Glen Van Der Kraak

List of Publications by Year in Descending Order

105 papers	5,888 citations	45 h-index	74 g-index
105 ext. papers	6,255 ext. citations	3.4 avg, IF	5.28 L-index

#	Paper	IF	Citations
105	Investigating the role of prostaglandin receptor isoform EP4b in zebrafish ovulation. *General and Comparative Endocrinology*, **2019**, 283, 113228	3	7
104	Estimation of Arachidonic Acid Requirement for Improvement of Pre-maturation Growth and Egg and Larval Quality in the Female Blue Gourami (Trichopodus trichopterus ; Pallas, 1770): A Model for the Anabantidae Family. *Journal of the World Aquaculture Society*, **2019**, 50, 359-373	2.5	4
103	An International Perspective on the Tools and Concepts for Effluent Toxicity Assessments in the Context of Animal Alternatives: Reduction in Vertebrate Use. *Environmental Toxicology and Chemistry*, **2018**, 37, 2745-2757	3.8	18
102	The role of eicosanoids in 17□20⊟dihydroxy-4-pregnen-3-one-induced ovulation and spawning in Danio rerio. *General and Comparative Endocrinology*, **2015**, 213, 50-8	3	26
101	Inhibition of spawning in zebrafish (Danio rerio): Adverse outcome pathways of quinacrine and ethinylestradiol. *General and Comparative Endocrinology*, **2015**, 219, 89-101	3	7
100	Comments on the opinions published by Bergman et al. (2015) on Critical Comments on the WHO-UNEP State of the Science of Endocrine Disrupting Chemicals (Lamb et al., 2014). *Regulatory Toxicology and Pharmacology*, **2015**, 73, 754-7	3.4	20
99	Naphthenic Acid Mixtures from Oil Sands Process-Affected Water Enhance Differentiation of Mouse Embryonic Stem Cells and Affect Development of the Heart. *Environmental Science & Technology*, **2015**, 49, 10165-72	10.3	16
98	Atrazine and its degradates have little effect on the corticosteroid stress response in the zebrafish. *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, **2015**, 170, 1-7	3.2	3
97	Critical comments on the WHO-UNEP State of the Science of Endocrine Disrupting Chemicals - 2012. *Regulatory Toxicology and Pharmacology*, **2014**, 69, 22-40	3.4	53
96	Human and ecological risk assessment of a crop protection chemical: a case study with the azole fungicide epoxiconazole. *Critical Reviews in Toxicology*, **2014**, 44, 176-210	5.7	46
95	Ibuprofen reduces zebrafish PGE(2) levels but steroid hormone levels and reproductive parameters are not affected. *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, **2013**, 157, 251-7	3.2	17
94	Reproductive and health assessment of fathead minnows (Pimephales promelas) inhabiting a pond containing oil sands process-affected water. *Aquatic Toxicology*, **2013**, 130-131, 201-9	5.1	34
93	Regulation and actions of insulin-like growth factors in the ovary of zebrafish (Danio rerio). *General and Comparative Endocrinology*, **2012**, 177, 187-94	3	33
92	A critique of the European Commission document, "State of the Art Assessment of Endocrine Disrupters". *Critical Reviews in Toxicology*, **2012**, 42, 465-73	5.7	25
91	Fathead minnow (Pimephales promelas) reproduction is impaired when exposed to a naphthenic acid extract. *Aquatic Toxicology*, **2012**, 116-117, 34-42	5.1	65
90	Reproductive history and nest environment are correlated with circulating androgen and glucocorticoid concentrations in a parental care-providing teleost fish. *Physiological and Biochemical Zoology*, **2012**, 85, 209-18	2	4
89	Pharmaceuticals and personal care products in the environment: what are the big questions?. *Environmental Health Perspectives*, **2012**, 120, 1221-9	8.4	830

88	Fathead minnow (Pimephales promelas) reproduction is impaired in aged oil sands process-affected waters. *Aquatic Toxicology*, **2011**, 101, 214-20	5.1	83
87	Differential effects of 17β-estradiol and 11-ketotestosterone on the endocrine stress response in zebrafish (Danio rerio). *General and Comparative Endocrinology*, **2011**, 170, 365-73	3	40
