

Andrew R Cossins

List of Publications by Year in descending order

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106
papers

6,596
citations

61984

43
h-index

71685

76
g-index

110
all docs

110
docs citations

110
times ranked

7904
citing authors

#	ARTICLE	IF	CITATIONS
1	Coping with cold: An integrative, multitissue analysis of the transcriptome of a poikilothermic vertebrate. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16970-16975.	7.1	410
2	Encoded Microcarriers For High-Throughput Multiplexed Detection. Angewandte Chemie - International Edition, 2006, 45, 6104-6117.	13.8	347
3	Contribution of trans regulatory eQTL to cryptic genetic variation in <i>C. elegans</i> . BMC Genomics, 2017, 18, 500.	2.8	345
4	Fish as models for environmental genomics. Nature Reviews Genetics, 2005, 6, 324-333.	16.3	223
5	Evolution of Oxygen Secretion in Fishes and the Emergence of a Complex Physiological System. Science, 2005, 307, 1752-1757.	12.6	223
6	Adaptation of biological membranes to temperature. The effect of temperature acclimation of goldfish upon the viscosity of synaptosomal membranes. Biochimica Et Biophysica Acta - Biomembranes, 1977, 470, 395-411.	2.6	185
7	Evolution of Mammalian Diving Capacity Traced by Myoglobin Net Surface Charge. Science, 2013, 340, 1234192.	12.6	178
8	Nitrite Regulates Hypoxic Vasodilation via Myoglobin-Dependent Nitric Oxide Generation. Circulation, 2012, 126, 325-334.	1.6	173
9	The Role of Omics in the Application of Adverse Outcome Pathways for Chemical Risk Assessment. Toxicological Sciences, 2017, 158, 252-262.	3.1	161
10	Correlations between behavioral temperature adaptations of goldfish and the viscosity and fatty acid composition of their synaptic membranes. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1977, 120, 109-121.	1.6	156
11	Microarray-Based Detection of Protein Binding and Functionality by Gold Nanoparticle Probes. Analytical Chemistry, 2005, 77, 5770-5774.	6.5	155
12	Application of Microarray Technology in Environmental and Comparative Physiology. Annual Review of Physiology, 2003, 65, 231-259.	13.1	153
13	From The Cover: Hypoxia-inducible myoglobin expression in nonmuscle tissues. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2977-2981.	7.1	152
14	The goldfish (<i>Carassius auratus</i>) as a model for neuroendocrine signaling. Molecular and Cellular Endocrinology, 2008, 293, 43-56.	3.2	147
15	The adaptation of biological membranes to temperature and pressure: Fish from the deep and cold. Journal of Bioenergetics and Biomembranes, 1989, 21, 115-135.	2.3	144
16	Seasonally hibernating phenotype assessed through transcript screening. Physiological Genomics, 2006, 24, 13-22.	2.3	138
17	Remarkably Divergent Regions Punctuate the Genome Assembly of the <i>Caenorhabditis elegans</i> Hawaiian Strain CB4856. Genetics, 2015, 200, 975-989.	2.9	136
18	Effects of fluoxetine on the reproductive axis of female goldfish (<i>Carassius auratus</i>). Physiological Genomics, 2008, 35, 273-282.	2.3	124

