

Juan LÃ³pez-Barea

List of Publications by Year in descending order

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106
papers

3,338
citations

147801

31
h-index

175258

52
g-index

111
all docs

111
docs citations

111
times ranked

3217
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of food deprivation on oxidative stress biomarkers in fish (<i>Sparus aurata</i>). <i>Chemico-Biological Interactions</i> , 2003, 145, 191-199.	4.0	198
2	Biochemical Indicators of Oxidative Stress in Fish from Polluted Littoral Areas. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1993, 50, 2568-2573.	1.4	187
3	Changes in protein expression profiles in bivalve molluscs (<i>Chamaelea gallina</i>) exposed to four model environmental pollutants. <i>Proteomics</i> , 2003, 3, 1535-1543.	2.2	150
4	Oxidative stress in fish exposed to model xenobiotics. Oxidatively modified forms of Cu,Zn-superoxide dismutase as potential biomarkers. <i>Chemico-Biological Interactions</i> , 1995, 98, 267-282.	4.0	149
5	Reversible inactivation of <i>Saccharomyces cerevisiae</i> glutathione reductase under reducing conditions. <i>Archives of Biochemistry and Biophysics</i> , 1984, 228, 1-12.	3.0	136
6	Ecotoxicological effects of metal pollution in two mollusc species from the Spanish South Atlantic littoral. <i>Environmental Pollution</i> , 2006, 139, 214-223.	7.5	112
7	Environmental proteomics and metallomics. <i>Proteomics</i> , 2006, 6, S51-S62.	2.2	103
8	Rapid determination of glutathione status in fish liver using high-performance liquid chromatography and electrochemical detection. <i>Biomedical Applications</i> , 1994, 656, 311-318.	1.7	85
9	Relationship of oxidative stress and endothelial dysfunction in sleep apnoea. <i>European Respiratory Journal</i> , 2011, 37, 873-879.	6.7	83
10	Assessment of Doñana National Park contamination in <i>Procambarus clarkii</i> : Integration of conventional biomarkers and proteomic approaches. <i>Science of the Total Environment</i> , 2009, 407, 1784-1797.	8.0	81
11	Metal, mutagenicity, and biochemical studies on bivalve molluscs from Spanish coasts. <i>Environmental and Molecular Mutagenesis</i> , 1992, 19, 112-124.	2.2	78
12	The Levels of Ribonucleotide Reductase, Thioredoxin, Glutaredoxin 1, and GSH Are Balanced in <i>Escherichia coli</i> K12. <i>Journal of Biological Chemistry</i> , 1996, 271, 19099-19103.	3.4	60
13	Evolution of biological effects of Aznalcóllar mining spill in the Algerian mouse (<i>Mus spretus</i>) using biochemical biomarkers. <i>Toxicology</i> , 2004, 197, 122-137.	4.2	60
14	Mutagen content and metabolic activation of promutagens by molluscs as biomarkers of marine pollution. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1998, 399, 3-15.	1.0	57
15	Proteomics in free-living <i>Mus spretus</i> to monitor terrestrial ecosystems. <i>Proteomics</i> , 2007, 7, 4376-4387.	2.2	54
16	Utility of proteomics to assess pollutant response of clams from the Doñana bank of Guadalquivir Estuary (SW Spain). <i>Proteomics</i> , 2006, 6, S245-S255.	2.2	52
17	Direct assay of glutathione peroxidase activity using high-performance capillary electrophoresis. <i>Biomedical Applications</i> , 1992, 581, 49-56.	1.7	50
18	Metallothionein quantification in clams by reversed-phase high-performance liquid chromatography coupled to fluorescence detection after monobromobimane derivatization. <i>Journal of Chromatography A</i> , 2006, 1107, 52-58.	3.7	49

