

Manu Soto

List of Publications by Year in descending order

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98
papers

3,308
citations

136950

32
h-index

161849

54
g-index

109
all docs

109
docs citations

109
times ranked

3085
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellular and subcellular distribution of metals in molluscs. <i>Microscopy Research and Technique</i> , 2002, 56, 358-392.	2.2	401
2	Assessment of biological effects of environmental pollution along the NW Mediterranean Sea using mussels as sentinel organisms. <i>Environmental Pollution</i> , 2007, 148, 236-250.	7.5	142
3	Marine ecosystem health status assessment through integrative biomarker indices: a comparative study after the Prestige oil spill "Mussel Watch". <i>Ecotoxicology</i> , 2013, 22, 486-505.	2.4	135
4	Cell and tissue biomarkers in mussel, and histopathology in hake and anchovy from Bay of Biscay after the Prestige oil spill (Monitoring Campaign 2003). <i>Marine Pollution Bulletin</i> , 2006, 53, 287-304.	5.0	125
5	Biomarkers in mussels from a copper site gradient (Visnes, Norway): An integrated biochemical, histochemical and histological study. <i>Aquatic Toxicology</i> , 2006, 78, S109-S116.	4.0	105
6	Combined use of native and caged mussels to assess biological effects of pollution through the integrative biomarker approach. <i>Aquatic Toxicology</i> , 2013, 136-137, 32-48.	4.0	97
7	Tissue and cell distribution of copper, zinc and cadmium in the mussel, <i>Mytilus galloprovincialis</i> , determined by autometallography. <i>Tissue and Cell</i> , 1996, 28, 557-568.	2.2	81
8	Application of a battery of biomarkers in mussel digestive gland to assess long-term effects of the Prestige oil spill in Galicia and Bay of Biscay: Tissue-level biomarkers and histopathology. <i>Journal of Environmental Monitoring</i> , 2011, 13, 915.	2.1	79
9	Behaviour of Au-citrate nanoparticles in seawater and accumulation in bivalves at environmentally relevant concentrations. <i>Environmental Pollution</i> , 2013, 174, 134-141.	7.5	79
10	Changes in mussel biometry on exposure to metals: implications in estimation of metal bioavailability in "Mussel-Watch" programmes. <i>Science of the Total Environment</i> , 2000, 247, 175-187.	8.0	70
11	Bioavailable heavy metals in estuarine waters as assessed by metal/shell-weight indices in sentinel mussels <i>Mytilus galloprovincialis</i> . <i>Marine Ecology - Progress Series</i> , 1995, 125, 127-136.	1.9	68
12	Tissue- and cell-specific expression of metallothionein genes in cadmium- and copper-exposed mussels analyzed by in situ hybridization and RT-PCR. <i>Toxicology and Applied Pharmacology</i> , 2007, 220, 186-196.	2.8	66
13	Chemical, biochemical and cellular responses in the digestive gland of the mussel <i>Mytilus galloprovincialis</i> from the Spanish Mediterranean coast. <i>Biomarkers</i> , 2001, 6, 335-350.	1.9	61
14	Biomarkers and trace metals in the digestive gland of indigenous and transplanted mussels, <i>Mytilus galloprovincialis</i> , in Venice Lagoon, Italy. <i>Marine Environmental Research</i> , 2000, 50, 417-423.	2.5	58
15	Subcellular distribution of cadmium and its cellular ligands in mussel digestive gland cells as revealed by combined autometallography and X-ray microprobe analysis. <i>The Histochemical Journal</i> , 2002, 34, 273-280.	0.6	54
16	Metallothionein expression and Neutral Red uptake as biomarkers of metal exposure and effect in <i>Eisenia fetida</i> and <i>Lumbricus terrestris</i> exposed to Cd. <i>European Journal of Soil Biology</i> , 2007, 43, S233-S238.	3.2	51
17	Assessment of biological effects of environmental pollution along the NW Mediterranean Sea using red mullets as sentinel organisms. <i>Environmental Pollution</i> , 2008, 153, 157-168.	7.5	49
18	Tissue-level biomarkers and biological effect of mercury on sentinel slugs, <i>Arion ater</i> . <i>Archives of Environmental Contamination and Toxicology</i> , 1996, 31, 54-62.	4.1	47