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19	Neurodevelopmental Defects in Zebrafish (<i>Danio rerio</i>) at Environmentally Relevant Dioxin (TCDD) Concentrations. <i>Toxicological Sciences</i> , 2003, 76, 392-399.	3.1	121
20	An explicit test of the phospholipid saturation hypothesis of acquired cold tolerance in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 5489-5494.	7.1	116
21	Transcriptomic signatures differentiate survival from fatal outcomes in humans infected with Ebola virus. <i>Genome Biology</i> , 2017, 18, 4.	8.8	115
22	Behavioural analysis of a nociceptive event in fish: Comparisons between three species demonstrate specific responses. <i>Applied Animal Behaviour Science</i> , 2008, 114, 248-259.	1.9	106
23	Cell volume regulation by trout erythrocytes: characteristics of the transport systems activated by hypotonic swelling.. <i>Journal of Physiology</i> , 1991, 440, 547-567.	2.9	100
24	A differential polarized phase fluorometric study of the effects of high hydrostatic pressure upon the fluidity of cellular membranes. <i>Biochemistry</i> , 1983, 22, 409-415.	2.5	92
25	Post-genomic approaches to understanding the mechanisms of environmentally induced phenotypic plasticity. <i>Journal of Experimental Biology</i> , 2006, 209, 2328-2336.	1.7	87
26	Homeoviscous theory under pressure. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1984, 776, 144-150.	2.6	69
27	Rapid cold-induced changes of membrane order and Δ^9 -desaturase activity in endoplasmic reticulum of carp liver: A time-course study of thermal acclimation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1991, 1064, 343-350.	2.6	69
28	Diverse cell-specific expression of myoglobin isoforms in brain, kidney, gill and liver of the hypoxia-tolerant carp and zebrafish. <i>Journal of Experimental Biology</i> , 2009, 212, 627-638.	1.7	68
29	Adaptation of biological membranes to temperature. The lack of homeoviscous adaptation in the sarcoplasmic reticulum. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1978, 511, 442-454.	2.6	65
30	Sodium and potassium transport in trout (<i>Salmo gairdneri</i>) erythrocytes.. <i>Journal of Physiology</i> , 1984, 347, 361-375.	2.9	65
31	Cutaneous immune responses in the common carp detected using transcript analysis. <i>Molecular Immunology</i> , 2007, 44, 1664-1679.	2.2	64
32	Genomic resources and microarrays for the common carp <i>Cyprinus carpio</i> L.. <i>Journal of Fish Biology</i> , 2008, 72, 2095-2117.	1.6	60
33	One step visual detection of PCR products with gold nanoparticles and a nucleic acid lateral flow (NALF) device. <i>Chemical Communications</i> , 2007, , 4251.	4.1	58
34	Variable homeoviscous responses of different brain membranes of thermally-acclimated goldfish. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1982, 687, 303-309.	2.6	54
35	Transcriptomics and <i>in vivo</i> tests reveal novel mechanisms underlying endocrine disruption in an ecological sentinel, <i>Nucella lapillus</i> . <i>Molecular Ecology</i> , 2013, 22, 1589-1608.	3.9	53
36	Molecular Correlates of Social Dominance: A Novel Role for Ependymin in Aggression. <i>PLoS ONE</i> , 2011, 6, e18181.	2.5	52

