Borys B Dzyuba

List of Publications by Year
in descending order

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88	1,834	257357	330025
papers	citations	24 h-index	37 g-index

92	92	92	1276
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evaluating the Impacts of Osmotic and Oxidative Stress on Common Carp (Cyprinus carpio, L.) Sperm Caused by Cryopreservation Techniques1. Biology of Reproduction, 2010, 83, 852-858.	1.2	100
2	Sperm motility of externally fertilizing fish and amphibians. Theriogenology, 2015, 83, 1-13.e8.	0.9	90
3	Different computer-assisted sperm analysis (CASA) systems highly influence sperm motility parameters. Theriogenology, 2013, 80, 758-765.	0.9	87
4	Ice-age endurance: the effects of cryopreservation on proteins of sperm of common carp, Cyprinus carpio L. Theriogenology, 2010, 74, 413-423.	0.9	69
5	Effect of water temperature on the physiology of fish spermatozoon function: a brief review. Aquaculture Research, 2017, 48, 729-740.	0.9	61
6	Effect of parental age and associated size on fecundity, growth and survival in the yellow seahorse Hippocampus kuda. Journal of Experimental Biology, 2006, 209, 3055-3061.	0.8	57
7	Sperm biology and control of reproduction in sturgeon: (II) sperm morphology, acrosome reaction, motility and cryopreservation. Reviews in Fish Biology and Fisheries, 2012, 22, 861-886.	2.4	54
8	Energetics of fish spermatozoa: The proven and the possible. Aquaculture, 2017, 472, 60-72.	1.7	54
9	Influence of environmental related concentrations of heavy metals on motility parameters and antioxidant responses in sturgeon sperm. Chemico-Biological Interactions, 2010, 188, 473-477.	1.7	48
10	Cryopreservation of early stage Siberian sturgeon Acipenser baerii germ cells, comparison of whole tissue and dissociated cells. Cryobiology, 2016, 72, 119-122.	0.3	47
11	Sperm collection and storage for the sustainable management of amphibian biodiversity. Theriogenology, 2019, 133, 187-200.	0.9	43
12	Dynamics of ATP and movement in Eurasian perch (Perca fluviatilis L.) sperm in conditions of decreasing osmolality. Theriogenology, 2009, 72, 851-859.	0.9	42
13	Dimorphic sperm and the unlikely route to fertilisation in the yellow seahorse. Journal of Experimental Biology, 2007, 210, 432-437.	0.8	39
14	In vitro sperm maturation in sterlet, Acipenser ruthenus. Reproductive Biology, 2014, 14, 160-163.	0.9	39
15	Different swimming behaviors of sterlet (Acipenser ruthenus) spermatozoa close to solid and free surfaces. Theriogenology, 2013, 79, 81-86.	0.9	35
16	Freeze-thawing as the factor of spontaneous activation of spermatozoa motility in common carp (Cyprinus carpio L.). Cryobiology, 2009, 59, 291-296.	0.3	34
17	Volume changes during the motility period of fish spermatozoa: Interspecies differences. Theriogenology, 2013, 79, 872-881.	0.9	33
18	Cryopreservation of sterlet (Acipenser ruthenus) spermatozoa using different cryoprotectants. Journal of Applied Ichthyology, 2011, 27, 1147-1149.	0.3	32

