Juan LÃ³pez-Barea

List of Publications by Year
in descending order

106	3,338	147801	175258
papers	citations	31 h-index	52 g-index

111	111	111	3217
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	2D-DIGE as a proteomic biomarker discovery tool in environmental studies with Procambarus clarkii. Science of the Total Environment, 2017, 584-585, 813-827.	8.0	17
2	Using environmental proteomics to assess pollutant response of Carcinus maenas along the Tunisian coast. Science of the Total Environment, 2016, 541, 109-118.	8.0	7
3	Proteomic analysis through larval development of Solea senegalensis flatfish. Proteomics, 2015, 15, 4105-4119.	2.2	3
4	Combination of direct infusion mass spectrometry and gas chromatography mass spectrometry for toxicometabolomic study of red blood cells and serum of mice Mus musculus after mercury exposure. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2015, 985, 75-84.	2.3	16
5	Alterations of protein expression in serum of infants with intrauterine growth restriction and different gestational ages. Journal of Proteomics, 2015, 119, 169-182.	2.4	22
6	iTRAQ analysis of hepatic proteins in free-living Mus spretus mice to assess the contamination status of areas surrounding DoÃ±ana National Park (SW Spain). Science of the Total Environment, 2015, 523, 16-27.	8.0	18
7	Functional genomics and metabolomics reveal the toxicological effects of cadmium in Mus musculus mice. Metabolomics, 2015, 11, 1432-1450.	3.0	17
8	Proteomic analysis in caged Mediterranean crab (Carcinus maenas) and chemical contaminant exposure in TÃ©boulba Harbour, Tunisia. Ecotoxicology and Environmental Safety, 2014, 100, 15-26.	6.0	17
9	Omics technologies and their applications to evaluate metal toxicity in mice M. spretus as a bioindicator. Journal of Proteomics, 2014, 104, 4-23.	2.4	26
10	Use of Metallomics and Metabolomics to Assess Metal Pollution in DoÃ±ana National Park (SW Spain). Environmental Science & Technology, 2014, 48, 7747-7755.	10.0	17
11	Redox proteomics as biomarker for assessing the biological effects of contaminants in crayfish from DoÃ±ana National Park. Science of the Total Environment, 2014, 490, 121-133.	8.0	16
12	Evolution of metallotionein isoforms complexes in hepatic cells of Mus musculus along cadmium exposure. BioMetals, 2013, 26, 639-650.	4.1	17
13	Biochemical responses in seabream (Sparus aurata) caged in-field or exposed to benzo(a)pyrene and paraquat. Characterization of glutathione S-transferases. Ecotoxicology and Environmental Safety, 2013, 88, 169-177.	6.0	20
14	Use of Metallomics in Environmental Pollution Assessment Using Mice Mus musculus/Mus spretus as Bioindicators. Current Analytical Chemistry, 2013, 9, 229-243.	1.2	6
15	Use of Metallomics in Environmental Pollution Assessment Using Mice Mus musculus/Mus spretus as Bioindicators. Current Analytical Chemistry, 2013, 9, 229-243.	1.2	6
16	Biological response of free-living mouse Mus spretus from DoÃ±ana National Park under environmental stress based on assessment of metal-binding biomolecules by SEC-ICP-MS. Analytical and Bioanalytical Chemistry, 2012, 404, 1967-1981.	3.7	41
17	Hepatic proteome changes in Solea senegalensis exposed to contaminated estuarine sediments: a laboratory and in situ survey. Ecotoxicology, 2012, 21, 1194-1207.	2.4	10
18	Serum proteomic changes in adults with obstructive sleep apnoea. Journal of Sleep Research, 2012, 21, 139-146.	3.2	26

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19	Speciation of arsenic metabolites in the free-living mouse Mus spretus from DoÃ±ana National Park used as a bio-indicator for environmental pollution monitoring. Chemical Papers, 2012, 66, .	2.2	10