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19	Quantitative changes in metallothionein expression in target cell-types in the gills of turbot (<i>Scophthalmus maximus</i>) exposed to Cd, Cu, Zn and after a depuration treatment. <i>Aquatic Toxicology</i> , 2006, 77, 64-77.	4.0	45
20	Signs of recovery of mussels health two years after the Prestige oil spill. <i>Marine Environmental Research</i> , 2006, 62, S337-S341.	2.5	44
21	Towards an integrative soil health assessment strategy: A three tier (integrative biomarker response) approach with <i>Eisenia fetida</i> applied to soils subjected to chronic metal pollution. <i>Science of the Total Environment</i> , 2013, 442, 344-365.	8.0	44
22	Uptake route and resulting toxicity of silver nanoparticles in <i>Eisenia fetida</i> earthworm exposed through Standard OECD Tests. <i>Ecotoxicology</i> , 2016, 25, 1543-1555.	2.4	44
23	Nanoparticle size and combined toxicity of TiO ₂ and DSLS (surfactant) contribute to lysosomal responses in digestive cells of mussels exposed to TiO ₂ nanoparticles. <i>Nanotoxicology</i> , 2016, 10, 1168-1176.	3.0	43
24	Responses to silver nanoparticles and silver nitrate in a battery of biomarkers measured in coelomocytes and in target tissues of <i>Eisenia fetida</i> earthworms. <i>Ecotoxicology and Environmental Safety</i> , 2017, 141, 57-63.	6.0	43
25	Occurrence and Distribution of Metals in Mussels from the Cantabrian Coast. <i>Archives of Environmental Contamination and Toxicology</i> , 2010, 59, 235-243.	4.1	38
26	Digestive cell lysosomes as main targets for Ag accumulation and toxicity in marine mussels, <i>Mytilus galloprovincialis</i> , exposed to maltose-stabilised Ag nanoparticles of different sizes. <i>Nanotoxicology</i> , 2017, 11, 168-183.	3.0	38
27	Metal bioavailability assessment in 'mussel-watch' programmes by automated image analysis of autometallographical black silver deposits (BSD) in digestive cell lysosomes. <i>Marine Ecology - Progress Series</i> , 1997, 156, 141-150.	1.9	38
28	Gentle remediation options for soil with mixed chromium (VI) and lindane pollution: biostimulation, bioaugmentation, phytoremediation and vermiremediation. <i>Heliyon</i> , 2020, 6, e04550.	3.2	37
29	Seasonality in cell and tissue-level biomarkers in <i>Mytilus galloprovincialis</i> : relevance for long-term pollution monitoring. <i>Aquatic Biology</i> , 2010, 9, 203-219.	1.4	37
30	Establishment of toxicity thresholds in subpopulations of coelomocytes (amoebocytes vs. eleocytes) of <i>Eisenia fetida</i> exposed in vitro to a variety of metals: implications for biomarker measurements. <i>Ecotoxicology</i> , 2015, 24, 1004-1013.	2.4	36
31	Effects of Soil Organic Matter Content on Cadmium Toxicity in <i>Eisenia Fetida</i> : Implications for the Use of Biomarkers and Standard Toxicity Tests. <i>Archives of Environmental Contamination and Toxicology</i> , 2015, 68, 181-192.	4.1	36
32	Application of a battery of biomarkers in mussel digestive gland to assess long-term effects of the Prestige oil spill in Galicia and Bay of Biscay: Correlation and multivariate analysis. <i>Journal of Environmental Monitoring</i> , 2011, 13, 933.	2.1	34
33	Biological characterization of the skin of shortfin mako shark <i>Isurus oxyrinchus</i> and preliminary study of the hydrodynamic behaviour through computational fluid dynamics. <i>Journal of Fish Biology</i> , 2015, 87, 123-137.	1.6	33
34	Integrative assessment of the effects produced by Ag nanoparticles at different levels of biological complexity in <i>Eisenia fetida</i> maintained in two standard soils (OECD and LUFA 2.3). <i>Chemosphere</i> , 2017, 181, 747-758.	8.2	33
35	Changes in cell-type composition in digestive gland of slugs and its influence in biomarkers following transplantation between a relatively unpolluted and a chronically metal-polluted site. <i>Environmental Pollution</i> , 2008, 156, 367-379.	7.5	32
36	Evaluation of the effectiveness of a bioremediation process in experimental soils polluted with chromium and lindane. <i>Ecotoxicology and Environmental Safety</i> , 2019, 181, 255-263.	6.0	32