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19	Doana National Park survey using crayfish (<i>Procambarus clarkii</i>) as bioindicator: Esterase inhibition and pollutant levels. <i>Toxicology Letters</i> , 2007, 168, 260-268.	0.8	48
20	New metallothionein assay in <i>Scrobicularia plana</i> : Heating effect and correlation with other biomarkers. <i>Environmental Pollution</i> , 2008, 156, 1340-1347.	7.5	46
21	Content of 8-oxodG in chromosomal DNA of <i>Sparus aurata</i> fish as biomarker of oxidative stress and environmental pollution. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 1999, 438, 97-107.	1.7	45
22	Purification and properties of bovine thioredoxin system. <i>Biochimie</i> , 1993, 75, 803-809.	2.6	44
23	Absolute Transcript Expression Signatures of Cyp and Gst Genes in <i>Mus spretus</i> to Detect Environmental Contamination. <i>Environmental Science & Technology</i> , 2006, 40, 3646-3652.	10.0	43
24	Environmental monitoring of Domingo Rubio stream (Huelva Estuary, SW Spain) by combining conventional biomarkers and proteomic analysis in <i>Carcinus maenas</i> . <i>Environmental Pollution</i> , 2010, 158, 401-408.	7.5	42
25	Biological response of free-living mouse <i>Mus spretus</i> from Doana National Park under environmental stress based on assessment of metal-binding biomolecules by SEC-ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 1967-1981.	3.7	41
26	Proteomics of Juvenile Senegal Sole (<i>Solea senegalensis</i>) Affected by Gas Bubble Disease in Hyperoxygenated Ponds. <i>Marine Biotechnology</i> , 2009, 11, 473-487.	2.4	40
27	Purification of Cu, Zn-Superoxide Dismutase Isoenzymes from Fish Liver: Appearance of New Isoforms as a Consequence of Pollution. <i>Free Radical Research Communications</i> , 1993, 19, 29-41.	1.8	39
28	Metallothionein induction by Cu, Cd and Hg in <i>Dicentrarchus labrax</i> liver: Assessment by RP-HPLC with fluorescence detection and spectrophotometry. <i>Marine Environmental Research</i> , 2008, 65, 358-363.	2.5	39
29	New methods to use fish cytochrome P4501A to assess marine organic pollutants. <i>Science of the Total Environment</i> , 2000, 247, 213-225.	8.0	37
30	Biochemical and genetic indices of marine pollution in Spanish littoral. <i>Science of the Total Environment</i> , 1993, 134, 109-116.	8.0	36
31	Oxidative stress biomarkers in bivalves transplanted to the Guadalquivir estuary after Aznalcllar spill. <i>Environmental Toxicology and Chemistry</i> , 2003, 22, 92-100.	4.3	36
32	In Vivo Transcription of <i>nrdAB</i> Operon and of <i>grxA</i> and <i>fpg</i> Genes Is Triggered in <i>Escherichia coli</i> Lacking both Thioredoxin and Glutaredoxin 1 or Thioredoxin and Glutathione, Respectively. <i>Journal of Biological Chemistry</i> , 1998, 273, 18382-18388.	3.4	34
33	The L-arabinose-resistance test with <i>salmonella typhimurium</i> strain SV3 selects forward mutations at several <i>ara</i> genes. <i>Mutation Research - Environmental Mutagenesis and Related Subjects Including Methodology</i> , 1979, 64, 249-258.	0.4	29
34	Promutagen activation by fish liver as a biomarker of littoral pollution. <i>Environmental and Molecular Mutagenesis</i> , 1994, 24, 116-123.	2.2	28
35	Glutathione status and sensitivity to GSH-reacting compounds of <i>Escherichia coli</i> strains deficient in glutathione metabolism and/or catalase activity. <i>Molecular and Cellular Biochemistry</i> , 1987, 73, 61-8.	3.1	27
36	Metallomics integrated with proteomics in deciphering metal-related environmental issues. <i>Biochimie</i> , 2009, 91, 1311-1317.	2.6	27