86	The glucocorticoid stress response is attenuated but unrelated to reproductive investment during parental care in a teleost fish. *General and Comparative Endocrinology*, **2011**, 170, 215-21	3	24
85	Circulating androgens are influenced by parental nest defense in a wild teleost fish. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **2011**, 197, 711-5	2.3	12
84	Stirring up new ideas about the regulation of the hypothalamic-pituitary-interrenal axis in zebrafish (Danio rerio). *Zebrafish*, **2010**, 7, 349-58	2	67
83	Behavioral and physiological responses of a wild teleost fish to cortisol and androgen manipulation during parental care. *Hormones and Behavior*, **2010**, 58, 599-605	3.7	57
82	Effects of pulp and paper mill effluent extractives on aromatase CYP19a gene expression and sex steroid levels in juvenile triploid rainbow trout. *Aquatic Toxicology*, **2010**, 97, 353-60	5.1	12
81	Characterization and regulation of the insulin-like growth factor (IGF) system in the zebrafish (Danio rerio) ovary. *General and Comparative Endocrinology*, **2010**, 168, 111-20	3	50
80	The role of the insulin-like growth factor (IGF) system in zebrafish (Danio rerio) ovarian development. *General and Comparative Endocrinology*, **2010**, 168, 103-10	3	45
79	Paternal aggression towards a brood predator during parental care in wild smallmouth bass is not correlated with circulating testosterone and cortisol concentrations. *Hormones and Behavior*, **2009**, 55, 495-9	3.7	19
78	Inhibition of egg production in zebrafish by fluoxetine and municipal effluents: a mechanistic evaluation. *Aquatic Toxicology*, **2009**, 95, 320-9	5.1	133
77	Stress and parental care in a wild Teleost fish: insights from exogenous supraphysiological cortisol implants. *Physiological and Biochemical Zoology*, **2009**, 82, 709-19	2	49
76	Chapter 3 The GnRH System and the Neuroendocrine Regulation of Reproduction. *Fish Physiology*, **2009**, 28, 115-149	2	17
75	Retinoid requirements in the reproduction of zebrafish. *General and Comparative Endocrinology*, **2008**, 156, 51-62	3	43
74	Physiological correlates of coastal arrival and river entry timing in late summer Fraser River sockeye salmon (Oncorhynchus nerka). *Behavioral Ecology*, **2008**, 19, 747-758	2.3	33
73	Endocrine disruption mechanism of o,pSDDT in mature male tilapia (Oreochromis niloticus). *Toxicology and Applied Pharmacology*, **2007**, 221, 158-67	4.6	25
72	Behaviour and physiology of sockeye salmon homing through coastal waters to a natal river. *Marine Biology*, **2007**, 152, 905-918	2.5	47
71	The effects of copper and benzo[a]pyrene on retinoids and reproduction in zebrafish. *Aquatic Toxicology*, **2007**, 82, 281-95	5.1	31

70	Functional characterization of estrogen receptor subtypes, ERalpha and ERbeta, mediating vitellogenin production in the liver of rainbow trout. *Toxicology and Applied Pharmacology*, **2007**, 224, 116-25	4.6	85
69	Physiological and energetic correlates of en route mortality for abnormally early migrating adult sockeye salmon (Oncorhynchus nerka) in the Thompson River, British Columbia. *Canadian Journal of Fisheries and Aquatic Sciences*, **2006**, 63, 1067-1077	2.4	74
68	Terminology of Gonadal Anomalies in Fish and Amphibians Resulting from Chemical Exposures. *Reviews of Environmental Contamination and Toxicology*, **2006**, 103-131	3.5	9
67	Mechanistic basis of individual mortality in Pacific salmon during spawning migrations. *Ecology*, **2006**, 87, 1575-86	4.6	93
66	Utility of in vitro test methods to assess the activity of xenoestrogens in fish. *Environmental Toxicology and Chemistry*, **2006**, 25, 3204-12	3.8	18
65	Terminology of Gonadal Anomalies in Fish and Amphibians Resulting from Chemical Exposures. *Reviews of Environmental Contamination and Toxicology*, **2006**, 103-131	3.5	7
64	Effects of atrazine on metamorphosis, growth, laryngeal and gonadal development, aromatase activity, and sex steroid concentrations in Xenopus laevis. *Ecotoxicology and Environmental Safety*, **2005**, 62, 160-73	7	102