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37	Molecular basis of chill resistance adaptations in poikilothermic animals. <i>Journal of Experimental Biology</i> , 2014, 217, 6-15.	1.7	51
38	Global cooling: Cold acclimation and the expression of soluble proteins in carp skeletal muscle. <i>Proteomics</i> , 2007, 7, 2667-2681.	2.2	48
39	Functional differentiation of myoglobin isoforms in hypoxia-tolerant carp indicates tissue-specific protective roles. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012, 302, R693-R701.	1.8	48
40	Salinity adaptation and gene profiling analysis in the European eel (<i>Anguilla anguilla</i>) using microarray technology. <i>General and Comparative Endocrinology</i> , 2007, 152, 274-280.	1.8	46
41	The Potential for Temperature Acclimatisation of Reef Corals in the Face of Climate Change. , 2011, , 421-433.		46
42	Automated monitoring of behaviour in zebrafish after invasive procedures. <i>Scientific Reports</i> , 2019, 9, 9042.	3.3	46
43	A steady state and differential polarised phase fluorimetric study of the liver microsomal and mitochondrial membranes of thermally acclimated green sunfish (<i>Lepomis cyanellus</i>). <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1980, 599, 341-358.	2.6	45
44	Myoglobin's new clothes. <i>Nature</i> , 2008, 454, 416-417.	27.8	45
45	A sense of cell size. <i>Nature</i> , 1991, 352, 667-668.	27.8	44
46	The Use of Transcriptomics to Address Questions in Behaviour: Production of a Suppression Subtractive Hybridisation Library from Dominance Hierarchies of Rainbow Trout. <i>Physiological and Biochemical Zoology</i> , 2005, 78, 695-705.	1.5	43
47	Single Gene Differentiation by DNA-Modified Carbon Electrodes Using an AC Impedimetric Approach. <i>Analytical Chemistry</i> , 2007, 79, 1153-1157.	6.5	43
48	Changes in muscle lipid composition and resistance adaptation to temperature in the freshwater crayfish, <i>Austropotamobius pallipes</i> . <i>Lipids</i> , 1976, 11, 307-316.	1.7	42
49	The Seasonal Modulation of Na ⁺ /H ⁺ Exchanger Activity in Trout Erythrocytes. <i>Journal of Experimental Biology</i> , 1989, 144, 463-478.	1.7	42
50	Fatty feedback and fluidity. <i>Nature</i> , 1993, 365, 606-607.	27.8	41
51	A rapid and massive gene expression shift marking adolescent transition in <i>C. elegans</i> . <i>Scientific Reports</i> , 2014, 4, 3912.	3.3	41
52	Homeoviscous adaptation and its effect upon membrane-bound proteins. <i>Journal of Thermal Biology</i> , 1981, 6, 183-187.	2.5	39
53	Mating system manipulation and the evolution of sex-biased gene expression in <i>Drosophila</i> . <i>Nature Communications</i> , 2017, 8, 2072.	12.8	39
54	Defining Global Neuroendocrine Gene Expression Patterns Associated with Reproductive Seasonality in Fish. <i>PLoS ONE</i> , 2009, 4, e5816.	2.5	39