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19	Cryopreservation effects on a viable sperm sterlet (Acipenser ruthenus) subpopulation obtained by a Percoll density gradient method. PLoS ONE, 2018, 13, e0202514.	1.1	30
20	Spontaneous activation of spermatozoa motility by routine freeze-thawing in different fish species. Journal of Applied Ichthyology, 2010, 26, 720-725.	0.3	29
21	The influence of cryoprotectants on sturgeon (Acipenser ruthenus) sperm quality, DNA integrity, antioxidant responses, and resistance to oxidative stress. Animal Reproduction Science, 2015, 159, 66-76.	0.5	29
22	Spermatozoa motility, cryoresistance, and fertilizing ability in sterlet Acipenser ruthenus during sequential stripping. Aquaculture, 2012, 356-357, 272-278.	1.7	25
23	Egg stickiness in artificial reproduction of sturgeon: an overview. Reviews in Aquaculture, 2016, 8, 18-29.	4.6	25
24	The in vitro effect of temperature on motility and antioxidant response of common carp Cyprinus carpio spermatozoa. Journal of Thermal Biology, 2016, 59, 64-68.	1.1	25
25	Progress and challenges of fish sperm vitrification: A mini review. Theriogenology, 2017, 98, 16-22.	0.9	25
26	Analysis of common carp Cyprinus carpio sperm motility and lipid composition using different in vitro temperatures. Animal Reproduction Science, 2017, 180, 37-43.	0.5	24
27	The antioxidant system of sterlet seminal fluid in testes and Wolffian ducts. Fish Physiology and Biochemistry, 2014, 40, 1731-1739.	0.9	22
28	Motility and fertilization ability of sterlet Acipenser ruthenus testicular sperm after cryopreservation. Cryobiology, 2014, 69, 339-341.	0.3	22
29	Lipid composition in common carp (Cyprinus carpio) sperm possessing different cryoresistance. Cryobiology, 2016, 73, 282-285.	0.3	22
30	Protein profile of seminal plasma and functionality of spermatozoa during the reproductive season in the common carp (Cyprinus carpio) and rainbow trout (Oncorhynchus mykiss). Molecular Reproduction and Development, 2016, 83, 968-982.	1.0	22
31	Fish sperm motility analysis: the central role of the flagellum. Reproduction, Fertility and Development, 2018, 30, 833.	0.1	21
32	Swimming at different temperatures: The lipid composition of sperm from three freshwater fish species determined by mass spectrometry and nuclear magnetic resonance spectroscopy. Chemistry and Physics of Lipids, 2019, 221, 65-72.	1.5	20
33	Adaptations of semen characteristics and sperm motility to harsh salinity: Extreme situations encountered by the euryhaline tilapia Sarotherodon melanotheron heudelotii (Dumeril, 1859). Theriogenology, 2016, 86, 1251-1267.	0.9	19
34	Sperm motility in ocellate river stingrays: evidence for postâ€testicular sperm maturation and capacitation in Chondrichthyes. Journal of Zoology, 2019, 307, 9-16.	0.8	19
35	Spermatozoa quality and sperm lipid composition in intensively cultured and wild burbot (Lota lota). Animal Reproduction Science, 2018, 198, 129-136.	0.5	18
36	Pre-spawning water temperature affects sperm respiration and reactivation parameters in male carps. Fish Physiology and Biochemistry, 2009, 35, 661-668.	0.9	17

