

CURRICULUM VITAE

of

PROF. IOANNIS D. LEONARDOS

Ioannis D. Leonardos is a Professor of the Department of Biological Applications and Technologies of the University of Ioannina. He has more than 35 years experience in the research in the field of Fish Biology. He has published more than 80 scientific papers in international journals with referees and has presented his research results in more than 40 international conferences and 65 Greek conferences. It has more than 1300 citations (h-index about 23). It teaches in the higher education about 35 years. His teaching experience includes teaching undergraduate courses at the Department of Biological Applications and Technologies such as Zoology, Ichthyology, Aquaculture, Limnology, Hydrobiology, Marine Biology. In the Postgraduate Program he coordinates and teaches the course "Aquaculture". He has supervised more than 50 undergraduate and postgraduate diploma theses. He has supervised 5 PhD theses, while supervising 4 more others He has participated in 40 research projects, of which 30 were scientifically responsible. He has evaluated numerous research projects.

PERSONAL INFORMATION:

Name: **Ioannis**

Surname: **Leonardos**

Address: Biological Applications and Technology Department, University of Ioannina, University campus, 45110 Ioannina, Greece.

Date and place of birth: Etolikon, Greece. 20 Nov 1958

Citizenship: Greek

Marital status: Married (with two children)

Telephone: +30 2651007313 (Office) +302651 00 7357,8 (laboratory)

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EDUCATION:

1981: Bsc in Biology Aristotelian University, Thessaloniki, Greece.

1982: National service

1996: PhD Dissertation in Fish population dynamics from Department of Biology, Aristotelian University, Thessaloniki Greece.

WORKING EXPERIENCE: Overall working experience (in years): 32 years

Current position: Professor in University of Ioannina, Greece. Research interests in Fish Biology, from 2001 - now.

Previous positions: Professor in Technological and Educational Institute (TEI) of West Greece from 1985 until 2001.

REVIEWER IN INTERNATIONAL JOURNALS

More than one hundred (100) manuscripts has been reviewed for thirty (30) different scientific international journals

RESEARCH PROJECTS

Participation in more than forty (40) research projects, thirty-two (32) of them as coordinator or partner.

Study of the biology of the alien fish species *Carassius gibelio* (Bloch, 1782) as well as the ecological consequences of its introduction into the inland waters of Greece. 1/3/2004 - 31/12/2006 Funding: YPEPTH "PYTHAGORAS" program: "Strengthening Research Groups in Universities"

Experimental reproduction and Polychaeta experiment in controlled cultivation conditions. Funding Organization: Fisheries Program 2000-2006. Priority Axis 4. Measure 4.6. Innovative Measures. Project Alieia 2000-2006. 1/6/2006 - 31/05/2009 . Hellenic Ministry of Rural Development and Food Project 4.

Intensive and prolonged aquaculture of the species of inland water. European Union / Greece 1/1/2006 - 31/12/2006. Funding: European Union (COOP-CT-2004-512575)

Food web structure as a tool of water quality improvement –comparison of temperate and Mediterranean lakes. General Secretariat for Research and Technology. Bilateral program Greek-Poland 20/10/2006 – 31/03/2008. JOINT RESEARCH AND TECHNOLOGY PROGRAMMS 2005-2007 Greece – Poland 2005-2007.

Comparative study of population structure and life traits of *Carassius auratus gibelio* (Bloch, 1782), based on the populations of Western Greece and Donbass region of Ukraine. General Secretariat for Research and Technology. Bilateral program Greek- Ukraine 27/06/2006 – 31/03/2008

Comparative study of fish parasites biodiversity from Kavala (Aegean sea), Messolonghi bay (Ionian sea) and coast of Montenegro (Adriatic sea). General Secretariat for Research and Technology. Bilateral program Greek-Montenegro. 25/09/2007 – 31/03/2008. JOINT RESEARCH AND TECHNOLOGY PROGRAMMS Greece-Montenegro. 2004 – 2006.

Development of a model Web based virtual observatory of Acherontas, Kalamas and Torre Guaceto ecosystems and its application as a mobile exhibit and permanent environmental kiosk towards public awareness and sustainable development of coastal ecosystems (EcoDO-Net). Community Initiative INTERREG III 2000-2006. The cross-border European Territorial Cooperation Programme "Greece-Italy 2000-2006" INTERREG III . 1/3/2007-31/05/2008.

Study of the quality of physicochemical, toxic and harmful algae in Ziros Lake - Estimation of environmental hazards and ecosystem protection proposals. Prefecture of Preveza, Greece 1/3/2009 – 28/02/2010. Funding NA Preveza.