20	OmicApproaches in Environmental Issues. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2011, 74, 1001-1019.	2.3	22
21	Size characterization of metal species in liver and brain from free-living (Mus spretus) and laboratory (Mus Musculus) mice by SEC-ICP-MS: Application to environmental contamination assessment. Journal of Analytical Atomic Spectrometry, 2011, 26, 141-149.	3.0	25
22	Relationship of oxidative stress and endothelial dysfunction in sleep apnoea. European Respiratory Journal, 2011, 37, 873-879.	6.7	83
23	Use of oxidative stress biomarkers in Carcinus maenas to assess littoral zone contamination in Tunisia. Aquatic Biology, 2011, 14, 87-98.	1.4	24
24	Environmental monitoring of Domingo Rubio stream (Huelva Estuary, SW Spain) by combining conventional biomarkers and proteomic analysis in Carcinus maenas. Environmental Pollution, 2010, 158, 401-408.	7.5	42
25	Variation in Protein Expression Depending on the Severity of Sleep Apnoea-Hypopnoea Syndrome. Archivos De Bronconeumologia, 2010, 46, 288-293.	0.8	3
26	Assessment of DoÃ±ana National Park contamination in Procambarus clarkii: Integration of conventional biomarkers and proteomic approaches. Science of the Total Environment, 2009, 407, 1784-1797.	8.0	81
27	Multivariate discriminant analysis distinguishes metal- from non metal-related biomarker responses in the clam Chamaelea gallina. Marine Pollution Bulletin, 2009, 58, 64-71.	5.0	13
28	Proteomics of Juvenile Senegal Sole (Solea senegalensis) Affected by Gas Bubble Disease in Hyperoxygenated Ponds. Marine Biotechnology, 2009, 11, 473-487.	2.4	40
29	Metallomics integrated with proteomics in deciphering metal-related environmental issuesâ˜†. Biochimie, 2009, 91, 1311-1317.	2.6	27
30	Biochemical and proteomic effects inProcambarus clarkiiafter chlorpyrifos or carbaryl exposure under sublethal conditions. Biomarkers, 2009, 14, 299-310.	1.9	24
31	Metal-binding molecules in the organs of Mus musculus by size-exclusion chromatography coupled with UV spectroscopy and ICP-MS. Analytical and Bioanalytical Chemistry, 2008, 390, 17-28.	3.7	19
32	Metallothionein induction by Cu, Cd and Hg in Dicentrarchus labrax liver: Assessment by RP-HPLC with fluorescence detection and spectrophotometry. Marine Environmental Research, 2008, 65, 358-363.	2.5	39
33	New metallothionein assay in Scrobicularia plana: Heating effect and correlation with other biomarkers. Environmental Pollution, 2008, 156, 1340-1347.	7.5	46
34	Integrated application of transcriptomics, proteomics, and metallomics in environmental studies. Pure and Applied Chemistry, 2008, 80, 2609-2626.	1.9	25
35	Esterases as pesticide biomarkers in crayfish (Procambarus clarkii, Crustacea): Tissue distribution, sensitivity to model compounds and recovery from inactivation. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2007, 145, 404-412.	2.6	25
36	DoÃ±ana National Park survey using crayfish (Procambarus clarkii) as bioindicator: Esterase inhibition and pollutant levels. Toxicology Letters, 2007, 168, 260-268.	0.8	48

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37	Proteomics in freeâ€living Mus spretus to monitor terrestrial ecosystems. Proteomics, 2007, 7, 4376-4387.	2.2	54
38	Absolute Transcript Expression Signatures ofCypandGstGenes inMus spretusto Detect Environmental Contamination. Environmental Science & Technology, 2006, 40, 3646-3652.	10.0	43
39	Ecotoxicological effects of metal pollution in two mollusc species from the Spanish South Atlantic littoral. Environmental Pollution, 2006, 139, 214-223.	7.5	112
40	Environmental proteomics and metallomics. Proteomics, 2006, 6, S51-S62.	2.2	103