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37	Enzyme activity in energy supply of spermatozoon motility in two taxonomically distant fish species (sterlet Acipenser ruthenus, Acipenseriformes and common carp Cyprinus carpio, Cypriniformes). Theriogenology, 2016, 85, 567-574.	0.9	17
38	Control of sturgeon sperm motility: Antagonism between K+ ions concentration and osmolality. Animal Reproduction Science, 2016, 164, 82-89.	0.5	17
39	Cryopreservation of Carp (Cyprinus carpio L.) Sperm: Impact of Seeding and Freezing Rates on Postâ€"Thaw Outputs. Biopreservation and Biobanking, 2017, 15, 234-240.	0.5	17
40	Evaluation of Spermiation Indices with Multiple Sperm Collections in Endangered Sterlet (Acipenser ruthenus). Reproduction in Domestic Animals, 2012, 47, 479-484.	0.6	16
41	Motility initiation of sterlet sturgeon (Acipenser ruthenus) spermatozoa: Describing the propagation of the first flagellar waves. Theriogenology, 2015, 84, 51-61.	0.9	16
42	The antioxidant system of seminal fluid during in vitro storage of sterlet Acipenser ruthenus sperm. Fish Physiology and Biochemistry, 2016, 42, 563-568.	0.9	16
43	Standardization of sperm motility analysis by using CASA-Mot for Atlantic salmon (Salmo salar), European eel (Anguilla anguilla) and Siberian sturgeon (Acipenser baerii). Aquaculture, 2019, 502, 223-231.	1.7	16
44	Quantification of adenosine triphosphate, adenosine diphosphate, and creatine phosphate in sterlet Acipenser ruthenus spermatozoa during maturation1. Journal of Animal Science, 2015, 93, 5214-5221.	0.2	15
45	Sperm maturation in sturgeon (Actinopterygii, Acipenseriformes): A review. Theriogenology, 2017, 97, 134-138.	0.9	15
46	Protective role of antifreeze proteins on sterlet (Acipenser ruthenus) sperm during cryopreservation. Fish Physiology and Biochemistry, 2018, 44, 1527-1533.	0.9	15
47	Strong Isotope Effects on Melting Dynamics and Ice Crystallisation Processes in Cryo Vitrification Solutions. PLoS ONE, 2015, 10, e0120611.	1.1	14
48	Fish sperm biology in relation to urogenital system structure. Theriogenology, 2019, 132, 153-163.	0.9	14
49	Spermatozoa motility and variation in the seminal plasma proteome of Eurasian perch (Perca) Tj ETQq1 1 0.784314 rgBT /Overlock 1 879-887.	1.0	13
50	Variable sperm size and motility activation in the pipefish, Syngnathus abaster; adaptations to paternal care or environmental plasticity?. Reproduction, Fertility and Development, 2008, 20, 474.	0.1	12
51	Motility of sturgeon spermatozoa can sustain successive activations episodes. Animal Reproduction Science, 2013, 138, 305-313.	0.5	12
52	Segregated water observed in a putative fish embryo cryopreservative. Royal Society Open Science, 2016, 3, 150655.	1.1	12
53	Percoll gradient separation of cryopreserved common carp spermatozoa to obtain a fraction with higher motility, velocity and membrane integrity. Theriogenology, 2010, 74, 1356-1361.	0.9	11
54	Hypotonic treatment prior to freezing improves cryoresistance of common carp (Cyprinus carpio L.) spermatozoa. Cryobiology, 2013, 66, 192-194.	0.3	11

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55	Optimization of sperm irradiation protocol for induced gynogenesis in Siberian sturgeon, Acipenser baerii. Aquaculture International, 2014, 22, 485-495.	1.1	11
56	In vitro antioxidant enzyme activity and sperm motility at different temperatures in sterlet Acipenser ruthenus and rainbow trout Oncorhynchus mykiss. Fish Physiology and Biochemistry, 2019, 45, 1791-1800.	0.9	11
57	Sperm Lipid Composition in Early Diverged Fish Species: Internal vs. External Mode of Fertilization. Biomolecules, 2020, 10, 172.	1.8	11
58	Energy pathways associated with sustained spermatozoon motility in the endangered Siberian sturgeon <scp>Acipenser baerii</scp>. Journal of Fish Biology, 2020, 97, 435-443.	0.7	10
59	The role of Ca2+ and Na+ membrane transport in brook trout (Salvelinus fontinalis) spermatozoa motility. Fish Physiology and Biochemistry, 2014, 40, 1417-1421.	0.9	9
60	Oxidative stress and motility in tench Tinca tinca spermatozoa. Czech Journal of Animal Science, 2015, 60, 250-262.	0.5	9
61	Effects of temperature on sperm motility of burbot Lota lota: spontaneous activation and calcium dependency. Journal of Fish Biology, 2019, 95, 1137-1144.	0.7	9
62	Sperm motility of the Nile tilapia (Oreochromis niloticus): Effects of temperature on the swimming characteristics. Animal Reproduction Science, 2019, 202, 65-72.	0.5	9
63	Sperm motility and lipid composition in internally fertilizing ocellate river stingray Potamotrygon motoro. Theriogenology, 2019, 130, 26-35.	0.9	9
64	A study of the dynamics of volume changes during the period of active motility in carp, Cyprinus carpio L., spermatozoa. Aquaculture Research, 2001, 32, 51-56.	0.9	9
65	Consequences of uncontrolled cooling during sterlet (Acipenser ruthenus) sperm cryopreservation on post-thaw motility and fertilizing ability. Theriogenology, 2017, 95, 89-95.	0.9	8
66	Role of Ca2+ in the IVM of spermatozoa from the sterlet Acipenser ruthenus. Reproduction, Fertility and Development, 2017, 29, 1319.	0.1	8
67	Development and application of LC/HRPS for quantification of adenine nucleotides, creatine phosphate, and creatine in sturgeon spermatozoa. Czech Journal of Animal Science, 2017, 62, 67-74.	0.5	8
68	Transferrin Identification in Sterlet (Acipenser ruthenus) Reproductive System. Animals, 2019, 9, 753.	1.0	8
69	Different glycolipids in sperm from different freshwater fishes â€“ A highâ€performance thinâ€layer chromatography/electrospray ionization mass spectrometry study. Rapid Communications in Mass Spectrometry, 2020, 34, e8875.	0.7	8
70	Ultrastructural feature of spermatogenic cells and spermatozoon in cultured burbot Lota lota. Tissue and Cell, 2019, 61, 1-7.	1.0	7
71	Multiple sperm collection as an effective solution for gamete management in pikeperch (Sander) Tj ETQq1 1 0.784314 rgBT /Overlock	1.7	6
72	Comparison of Protein Fractions in Seminal Plasma from Multiple Sperm Collections in Sterlet (Acipenser ruthenus). Reproduction in Domestic Animals, 2013, 48, 156-159.	0.6	5