63	Plasma concentrations of estradiol and testosterone, gonadal aromatase activity and ultrastructure of the testis in Xenopus laevis exposed to estradiol or atrazine. *Aquatic Toxicology*, **2005**, 72, 383-96	5.1	73
62	Effects of atrazine on CYP19 gene expression and aromatase activity in testes and on plasma sex steroid concentrations of male African clawed frogs (Xenopus laevis). *Toxicological Sciences*, **2005**, 86, 273-80	4.4	60
61	Abnormal Migration Timing and High en route Mortality of Sockeye Salmon in the Fraser River, British Columbia. *Fisheries*, **2004**, 29, 22-33	1.1	139
60	Plasma sex steroid concentrations and gonadal aromatase activities in African clawed frogs (Xenopus laevis) from South Africa. *Environmental Toxicology and Chemistry*, **2004**, 23, 1996-2007	3.8	58
59	Effects of atrazine on metamorphosis, growth, and gonadal development in the green frog (Rana clamitans). *Journal of Toxicology and Environmental Health - Part A: Current Issues*, **2004**, 67, 941-57	3.2	62
58	Constituents within pulp mill effluent deplete retinoid stores in white sucker and bind to rainbow trout retinoic acid receptors and retinoid X receptors. *Environmental Toxicology and Chemistry*, **2003**, 22, 2969-76	3.8	28
57	Activin and transforming growth factor-beta as local regulators of ovarian steroidogenesis in the goldfish. *General and Comparative Endocrinology*, **2003**, 132, 142-50	3	28
56	Response of larval Xenopus laevis to atrazine: Assessment of growth, metamorphosis, and gonadal and laryngeal morphology. *Environmental Toxicology and Chemistry*, **2003**, 22, 396-405	3.8	158
55	. *Environmental Toxicology and Chemistry*, **2003**, 22, 396	3.8	76
54	Modulation of goldfish testicular testosterone production in vitro by tumor necrosis factor alpha, interleukin-1beta, and macrophage conditioned media. *The Journal of Experimental Zoology*, **2002**, 292, 477-86		33
53	Ten-week exposure to treated sewage discharge has relatively minor, variable effects on reproductive behavior and sperm production in goldfish. *Environmental Toxicology and Chemistry*, **2002**, 21, 2185-2190	3.8	50

52	An Examination of Utilizing External Measures to Identify Sexually Maturing Female American Eels, Anguilla Rostrata, in the St. Lawrence River. *Environmental Biology of Fishes*, **2002**, 65, 271-287	1.6	14
51	Inhibition of apoptosis in vitellogenic ovarian follicles of rainbow trout (Oncorhynchus mykiss) by salmon gonadotropin, epidermal growth factor, and 17beta-estradiol. *Molecular Reproduction and Development*, **2002**, 61, 511-8	2.6	39
50	O,pSDDT induction of vitellogenesis and its inhibition by tamoxifen in Nile tilapia (Oreochromis niloticus). *Marine Environmental Research*, **2002**, 54, 703-7	3.3	28
49	Development of a retinoic acid receptor-binding assay with rainbow trout tissue: characterization of retinoic acid binding, receptor tissue distribution, and developmental changes. *General and Comparative Endocrinology*, **2001**, 123, 254-67	3	14
48	Recovery of ovary size, follicle cell apoptosis, and HSP70 expression in fish exposed to bleached pulp mill effluent. *Canadian Journal of Fisheries and Aquatic Sciences*, **2001**, 58, 620-625	2.4	27
47	Endocrine Toxicants and Reproductive Success in Fish. *Human and Ecological Risk Assessment (HERA)*, **2001**, 7, 1017-1025	4.9	15
46	Milt production in goldfish: regulation by multiple social stimuli. *Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology*, **2001**, 130, 467-76	3.2	7
45	Differential binding of endogenous steroids and chemicals to androgen receptors in rainbow trout and goldfish. *Environmental Toxicology and Chemistry*, **2000**, 19, 2059-2065	3.8	75
44	Differential binding of endogenous steroids and chemicals to androgen receptors in rainbow trout and goldfish **2000**, 19, 2059		5
