1990, 172, 1122-1128.	2.1	10
50	Magnetization Studies of the Reduced Active Form of the Catalase fromThermus thermophilus. Angewandte Chemie International Edition in English, 1997, 36, 1626-1628.	4.4	10
51	Towards the development of safer by design TiO₂-based photocatalytic paint: impacts and performances. Environmental Science: Nano, 2021, 8, 758-772.	4.3	9
52	Non-specific interference of cobalt with siderophore-dependent iron uptake pathways. Metallomics, 2019, 11, 1937-1951.	2.4	7
53	TiO₂ nanoparticles coated with bio-inspired ligands for the safer-by-design development of photocatalytic paints. Environmental Science: Nano, 2021, 8, 297-310.	4.3	7
54	Investigation of sulfur containing amino acids at the lipoxygenase active site using a platinum complex. Biochemical and Biophysical Research Communications, 1992, 182, 779-785.	2.1	6

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55	cis-Dichloro(di-n-butyl sulfide)(tri-n-butylphosphine)platinum(II). Acta Crystallographica Section C: Crystal Structure Communications, 1993, 49, 589-591.	0.4	3
56	Interference between nanoparticles and metal homeostasis. Journal of Physics: Conference Series, 2011, 304, 012035.	0.4	0