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37	Autometallographical Procedure for the Localization of Metal Traces in Molluscan Tissues by Light Microscopy. <i>Journal of Histotechnology</i> , 1998, 21, 123-127.	0.5	31
38	Application of two SH-based methods for metallothionein determination in mussels and intercalibration of the spectrophotometric method: laboratory and field studies in the Mediterranean Sea. <i>Biomarkers</i> , 2005, 10, 342-359.	1.9	31
39	Bioavailability and cellular effects of metals on <i>Lumbricus terrestris</i> inhabiting volcanic soils. <i>Environmental Pollution</i> , 2006, 142, 103-108.	7.5	31
40	Digestive cell turnover in digestive gland epithelium of slugs experimentally exposed to a mixture of cadmium and kerosene. <i>Chemosphere</i> , 2007, 70, 144-154.	8.2	30
41	Autometallographic localization of protein-bound copper and zinc in the common winkle, <i>Littorina littorea</i> : A light microscopical study. <i>The Histochemical Journal</i> , 1996, 28, 689-701.	0.6	29
42	The contribution of metal/shell-weight index in target-tissues to metal body burden in sentinel marine molluscs. 1. <i>Littorina littorea</i> . <i>Science of the Total Environment</i> , 1997, 198, 135-147.	8.0	29
43	The contribution of metal/shell-weight index in target-tissues to metal body burden in sentinel marine molluscs. 2. <i>Mytilus galloprovincialis</i> . <i>Science of the Total Environment</i> , 1997, 198, 149-160.	8.0	28
44	Dynamic Quality Index for agricultural soils based on fuzzy logic. <i>Ecological Indicators</i> , 2016, 60, 678-692.	6.3	28
45	Chemical contamination assessment in mangrove-lined Caribbean coastal systems using the oyster <i>Crassostrea rhizophorae</i> as biomonitor species. <i>Environmental Science and Pollution Research</i> , 2018, 25, 13396-13415.	5.3	28
46	Lysosomal and tissue-level biomarkers in mussels cross-transplanted among four estuaries with different pollution levels. <i>Science of the Total Environment</i> , 2014, 472, 36-48.	8.0	27
47	Influence of season-depending ecological variables on biomarker baseline levels in mussels (<i>Mytilus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 101	8.0	27
48	Integrated coastal monitoring of a gas processing plant using native and caged mussels. <i>Science of the Total Environment</i> , 2012, 426, 375-386.	8.0	26
49	Successive Onset of Molecular, Cellular and Tissue-Specific Responses in Midgut Gland of <i>Littorina littorea</i> Exposed to Sub-Lethal Cadmium Concentrations. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1815.	4.1	25
50	Autometallography and metallothionein immunohistochemistry in hepatocytes of turbot (<i>Scophthalmus maximus</i> L.) after exposure to cadmium and depuration treatment. <i>Biomarkers</i> , 2002, 7, 491-500.	1.9	24
51	Health status assessment through an integrative biomarker approach in mussels of different ages with a different history of exposure to the Prestige oil spill. <i>Science of the Total Environment</i> , 2014, 493, 65-78.	8.0	24
52	STEM-in-SEM high resolution imaging of gold nanoparticles and bivalve tissues in bioaccumulation experiments. <i>Analyst, The</i> , 2015, 140, 3082-3089.	3.5	24
53	Cellular biomarkers of exposure and biological effect in hepatocytes of turbot (<i>Scophthalmus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 101	4.0	23
54	The EU Horizon 2020 project GRACE: integrated oil spill response actions and environmental effects. <i>Environmental Sciences Europe</i> , 2019, 31, .	5.5	23