PUBLICATIONS:

Seventy-four (82) publications in peer-reviewed journals and three (3) book chapters. More than one hundred and twenty (20) presentations in national and international conferences with poster and oral presentations. _

B. Publications cited

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- B1. Leonardos, I., A. Sinis and D. Petridis 1996. Influence of Environmental factors on the population dynamics of *Aphanius fasciatus* (Nardo, 1827). (Pisces: Cyprinodontidae) in the Lagoons Mesolongi and Etolikon (W.Greece) *Israel Journal of Zoology* 42: 231-249
- B2. Leonardos, I. & A. Sinis 1997. Fish mass mortality in the Etolikon lagoon Greece: The role of local Geology. *Cybiurn* 21(2) 201-206.
- B3. Leonardos I.* & A. Sinis 1998. Reproductive strategy of *Aphanius fasciatus* Nardo, 1827 (Pisces : Cyprinodontidae) in the Mesolongi and Etolikon lagoons (W. Greece) *Fisheries Research* 35: 171-181
- B4. Leonardos I.* & A. Sinis. 1999. Population age and sex structure of *Aphanius fasciatus* Nardo, 1827 (Pisces: Cyprinodontidae) in the Mesolongi and Etolikon lagoons (W. Greece). *Fisheries Research* 40 (3) 227-235.
- B5. Leonardos, I.* & A. Sinis 1999. Age growth and mortality of *Aphanius fasciatus* (Nardo,1827) (Pisces: Cyprinodontidae) in the Messologhi and Etolikon lagoons (Western Greece). *Contributions to the Zoogeography and Ecology of the Eastern Mediterranean region Vol. I :* 327-335
- B6. Leonardos I.* & A. Sinis. 2000. Age, Growth and Mortality of *Atherina boyeri* Risso, 1810 (Pisces : Atherinidae) in the Mesolongi and Etolikon lagoons (W. Greece). *Fisheries Research* 45/1 83-93.
- B7. Leonardos I. 2001. Ecology and exploitation pattern of a landlocked population of sand smelt (*Atherina boyeri* Risso, 1810) in the Trichonis Lake (W. Greece). *Journal of Applied Ichthyology*. 17:262-266.
- B8 Triantafyllidis, A., J. Abatzopoulos, J. Leonardos and R. Guyomard 2002. Microsatellite analysis of the genetic structure of native and translocated Aristotle's catfish (*Silurus aristotelis*) populations. *Aquatic Living Resources* 15:351-359.
- B9 Leonardos, I. * and J.-P. Trilles 2003. Host – parasite relationships: Occurrence and effect of the parasitic isopod *Mothocya epimerica*, Costa 1851(Isopoda: Flabellifera: Cymothoidae) on

- sand smelt *Atherina boyeri* Risso, 1810 (Osteichthyes: Atherinidae), in the Mesolongi and Etolikon lagoons (W. Greece). *Diseases of Aquatic Organisms* 54: 243-251.
- B10 Papagiannis, I., I. Kagalou, I. Leonardos, D. Petridis and V. Kalfakakou 2004. Copper and Zinc in four freshwater fish species from Lake Pamvotis (Greece). *Environment International*. 30 : 357-362.
- B11 Paschos, I. C. Nathanailides, M. Tsoumani, C. Perdikaris, E. Gouva and I. Leonardos 2004. Mating possibilities of gibel carp *Carassius gibelio*, with other species in the Lake Pamvotis (NW Greece) *Belgian Journal of Zoology* 134 (1) 55-60.
- B12 Leonardos, I. 2004. Life history traits of *Scardinius acarnanicus* (Stephanidis, 1939) (Pisces: Cyprinidae) in two Greek Lakes (Lysimachia and Trichonis) *Journal of Applied Ichthyology* 20: 258-264.
- B13 Leonardos I.*, I. Paschos and M. Prassa 2005. Threatened fishes of the world: *Phoxinellus epiroticus* (Steindachner, 1895) (Cyprinidae) *Environmental Biology of Fishes*. 72: 250.
- B14 Koutrakis E, N. I. Kamidis, I. D. Leonardos 2004. Age, growth and mortality of the sand smelt *Atherina boyeri* (Risso, 1810), (Pisces: Atherinidae) in an estuarine system of Northern Greece. *Journal of Applied Ichthyology* 20: 382-388.
- B15 Leonardos, I.* and J-P Trilles. 2004. Studies on the reproductive strategy of the *Mothocya epimerica* (Costa, 1851) (Isopoda: Flabellifera: Cymothoidae) a parasite of the sand smelt *Atherina boyeri* (Risso, 1810) (Osteichthyes: Atherinidae) in the Mesolongi Lagoon (W. Greece). *Diseases of Aquatic Organisms* 62: 249-253
- B16 Leonardos I.*, Kagalou I., Triantafyllidis A. and A. Sinis. 2005. The biological adaptations of a protected fish species in two Greek lakes exhibiting different pollution degree and trophic state. *Journal of Freshwater Ecology*. 20 (4) 715-722.
- B17 Hanif, A., V. Bakopoulos, I. Leonardos, G.J. Dimitriadis 2005. The effect of sea bream (*Sparus aurata*) broodstock and larval vaccination on the susceptibility by *Photobacterium damsela* subsp. *piscicida* and on the humoral immune parameters. *Fish & Shellfish Immunology* 19: 345-361
- B18 Tsoumani M., R. Liasko, P. Moutsaki, I. Kagalou and I. Leonardos* 2006. Length–weight and length–length relationships of an invasive cyprinid fish (*Carassius gibelio*) from 12 Greek lakes in relation to their trophic states. *Journal of Applied Ichthyology*. 22 (4) 281-285.
- B19 Kagalou I., Economidis G., Leonardos I., Papaloukas C . 2006. Assessment of a Mediterranean lentic ecosystem (Lake Pamvotis,Greece) using benthic macroinvertebrate community. *Limnologica*. 36: 269-278
- B20 Kagalou I., Leonardos I. 2006. Planktonic respiration in a shallow eutrophic lake *Journal of Freshwater Ecology*. 21 (3) 531-533.
- B21 Katsaounos C., D. Giokas, I., Leonardos, M. Karayannis 2007. Speciation of phosphorus fractionation in river sediments by explanatory data analysis. *Water Research*. 41 :406-418.

