

# Maria S Sep̃olveda

## List of Publications by Year in descending order

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97  
papers

3,611  
citations

109137

35  
h-index

155451

55  
g-index

104  
all docs

104  
docs citations

104  
times ranked

4918  
citing authors

#	ARTICLE	IF	CITATIONS
1	The effects of silver nanoparticles on fathead minnow ( <i>Pimephales promelas</i> ) embryos. <i>Ecotoxicology</i> , 2010, 19, 185-195.	1.1	204
2	Assessing the Ecological Risks of Per- and Polyfluoroalkyl Substances: Current State of the Science and a Proposed Path Forward. <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 564-605.	2.2	166
3	A review of studies on androgen and estrogen exposure in fish early life stages: effects on gene and hormonal control of sexual differentiation. <i>Journal of Applied Toxicology</i> , 2011, 31, 379-398.	1.4	146
4	Multiple origins of pyrethroid insecticide resistance across the species complex of a nontarget aquatic crustacean, <i>Hyaella azteca</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16532-16537.	3.3	131
5	Acute and chronic toxicity of atrazine and its metabolites deethylatrazine and deisopropylatrazine on aquatic organisms. <i>Ecotoxicology</i> , 2009, 18, 899-905.	1.1	100
6	Agricultural Contributions of Antimicrobials and Hormones on Soil and Water Quality. <i>Advances in Agronomy</i> , 2007, , 1-68.	2.4	96
7	Transcriptome Alterations Following Developmental Atrazine Exposure in Zebrafish Are Associated with Disruption of Neuroendocrine and Reproductive System Function, Cell Cycle, and Carcinogenesis. <i>Toxicological Sciences</i> , 2013, 132, 458-466.	1.4	89
8	Development of GCxGC/TOF-MS metabolomics for use in ecotoxicological studies with invertebrates. <i>Aquatic Toxicology</i> , 2008, 88, 48-52.	1.9	80
9	Review of recent proteomic applications in aquatic toxicology. <i>Environmental Toxicology and Chemistry</i> , 2011, 30, 274-282.	2.2	79
10	Endocrine-disrupting activity of per- and polyfluoroalkyl substances: Exploring combined approaches of ligand and structure based modeling. <i>Chemosphere</i> , 2017, 184, 514-523.	4.2	79
11	The Toxicogenome of <i>Hyaella azteca</i> : A Model for Sediment Ecotoxicology and Evolutionary Toxicology. <i>Environmental Science &amp; Technology</i> , 2018, 52, 6009-6022.	4.6	79
12	Gene expression responses in male fathead minnows exposed to binary mixtures of an estrogen and antiestrogen. <i>BMC Genomics</i> , 2009, 10, 308.	1.2	74
13	Effects of clothianidin on aquatic communities: Evaluating the impacts of lethal and sublethal exposure to neonicotinoids. <i>PLoS ONE</i> , 2017, 12, e0174171.	1.1	71
14	An embryonic atrazine exposure results in reproductive dysfunction in adult zebrafish and morphological alterations in their offspring. <i>Scientific Reports</i> , 2016, 6, 21337.	1.6	65
15	Thyroid disrupting effects of halogenated and next generation chemicals on the swim bladder development of zebrafish. <i>Aquatic Toxicology</i> , 2017, 193, 228-235.	1.9	63
16	Embryonic atrazine exposure alters zebrafish and human miRNAs associated with angiogenesis, cancer, and neurodevelopment. <i>Food and Chemical Toxicology</i> , 2016, 98, 25-33.	1.8	58
17	Protein Corona Analysis of Silver Nanoparticles Exposed to Fish Plasma. <i>Environmental Science and Technology Letters</i> , 2017, 4, 174-179.	3.9	57
18	Development of an adverse outcome pathway for nanoplastic toxicity in <i>Daphnia pulex</i> using proteomics. <i>Science of the Total Environment</i> , 2021, 766, 144249.	3.9	55