41	Utility of proteomics to assess pollutant response of clams from the DoÃ±ana bank of Guadalquivir Estuary (SW Spain). Proteomics, 2006, 6, S245-S255.	2.2	52
42	Metallothionein quantification in clams by reversed-phase high-performance liquid chromatography coupled to fluorescence detection after monobromobimane derivatization. Journal of Chromatography A, 2006, 1107, 52-58.	3.7	49
43	Tissue, Species, and Environmental Differences in Absolute Quantities of Murine mRNAs Coding for Alpha, Mu, Omega, Pi, and Theta Glutathione <I>S</I>-Transferases. Gene Expression, 2005, 12, 165-176.	1.2	15
44	Evolution of biological effects of AznalcÃ³llar mining spill in the Algerian mouse (Mus spretus) using biochemical biomarkers. Toxicology, 2004, 197, 122-137.	4.2	60
45	Effect of food deprivation on oxidative stress biomarkers in fish (Sparus aurata). Chemico-Biological Interactions, 2003, 145, 191-199.	4.0	198
46	Mutagenic activation of arylamines by subcellular fractions ofChamaelea gallinaclams exposed to environmental pollutants. Environmental and Molecular Mutagenesis, 2003, 41, 55-63.	2.2	3
47	Oxidative stress biomarkers in bivalves transplanted to the Guadalquivir estuary after AznalcÃ³llar spill. Environmental Toxicology and Chemistry, 2003, 22, 92-100.	4.3	36
48	Changes in protein expression profiles in bivalve molluscs (Chamaelea gallina) exposed to four model environmental pollutants. Proteomics, 2003, 3, 1535-1543.	2.2	150
49	Uptake and clearance of PCB congeners in Chamaelea gallina: response of oxidative stress biomarkers. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2003, 134, 57-67.	2.6	13
50	Multiplex Reverse Transcription-Polymerase Chain Reaction for Determining Transcriptional Regulation of Thioredoxin and Glutaredoxin Pathways. Methods in Enzymology, 2002, 347, 441-451.	1.0	19
51	New methods to use fish cytochrome P4501A to assess marine organic pollutants. Science of the Total Environment, 2000, 247, 213-225.	8.0	37
52	Content of 8-oxodG in chromosomal DNA of Sparus aurata fish as biomarker of oxidative stress and environmental pollution. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 1999, 438, 97-107.	1.7	45
53	Incubation of superoxide dismutase with malondialdehyde and 4-hydroxy-2-nonenal forms new active isoforms and adducts. An evaluation of xenobiotics in fish. Chemico-Biological Interactions, 1998, 116, 1-17.	4.0	26
54	Mutagen content and metabolic activation of promutagens by molluscs as biomarkers of marine pollution. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1998, 399, 3-15.	1.0	57

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55	Mutagenic activation of aromatic amines by molluscs as a biomarker of marine pollution. , 1998, 31, 282-291.		18
56	In Vivo Transcription of nrdAB Operon and of grxA and fpg Genes Is Triggered inEscherichia coli Lacking both Thioredoxin and Glutaredoxin 1 or Thioredoxin and Glutathione, Respectively. Journal of Biological Chemistry, 1998, 273, 18382-18388.	3.4	34
57	P XVII A.2 Oxidative DNA damage in Escherichia coli strains deficient in catalase and Fapy-glycosylase. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1997, 379, S166.	1.0	0
58	Purification and characterization of multiple glutathione transferase isoenzymes from grey mullet liver. Cellular and Molecular Life Sciences, 1997, 53, 759-768.	5.4	14
59	A field study of metal pollution in the south atlantic spanish littoral using striped venus clam as biomonitor. Toxicology Letters, 1996, 88, 58-59.	0.8	0
60	Biomarkers to detect environmental pollution. Toxicology Letters, 1996, 88, 79.	0.8	13
61	Glutathione-S-transferase isoenzyme patterns in the gilthead seabream (sparus aurata) exposed to environmental contaminants. Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology, 1996, 113, 215-220.	0.5	19
