

Glen Van Der Kraak

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Pharmaceuticals and personal care products in the environment: what are the big questions?. <i>Environmental Health Perspectives</i> , 2012 , 120, 1221-9	8.4	830
104	Overview of a workshop on screening methods for detecting potential (anti-) estrogenic/androgenic chemicals in wildlife. <i>Environmental Toxicology and Chemistry</i> , 1998 , 17, 68-87	3.8	257
103	Induced ovulation and spawning of cultured freshwater fish in China: Advances in application of GnRH analogues and dopamine antagonists. <i>Aquaculture</i> , 1988 , 74, 1-10	4.4	161
102	Response of larval <i>Xenopus laevis</i> to atrazine: Assessment of growth, metamorphosis, and gonadal and laryngeal morphology. <i>Environmental Toxicology and Chemistry</i> , 2003 , 22, 396-405	3.8	158
101	Properties of common carp gonadotropin I and gonadotropin II. <i>General and Comparative Endocrinology</i> , 1992 , 85, 217-29	3	157
100	Profiles of plasma sex steroids and gonadotropin in coho salmon, <i>Oncorhynchus kisutch</i> , during final maturation. <i>General and Comparative Endocrinology</i> , 1986 , 62, 437-51	3	157
99	Abnormal Migration Timing and High en route Mortality of Sockeye Salmon in the Fraser River, British Columbia. <i>Fisheries</i> , 2004 , 29, 22-33	1.1	139
98	Inhibition of egg production in zebrafish by fluoxetine and municipal effluents: a mechanistic evaluation. <i>Aquatic Toxicology</i> , 2009 , 95, 320-9	5.1	133
97	Effects of bleached kraft mill effluent on fish in the St. Maurice River, Quebec. <i>Environmental Toxicology and Chemistry</i> , 1992 , 11, 1635-1651	3.8	124
96	Growth hormone-dependent potentiation of gonadotropin-stimulated steroid production by ovarian follicles of the goldfish. <i>General and Comparative Endocrinology</i> , 1990 , 79, 233-9	3	106
95	Effects of atrazine on metamorphosis, growth, laryngeal and gonadal development, aromatase activity, and sex steroid concentrations in <i>Xenopus laevis</i> . <i>Ecotoxicology and Environmental Safety</i> , 2005 , 62, 160-73	7	102
94	Suppression of apoptosis by gonadotropin, 17beta-estradiol, and epidermal growth factor in rainbow trout preovulatory ovarian follicles. <i>General and Comparative Endocrinology</i> , 1997 , 105, 186-93	3	100
93	Comparison between the effects of the phytosterol β -sitosterol and pulp and paper mill effluents on sexually immature rainbow trout. <i>Environmental Toxicology and Chemistry</i> , 1999 , 18, 329-336	3.8	100
92	Elevated ovarian follicular apoptosis and heat shock protein-70 expression in white sucker exposed to bleached kraft pulp mill effluent. <i>Toxicology and Applied Pharmacology</i> , 1997 , 147, 391-8	4.6	98
91	Mechanistic basis of individual mortality in Pacific salmon during spawning migrations. <i>Ecology</i> , 2006 , 87, 1575-86	4.6	93
90	Arachidonic acid stimulates steroidogenesis in goldfish preovulatory ovarian follicles. <i>General and Comparative Endocrinology</i> , 1990 , 77, 221-8	3	89
89	Effects of LH-RH and Des-Gly10[D-Ala6]LH-RH-ethylamide on plasma sex steroid profiles in adult female coho salmon (<i>Oncorhynchus kisutch</i>). <i>General and Comparative Endocrinology</i> , 1984 , 55, 36-45	3	87

88	Functional characterization of estrogen receptor subtypes, ERalpha and ERbeta, mediating vitellogenin production in the liver of rainbow trout. <i>Toxicology and Applied Pharmacology</i> , 2007 , 224, 116-25	4.6	85
87	Fathead minnow (<i>Pimephales promelas</i>) reproduction is impaired in aged oil sands process-affected waters. <i>Aquatic Toxicology</i> , 2011 , 101, 214-20	5.1	83
86	Use of a series of homologous in vitro and in vivo assays to evaluate the endocrine modulating actions of β itosterol in rainbow trout. <i>Aquatic Toxicology</i> , 1998 , 43, 149-162	5.1	82
85	Effects of LH-RH and des-Gly10[D-Ala6]LH-RH-ethylamide on plasma gonadotropin levels and oocyte maturation in adult female coho salmon (<i>Oncorhynchus kisutch</i>). <i>General and Comparative Endocrinology</i> , 1983 , 49, 470-6	3	76
