Terrence R Tiersch

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6098661/publications.pdf

Version: 2024-02-01

279487 315357 1,758 71 23 38 citations h-index g-index papers 73 73 73 779 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Design, alpha testing, and beta testing of a 3-D printed open-hardware portable cryopreservation device for aquatic species. Journal of Applied Aquaculture, 2023, 35, 213-236.	0.7	11
2	The emerging role of open technologies for community-based improvement of cryopreservation and quality management for repository development in aquatic species. Animal Reproduction Science, 2022, 246, 106871.	0.5	18
3	Is catalase an effective additive to alleviate oxidative stress during cryopreservation of zebrafish sperm at the repository level?. Cryobiology, 2022, 104, 70-78.	0.3	4
4	An open hardware 3-D printed device for measuring tensile properties of thermoplastic filament polymers at cryogenic temperatures. Cryogenics, 2022, 121, 103409.	0.9	7
5	Low-Cost Resin 3-D Printing for Rapid Prototyping of Microdevices: Opportunities for Supporting Aquatic Germplasm Repositories. Fishes, 2022, 7, 49.	0.7	11
6	An Open-Hardware Insemination Device for Small-Bodied Live-Bearing Fishes to Support Development and Use of Germplasm Repositories. Animals, 2022, 12, 961.	1.0	5
7	A practical evaluation of machine learning for classification of ultrasound images of ovarian development in channel catfish (Ictalurus punctatus). Aquaculture, 2022, 552, 738039.	1.7	7
8	An Impedimetric Sensing Probe Based on Printed Circuit Board Technology for Monitoring in Cryobiology Applications. Journal of the Electrochemical Society, 2021, 168, 067505.	1.3	2
9	A 3D Printed Vitrification Device for Storage in Cryopreservation Vials. Applied Sciences (Switzerland), 2021, 11, 7977.	1.3	11
10	A generalized approach for sperm cryopreservation in the genus Pomoxis : Sperm cryopreservation and fertilization efficiency of blackâ€stripe black crappie, Pomoxis nigromaculatus. Journal of the World Aquaculture Society, 2021, 52, 405-417.	1.2	1
11	Development of an open hardware 3-D printed conveyor device for continuous cryopreservation of non-batched samples. Aquacultural Engineering, 2021, 95, 102202.	1.4	10
12	3-D printed customizable vitrification devices for preservation of genetic resources of aquatic species. Aquacultural Engineering, 2020, 90, 102097.	1.4	14
13	Temporal and Concentration Effects of Methanol on Cryopreservation of Zebrafish (<i>Danio) Tj ETQq1 1 0.7843</i>	14.rgBT /C	verlock 10 T
14	Microfabrication of low-cost customisable counting chambers for standardised estimation of sperm concentration. Reproduction, Fertility and Development, 2020, 32, 873.	0.1	9
15	Three-Dimensional Printing of Vitrification Loop Prototypes for Aquatic Species. Zebrafish, 2019, 16, 252-261.	0.5	11
16	Development of germplasm repositories to assist conservation of endangered fishes: Examples from small-bodied livebearing fishes. Theriogenology, 2019, 135, 138-151.	0.9	26
17	Three-dimensional printing can provide customizable probes for sensing and monitoring in cryobiology applications. Cryobiology, 2019, 88, 64-69.	0.3	7
18	Onâ€Site Capabilities of a Mobile Laboratory for Aquatic Germplasm Cryopreservation. North American Journal of Aquaculture, 2019, 81, 349-363.	0.7	6