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55	Ancient and modern duplication events and the evolution of stearoyl-CoA desaturases in teleost fishes. <i>Physiological Genomics</i> , 2008, 35, 18-29.	2.3	38
56	Dietary n-3 long-chain polyunsaturated fatty acid deprivation, tissue lipid composition, ex vivo prostaglandin production, and stress tolerance in juvenile dover sole (<i>Solea solea</i> L.). <i>Lipids</i> , 2000, 35, 745-755.	1.7	36
57	An Information-Rich Alternative, Chemicals Testing Strategy Using a High Definition Toxicogenomics and Zebrafish (<i>Danio rerio</i>) Embryos. <i>Toxicological Sciences</i> , 2010, 118, 128-139.	3.1	36
58	Novel candidate genes identified in the brain during nociception in common carp (<i>Cyprinus carpio</i>) and rainbow trout (<i>Oncorhynchus mykiss</i>). <i>Neuroscience Letters</i> , 2008, 437, 135-138.	2.1	35
59	Regional variation in parvalbumin isoform expression correlates with muscle performance in common carp (<i>Cyprinus carpio</i>). <i>Journal of Experimental Biology</i> , 2009, 212, 184-193.	1.7	33
60	Species-Specific Responses of Membranes and the Na ⁺ +K ⁺ Pump to Temperature Change in the Kidney of Two Species of Freshwater Fish, Roach (<i>Rutilus rutilus</i>) and Arctic Char (<i>Salvelinus alpinus</i>). <i>Physiological Zoology</i> , 1992, 65, 17-34.	1.5	33
61	An histological and ultrastructural study of <i>Thelohania contejeani</i> Henneguy, 1892 (Nosematidae), Microsporidian parasite of the crayfish <i>Austropotamobius pallipes</i> Lereboullet. <i>Parasitology</i> , 1974, 68, 81-91.	1.5	32
62	Implications of the solvent vehicles dimethylformamide and dimethylsulfoxide for establishing transcriptomic endpoints in the zebrafish embryo toxicity test. <i>Environmental Toxicology and Chemistry</i> , 2012, 31, 593-604.	4.3	30
63	Welfare Challenges Influence the Complexity of Movement: Fractal Analysis of Behaviour in Zebrafish. <i>Fishes</i> , 2019, 4, 8.	1.7	29
64	The effects of oxygenation upon the Cl-dependent K flux pathway in equine red cells. <i>Pflugers Archiv European Journal of Physiology</i> , 1996, 432, 270-277.	2.8	28
65	TRANSCRIPTOME-WIDE EXPRESSION VARIATION ASSOCIATED WITH ENVIRONMENTAL PLASTICITY AND MATING SUCCESS IN <i>CACTOPHILICDROSOPHILA MOJAVENSIS</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2013, 67, 1950-1963.	2.3	28
66	Beyond the Lipid Hypothesis. , 2007, 594, 132-142.		28
67	Heat injury and resistance adaptation in fish. <i>Journal of Thermal Biology</i> , 1995, 20, 191-197.	2.5	27
68	Interacting effects of temperature, pressure and cholesterol content upon the molecular order of dioleoylphosphatidylcholine vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1984, 772, 197-201.	2.6	26
69	Single-Step Selection of Bivalent Aptamers Validated by Comparison with SELEX Using High-Throughput Sequencing. <i>PLoS ONE</i> , 2014, 9, e100572.	2.5	25
70	Adaptation of intestinal morphology in the temperature-acclimated carp, <i>Cyprinus carpio</i> L. <i>Cell and Tissue Research</i> , 1988, 251, 451-456.	2.9	23
71	Seasonality of the red blood cell stress response in rainbow trout(<i>Oncorhynchus mykiss</i>). <i>Journal of Experimental Biology</i> , 2004, 207, 357-367.	1.7	23
72	Standard Annotation of Environmental OMICS Data: Application to the Transcriptomics Domain. <i>OMICS A Journal of Integrative Biology</i> , 2006, 10, 172-178.	2.0	21

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73	Discovering genes: the use of microarrays and laser capture microdissection in pain research. <i>Brain Research Reviews</i> , 2004, 46, 225-233.	9.0	20
74	Cryptic clues revealed. <i>Nature</i> , 1998, 396, 309-310.	27.8	19
75	Characterization of TCDD-induced craniofacial malformations and retardation of zebrafish growth. <i>Journal of Fish Biology</i> , 2004, 64, 911-922.	1.6	19
76	Life without Oxygen: Gene Regulatory Responses of the Crucian Carp (<i>Carassius carassius</i>) Heart Subjected to Chronic Anoxia. <i>PLoS ONE</i> , 2014, 9, e109978.	2.5	18
77	The role of homeoviscous adaptation in mammalian hibernation. <i>Journal of Thermal Biology</i> , 1982, 7, 107-110.	2.5	15
78	The role of anion and cation channels in volume regulatory responses in trout red blood cells. <i>Bioelectrochemistry</i> , 2000, 52, 133-149.	4.6	15
79	Efficient embedding technique for preparing small specimens for stereological volume estimation: zebrafish larvae. <i>Journal of Microscopy</i> , 2002, 206, 179-181.	1.8	15
80	Acute and chronic stress prevents responses to pain in zebrafish: evidence for stress-induced analgesia. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	15
81	Thermal limits for behavioural function and resistance-adaptation of goldfish, <i>Carassius auratus</i> L.. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1979, 129, 241-246.	1.6	14
82	Chapter 6 Effects of temperature on cellular ion regulation and membrane transport systems. <i>Biochemistry and Molecular Biology of Fishes</i> , 1995, 5, 101-126.	0.5	14
83	Sesamin as a potential modulator of fatty acid composition in common carp (<i>Cyprinus carpio</i>). <i>Aquaculture Research</i> , 2010, 41, e851-e861.	1.8	14
84	Regulation by fish red cells. <i>Nature</i> , 1989, 340, 20-21.	27.8	12
85	Southern discomfort. <i>Nature</i> , 1996, 382, 582-583.	27.8	12
86	A differential scanning calorimetry and fluorescence polarisation study of membrane lipid fluidity in a psychrophilic bacterium. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1985, 820, 115-121.	2.6	11
87	Fishy tales of kidney function. <i>Nature</i> , 1994, 371, 377-378.	27.8	11
88	The Selection of DNA Aptamers for Two Different Epitopes of Thrombin Was Not Due to Different Partitioning Methods. <i>Nucleic Acid Therapeutics</i> , 2013, 23, 88-92.	3.6	11
89	Host selectively contributes to shaping intestinal microbiota of carnivorous and omnivorous fish. <i>Journal of General and Applied Microbiology</i> , 2019, 65, 129-136.	0.7	11
90	The gut in feast and famine. <i>Nature</i> , 1996, 379, 23-23.	27.8	10