43	Comparison between the effects of the phytosterol β-sitosterol and pulp and paper mill effluents on sexually immature rainbow trout. *Environmental Toxicology and Chemistry*, **1999**, 18, 329-336	3.8	100
42	Correlations of plasma growth hormone with somatostatin, gonadal steroid hormones and thyroid hormones in rainbow trout during sexual recrudescence. *Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology*, **1999**, 123, 251-60	2.3	32
41	Comparison between the effects of the phytosterol β-sitosterol and pulp and paper mill effluents on sexually immature rainbow trout **1999**, 18, 329		9
40	Seasonal migrations and reproductive patterns in the lake sturgeon, Acipenser fulvescens, in the vicinity of hydroelectric stations in northern Ontario. *Environmental Biology of Fishes*, **1998**, 51, 245-256	1.6	63
39	Peptide growth factors modulate prostaglandin E and F production by goldfish ovarian follicles. *General and Comparative Endocrinology*, **1998**, 110, 46-57	3	10
38	Overview of a workshop on screening methods for detecting potential (anti-) estrogenic/androgenic chemicals in wildlife. *Environmental Toxicology and Chemistry*, **1998**, 17, 68-87	3.8	257
37	Use of a series of homologous in vitro and in vivo assays to evaluate the endocrine modulating actions of β-sitosterol in rainbow trout. *Aquatic Toxicology*, **1998**, 43, 149-162	5.1	82
36	Suppression of apoptosis by gonadotropin, 17beta-estradiol, and epidermal growth factor in rainbow trout preovulatory ovarian follicles. *General and Comparative Endocrinology*, **1997**, 105, 186-93	3	100
35	Elevated ovarian follicular apoptosis and heat shock protein-70 expression in white sucker exposed to bleached kraft pulp mill effluent. *Toxicology and Applied Pharmacology*, **1997**, 147, 391-8	4.6	98

34	Exposure to β-sitosterol alters the endocrine status of goldfish differently than 17β-estradiol. *Environmental Toxicology and Chemistry*, **1997**, 16, 1895-1904	3.8	57
33	Exposure to β-sitosterol alters the endocrine status of goldfish differently than 17β-estradiol **1997**, 16, 1895		3
32	Mechanisms of action of free arachidonic acid on ovarian steroid production in the goldfish. *General and Comparative Endocrinology*, **1996**, 102, 130-40	3	64
31	Inhibition of gonadotropin-stimulated ovarian steroid production by polyunsaturated fatty acids in teleost fish. *Lipids*, **1995**, 30, 547-54	1.6	54
30	Polyunsaturated fatty acids do not activate protein kinase C in the testis of the goldfish (Carassius auratus). *Fish Physiology and Biochemistry*, **1994**, 13, 49-57	2.7	4
29	Effects of excitatory amino acids on in vivo and in vitro gonadotropin and growth hormone secretion in testosterone-primed immature rainbow trout, Oncorhynchus mykiss. *The Journal of Experimental Zoology*, **1994**, 268, 390-399		21
28	Regulation of DNA synthesis in goldfish vitellogenic ovarian follicles by hormones and growth factors. *The Journal of Experimental Zoology*, **1994**, 270, 263-272		18
27	Effects of activators of different intracellular signaling pathways on steroid production by goldfish vitellogenic ovarian follicles. *General and Comparative Endocrinology*, **1994**, 93, 181-91	3	15
26	Insulin as an amplifier of gonadotropin action on steroid production: mechanisms and sites of action in goldfish prematurational full-grown ovarian follicles. *General and Comparative Endocrinology*, **1994**, 95, 60-70	3	26
25	Regulation of prostaglandin E and F production in the goldfish testis. *The Journal of Experimental Zoology*, **1993**, 266, 108-115		17
24	Arachidonic acid and prostaglandin E2 stimulate testosterone production by goldfish testis in vitro. *General and Comparative Endocrinology*, **1993**, 90, 109-18	3	66
23	Hormonal induction of precocious sex reversal in the ricefield eel, Monopterus albus. *Aquaculture*, **1993**, 118, 131-140	4.4	37
22	Multifactorial regulation of prostaglandin synthesis in preovulatory goldfish ovarian follicles. *Biology of Reproduction*, **1992**, 46, 630-5	3.9	22