#	Article	IF	CITATIONS
19	Cryopreservation of sperm bundles (spermatozeugmata) from endangered livebearing goodeids. Cryobiology, 2018, 82, 49-56.	0.3	8
20	Design and Cost Analysis of a Selfâ€contained Mobile Laboratory for Commercialâ€scale Aquatic Species Cryopreservation. Journal of the World Aquaculture Society, 2018, 49, 805-826.	1.2	8
21	Changes to Extender, Cryoprotective Medium, and <i>In Vitro </i> Fertilization Improve Zebrafish Sperm Cryopreservation. Zebrafish, 2018, 15, 279-290.	0.5	45
22	Evaluation of Commercialâ€scale Approaches for Cryopreservation of White Crappie, Pomoxis annularis , Sperm. Journal of the World Aquaculture Society, 2018, 49, 725-734.	1.2	3
23	Activation of free sperm and dissociation of sperm bundles (spermatozeugmata) of an endangered viviparous fish, Xenotoca eiseni. Comparative Biochemistry and Physiology Part A, Molecular & Samp; Integrative Physiology, 2018, 218, 35-45.	0.8	11
24	A Strategy for Sperm Cryopreservation of Atlantic Salmon, <i>Salmo salar</i> , for Remote Commercialâ€scale Highâ€throughput Processing. Journal of the World Aquaculture Society, 2018, 49, 96-112.	1.2	24
25	Quality evaluation of sperm from livebearing fishes: Standardized assessment of sperm bundles (spermatozeugmata) from Xenotoca eiseni (Goodeidae). Theriogenology, 2018, 107, 50-56.	0.9	12
26	The role of alkalinization-induced Ca2+ influx in sperm motility activation of a viviparous fish Redtail Splitfin (<i>Xenotoca eiseni</i>)â€. Biology of Reproduction, 2018, 99, 1159-1170.	1.2	11
27	Addressing Reproducibility in Cryopreservation, and Considerations Necessary for Commercialization and Community Development in Support of Genetic Resources of Aquatic Species. Journal of the World Aquaculture Society, 2018, 49, 644-663.	1.2	26
28	Production of live young with cryopreserved sperm from the endangered livebearing fish Redtail Splitfin (Xenotoca eiseni, Rutter, 1896). Animal Reproduction Science, 2018, 196, 77-90.	0.5	7
29	A microfluidic device for motility and osmolality analysis of zebrafish sperm. Biomedical Microdevices, 2018, 20, 67.	1.4	14
30	Cryobanking of aquatic species. Aquaculture, 2017, 472, 156-177.	1.7	170
31	3-D printing provides a novel approach for standardization and reproducibility of freezing devices. Cryobiology, 2017, 76, 34-40.	0.3	26
32	Challenges in Development of Sperm Repositories for Biomedical Fishes: Quality Control in Small-Bodied Species. Zebrafish, 2017, 14, 552-560.	0.5	27
33	Standardized Assessment of Thinâ€film Vitrification for Aquatic Species. North American Journal of Aquaculture, 2017, 79, 283-288.	0.7	11
34	Determination of sperm concentration using flow cytometry with simultaneous analysis of sperm plasma membrane integrity in zebrafish <i>Danio rerio</i> Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2016, 89, 350-356.	1.1	13
35	Highâ€throughput Cryopreservation of Sperm from Sexâ€reversed Southern Flounder, <i>Paralichthys lethostigma</i> . Journal of the World Aquaculture Society, 2016, 47, 555-565.	1.2	7
36	Three-dimensional printing with polylactic acid (PLA) thermoplastic offers new opportunities for cryobiology. Cryobiology, 2016, 73, 396-398.	0.3	40

#	Article	IF	CITATIONS
37	A Procedure-Spanning Analysis of Plasma Membrane Integrity for Assessment of Cell Viability in Sperm Cryopreservation of Zebrafish (i>Danio rerio (/i>. Zebrafish, 2016, 13, 144-151.	0.5	18
38	Cryopreservation in fish: current status and pathways to quality assurance and quality control in repository development. Reproduction, Fertility and Development, 2016, 28, 1105.	0.1	47
39	Microfluidics and numerical simulation as methods for standardization of zebrafish sperm cell activation. Biomedical Microdevices, 2015, 17, 65.	1.4	24
40	Simulation modelling of high-throughput cryopreservation of aquatic germplasm: a case study of blue catfish sperm processing. Aquaculture Research, 2015, 46, 432-445.	0.9	11
41	On-site evaluation of commercial-scale hybrid catfish production using cryopreserved blue catfish sperm. Aquaculture, 2014, 426-427, 88-95.	1.7	22
42	Microfluidic mixing for sperm activation and motility analysis of pearl Danio zebrafish. Theriogenology, 2012, 78, 334-344.	0.9	22
43	High-throughput sperm cryopreservation of eastern oyster Crassostrea virginica. Aquaculture, 2012, 344-349, 223-230.	1.7	25
44	Offspring production with cryopreserved sperm from a live-bearing fish Xiphophorus maculatus and implications for female fecundity. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2012, 155, 55-63.	1.3	8
45	Outlook for development of high-throughput cryopreservation for small-bodied biomedical model fishes. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2012, 155, 49-54.	1.3	9
46	Sources of variation in flow cytometric analysis of aquatic species sperm: The effect of cryoprotectants on flow cytometry scatter plots and subsequent population gating. Aquaculture, 2012, 370-371, 179-188.	1.7	17
47	A planar microfluidic mixer based on logarithmic spirals. Journal of Micromechanics and Microengineering, 2012, 22, 055019.	1.5	49
48	Production of F ₁ Offspring with Vitrified Sperm from a Live-Bearing Fish, the Green Swordtail <i>Xiphophorus hellerii</i> . Zebrafish, 2011, 8, 167-179.	0.5	28
49	High-throughput cryopreservation of spermatozoa of blue catfish (Ictalurus furcatus): Establishment of an approach for commercial-scale processing. Cryobiology, 2011, 62, 74-82.	0.3	71
50	Current status of sperm cryopreservation in biomedical research fish models: Zebrafish, medaka, and Xiphophorus. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2009, 149, 224-232.	1.3	75
51	Sperm cryopreservation of a live-bearing fish, Xiphophorus couchianus: Male-to-male variation in post-thaw motility and production of F1 hybrid offspring. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2009, 149, 233-239.	1.3	22
52	Field Collection, Handling, and Refrigerated Storage of Sperm of Red Snapper and Gray Snapper. North American Journal of Aquaculture, 2008, 70, 356-364.	0.7	15
53	Production of F1 Interspecies Hybrid Offspring with Cryopreserved Sperm from a Live-Bearing Fish, the Swordtail Xiphophorus helleri1. Biology of Reproduction, 2007, 76, 401-406.	1.2	28
54	Development of a simplified and standardized protocol with potential for high-throughput for sperm cryopreservation in zebrafish Danio rerio. Theriogenology, 2007, 68, 128-136.	0.9	103