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55	BSD Extent, an Index for Metal Pollution Screening Based on the Metal Content within Digestive Cell Lysosomes of Mussels as Determined by Autometallography. <i>Ecotoxicology and Environmental Safety</i> , 1997, 37, 141-151.	6.0	22
56	Toxicity assessment through multiple endpoint bioassays in soils posing environmental risk according to regulatory screening values. <i>Environmental Science and Pollution Research</i> , 2014, 21, 9689-9708.	5.3	22
57	Application of in situ bioremediation strategies in soils amended with sewage sludges. <i>Science of the Total Environment</i> , 2021, 766, 144099.	8.0	22
58	Optimization of NRU assay in primary cultures of <i>Eisenia fetida</i> for metal toxicity assessment. <i>Ecotoxicology</i> , 2014, 23, 1326-1335.	2.4	20
59	Application of ecological risk assessment based on a novel TRIAD-tiered approach to contaminated soil surrounding a closed non-sealed landfill. <i>Science of the Total Environment</i> , 2015, 514, 49-59.	8.0	20
60	Assessment of the effects of Cu and Ag in oysters <i>Crassostrea gigas</i> (Thunberg, 1793) using a battery of cell and tissue level biomarkers. <i>Marine Environmental Research</i> , 2016, 122, 11-22.	2.5	20
61	Bioaccumulation, tissue and cell distribution, biomarkers and toxicopathic effects of CdS quantum dots in mussels, <i>Mytilus galloprovincialis</i> . <i>Ecotoxicology and Environmental Safety</i> , 2019, 167, 288-300.	6.0	18
62	Freshwater molluscs from volcanic areas as model organisms to assess adaptation to metal chronic pollution. <i>Science of the Total Environment</i> , 2006, 371, 168-175.	8.0	15
63	Tracing platinum accumulation kinetics in oyster <i>Crassostrea gigas</i> , a sentinel species in coastal marine environments. <i>Science of the Total Environment</i> , 2018, 615, 652-663.	8.0	15
64	Selection of an optimal culture medium and the most responsive viability assay to assess AgNPs toxicity with primary cultures of <i>Eisenia fetida</i> coelomocytes. <i>Ecotoxicology and Environmental Safety</i> , 2019, 183, 109545.	6.0	14
65	Changes in metallothionein transcription levels in the mussel <i>Mytilus galloprovincialis</i> exposed to CdTe quantum dots. <i>Ecotoxicology</i> , 2018, 27, 402-410.	2.4	13
66	Seasonal variability in the quantitative structure of the digestive tubules of <i>Littorina littorea</i> . <i>Aquatic Living Resources</i> , 1992, 5, 299-305.	1.2	12
67	Autometallographed metal content in digestive cells of winkles: a cost-effective screening tool for monitoring Cu and Zn pollution. <i>Aquatic Toxicology</i> , 1998, 40, 123-140.	4.0	11
68	Molecular cloning and measurement of telomerase reverse transcriptase (TERT) transcription patterns in tissues of European hake (<i>Merluccius merluccius</i>) and Atlantic cod (<i>Gadus morhua</i>) during aging. <i>Gene</i> , 2014, 541, 8-18.	2.2	10
69	Silver and copper bioaccumulation kinetics in oyster <i>Crassostrea gigas</i> tissues at environmentally relevant exposure levels using stable isotope spikes. <i>Estuarine, Coastal and Shelf Science</i> , 2016, 179, 135-144.	2.1	10
70	Immunolocalization of metallothioneins in different tissues of turbot (<i>Scophthalmus maximus</i>) exposed to Cd. <i>Histology and Histopathology</i> , 2007, 22, 719-28.	0.7	10
71	Lysosomal responses to different gold forms (nanoparticles, aqueous, bulk) in mussel digestive cells: a trade-off between the toxicity of the capping agent and form, size and exposure concentration. <i>Nanotoxicology</i> , 2017, 11, 658-670.	3.0	9
72	Autometallographical localisation of Cu and Zn within target cell compartments of winkles following exposure to Cu&Zn mixtures. <i>European Journal of Histochemistry</i> , 1999, 43, 323-34.	1.5	9