84	. <i>Environmental Toxicology and Chemistry</i> , 2003 , 22, 396	3.8	76
83	Differential binding of endogenous steroids and chemicals to androgen receptors in rainbow trout and goldfish. <i>Environmental Toxicology and Chemistry</i> , 2000 , 19, 2059-2065	3.8	75
82	Physiological and energetic correlates of en route mortality for abnormally early migrating adult sockeye salmon (<i>Oncorhynchus nerka</i>) in the Thompson River, British Columbia. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2006 , 63, 1067-1077	2.4	74
81	Plasma concentrations of estradiol and testosterone, gonadal aromatase activity and ultrastructure of the testis in <i>Xenopus laevis</i> exposed to estradiol or atrazine. <i>Aquatic Toxicology</i> , 2005 , 72, 383-96	5.1	73
80	Stirring up new ideas about the regulation of the hypothalamic-pituitary-interrenal axis in zebrafish (<i>Danio rerio</i>). <i>Zebrafish</i> , 2010 , 7, 349-58	2	67
79	Arachidonic acid and prostaglandin E2 stimulate testosterone production by goldfish testis in vitro. <i>General and Comparative Endocrinology</i> , 1993 , 90, 109-18	3	66
78	Fathead minnow (<i>Pimephales promelas</i>) reproduction is impaired when exposed to a naphthenic acid extract. <i>Aquatic Toxicology</i> , 2012 , 116-117, 34-42	5.1	65
77	Mechanisms of action of free arachidonic acid on ovarian steroid production in the goldfish. <i>General and Comparative Endocrinology</i> , 1996 , 102, 130-40	3	64
76	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. <i>General and Comparative Endocrinology</i> , 1988 , 69, 31-40	3	64
75	Seasonal migrations and reproductive patterns in the lake sturgeon, <i>Acipenser fulvescens</i> , in the vicinity of hydroelectric stations in northern Ontario. <i>Environmental Biology of Fishes</i> , 1998 , 51, 245-256	1.6	63
74	Effects of atrazine on metamorphosis, growth, and gonadal development in the green frog (<i>Rana clamitans</i>). <i>Journal of Toxicology and Environmental Health - Part A: Current Issues</i> , 2004 , 67, 941-57	3.2	62
73	Effects of atrazine on CYP19 gene expression and aromatase activity in testes and on plasma sex steroid concentrations of male African clawed frogs (<i>Xenopus laevis</i>). <i>Toxicological Sciences</i> , 2005 , 86, 273-80	4.4	60
72	Dopamine involvement in the regulation of gonadotropin secretion in coho salmon. <i>Canadian Journal of Zoology</i> , 1986 , 64, 1245-1248	1.5	59
71	Plasma sex steroid concentrations and gonadal aromatase activities in African clawed frogs (<i>Xenopus laevis</i>) from South Africa. <i>Environmental Toxicology and Chemistry</i> , 2004 , 23, 1996-2007	3.8	58

70	Behavioral and physiological responses of a wild teleost fish to cortisol and androgen manipulation during parental care. <i>Hormones and Behavior</i> , 2010 , 58, 599-605	3.7	57
69	Exposure to β 17-estradiol alters the endocrine status of goldfish differently than 17β -estradiol. <i>Environmental Toxicology and Chemistry</i> , 1997 , 16, 1895-1904	3.8	57
68	Inhibition of gonadotropin-stimulated ovarian steroid production by polyunsaturated fatty acids in teleost fish. <i>Lipids</i> , 1995 , 30, 547-54	1.6	54
67	Critical comments on the WHO-UNEP State of the Science of Endocrine Disrupting Chemicals - 2012. <i>Regulatory Toxicology and Pharmacology</i> , 2014 , 69, 22-40	3.4	53
66	Characterization and regulation of the insulin-like growth factor (IGF) system in the zebrafish (<i>Danio rerio</i>) ovary. <i>General and Comparative Endocrinology</i> , 2010 , 168, 111-20	3	50
65	Ten-week exposure to treated sewage discharge has relatively minor, variable effects on reproductive behavior and sperm production in goldfish. <i>Environmental Toxicology and Chemistry</i> , 2002 , 21, 2185-2190	3.8	50
64	Stress and parental care in a wild Teleost fish: insights from exogenous supraphysiological cortisol implants. <i>Physiological and Biochemical Zoology</i> , 2009 , 82, 709-19	2	49