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19	Exposure route affects the distribution and toxicity of polystyrene nanoplastics in zebrafish. <i>Science of the Total Environment</i> , 2020, 724, 138065.	3.9	54
20	Developmental origins of neurotransmitter and transcriptome alterations in adult female zebrafish exposed to atrazine during embryogenesis. <i>Toxicology</i> , 2015, 333, 156-167.	2.0	52
21	Comparative <i>in vitro</i> toxicity assessment of perfluorinated carboxylic acids. <i>Journal of Applied Toxicology</i> , 2017, 37, 699-708.	1.4	52
22	Developmental exposure to perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA) selectively decreases brain dopamine levels in Northern leopard frogs. <i>Toxicology and Applied Pharmacology</i> , 2019, 377, 114623.	1.3	52
23	PREDICTING MATERNAL BODY BURDENS OF ORGANOCHLORINE PESTICIDES FROM EGGS AND EVIDENCE OF MATERNAL TRANSFER IN ALLIGATOR MISSISSIPPIENSIS. <i>Environmental Toxicology and Chemistry</i> , 2004, 23, 2906.	2.2	51
24	Silver nanoparticle-specific mitotoxicity in <i>Daphnia magna</i> . <i>Nanotoxicology</i> , 2014, 8, 833-842.	1.6	51
25	Intersex in fishes and amphibians: population implications, prevalence, mechanisms and molecular biomarkers. <i>Journal of Applied Toxicology</i> , 2015, 35, 1228-1240.	1.4	50
26	Effects of estrogens and antiestrogens on gene expression of fathead minnow ( <i>Pimephales</i> )	2.1	49
27	Assessing Impacts of Land-Applied Manure from Concentrated Animal Feeding Operations on Fish Populations and Communities. <i>Environmental Science &amp; Technology</i> , 2012, 46, 13440-13447.	4.6	48
28	Rapid evolution meets invasive species control: the potential for pesticide resistance in sea lamprey. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2018, 75, 152-168.	0.7	47
29	Acute and chronic effects of perfluoroalkyl substance mixtures on larval American bullfrogs ( <i>Rana</i> )	4.2	44
30	<i>In vitro</i> and <i>in silico</i> modeling of perfluoroalkyl substances mixture toxicity in an amphibian fibroblast cell line. <i>Chemosphere</i> , 2019, 233, 25-33.	4.2	44
31	Acute mixture toxicity of halogenated chemicals and their next generation counterparts on zebrafish embryos. <i>Chemosphere</i> , 2017, 181, 710-712.	4.2	43
32	Sexually dimorphic gene expression in the gonad and liver of shovelnose sturgeon ( <i>Scaphirhynchus</i> )	8.9	41
33	Liver proteome response of largemouth bass ( <i>Micropterus salmoides</i> ) exposed to several environmental contaminants: Potential insights into biomarker development. <i>Aquatic Toxicology</i> , 2009, 95, 52-59.	1.9	40
34	Presence and effects of pharmaceutical and personal care products on the Baca National Wildlife Refuge, Colorado. <i>Chemosphere</i> , 2015, 120, 750-755.	4.2	37
35	Emerging trends in nanoparticle toxicity and the significance of using <i>Daphnia</i> as a model organism. <i>Chemosphere</i> , 2022, 291, 132941.	4.2	37
36	Oxygen Flux As an Indicator of Physiological Stress in Fathead Minnow ( <i>Pimephales promelas</i> ) Embryos: A Real-Time Biomonitoring System of Water Quality. <i>Environmental Science &amp; Technology</i> , 2008, 42, 7010-7017.	4.6	36