#	Article	IF	CITATIONS
55	Cryoprotectant optimization for sperm of diploid Pacific oysters by use of commercial dairy sperm freezing facilities. Aquaculture, 2007, 271, 537-545.	1.7	24
56	Control of sperm concentration is necessary for standardization of sperm cryopreservation in aquatic species: Evidence from sperm agglutination in oysters. Cryobiology, 2007, 54, 87-98.	0.3	64
57	Sperm cryopreservation in fish and shellfish. Society of Reproduction and Fertility Supplement, 2007, 65, 493-508.	0.2	29
58	Effect of osmotic immobilization on refrigerated storage and cryopreservation of sperm from a viviparous fish, the green swordtail Xiphophorus helleri. Cryobiology, 2006, 52, 209-218.	0.3	39
59	Standardization of photometric measurement of sperm concentration from diploid and tetraploid Pacific oysters, Crassostrea gigas (Thunberg). Aquaculture Research, 2005, 36, 86-93.	0.9	29
60	Preliminary Assessment of Refrigerated and Frozen Storage of Sperm of the Coppernose Bluegill. North American Journal of Aquaculture, 2005, 67, 187-192.	0.7	5
61	The relationship of the cryoprotectants methanol and dimethyl sulfoxide and hyperosmotic extenders on sperm cryopreservation of two North-American sturgeon species. Aquaculture, 2005, 247, 243-251.	1.7	65
62	Cryopreservation of sperm of red snapper (Lutjanus campechanus). Aquaculture, 2004, 238, 183-194.	1.7	28
63	The Use of Dairy Protocols for Sperm Cryopreservation of Blue Catfish Ictalurus furcatus. Journal of the World Aquaculture Society, 2003, 34, 66-75.	1.2	37
64	Effect of Extenders and Osmotic Pressure on Storage of Eggs of Ornamental Common Carp Cyprinus carpio at Ambient and Refrigerated Temperatures. Journal of the World Aquaculture Society, 2002, 33, 254-267.	1,2	8
65	Cost Analysis for Integrating Cryopreservation into an Existing Fish Hatchery. Journal of the World Aquaculture Society, 2000, 31, 51-58.	1.2	29
66	Forced-Air Incubation of Catfish Eggs. Journal of Applied Aquaculture, 1994, 3, 279-284.	0.7	2
67	Cryopreservation of Channel Catfish Sperm: Storage in Cryoprotectants, Fertilization Trials, and Growth of Channel Catfish Produced with Cryopreserved Sperm. Transactions of the American Fisheries Society, 1994, 123, 580-586.	0.6	119
68	Early Growth and Morphology Among Hybrids of Ictalurid Catfishes. Journal of Applied Aquaculture, 1994, 3, 235-256.	0.7	9
69	Natural Occurrence of Triploidy in a Wild Brown Bullhead. Transactions of the American Fisheries Society, 1993, 122, 390-392.	0.6	13
70	Construction of an Inexpensive Low-Temperature Incubator. Progressive Fish-Culturist, 1993, 55, 292-293.	0.6	1
71	Cryopreservation of Sperm of Spotted Seatrout (Cynoscion nebulosus). Gulf Research Reports, 0, 9, .	1.0	13