62	Changes in GST-isoenzyme pattern of some organs of sheep exposed to different levels of pollution. Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology, 1996, 114, 153-158.	0.5	5
63	Superoxide dismutase, glutathione peroxidase, and glutathione reductase in sheep organs. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1996, 115, 451-456.	1.6	12
64	Dieldrin induces peroxisomal enzymes in fish (Sparus aurata) liver. Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology, 1996, 115, 125-131.	0.5	14
65	Development of new molecular procedures for the detection of genetic alterations in man. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1996, 353, 109-121.	1.0	16
66	Methods for chromatographic and electrophoretic separation and assay of NADP+ oxidoreductases. Biomedical Applications, 1996, 684, 1-23.	1.7	4
67	Methods for purification of glutathione peroxidase and related enzymes. Biomedical Applications, 1996, 684, 77-97.	1.7	26
68	The Levels of Ribonucleotide Reductase, Thioredoxin, Glutaredoxin 1, and GSH Are Balanced in Escherichia coli K12. Journal of Biological Chemistry, 1996, 271, 19099-19103.	3.4	60
69	Changes in Antioxidative Activities Induced by Fe (II) and Fe (III)d in Cultured Vero Cells. Archives of Environmental Contamination and Toxicology, 1996, 30, 431-436.	4.1	1
70	Metabolic activation of carcinogenic aromatic amines by fish exposed to environmental pollutants. Environmental and Molecular Mutagenesis, 1995, 25, 50-57.	2.2	23
71	T-vector cloning and high performance PCR with SuperTth from Thermus thermophilus. Genetic Analysis, Techniques and Applications, 1995, 12, 119-121.	1.5	3
72	Oxidative stress in fish exposed to model xenobiotics. Oxidatively modified forms of Cu,Zn-superoxide dismutase as potential biomarkers. Chemico-Biological Interactions, 1995, 98, 267-282.	4.0	149

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73	Biomarkers in Ecotoxicology: an Overview. Archives of Toxicology Supplement, 1995, 17, 57-79.	0.7	27
74	Promutagen activation by fish liver as a biomarker of littoral pollution. Environmental and Molecular Mutagenesis, 1994, 24, 116-123.	2.2	28
75	Rapid determination of glutathione status in fish liver using high-performance liquid chromatography and electrochemical detection. Biomedical Applications, 1994, 656, 311-318.	1.7	85
76	Effects of environmental pollutants on activation of aromatic amines by fish liver and mollusc extracts. Toxicology Letters, 1994, 74, 19.	0.8	0
77	Comparison of the oxidative stress induced by two chemical species of iron in cultured vero cells. Toxicology Letters, 1994, 74, 28.	0.8	0
78	The use of biomarkers in ecotoxicology: An overview. Toxicology Letters, 1994, 74, 49.	0.8	1
79	Purification and characterization of glutathione S-transferase isoenzymes from grey mullet (Mugil) Tj ETQq1 1 0.784314 rgBT /Overlo	0.8	0
80	New Cu,Zn-superoxide dismutase isoenzymes as biomarkers of oxidative stress induced in fish liver by model xenobiotics. Toxicology Letters, 1994, 74, 61-62.	0.8	13
81	Seasonal variations of detoxifying and antioxidative enzymes and glutathlone levels in gilthead seabream (Sparus aurata). Toxicology Letters, 1994, 74, 60.	0.8	0
82	Horse-liver glutathione reductase: Purification and characterization. International Journal of Biochemistry & Cell Biology, 1993, 25, 61-68.	0.5	17
83	Regulation of horse-liver glutathione reductase. International Journal of Biochemistry & Cell Biology, 1993, 25, 513-520.	0.5	15
84	Biochemical Indicators of Oxidative Stress in Fish from Polluted Littoral Areas. Canadian Journal of Fisheries and Aquatic Sciences, 1993, 50, 2568-2573.	1.4	187
