Gerald A Leblanc

List of Publications by Year
in descending order

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103 papers	6,352 citations	44042 48 h-index	66879 78 g-index
104 all docs	104 docs citations	104 times ranked	5169 citing authors

#	Article	IF	Citations
1	An ecological assessment of bisphenol-A: Evidence from comparative biology. Reproductive Toxicology, 2007, 24, 225-239.	1.3	453
2	Crustacean endocrine toxicology: a review. Ecotoxicology, 2007, 16, 61-81.	1.1	246
3	Acute toxicity of priority pollutants to water flea (Daphnia magna). Bulletin of Environmental Contamination and Toxicology, 1980, 24, 684-691.	1.3	212
4	Juvenoid hormone methyl farnesoate is a sex determinant in the crustaceanDaphnia magna. The Journal of Experimental Zoology, 2002, 293, 736-739.	1.4	209
5	Effects of Prenatal Testosterone Propionate on the Sexual Development of Male and Female Rats: A Dose-Response Study. Toxicological Sciences, 2002, 65, 71-86.	1.4	186
6	Characterization of the Period of Sensitivity of Fetal Male Sexual Development to Vinclozolin. Toxicological Sciences, 2000, 55, 152-161.	1.4	156
7	Insecticidal juvenile hormone analogs stimulate the production of male offspring in the crustacean Daphnia magna.. Environmental Health Perspectives, 2003, 111, 919-924.	2.8	134
8	Fathead minnow vitellogenin: Complementary DNA sequence and messenger RNA and protein expression after 17Î²â€estradiol treatment. Environmental Toxicology and Chemistry, 2000, 19, 972-981.	2.2	133
9	An environmental safety assessment of butyl benzyl phthalate. Environmental Science & Technology, 1980, 14, 301-305.	4.6	128
10	An Integrated Addition and Interaction Model for Assessing Toxicity of Chemical Mixtures. Toxicological Sciences, 2005, 87, 520-528.	1.4	128
11	Trophic-Level Differences in the Bioconcentration of Chemicals: Implications in Assessing Environmental Biomagnification. Environmental Science & Technology, 1995, 29, 154-160.	4.6	114
12	The biocide tributyltin reduces the accumulation of testosterone as fatty acid esters in the mud snail (Ilyanassa obsoleta).. Environmental Health Perspectives, 2003, 111, 426-430.	2.8	96
13	Interspecies relationships in acute toxicity of chemicals to aquatic organisms. Environmental Toxicology and Chemistry, 1984, 3, 47-60.	2.2	95
14	Effects of endocrineâ€active chemicals on the development of sex characteristics of Daphnia magna. Environmental Toxicology and Chemistry, 2000, 19, 2107-2113.	2.2	92
15	Environmental-endocrine control of reproductive maturation in gastropods: implications for the mechanism of tributyltin-induced imposex in prosobranchs. Ecotoxicology, 2010, 19, 4-23.	1.1	91
16	Environmental antiecdysteroids alter embryo development in the crustaceanDaphnia magna. The Journal of Experimental Zoology, 2002, 292, 287-292.	1.4	89
17	Laboratory investigation into the development of resistance of Daphnia magna (strauus) to environmental pollutants. Environmental Pollution Series A, Ecological and Biological, 1982, 27, 309-322.	0.8	88
18	Regulation and dysregulation of vitellogenin mRNA accumulation in daphnids (Daphnia magna). Aquatic Toxicology, 2011, 101, 351-357.	1.9	87

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19	Pituitary Regulation of the Male-Specific Steroid 6Î²-Hydroxylase P-450 2a (gene product IIIA2) in Adult Rat Liver. Suppressive Influence of Growth Hormone and Thyroxine Acting at a Pretranslational Level. Molecular Endocrinology, 1990, 4, 447-454.	3.7	86