63	Behaviour and physiology of sockeye salmon homing through coastal waters to a natal river. <i>Marine Biology</i> , 2007 , 152, 905-918	2.5	47
62	Human and ecological risk assessment of a crop protection chemical: a case study with the azole fungicide epoxiconazole. <i>Critical Reviews in Toxicology</i> , 2014 , 44, 176-210	5.7	46
61	The role of the insulin-like growth factor (IGF) system in zebrafish (<i>Danio rerio</i>) ovarian development. <i>General and Comparative Endocrinology</i> , 2010 , 168, 103-10	3	45
60	Retinoid requirements in the reproduction of zebrafish. <i>General and Comparative Endocrinology</i> , 2008 , 156, 51-62	3	43
59	Plasma gonadotropin, 17β -estradiol, and 17β -20 β -dihydroxy-4-pregnen-3-one levels during luteinizing hormone-releasing hormone analogue and gonadotropin induced ovulation in coho salmon (<i>Oncorhynchus kisutch</i>). <i>Canadian Journal of Zoology</i> , 1985 , 63, 824-833	1.5	43
58	Steroidogenic capacity of coho salmon ovarian follicles throughout the periovulatory period. <i>Fish Physiology and Biochemistry</i> , 1986 , 1, 179-86	2.7	42
57	Effect of a teleost GnRH analog on steroidogenesis by the follicle-enclosed goldfish oocytes, in vitro. <i>General and Comparative Endocrinology</i> , 1989 , 76, 95-105	3	41
56	Differential effects of 17β -estradiol and 11-ketotestosterone on the endocrine stress response in zebrafish (<i>Danio rerio</i>). <i>General and Comparative Endocrinology</i> , 2011 , 170, 365-73	3	40
55	Inhibition of apoptosis in vitellogenic ovarian follicles of rainbow trout (<i>Oncorhynchus mykiss</i>) by salmon gonadotropin, epidermal growth factor, and 17β -estradiol. <i>Molecular Reproduction and Development</i> , 2002 , 61, 511-8	2.6	39
54	Hormonal induction of precocious sex reversal in the ricefield eel, <i>Monopterus albus</i> . <i>Aquaculture</i> , 1993 , 118, 131-140	4.4	37
53	Reproductive and health assessment of fathead minnows (<i>Pimephales promelas</i>) inhabiting a pond containing oil sands process-affected water. <i>Aquatic Toxicology</i> , 2013 , 130-131, 201-9	5.1	34

52	The control of testicular androgen production in the goldfish: effects of activators of different intracellular signalling pathways. <i>General and Comparative Endocrinology</i> , 1991 , 83, 337-44	3	34
51	Regulation and actions of insulin-like growth factors in the ovary of zebrafish (<i>Danio rerio</i>). <i>General and Comparative Endocrinology</i> , 2012 , 177, 187-94	3	33
50	Physiological correlates of coastal arrival and river entry timing in late summer Fraser River sockeye salmon (<i>Oncorhynchus nerka</i>). <i>Behavioral Ecology</i> , 2008 , 19, 747-758	2.3	33
49	Modulation of goldfish testicular testosterone production in vitro by tumor necrosis factor alpha, interleukin-1beta, and macrophage conditioned media. <i>The Journal of Experimental Zoology</i> , 2002 , 292, 477-86		33
48	Correlations of plasma growth hormone with somatostatin, gonadal steroid hormones and thyroid hormones in rainbow trout during sexual recrudescence. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1999 , 123, 251-60	2.3	32
47	The effects of copper and benzo[a]pyrene on retinoids and reproduction in zebrafish. <i>Aquatic Toxicology</i> , 2007 , 82, 281-95	5.1	31
46	Role of calcium in the control of steroidogenesis in preovulatory ovarian follicles of the goldfish. <i>General and Comparative Endocrinology</i> , 1991 , 81, 268-75	3	29
45	Induction of ovulation in the loach (<i>Paramisgurnus dabryanus</i>) using pimozone and [D-Ala ⁶ , Pro ⁹ -N-ethylamide]-LHRH. <i>Aquaculture</i> , 1985 , 46, 333-340	4.4	29
44	Constituents within pulp mill effluent deplete retinoid stores in white sucker and bind to rainbow trout retinoic acid receptors and retinoid X receptors. <i>Environmental Toxicology and Chemistry</i> , 2003 , 22, 2969-76	3.8	28