85	Purification and properties of bovine thioredoxin system. Biochimie, 1993, 75, 803-809.	2.6	44
86	Biochemical and genetic indices of marine pollution in Spanish littoral. Science of the Total Environment, 1993, 134, 109-116.	8.0	36
87	Purification of Cu, Zn-Superoxide Dismutase Isoenzymes from Fish Liver: Appearance of New Isoforms as a Consequence of Pollution. Free Radical Research Communications, 1993, 19, 29-41.	1.8	39
88	Immunolocalization of thioredoxin and glutaredoxin in mammalian hypophysis. Molecular and Cellular Endocrinology, 1992, 85, 1-12.	3.2	18
89	NADPH and oxidized thioredoxin mediate redox interconversion of calf-liver and Escherichia coli thioredoxin reductase. Molecular and Cellular Biochemistry, 1992, 109, 61-9.	3.1	8
90	Purification and determination of glutamine synthetase by high-performance immunoaffinity chromatography. Journal of Chromatography A, 1992, 589, 121-126.	3.7	6

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91	Rapid method for the determination of glutathione transferase isoenzymes in crude extracts. Journal of Chromatography A, 1992, 609, 141-146.	3.7	9
92	Direct assay of glutathione peroxidase activity using high-performance capillary electrophoresis. Biomedical Applications, 1992, 581, 49-56.	1.7	50
93	Glutathione reductase fromSaccharomyces cerevisiae undergoes redox interconversionin situ andin vivo. Molecular and Cellular Biochemistry, 1992, 110, 135-143.	3.1	12
94	Metal, mutagenicity, and biochemical studies on bivalve molluscs from Spanish coasts. Environmental and Molecular Mutagenesis, 1992, 19, 112-124.	2.2	78
95	High-performance affinity chromatography of NADP+ dehydrogenases from cell-free extracts using a nucleotide analogue as general ligand. Journal of Chromatography A, 1991, 586, 51-59.	3.7	6
96	Metals are directly involved in the redox interconversion of Saccharomyces cerevisiae glutathione reductase. Molecular and Cellular Biochemistry, 1991, 101, 175-87.	3.1	12
97	Detection of pollution in fish and molluscs frequently consumed by humans. Mutation Research - Environmental Mutagenesis and Related Subjects Including Methodology, 1990, 234, 426-427.	0.4	0
98	Redox Control of Glutathione and Thioredoxin Reductases. , 1988, , 349-358.		1
99	Glutathione status and sensitivity to GSH-reacting compounds of Escherichia coli strains deficient in glutathione metabolism and/or catalase activity. Molecular and Cellular Biochemistry, 1987, 73, 61-8.	3.1	27
100	Electron transfer between reduced methyl viologen and oxidized glutathione: A new assay of Saccharomyces cerevisiae glutathione reductase. Archives of Biochemistry and Biophysics, 1986, 250, 373-381.	3.0	17
101	Redox interconversion of Escherichia coli glutathione reductase. A study with permeabilized and intact cells. Molecular and Cellular Biochemistry, 1985, 68, 121-30.	3.1	16
102	Redox interconversion of glutathione reductase from Escherichia coli. A study with pure enzyme and cell-free extracts. Molecular and Cellular Biochemistry, 1985, 67, 65-76.	3.1	20
103	Reversible inactivation of Saccharomyces cerevisiae glutathione reductase under reducing conditions. Archives of Biochemistry and Biophysics, 1984, 228, 1-12.	3.0	136
104	Mutants ofEscherichia coli sensitive to hydrogen peroxide. Current Microbiology, 1983, 8, 251-253.	2.2	15
105	The L-arabinose-resistance test with salmonella typhimurium strain SV3 selects forward mutations at several ara genes. Mutation Research - Environmental Mutagenesis and Related Subjects Including Methodology, 1979, 64, 249-258.	0.4	29
106	Principles of Multi-Enzyme Purification by Affinity Chromatography. , 1978, , 441-442.		2