20	Biotransformation and Disposition of Testosterone in the Eastern Mud Snail Ilyanassa obsoleta. General and Comparative Endocrinology, 2001, 122, 172-180.	0.8	86
21	Identification of multiple steroid hydroxylases in Daphnia magna and their modulation by xenobiotics. Environmental Toxicology and Chemistry, 1994, 13, 1013-1021.	2.2	84
22	Investigation of the microplastics profile in sludge from Chinaâ€™s largest Water reclamation plant using a feasible isolation device. Journal of Hazardous Materials, 2020, 388, 122067.	6.5	84
23	The fungicide propiconazole interferes with embryonic development of the crustacean Daphnia magna. Environmental Toxicology and Chemistry, 2001, 20, 502-509.	2.2	82
24	In vivo biotransformation of testosterone by phase I and II detoxication enzymes and their modulation by 20-hydroxyecdysone in Daphnia magna. Aquatic Toxicology, 1994, 29, 103-117.	1.9	76
25	Neonatal Low- and High-Dose Exposure to Estradiol Benzoate in the Male Rat: I. Effects on the Prostate Gland1. Biology of Reproduction, 2001, 65, 1496-1505.	1.2	76
26	Stress signaling: coregulation of hemoglobin and male sex determination through a terpenoid signaling pathway in a crustacean. Journal of Experimental Biology, 2005, 208, 15-23.	0.8	76
27	Annotation, phylogenetics, and expression of the nuclear receptors in Daphnia pulex. BMC Genomics, 2009, 10, 500.	1.2	76
28	Neonatal Low- and High-Dose Exposure to Estradiol Benzoate in the Male Rat: II. Effects on Male Puberty and the Reproductive Tract. Biology of Reproduction, 2001, 65, 1506-1517.	1.2	65
29	COVERT SIGNAL DISRUPTION: ANTI-ECDYSTEROIDAL ACTIVITY OF BISPHENOL A INVOLVES CROSS TALK BETWEEN SIGNALING PATHWAYS. Environmental Toxicology and Chemistry, 2005, 24, 146.	2.2	63
30	Prochloraz Inhibits Testosterone Production at Dosages below Those that Affect Androgen-Dependent Organ Weights or the Onset of Puberty in the Male Sprague Dawley Rat. Toxicological Sciences, 2007, 97, 65-74.	1.4	62
31	Pesticides: multiple mechanisms of demasculinization. Molecular and Cellular Endocrinology, 1997, 126, 1-5.	1.6	61
32	Endosulfan Elevates Testosterone Biotransformation and Clearance in CD-1 Mice. Toxicology and Applied Pharmacology, 1998, 148, 158-168.	1.3	60
33	SYNERGISTIC INTERACTION OF ENDOCRINE-DISRUPTING CHEMICALS: MODEL DEVELOPMENT USING AN ECDYSONE RECEPTOR ANTAGONIST AND A HORMONE SYNTHESIS INHIBITOR. Environmental Toxicology and Chemistry, 2004, 23, 1085.	2.2	60
34	Cross communication between signaling pathways: Juvenoid hormones modulate ecdysteroid activity in a crustacean. The Journal of Experimental Zoology, 2004, 301A, 793-801.	1.4	59
35	Cloning and characterization of the retinoid X receptor from a primitive crustacean Daphnia magna. General and Comparative Endocrinology, 2007, 150, 309-318.	0.8	57
36	The contribution of steroidal androgens and estrogens to reproductive maturation of the eastern mud snail Ilyanassa obsoleta. General and Comparative Endocrinology, 2008, 156, 15-26.	0.8	57

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37	Developmental toxicity of testosterone in the crustacean Daphnia magna involves anti-ecdysteroidal activity. General and Comparative Endocrinology, 2002, 129, 127-133.	0.8	56
38	Interactive Effects of Vinclozolin and Testosterone Propionate on Pregnancy and Sexual Differentiation of the Male and Female SD Rat. Toxicological Sciences, 2004, 78, 135-143.	1.4	56