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37	Biomarkers in Ecotoxicology: an Overview. Archives of Toxicology Supplement, 1995, 17, 57-79.	0.7	27
38	Methods for purification of glutathione peroxidase and related enzymes. Biomedical Applications, 1996, 684, 77-97.	1.7	26
39	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
40	Serum proteomic changes in adults with obstructive sleep apnoea. Journal of Sleep Research, 2012, 21, 139-146.	3.2	26
41	Omics technologies and their applications to evaluate metal toxicity in mice <i>M. spretus</i> as a bioindicator. Journal of Proteomics, 2014, 104, 4-23.	2.4	26
42	Esterases as pesticide biomarkers in crayfish (<i>Procambarus clarkii</i> , 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
43	Integrated application of transcriptomics, proteomics, and metallomics in environmental studies. Pure and Applied Chemistry, 2008, 80, 2609-2626.	1.9	25
44	Size characterization of metal species in liver and brain from free-living (<i>Mus spretus</i>) and laboratory (<i>Mus Musculus</i>) mice by SEC-ICP-MS: Application to environmental contamination assessment. Journal of Analytical Atomic Spectrometry, 2011, 26, 141-149.	3.0	25
45	Biochemical and proteomic effects in <i>Procambarus clarkii</i> after chlorpyrifos or carbaryl exposure under sublethal conditions. Biomarkers, 2009, 14, 299-310.	1.9	24
46	Use of oxidative stress biomarkers in <i>Carcinus maenas</i> to assess littoral zone contamination in Tunisia. Aquatic Biology, 2011, 14, 87-98.	1.4	24
47	Metabolic activation of carcinogenic aromatic amines by fish exposed to environmental pollutants. Environmental and Molecular Mutagenesis, 1995, 25, 50-57.	2.2	23
48	Omics Approaches in Environmental Issues. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2011, 74, 1001-1019.	2.3	22
49	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
50	Redox interconversion of glutathione reductase from <i>Escherichia coli</i> . A study with pure enzyme and cell-free extracts. Molecular and Cellular Biochemistry, 1985, 67, 65-76.	3.1	20
51	Biochemical responses in seabream (<i>Sparus aurata</i>) 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
52	Glutathione-S-transferase isoenzyme patterns in the gilthead seabream (<i>sparus aurata</i>) exposed to environmental contaminants. Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology, 1996, 113, 215-220.	0.5	19
53	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
54	Metal-binding molecules in the organs of <i>Mus musculus</i> by size-exclusion chromatography coupled with UV spectroscopy and ICP-MS. Analytical and Bioanalytical Chemistry, 2008, 390, 17-28.	3.7	19