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37	Uptake and Depuration of Four Per/Polyfluoroalkyl Substances (PFASS) in Northern Leopard Frog <i>Rana pipiens</i> Tadpoles. <i>Environmental Science and Technology Letters</i> , 2017, 4, 399-403.	3.9	36
38	Per- and Polyfluoroalkyl Substances (PFAS) Neurotoxicity in Sentinel and Non-Traditional Laboratory Model Systems: Potential Utility in Predicting Adverse Outcomes in Human Health. <i>Toxics</i> , 2020, 8, 42.	1.6	36
39	MicroRNAs are involved in cadmium tolerance in <i>Daphnia pulex</i> . <i>Aquatic Toxicology</i> , 2016, 175, 241-248.	1.9	35
40	Embryonic atrazine exposure elicits proteomic, behavioral, and brain abnormalities with developmental time specific gene expression signatures. <i>Journal of Proteomics</i> , 2018, 186, 71-82.	1.2	35
41	Organochlorine Pesticides and Thiamine in Eggs of Largemouth Bass and American Alligators and Their Relationship with Early Life-stage Mortality. <i>Journal of Wildlife Diseases</i> , 2004, 40, 782-786.	0.3	34
42	Novel Cadmium Responsive MicroRNAs in <i>Daphnia pulex</i> . <i>Environmental Science &amp; Technology</i> , 2015, 49, 14605-14613.	4.6	34
43	Environmental hormones and their impacts on sex differentiation in fathead minnows. <i>Aquatic Toxicology</i> , 2015, 158, 98-107.	1.9	33
44	Vascular toxicity of silver nanoparticles to developing zebrafish ( <i>Danio rerio</i> ). <i>Nanotoxicology</i> , 2016, 10, 1363-1372.	1.6	32
45	Embryonic Atrazine Exposure Elicits Alterations in Genes Associated with Neuroendocrine Function in Adult Male Zebrafish. <i>Toxicological Sciences</i> , 2016, 153, 149-164.	1.4	31
46	No evidence of microplastic impacts on consumption or growth of larval <i>Pimephales promelas</i> . <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 2912-2918.	2.2	31
47	Larval amphibians rapidly bioaccumulate poly- and perfluoroalkyl substances. <i>Ecotoxicology and Environmental Safety</i> , 2019, 178, 137-145.	2.9	31
48	Comparison of zebrafish in vitro and in vivo developmental toxicity assessments of perfluoroalkyl acids (PFAAs). <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2021, 84, 125-136.	1.1	31
49	Metabolite Profiles in Starved <i>Diporeia</i> spp. Using Liquid Chromatography-Mass Spectrometry (LC-MS) Based Metabolomics. <i>Journal of Crustacean Biology</i> , 2012, 32, 239-248.	0.3	28
50	Effects of triclocarban, <i>N,N</i> -diethyl- <i>p</i> -toluamide, and a mixture of pharmaceuticals and personal care products on fathead minnows ( <i>Pimephales promelas</i> ). <i>Environmental Toxicology and Chemistry</i> , 2014, 33, 910-919.	2.2	28
51	Nanosilver-coated socks and their toxicity to zebrafish ( <i>Danio rerio</i> ) embryos. <i>Chemosphere</i> , 2015, 119, 948-952.	4.2	27
52	Starvation causes disturbance in amino acid and fatty acid metabolism in <i>Diporeia</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2012, 161, 348-355.	0.7	25
53	Sex-specific endocrine-disrupting effects of three halogenated chemicals in Japanese medaka. <i>Journal of Applied Toxicology</i> , 2019, 39, 1215-1223.	1.4	25
54	Characterization of ontogenetic changes in gene expression in the fathead minnow ( <i>Pimephales</i> )	2.2	24