21	Properties of common carp gonadotropin I and gonadotropin II. *General and Comparative Endocrinology*, **1992**, 85, 217-29	3	157
20	Effects of bleached kraft mill effluent on fish in the St. Maurice River, Quebec. *Environmental Toxicology and Chemistry*, **1992**, 11, 1635-1651	3.8	124
19	Mechanisms by which calcium ionophore and phorbol ester modulate steroid production by goldfish preovulatory ovarian follicles. *The Journal of Experimental Zoology*, **1992**, 262, 271-278		13
18	Effects of bleached kraft mill effluent on fish in the St. Maurice River, Quebec **1992**, 11, 1635		2
17	Role of calcium in the control of steroidogenesis in preovulatory ovarian follicles of the goldfish. *General and Comparative Endocrinology*, **1991**, 81, 268-75	3	29

16	The control of testicular androgen production in the goldfish: effects of activators of different intracellular signalling pathways. *General and Comparative Endocrinology*, **1991**, 83, 337-44	3	34
15	Effects of gonadotropin-releasing hormone agonists and dopamine antagonists on gonadotropin secretion and ovulation in Chinese loach, Paramisgurnus dabryanus. *Aquaculture*, **1991**, 95, 139-147	4.4	15
14	The influence of calcium ionophore and activators of protein kinase C on steroid production by preovulatory ovarian follicles of the goldfish. *Biology of Reproduction*, **1990**, 42, 231-8	3.9	24
13	Growth hormone-dependent potentiation of gonadotropin-stimulated steroid production by ovarian follicles of the goldfish. *General and Comparative Endocrinology*, **1990**, 79, 233-9	3	106
12	Arachidonic acid stimulates steroidogenesis in goldfish preovulatory ovarian follicles. *General and Comparative Endocrinology*, **1990**, 77, 221-8	3	89
11	Effect of a teleost GnRH analog on steroidogenesis by the follicle-enclosed goldfish oocytes, in vitro. *General and Comparative Endocrinology*, **1989**, 76, 95-105	3	41
10	Dopamine inhibits gonadotropin secretion in the Chinese loach (Paramisgurnus dabryanus). *Fish Physiology and Biochemistry*, **1989**, 6, 285-8	2.7	9
9	Effects of [D-Arg6, Trp7, Leu8, Pro9NEt]-luteinizing hormone-releasing hormone (sGnRH-A) and [D-Ala6, Pro9NEt]-luteinizing hormone-releasing hormone (LHRH-A), in combination with pimozide or domperidone, on gonadotropin release and ovulation in the Chinese loach and common carp. *General and Comparative Endocrinology*, **1988**, 69, 31-40	3	64
8	Induced ovulation and spawning of cultured freshwater fish in China: Advances in application of GnRH analogues and dopamine antagonists. *Aquaculture*, **1988**, 74, 1-10	4.4	161
7	Profiles of plasma sex steroids and gonadotropin in coho salmon, Oncorhynchus kisutch, during final maturation. *General and Comparative Endocrinology*, **1986**, 62, 437-51	3	157
6	Steroidogenic capacity of coho salmon ovarian follicles throughout the periovulatory period. *Fish Physiology and Biochemistry*, **1986**, 1, 179-86	2.7	42
5	Dopamine involvement in the regulation of gonadotropin secretion in coho salmon. *Canadian Journal of Zoology*, **1986**, 64, 1245-1248	1.5	59
4	Plasma gonadotropin, 17β-estradiol, and 17α,20β-dihydroxy-4-pregnen-3-one levels during luteinizing hormone-releasing hormone analogue and gonadotropin induced ovulation in coho salmon (Oncorhynchus kisutch). *Canadian Journal of Zoology*, **1985**, 63, 824-833	1.5	43
3	Induction of ovulation in the loach (Paramisgurnus dabryanus) using pimozide and [D-Ala6, Pro9-N-ethylamide]-LHRH. *Aquaculture*, **1985**, 46, 333-340	4.4	29
2	Effects of LH-RH and Des-Gly10[D-Ala6]LH-RH-ethylamide on plasma sex steroid profiles in adult female coho salmon (Oncorhynchus kisutch). *General and Comparative Endocrinology*, **1984**, 55, 36-45	3	87
1	Effects of LH-RH and des-Gly10[D-Ala6]LH-RH-ethylamide on plasma gonadotropin levels and oocyte maturation in adult female coho salmon (Oncorhynchus kisutch). *General and Comparative Endocrinology*, **1983**, 49, 470-6	3	76