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73	Calcium ion supplementation increases brook trout Salvelinus fontinalis spermatozoa activation at the end of the spawning season. Journal of Fish Biology, 2014, 85, 933-937.	0.7	5
74	Optimization of sterlet sperm concentration for cryopreservation. Aquaculture, 2021, 540, 736682.	1.7	5
75	Bioenergetic Pathways in the Sperm of an Under-Ice Spawning Fish, Burbot (Lota lota): The Role of Mitochondrial Respiration in a Varying Thermal Environment. Biology, 2021, 10, 739.	1.3	5
76	Characterization of proteolytic and anti-proteolytic activity involvement in sterlet spermatozoon maturation. Fish Physiology and Biochemistry, 2016, 42, 1755-1766.	0.9	4
77	Sperm antioxidant system in ocellate river stingray Potamotrygon motoro at transition from seminal vesicle to cloaca. Fish Physiology and Biochemistry, 2020, 46, 1975-1980.	0.9	4
78	Does the Rainbow Trout Ovarian Fluid Promote the Spermatozoon on Its Way to the Egg?. International Journal of Molecular Sciences, 2021, 22, 9519.	1.8	4
79	Egg-sperm interaction in sturgeon: role of ovarian fluid. Fish Physiology and Biochemistry, 2020, 47, 653-669.	0.9	3
80	Heterogeneity of cryoresistance in common carp sperm. Animal Reproduction Science, 2016, 169, 114-115.	0.5	2
81	Effects of antifreeze proteins on cryopreserved sterlet, Acipenser ruthenus sperm quality. Cryobiology, 2018, 85, 184.	0.3	1
82	Influence of Environmental Temperature and Hormonal Stimulation on the In Vitro Sperm Maturation in Sterlet Acipenser ruthenus in Advance of the Spawning Season. Animals, 2021, 11, 1417.	1.0	1
83	Energetics of Fish Spermatozoa. , 2020, , 69-116.		1
84	Relationship of Motility Activation to Lipid Composition, Protein Profile, and Swelling Rate of Burbot Lota lota Spermatozoon Following Change of Temperature and Osmolality. Frontiers in Marine Science, 2021, 8, .	1.2	1
85	Fish Sperm Quality Evaluation After Cryopreservation. , 2020, , 117-133.		1
86	Common carp spermatozoa performance is significantly affected by ovarian fluid. Aquaculture, 2022, 554, 738148.	1.7	1
87	The Effect of Hormonal Treatment on Selected Sperm Quality Parameters and Sex Steroids in Tropical Cyprinid Bala Shark Balantiocheilos melanopterus. Fishes, 2022, 7, 122.	0.7	1
88	Induction of Spermiation in Sterlet Acipenser ruthenus by PLGA Microparticle Delivery with Sustained Alarelin Release. Animals, 2021, 11, 3305.	1.0	0