39	Males on demand: the environmentalâ€“neuroâ€endocrine control of male sex determination in daphnids. FEBS Journal, 2015, 282, 4080-4093.	2.2	55
40	The anti-carcinogenic plant compound indole-3-carbinol differentially modulates P450-mediated steroid hydroxylase activities in mice. Chemico-Biological Interactions, 1992, 83, 155-169.	1.7	54
41	Interactions of methyl farnesoate and related compounds with a crustacean retinoid X receptor. Molecular and Cellular Endocrinology, 2009, 309, 109-116.	1.6	54
42	The screening of chemicals for juvenoid-related endocrine activity using the water flea Daphnia magna. Aquatic Toxicology, 2005, 74, 193-204.	1.9	53
43	METABOLIC ANDROGENIZATION OF FEMALE DAPHNIA MAGNA BY THE XENOESTROGEN 4-NONYLPHENOL. Environmental Toxicology and Chemistry, 1997, 16, 1905.	2.2	53
44	The Environmental-Endocrine Basis of Gynandromorphism (Intersex) in a Crustacean. International Journal of Biological Sciences, 2007, 3, 77-84.	2.6	51
45	THE FUNGICIDE PROPICONAZOLE INTERFERES WITH EMBRYONIC DEVELOPMENT OF THE CRUSTACEAN DAPHNIA MAGNA. Environmental Toxicology and Chemistry, 2001, 20, 502.	2.2	51
46	The genetics of xenobiotic metabolism in Drosophilaâ€”IV. Insect Biochemistry, 1987, 17, 731-738.	1.8	50
47	Synchronized Expression of Retinoid X Receptor mRNA with Reproductive Tract Recrudescence in an Imposex-Susceptible Mollusc. Environmental Science & Technology, 2008, 42, 1345-1351.	4.6	50
48	Temporal and quantitative changes in sexual reproductive cycling of the cladoceranDaphnia magna by a juvenile hormone analog. The Journal of Experimental Zoology, 2001, 290, 148-155.	1.4	49
49	Sensitivity of Fetal Rat Testicular Steroidogenesis to Maternal Prochloraz Exposure and the Underlying Mechanism of Inhibition. Toxicological Sciences, 2007, 97, 512-519.	1.4	49
50	Reductions in steroid hormone biotransformation/elimination as a biomarker of pentachlorophenol chronic toxicity. Aquatic Toxicology, 1996, 34, 291-303.	1.9	47
51	Altered Metabolic Elimination of Testosterone and Associated Toxicity Following Exposure ofDaphnia magnato Nonylphenol Polyethoxylate. Ecotoxicology and Environmental Safety, 1998, 39, 104-111.	2.9	46
52	Intracellular Conversion of Environmental Nitrate and Nitrite to Nitric Oxide with Resulting Developmental Toxicity to the Crustacean Daphnia magna. PLoS ONE, 2010, 5, e12453.	1.1	45
53	Interaction of Structurally Diverse Pesticides with the HumanGene Product P-Glycoprotein. Toxicology and Applied Pharmacology, 1996, 141, 288-298.	1.3	44
54	Expression and ecdysteroid responsiveness of the nuclear receptors HR3 and E75 in the crustacean Daphnia magna. Molecular and Cellular Endocrinology, 2010, 315, 208-218.	1.6	43

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55	Joint action of polycyclic aromatic hydrocarbons: Predictive modeling of sublethal toxicity. Aquatic Toxicology, 2005, 75, 253-262.	1.9	41
56	Tributyltin Synergizes with 20-Hydroxyecdysone to Produce Endocrine Toxicity. Toxicological Sciences, 2011, 123, 71-79.	1.4	41
57	The acute and chronic toxicity of acetone, dimethyl formamide, and triethylene glycol toDaphnia magna (Straus). Archives of Environmental Contamination and Toxicology, 1983, 12, 305-310.	2.1	39
58	A Transgenerational Endocrine Signaling Pathway in Crustacea. PLoS ONE, 2013, 8, e61715.	1.1	36
59	Imposex in Three Marine Gastropod Species in Chile and Potential Impact on Muriciculture. Marine Pollution Bulletin, 1999, 38, 1227-1231.	2.3	35