43	Activin and transforming growth factor-beta as local regulators of ovarian steroidogenesis in the goldfish. <i>General and Comparative Endocrinology</i> , 2003 , 132, 142-50	3	28
42	O,pSDDT induction of vitellogenesis and its inhibition by tamoxifen in Nile tilapia (<i>Oreochromis niloticus</i>). <i>Marine Environmental Research</i> , 2002 , 54, 703-7	3.3	28
41	Recovery of ovary size, follicle cell apoptosis, and HSP70 expression in fish exposed to bleached pulp mill effluent. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2001 , 58, 620-625	2.4	27
40	The role of eicosanoids in 17β-dihydroxy-4-pregnen-3-one-induced ovulation and spawning in <i>Danio rerio</i> . <i>General and Comparative Endocrinology</i> , 2015 , 213, 50-8	3	26
39	Insulin as an amplifier of gonadotropin action on steroid production: mechanisms and sites of action in goldfish prematuration full-grown ovarian follicles. <i>General and Comparative Endocrinology</i> , 1994 , 95, 60-70	3	26
38	A critique of the European Commission document, "State of the Art Assessment of Endocrine Disrupters". <i>Critical Reviews in Toxicology</i> , 2012 , 42, 465-73	5.7	25
37	Endocrine disruption mechanism of o,pSDDT in mature male tilapia (<i>Oreochromis niloticus</i>). <i>Toxicology and Applied Pharmacology</i> , 2007 , 221, 158-67	4.6	25
36	The glucocorticoid stress response is attenuated but unrelated to reproductive investment during parental care in a teleost fish. <i>General and Comparative Endocrinology</i> , 2011 , 170, 215-21	3	24
35	The influence of calcium ionophore and activators of protein kinase C on steroid production by preovulatory ovarian follicles of the goldfish. <i>Biology of Reproduction</i> , 1990 , 42, 231-8	3.9	24

34	Multifactorial regulation of prostaglandin synthesis in preovulatory goldfish ovarian follicles. <i>Biology of Reproduction</i> , 1992 , 46, 630-5	3.9	22
33	Effects of excitatory amino acids on in vivo and in vitro gonadotropin and growth hormone secretion in testosterone-primed immature rainbow trout, <i>Oncorhynchus mykiss</i> . <i>The Journal of Experimental Zoology</i> , 1994 , 268, 390-399		21
32	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). <i>Regulatory Toxicology and Pharmacology</i> , 2015 , 73, 754-7	3.4	20
31	Paternal aggression towards a brood predator during parental care in wild smallmouth bass is not correlated with circulating testosterone and cortisol concentrations. <i>Hormones and Behavior</i> , 2009 , 55, 495-9	3.7	19
30	Utility of in vitro test methods to assess the activity of xenoestrogens in fish. <i>Environmental Toxicology and Chemistry</i> , 2006 , 25, 3204-12	3.8	18
29	Regulation of DNA synthesis in goldfish vitellogenic ovarian follicles by hormones and growth factors. <i>The Journal of Experimental Zoology</i> , 1994 , 270, 263-272		18
28	An International Perspective on the Tools and Concepts for Effluent Toxicity Assessments in the Context of Animal Alternatives: Reduction in Vertebrate Use. <i>Environmental Toxicology and Chemistry</i> , 2018 , 37, 2745-2757	3.8	18
27	Ibuprofen reduces zebrafish PGE(2) levels but steroid hormone levels and reproductive parameters are not affected. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2013 , 157, 251-7	3.2	17
26	Chapter 3 The GnRH System and the Neuroendocrine Regulation of Reproduction. <i>Fish Physiology</i> , 2009 , 28, 115-149	2	17
25	Regulation of prostaglandin E and F production in the goldfish testis. <i>The Journal of Experimental Zoology</i> , 1993 , 266, 108-115		17
24	Naphthenic Acid Mixtures from Oil Sands Process-Affected Water Enhance Differentiation of Mouse Embryonic Stem Cells and Affect Development of the Heart. <i>Environmental Science & Technology</i> , 2015 , 49, 10165-72	10.3	16
23	Endocrine Toxicants and Reproductive Success in Fish. <i>Human and Ecological Risk Assessment (HERA)</i> , 2001 , 7, 1017-1025	4.9	15
22	Effects of activators of different intracellular signaling pathways on steroid production by goldfish vitellogenic ovarian follicles. <i>General and Comparative Endocrinology</i> , 1994 , 93, 181-91	3	15