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73	Morphological Characterization and Hydrodynamic Behavior of Shortfin Mako Shark (<i>Isurus</i>) Tj ETQq1 1 0.784314 ggBT/Overlock 10	5.0	10
74	Biomonitoring of environmental pollution along the Basque coast, using molecular, cellular and tissue-level biomarkers: an integrative approach. Elsevier Oceanography Series, 2004, 70, 335-364.	0.1	7
75	Assessment of health status of oysters (<i>Crassostrea gigas</i>) exposed to environmentally relevant concentrations of Ag and Cu in brackish waters. Journal of Sea Research, 2017, 130, 229-238.	1.6	6
76	Enhanced discrimination of basophilic cells on mussel digestive gland tissue sections by means of toluidine-eosin staining. Journal of Invertebrate Pathology, 2019, 161, 29-39.	3.2	6
77	Organotropism and biomarker response in oyster <i>Crassostrea gigas</i> exposed to platinum in seawater. Environmental Science and Pollution Research, 2020, 27, 3584-3599.	5.3	6
78	Reviewing <i>Pseudoloma neurophilia</i> infections in the popular zebrafish model. Reviews in Aquaculture, 2021, 13, 1816-1827.	9.0	6
79	Zonation in the digestive tract of <i>Eisenia fetida</i> : Implications in biomarker measurements for toxicity assessment. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2014, 160, 42-53.	2.6	5
80	Combining chemical and biological endpoints, a major challenge for twenty-first century environmental specimen banks. Environmental Science and Pollution Research, 2015, 22, 1631-1634.	5.3	5
81	Effects of elevated temperatures and cadmium exposure on stress biomarkers at different biological complexity levels in <i>Eisenia fetida</i> earthworms. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2020, 231, 108735.	2.6	5
82	Histochemistry and elemental composition of the stomach cells in <i>Littorina littorea</i> (L.). Folia Histochemica Et Cytobiologica, 1990, 28, 239-48.	1.5	5
83	Variability and distribution of parasites, pathologies and their effect on wild mussels (<i>Mytilus</i> sp) in different environments along a wide latitudinal span in the Northern Atlantic and Arctic Oceans. Marine Environmental Research, 2022, 176, 105585.	2.5	5
84	Predicting environmental concentrations and the potential risk of Plant Protection Products (PPP) on non-target soil organisms accounting for regional and landscape ecological variability in european soils. Chemosphere, 2022, 303, 135045.	8.2	5
85	Sea Bass Primary Cultures versus RTgill-W1 Cell Line: Influence of Cell Model on the Sensitivity to Nanoparticles. Nanomaterials, 2021, 11, 3136.	4.1	3
86	Infection Rate in Seabasses Fed with Viscera Parasitised by Anisakid Larvae. Acta Parasitologica, 2022, 67, 835-841.	1.1	3
87	A PLANIMETRIC STUDY OF MORPHOLOGICAL VARIABILITY IN THE DIGESTIVE DIVERTICULA OF LITTORINA LITTORAEA (LINNAEUS) AND MYTILUS EDULIS LINNAEUS. Journal of Molluscan Studies, 1990, 56, 339-344.	1.2	2
88	Assessing the variability of telomere length measures by means of Telomeric Restriction Fragments (TRF) in different tissues of cod <i>Gadus morhua</i> . Gene Reports, 2016, 5, 117-125.	0.8	2
89	Autometallographical Procedure for the Localization of Metal Traces in Molluscan Tissues by Light Microscopy. Journal of Histotechnology, 1998, 21, 123-127.	0.5	2
90	Impacts of sewage sludges deposition on agricultural soils: Effects upon model soil organisms. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2022, 255, 109276.	2.6	2

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91	Tissue-Level Biomarkers and Biological Effect of Mercury on Sentinel Slugs, <i>Arion ater</i> . <i>Archives of Environmental Contamination and Toxicology</i> , 1996, 31, 54-62.	4.1	2
92	Silver accumulation in oysters from the Gironde Estuary (France): Distribution between different organs and histopathological alterations based on microscopical observations. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2012, 163, S20-S21.	1.8	1
93	Nanoparticles Under the Spotlight. , 2019, , 169-188.		1
94	Introduction: Studies on metal localization in animal cells. <i>Microscopy Research and Technique</i> , 2002, 56, 315-317.	2.2	0
95	Neutral red uptake assay with coelomocytes of <i>Eisenia fetida</i> as an effective and reliable screening method for soil health assessment. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2009, 153, S88.	1.8	0
96	Metal pollution assessment in different seasons of the year in the Oka river estuary using cell and tissue level biomarkers in oysters. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2012, 163, S21.	1.8	0
97	Lurzoru kutsatuen karakterizazio intentsiboa in vivo eta in silico fokatzek erabiliz. <i>Ekaia (journal)</i> , 0, , .	0.0	0
98	Araztegi lokatzak jasotako lurzoruaaren analisi toxikologikoa zizare eta landareak erabiliz. <i>Ekaia (journal)</i> , 0, , .	0.0	0