60	A candidate juvenoid hormone receptor cis-element in the Daphnia magna hb2 hemoglobin gene promoter. Molecular and Cellular Endocrinology, 2006, 247, 91-102.	1.6	33
61	Involvement of Multiple Biotransformation Processes in the Metabolic Elimination of Testosterone by Juvenile and Adult Fathead Minnows (Pimephales promelas). General and Comparative Endocrinology, 1998, 112, 69-79.	0.8	29
62	Kinetic characterization of the inhibition of acyl coenzyme A:Steroid acyltransferases by tributyltin in the eastern mud snail (Ilyanassa obsoleta). Aquatic Toxicology, 2006, 78, 233-242.	1.9	29
63	Validation of a two-generational reproduction test in Daphnia magna: An interlaboratory exercise. Science of the Total Environment, 2017, 579, 1073-1083.	3.9	29
64	Hepatic vectorial transport of xenobiotics. Chemico-Biological Interactions, 1994, 90, 101-120.	1.7	28
65	Endocrine Disruption in Invertebrates: A Survey of Research Progress. Environmental Science & Technology, 2020, 54, 13365-13369.	4.6	27
66	Two Pimarane Diterpenoids fromEphemerantha lonchophyllaand Their Evaluation as Modulators of the Multidrug Resistance Phenotype. Journal of Natural Products, 1998, 61, 112-115.	1.5	26
67	Testosterone-Fatty Acid Esterification: A Unique Target for the Endocrine Toxicity of Tributyltin to Gastropods. Integrative and Comparative Biology, 2005, 45, 81-87.	0.9	24
68	Changes in the Metabolic Elimination Profile of Testosterone Following Exposure of the Crustacean Daphnia magna to Tributyltin. Ecotoxicology and Environmental Safety, 2000, 45, 296-303.	2.9	23
69	Endocrine regulation of predator-induced phenotypic plasticity. Oecologia, 2014, 176, 625-635.	0.9	21
70	An effective method for evaluation of microplastic contaminant in gastropod from Taihu Lake, China. Environmental Science and Pollution Research, 2020, 27, 22878-22887.	2.7	20
71	Hormonal perturbations in patients with testicular cancer treated with cisplatin. Cancer, 1992, 69, 2306-2310.	2.0	19
72	Hypocholesterolemic properties of plant indoles. Biochemical Pharmacology, 1994, 47, 359-364.	2.0	19

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73	Antimony and thallium toxicity to embryos and larvae of fathead minnows (Pimephales promelas). Bulletin of Environmental Contamination and Toxicology, 1984, 32, 565-569.	1.3	18
74	Atrazine Stimulates Hemoglobin Accumulation in Daphnia magna: Is it Hormonal or Hypoxic?. Toxicological Sciences, 2006, 93, 443-449.	1.4	18
75	Interactions of the crustacean nuclear receptors HR3 and E75 in the regulation of gene transcription. General and Comparative Endocrinology, 2010, 167, 268-278.	0.8	17
76	Relationships between the structures of chlorinated phenols, their toxicity, and their ability to induce glutathione S-transferase activity in Daphnia magna. Aquatic Toxicology, 1988, 12, 147-155.	1.9	16
77	Hemoglobin Levels Modulate Nitrite Toxicity to Daphnia magna. Scientific Reports, 2018, 8, 7172.	1.6	15
78	Complementary roles of photoperiod and temperature in environmental sex determination in Daphnia spp. Journal of Experimental Biology, 2019, 222, .	0.8	15
79	A Crab Is Not a Fish: Unique Aspects of the Crustacean Endocrine System and Considerations for Endocrine Toxicology. Frontiers in Endocrinology, 2021, 12, 587608.	1.5	15
80	Effects of copper on the competitive interactions of two species of cladocera. Environmental Pollution Series A, Ecological and Biological, 1985, 37, 13-25.	0.8	14