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55	Immunolocalization of thioredoxin and glutaredoxin in mammalian hypophysis. <i>Molecular and Cellular Endocrinology</i> , 1992, 85, 1-12.	3.2	18
56	Mutagenic activation of aromatic amines by molluscs as a biomarker of marine pollution. , 1998, 31, 282-291.		18
57	iTRAQ analysis of hepatic proteins in free-living <i>Mus spretus</i> mice to assess the contamination status of areas surrounding Doana National Park (SW Spain). <i>Science of the Total Environment</i> , 2015, 523, 16-27.	8.0	18
58	Electron transfer between reduced methyl viologen and oxidized glutathione: A new assay of <i>Saccharomyces cerevisiae</i> glutathione reductase. <i>Archives of Biochemistry and Biophysics</i> , 1986, 250, 373-381.	3.0	17
59	Horse-liver glutathione reductase: Purification and characterization. <i>International Journal of Biochemistry & Cell Biology</i> , 1993, 25, 61-68.	0.5	17
60	Evolution of metallothionein isoforms complexes in hepatic cells of <i>Mus musculus</i> along cadmium exposure. <i>BioMetals</i> , 2013, 26, 639-650.	4.1	17
61	Proteomic analysis in caged Mediterranean crab (<i>Carcinus maenas</i>) and chemical contaminant exposure in Tboulba Harbour, Tunisia. <i>Ecotoxicology and Environmental Safety</i> , 2014, 100, 15-26.	6.0	17
62	Use of Metallomics and Metabolomics to Assess Metal Pollution in Doana National Park (SW Spain). <i>Environmental Science & Technology</i> , 2014, 48, 7747-7755.	10.0	17
63	Functional genomics and metabolomics reveal the toxicological effects of cadmium in <i>Mus musculus</i> mice. <i>Metabolomics</i> , 2015, 11, 1432-1450.	3.0	17
64	2D-DIGE as a proteomic biomarker discovery tool in environmental studies with <i>Procambarus clarkii</i> . <i>Science of the Total Environment</i> , 2017, 584-585, 813-827.	8.0	17
65	Redox interconversion of <i>Escherichia coli</i> glutathione reductase. A study with permeabilized and intact cells. <i>Molecular and Cellular Biochemistry</i> , 1985, 68, 121-30.	3.1	16
66	Development of new molecular procedures for the detection of genetic alterations in man. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1996, 353, 109-121.	1.0	16
67	Redox proteomics as biomarker for assessing the biological effects of contaminants in crayfish from Doana National Park. <i>Science of the Total Environment</i> , 2014, 490, 121-133.	8.0	16
68	Combination of direct infusion mass spectrometry and gas chromatography mass spectrometry for toxicometabolomic study of red blood cells and serum of mice <i>Mus musculus</i> after mercury exposure. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015, 985, 75-84.	2.3	16
69	Mutants of <i>Escherichia coli</i> sensitive to hydrogen peroxide. <i>Current Microbiology</i> , 1983, 8, 251-253.	2.2	15
70	Regulation of horse-liver glutathione reductase. <i>International Journal of Biochemistry & Cell Biology</i> , 1993, 25, 513-520.	0.5	15
71	Tissue, Species, and Environmental Differences in Absolute Quantities of Murine mRNAs Coding for Alpha, Mu, Omega, Pi, and Theta Glutathione S-Transferases. <i>Gene Expression</i> , 2005, 12, 165-176.	1.2	15
72	Dieldrin induces peroxisomal enzymes in fish (<i>Sparus aurata</i>) liver. <i>Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology</i> , 1996, 115, 125-131.	0.5	14

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73	Purification and characterization of multiple glutathione transferase isoenzymes from grey mullet liver. <i>Cellular and Molecular Life Sciences</i> , 1997, 53, 759-768.	5.4	14
74	New Cu,Zn-superoxide dismutase isoenzymes as biomarkers of oxidative stress induced in fish liver by model xenobiotics. <i>Toxicology Letters</i> , 1994, 74, 61-62.	0.8	13
75	Biomarkers to detect environmental pollution. <i>Toxicology Letters</i> , 1996, 88, 79.	0.8	13
76	Uptake and clearance of PCB congeners in <i>Chamaelea gallina</i> : response of oxidative stress biomarkers. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2003, 134, 57-67.	2.6	13
77	Multivariate discriminant analysis distinguishes metal- from non metal-related biomarker responses in the clam <i>Chamaelea gallina</i> . <i>Marine Pollution Bulletin</i> , 2009, 58, 64-71.	5.0	13
78	Metals are directly involved in the redox interconversion of <i>Saccharomyces cerevisiae</i> glutathione reductase. <i>Molecular and Cellular Biochemistry</i> , 1991, 101, 175-87.	3.1	12
79	Glutathione reductase from <i>Saccharomyces cerevisiae</i> undergoes redox interconversion in situ and in vivo. <i>Molecular and Cellular Biochemistry</i> , 1992, 110, 135-143.	3.1	12
80	Superoxide dismutase, glutathione peroxidase, and glutathione reductase in sheep organs. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1996, 115, 451-456.	1.6	12
81	Hepatic proteome changes in <i>Solea senegalensis</i> exposed to contaminated estuarine sediments: a laboratory and in situ survey. <i>Ecotoxicology</i> , 2012, 21, 1194-1207.	2.4	10
82	Speciation of arsenic metabolites in the free-living mouse <i>Mus spretus</i> from Doñana National Park used as a bio-indicator for environmental pollution monitoring. <i>Chemical Papers</i> , 2012, 66, .	2.2	10
83	Rapid method for the determination of glutathione transferase isoenzymes in crude extracts. <i>Journal of Chromatography A</i> , 1992, 609, 141-146.	3.7	9
84	NADPH and oxidized thioredoxin mediate redox interconversion of calf-liver and <i>Escherichia coli</i> thioredoxin reductase. <i>Molecular and Cellular Biochemistry</i> , 1992, 109, 61-9.	3.1	8
85	Using environmental proteomics to assess pollutant response of <i>Carcinus maenas</i> along the Tunisian coast. <i>Science of the Total Environment</i> , 2016, 541, 109-118.	8.0	7
86	High-performance affinity chromatography of NADP+ dehydrogenases from cell-free extracts using a nucleotide analogue as general ligand. <i>Journal of Chromatography A</i> , 1991, 586, 51-59.	3.7	6
87	Purification and determination of glutamine synthetase by high-performance immunoaffinity chromatography. <i>Journal of Chromatography A</i> , 1992, 589, 121-126.	3.7	6
88	Use of Metallomics in Environmental Pollution Assessment Using Mice <i>Mus musculus</i> / <i>Mus spretus</i> as Bioindicators. <i>Current Analytical Chemistry</i> , 2013, 9, 229-243.	1.2	6
89	Use of Metallomics in Environmental Pollution Assessment Using Mice <i>Mus musculus</i> / <i>Mus spretus</i> as Bioindicators. <i>Current Analytical Chemistry</i> , 2013, 9, 229-243.	1.2	6
90	Changes in GST-isoenzyme pattern of some organs of sheep exposed to different levels of pollution. <i>Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology</i> , 1996, 114, 153-158.	0.5	5