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55	Helminth Collection and Identification from Wildlife. <i>Journal of Visualized Experiments</i> , 2013, , e51000.	0.2	24
56	Sublethal Effects of Dermal Exposure to Poly- and Perfluoroalkyl Substances on Postmetamorphic Amphibians. <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 717-726.	2.2	24
57	Fluctuating Water Temperatures Affect Development, Physiological Responses and Cause Sex Reversal in Fathead Minnows. <i>Environmental Science &amp; Technology</i> , 2015, 49, 1921-1928.	4.6	23
58	Species-specific effects of subdaily temperature fluctuations on consumption, growth and stress responses in two physiologically similar fish species. <i>Ecology of Freshwater Fish</i> , 2016, 25, 465-475.	0.7	23
59	Gonadal intersex in smallmouth bass <i>Micropterus dolomieu</i> from northern Indiana with correlations to molecular biomarkers and anthropogenic chemicals. <i>Environmental Pollution</i> , 2017, 230, 1099-1107.	3.7	22
60	Combined effects of Deepwater Horizon crude oil and environmental stressors on <i>Fundulus grandis</i> embryos. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 1916-1925.	2.2	22
61	Rapid resistance to pesticide control is predicted to evolve in an invasive fish. <i>Scientific Reports</i> , 2019, 9, 18157.	1.6	22
62	Use of GC–GC/TOFMS and LC/TOFMS for metabolomic analysis of <i>Hyaella azteca</i> chronically exposed to atrazine and its primary metabolite, desethylatrazine. <i>Journal of Applied Toxicology</i> , 2011, 31, 399-410.	1.4	21
63	Mitochondrial Dysfunction, Disruption of F-Actin Polymerization, and Transcriptomic Alterations in Zebrafish Larvae Exposed to Trichloroethylene. <i>Chemical Research in Toxicology</i> , 2016, 29, 169-179.	1.7	21
64	Chronic Per- and Polyfluoroalkyl Substance Exposure Under Environmentally Relevant Conditions Delays Development in Northern Leopard Frog ( <i>Rana pipiens</i> ) Larvae. <i>Environmental Toxicology and Chemistry</i> , 2021, 40, 711-716.	2.2	20
65	Transgenerational effects of polycyclic aromatic hydrocarbon exposure on sheepshead minnows ( <i>Cyprinodon variegatus</i> ). <i>Environmental Toxicology and Chemistry</i> , 2019, 38, 638-649.	2.2	18
66	Transcriptional response of hepatic largemouth bass ( <i>Micropterus salmoides</i> ) mRNA upon exposure to environmental contaminants. <i>Journal of Applied Toxicology</i> , 2011, 31, 108-116.	1.4	17
67	Combined effects of salinity, temperature, hypoxia, and Deepwater Horizon oil on <i>Fundulus grandis</i> larvae. <i>Ecotoxicology and Environmental Safety</i> , 2019, 181, 106-113.	2.9	17
68	Comparative Toxicity of Aquatic Per- and Polyfluoroalkyl Substance Exposure in Three Species of Amphibians. <i>Environmental Toxicology and Chemistry</i> , 2022, 41, 1407-1415.	2.2	16
69	Acute exposure to oil induces age and species-specific transcriptional responses in embryo-larval estuarine fish. <i>Environmental Pollution</i> , 2020, 263, 114325.	3.7	15
70	A Single Sea Lamprey Attack Causes Acute Anemia and Mortality in Lake Sturgeon. <i>Journal of Aquatic Animal Health</i> , 2012, 24, 91-99.	0.6	14
71	Lifelong Exposure to Dioxin-Like PCBs Alters Paternal Offspring Care Behavior and Reduces Male Fish Reproductive Success. <i>Environmental Science &amp; Technology</i> , 2019, 53, 11507-11514.	4.6	14
72	Dietary exposure and accumulation of per- and polyfluoroalkyl substances alters growth and reduces body condition of post-metamorphic salamanders. <i>Science of the Total Environment</i> , 2021, 765, 142730.	3.9	14