21	Effects of gonadotropin-releasing hormone agonists and dopamine antagonists on gonadotropin secretion and ovulation in Chinese loach, <i>Paramisgurnus dabryanus</i> . <i>Aquaculture</i> , 1991 , 95, 139-147	4.4	15
20	An Examination of Utilizing External Measures to Identify Sexually Maturing Female American Eels, <i>Anguilla Rostrata</i> , in the St. Lawrence River. <i>Environmental Biology of Fishes</i> , 2002 , 65, 271-287	1.6	14
19	Development of a retinoic acid receptor-binding assay with rainbow trout tissue: characterization of retinoic acid binding, receptor tissue distribution, and developmental changes. <i>General and Comparative Endocrinology</i> , 2001 , 123, 254-67	3	14
18	Mechanisms by which calcium ionophore and phorbol ester modulate steroid production by goldfish preovulatory ovarian follicles. <i>The Journal of Experimental Zoology</i> , 1992 , 262, 271-278		13
17	Circulating androgens are influenced by parental nest defense in a wild teleost fish. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2011 , 197, 711-5	2.3	12

16	Effects of pulp and paper mill effluent extractives on aromatase CYP19a gene expression and sex steroid levels in juvenile triploid rainbow trout. <i>Aquatic Toxicology</i> , 2010 , 97, 353-60	5.1	12
15	Peptide growth factors modulate prostaglandin E and F production by goldfish ovarian follicles. <i>General and Comparative Endocrinology</i> , 1998 , 110, 46-57	3	10
14	Terminology of Gonadal Anomalies in Fish and Amphibians Resulting from Chemical Exposures. <i>Reviews of Environmental Contamination and Toxicology</i> , 2006 , 103-131	3.5	9
13	Dopamine inhibits gonadotropin secretion in the Chinese loach (<i>Paramisgurnus dabryanus</i>). <i>Fish Physiology and Biochemistry</i> , 1989 , 6, 285-8	2.7	9
12	Comparison between the effects of the phytosterol β sitosterol and pulp and paper mill effluents on sexually immature rainbow trout 1999 , 18, 329		9
11	Inhibition of spawning in zebrafish (<i>Danio rerio</i>): Adverse outcome pathways of quinacrine and ethinylestradiol. <i>General and Comparative Endocrinology</i> , 2015 , 219, 89-101	3	7
10	Investigating the role of prostaglandin receptor isoform EP4b in zebrafish ovulation. <i>General and Comparative Endocrinology</i> , 2019 , 283, 113228	3	7
9	Milt production in goldfish: regulation by multiple social stimuli. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2001 , 130, 467-76	3.2	7
8	Terminology of Gonadal Anomalies in Fish and Amphibians Resulting from Chemical Exposures. <i>Reviews of Environmental Contamination and Toxicology</i> , 2006 , 103-131	3.5	7
7	Differential binding of endogenous steroids and chemicals to androgen receptors in rainbow trout and goldfish 2000 , 19, 2059		5
6	Reproductive history and nest environment are correlated with circulating androgen and glucocorticoid concentrations in a parental care-providing teleost fish. <i>Physiological and Biochemical Zoology</i> , 2012 , 85, 209-18	2	4
5	Polyunsaturated fatty acids do not activate protein kinase C in the testis of the goldfish (<i>Carassius auratus</i>). <i>Fish Physiology and Biochemistry</i> , 1994 , 13, 49-57	2.7	4
4	Estimation of Arachidonic Acid Requirement for Improvement of Pre-maturation Growth and Egg and Larval Quality in the Female Blue Gourami (<i>Trichopodus trichopterus</i> ; Pallas, 1770): A Model for the Anabantidae Family. <i>Journal of the World Aquaculture Society</i> , 2019 , 50, 359-373	2.5	4
3	Atrazine and its degradates have little effect on the corticosteroid stress response in the zebrafish. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2015 , 170, 1-7	3.2	3
2	Exposure to β sitosterol alters the endocrine status of goldfish differently than 17 β estradiol 1997 , 16, 1895		3
1	Effects of bleached kraft mill effluent on fish in the St. Maurice River, Quebec 1992 , 11, 1635		2