81	A rapid method for staining proteins in acrylamide gels. Analytical Biochemistry, 1987, 161, 172-175.	1.1	14
82	Agonist-mediated assembly of the crustacean methyl farnesoate receptor. Scientific Reports, 2017, 7, 45071.	1.6	13
83	Suppression of male-specific cytochrome P450 2c and its mRNA by 3,4,5,3â€²,4â€²,5â€²-hexachlorobiphenyl in rat liver is not causally related to changes in serum testosterone. Archives of Biochemistry and Biophysics, 1989, 271, 508-514.	1.4	12
84	Chemical Mixtures: Greater-than-Additive Effects?. Environmental Health Perspectives, 2006, 114, A517-8; author reply A518-9.	2.8	12
85	Genetics of xenobiotic metabolism in drosophila. Biochemical Pharmacology, 1986, 35, 1679-1684.	2.0	11
86	Statistical validation of structured population models for Daphnia magna. Mathematical Biosciences, 2015, 266, 73-84.	0.9	11
87	Preliminary evidence for snail deformation from a Eutrophic lake. Environmental Toxicology and Pharmacology, 2017, 53, 219-226.	2.0	9
88	Evaluating the Toxicity of Chemical Mixtures. Environmental Health Perspectives, 2004, 112, A729-30.	2.8	8
89	Environmental cues trigger seasonal regression of primary and accessory sex organs of the mud snail, Ilyanassa obsoleta. Journal of Molluscan Studies, 2008, 74, 301-303.	0.4	8
90	Estrogen alters the profile of the transcriptome in river snail Bellamya aeruginosa. Ecotoxicology, 2015, 24, 330-338.	1.1	8

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91	Elevation of serum cholesterol levels in mice by the antioxidant butylated hydroxyanisole. Biochemical Pharmacology, 1993, 45, 513-515.	2.0	6
92	Non-target toxicology of a new mosquito larvicide, trypsin modulating oostatic factor. Pesticide Biochemistry and Physiology, 2004, 80, 131-142.	1.6	6
93	Ligand-Mediated Receptor Assembly as an End Point for High-Throughput Chemical Toxicity Screening. Environmental Science & Technology, 2017, 51, 9327-9333.	4.6	6
94	The role of nuclear receptor E75 in regulating the molt cycle of Daphnia magna and consequences of its disruption. PLoS ONE, 2019, 14, e0221642.	1.1	6
95	Involvement of glutamate and serotonin transmitter systems in male sex determination in Daphnia pulex. Journal of Insect Physiology, 2020, 121, 104015.	0.9	6
96	Utilization of bacterial colony counters to count early instar water fleas (Daphnia magna). Bulletin of Environmental Contamination and Toxicology, 1979, 23, 837-839.	1.3	5
97	Estimation of time-varying mortality rates using continuous models for Daphnia magna. Applied Mathematics Letters, 2015, 44, 12-16.	1.5	5
98	A proposed nomenclature for microplastic contaminants. Marine Pollution Bulletin, 2021, 172, 112960.	2.3	5
99	Continuous Structured Population Models for Daphnia magna. Bulletin of Mathematical Biology, 2017, 79, 2627-2648.	0.9	4
100	No impacts of microcystins on wild freshwater snail Bellamya Aeruginosa fecundity from a eutrophic lake. Environmental Toxicology and Pharmacology, 2018, 60, 165-168.	2.0	4
101	Thyroidâ€like hormone signaling in invertebrates and its potential role in initial screening of thyroid hormone system disrupting chemicals. Integrated Environmental Assessment and Management, 2023, 19, 63-82.	1.6	4
102	Mobilization of Pentachlorophenol by GlutathioneS-Transferase Î¼ Increases Cellular Toxicity. Pesticide Biochemistry and Physiology, 1996, 54, 65-72.	1.6	3
103	Retrospective: Acute Toxicity of Priority Pollutants. Bulletin of Environmental Contamination and Toxicology, 2016, 97, 301-302.	1.3	2