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91	Catalytic hydrogenation of polyunsaturated biological membranes: effects on membrane fatty acid composition and physical properties. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1998, 1368, 41-51.	2.6	10
92	An electrogenerated polyterthiophene for binding and sensing polyadenosine-functionalised oligonucleotides. <i>Sensors and Actuators B: Chemical</i> , 2007, 122, 253-258.	7.8	7
93	Transcriptome sequencing of human breast cancer reveals aberrant intronic transcription in amplicons and dysregulation of alternative splicing with major therapeutic implications. <i>International Journal of Oncology</i> , 2016, 48, 130-144.	3.3	7
94	Metabolism of trout red blood cells: correlation between cation transport and oxygen uptake following adrenergic stimulation. <i>Aquaculture</i> , 1999, 177, 267-275.	3.5	5
95	Investigation of Van Gogh-like 2 mRNA regulation and localisation in response to nociception in the brain of adult common carp (<i>Cyprinus carpio</i>). <i>Neuroscience Letters</i> , 2009, 465, 290-294.	2.1	5
96	Experimental sexual selection reveals rapid evolutionary divergence in sex-specific transcriptomes and their interactions following mating. <i>Molecular Ecology</i> , 2022, 31, 3374-3388.	3.9	5
97	Worldwide Genomic Resources for Non-Model Fish Species. <i>Comparative and Functional Genomics</i> , 2003, 4, 502-508.	2.0	4
98	Guest editors' introduction. <i>Journal of Experimental Biology</i> , 2007, 210, 1491-1491.	1.7	4
99	Application of ESTs in Microarray Analysis. <i>Methods in Molecular Biology</i> , 2009, 533, 289-309.	0.9	3
100	Identification of Candidate Genes and Physiological Pathways Involved in Gonad Deformation in Whitefish (<i>Coregonus</i> spp.) from Lake Thun, Switzerland. <i>International Journal of Environmental Research and Public Health</i> , 2011, 8, 2706-2733.	2.6	2
101	The adjustment of membrane fluidity during thermal adaptation. <i>Journal of Thermal Biology</i> , 1983, 8, 433-434.	2.5	1
102	Cold facts and naked truth. <i>Nature</i> , 1991, 353, 699-699.	27.8	1
103	ExprAlign - the identification of ESTs in non-model species by alignment of cDNA microarray expression profiles. <i>BMC Genomics</i> , 2009, 10, 560.	2.8	1
104	Ken Bowler and the development of thermal biology. <i>Journal of Thermal Biology</i> , 2015, 54, 3-4.	2.5	1
105	Post-genomic and discovery-driven approaches to abiotic environmental stress adaptation in fish. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2008, 148, 451.	2.6	0
106	Marine Genomics Special issue "Genome-powered perspectives in integrative physiology and evolutionary biology". <i>Marine Genomics</i> , 2016, 30, 1-2.	1.1	0