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73	NECROPSY FINDINGS IN AMERICAN ALLIGATOR LATE-STAGE EMBRYOS AND HATCHLINGS FROM NORTHCENTRAL FLORIDA LAKES CONTAMINATED WITH ORGANOCHLORINE PESTICIDES. <i>Journal of Wildlife Diseases</i> , 2006, 42, 56-73.	0.3	12
74	Elucidating Causes of Diporeia Decline in the Great Lakes via Metabolomics: Physiological Responses after Exposure to Different Stressors. <i>Physiological and Biochemical Zoology</i> , 2013, 86, 213-223.	0.6	12
75	Growth and behavioral effects of the lampricide TFM on non-target fish species. <i>Journal of Great Lakes Research</i> , 2014, 40, 1010-1015.	0.8	12
76	Incipient resistance to an effective pesticide results from genetic adaptation and the canalization of gene expression. <i>Evolutionary Applications</i> , 2021, 14, 847-859.	1.5	12
77	Proteomics in aquatic amphipods: Can it be used to determine mechanisms of toxicity and interspecies responses after exposure to atrazine?. <i>Environmental Toxicology and Chemistry</i> , 2011, 30, 1197-1203.	2.2	11
78	Blood Chemistry Values for Shovelnose and Lake Sturgeon. <i>Journal of Aquatic Animal Health</i> , 2012, 24, 135-140.	0.6	11
79	Molecular signaling pathways elicited by 17 $\beta$ -ethinylestradiol in Japanese medaka male larvae undergoing gonadal differentiation. <i>Aquatic Toxicology</i> , 2019, 208, 187-195.	1.9	11
80	Rapid genetic adaptation to recently colonized environments is driven by genes underlying life history traits. <i>BMC Genomics</i> , 2021, 22, 269.	1.2	11
81	Ovarian structure protein 1: A sensitive molecular biomarker of gonadal intersex in female Japanese medaka after androgen exposure. <i>Environmental Toxicology and Chemistry</i> , 2015, 34, 2087-2094.	2.2	10
82	Acute Toxicity of Eight Aqueous Film-Forming Foams to 14 Aquatic Species. <i>Environmental Science &amp; Technology</i> , 2022, 56, 6078-6090.	4.6	10
83	Behavioral and physiological responses of yellow perch ( <i>Perca flavescens</i> ) to moderate hypoxia. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2017, 209, 47-55.	0.8	9
84	In Silico Prediction and In Vivo Validation of <i>Daphnia pulex</i> Micrnas. <i>PLoS ONE</i> , 2014, 9, e83708.	1.1	8
85	Relative acute toxicity of three perâ€and polyfluoroalkyl substances on nine species of larval amphibians. <i>Integrated Environmental Assessment and Management</i> , 2021, 17, 684-690.	1.6	8
86	The aqueous extract of <i>Fridericia chica</i> grown in northern Colombia ameliorates toxicity induced by Tergitol on <i>Caenorhabditis elegans</i> . <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2021, 244, 109026.	1.3	8
87	Parental exposure to Deepwater Horizon oil in different environmental scenarios alters development of sheepshead minnow ( <i>Cyprinodon variegatus</i> ) offspring. <i>Marine Environmental Research</i> , 2019, 150, 104762.	1.1	7
88	Effects of Multiple Electrical Field Exposures on Cyprinid Embryo Survival. <i>North American Journal of Fisheries Management</i> , 2012, 32, 875-879.	0.5	5
89	Effects of polycyclic aromatic hydrocarbons and abiotic stressors on <i>Fundulus grandis</i> cardiac transcriptomics. <i>Science of the Total Environment</i> , 2021, 752, 142156.	3.9	5
90	Comparative study of non-invasive methods for assessing <i>Daphnia magna</i> embryo toxicity. <i>Environmental Science and Pollution Research</i> , 2014, 21, 10803-10814.	2.7	4

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91	Exposure to Oil and Hypoxia Results in Alterations of Immune Transcriptional Patterns in Developing Sheepshead Minnows ( <i>Cyprinodon variegatus</i> ). <i>Scientific Reports</i> , 2020, 10, 1684.	1.6	4
92	First Record of a <i>Polypodium</i> sp. Parasitizing Eggs of Shovelnose Sturgeon from the Wabash River, Indiana. <i>Journal of Aquatic Animal Health</i> , 2010, 22, 36-38.	0.6	3
93	The impact of salinity and dissolved oxygen regimes on transcriptomic immune responses to oil in early life stage <i>Fundulus grandis</i> . <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2021, 37, 100753.	0.4	3
94	In vivo visual reporter system for estrogenic contaminant exposure using transgenic see-through Japanese medaka <i>Oryzias latipes</i> . <i>Chemosphere</i> , 2018, 201, 251-253.	4.2	2
95	The influence of hypoxia on the cardiac transcriptomes of two estuarine species - <i>C. variegatus</i> and <i>F. grandis</i> . <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2021, 39, 100837.	0.4	2
96	Oil induced cardiac effects in embryonic sheepshead minnows, <i>Cyprinodon variegatus</i> . <i>Chemosphere</i> , 2022, 288, 132482.	4.2	2
97	Haemodynamic dependence of mechano-genetic evolution of the cardiovascular system in Japanese medaka. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210752.	1.5	0