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91	Methods for chromatographic and electrophoretic separation and assay of NADP+ oxidoreductases. Biomedical Applications, 1996, 684, 1-23.	1.7	4
92	T-vector cloning and high performance PCR with SuperTth from Thermus thermophilus. Genetic Analysis, Techniques and Applications, 1995, 12, 119-121.	1.5	3
93	Mutagenic activation of arylamines by subcellular fractions of Chamaelea gallina clams exposed to environmental pollutants. Environmental and Molecular Mutagenesis, 2003, 41, 55-63.	2.2	3
94	Variation in Protein Expression Depending on the Severity of Sleep Apnoea-Hypopnoea Syndrome. Archivos De Bronconeumologia, 2010, 46, 288-293.	0.8	3
95	Proteomic analysis through larval development of <i>Solea senegalensis</i> flatfish. Proteomics, 2015, 15, 4105-4119.	2.2	3
96	Principles of Multi-Enzyme Purification by Affinity Chromatography. , 1978, , 441-442.		2
97	The use of biomarkers in ecotoxicology: An overview. Toxicology Letters, 1994, 74, 49.	0.8	1
98	Redox Control of Glutathione and Thioredoxin Reductases. , 1988, , 349-358.		1
99	Changes in Antioxidative Activities Induced by Fe (II) and Fe (III) in Cultured Vero Cells. Archives of Environmental Contamination and Toxicology, 1996, 30, 431-436.	4.1	1
100	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
101	Effects of environmental pollutants on activation of aromatic amines by fish liver and mollusc extracts. Toxicology Letters, 1994, 74, 19.	0.8	0
102	Comparison of the oxidative stress induced by two chemical species of iron in cultured vero cells. Toxicology Letters, 1994, 74, 28.	0.8	0
103	Purification and characterization of glutathione S-transferase isoenzymes from grey mullet (<i>Mugil</i>) Tj ETQq1 1 0.784314 rgBT ₀ /Overlo	0.8	0
104	Seasonal variations of detoxifying and antioxidative enzymes and glutathione levels in gilthead seabream (<i>Sparus aurata</i>). Toxicology Letters, 1994, 74, 60.	0.8	0
105	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
106	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