- B22 Leonardos I*, I., Kagalou and A. Triantafyllidis 2007. Threatened fishes of the world: *Silurus aristotelis* (Agassiz, 1856) (Siluridae) .*Environmental Biology of Fishes* 78: 285-286.
- B23 Kagalou I., E. Papastergiadou, and I. Leonardos. 2008. Long term changes on eutrophication process in a shallow Mediterranean lake ecosystem of W. Greece: response after the reduction of external load. *Journal of Environmental Management*. 87 : 497–506
- B24 Kagalou, I., D. Papadimitriou, V. Bakopoulos, and I. Leonardos. 2008. Cyanobacterial toxins in the water of a shallow eutrophic lake (Pamvotis Lake) and in the tissues of an omnivorous fish species (*Carassius gibelio*, Bloch) *Environmental Monitoring and Assessment*: 137:185–195
- B25 Leonardos, I., I. Kagalou, M. Tsoumani and P.S. Economidis 2008. Fish fauna in a Greek lake: biodiversity, introduced fish species over a 80-year period and their impacts on the ecosystem .*Ecology of Freshwater Fish*. 17:165-173.
- B26 Triantafyllidis A., I. Leonardos, I. Mpista , I. D. Kyriazis, M Stoumboudi and T.J. Abatzopoulos. 2007. Phylogeography and genetic structure of Mediterranean killifish *Aphanius fasciatus* (Cyprinodontidae) populations. *Marine Biology* 152:1159–1167
- B27 Öktener A., J.-P. Trilles & I. Leonardos 2007. Some ectoparasites from Turkish fishes. *Turkiye Parazitoloji Dergisi*, 31 (2): 154-157
- B28 Leonardos I., Tsikliras A., Eleftheriou V. Cladas Y., Kagalou, I. Chortatou P.,and Papigiotti O. 2008. Life history characteristics of an invasive cyprinid fish (*Carassius gibelio*) in Chimaditis Lake (northern Greece) *Journal of Applied Ichthyology* 24 (2008), 213–217
- B29 Anastasiadou, Ch. and I. D. Leonardos. 2008. Phenotypic plasticity of *Atyeaphyra desmarestii* (Millet, 1831) under the influence of various lotic and lentic habitats of northwestern Greece . *Journal of Crustacean Biology*. 28 (2) 240-247.
- B30 Liousia, V., R. Liasko, E. Koutrakis and I. D. Leonardos 2008. Intraspecific variation of the growth rate of the sperm dependant parthenogenetic *Carassius gibelio* in Lake Pamvotis (NW Greece) *Journal of Fish Biology* 72: 310–314
- B31 Antonopoulos A., Kagalou I., Michaloudi E., Leonardos I. 2008. Limnological features of a shallow eutrophic lake (Lake Pamvotis, Greece) with emphasis on zooplankton community structure. *Oceanological and Hydrobiological studies*. 37:7-20.
- B32 Leonardos I. 2008. Feeding behavior of *Aphanius fasciatus* in Mesolongi Lagoon. *SCI. MAR.*, 72(2), June 2008, 393-401.
- B33 Kagalou I. and I. Leonardos. 2009. Typology, classification and management issues of Greek lakes : implication of the Water Framework Directive (2000/60/EC). *Environmental Monitor and Assessment* 150 (1-4) 469-484.
- B34 Anastasiadou Ch. Liasko R., and I. D. Leonardos 2009. Biometric analysis of lacustrine and riverine populations of *Palaemonetes antennarius* (H. Milne-Edwards, 1837) (Crustacea, Decapoda, Palaemonidae) from freshwater north-western Greece. *Limnologica*, 39: 244-254

- B35 Leonardos I. D., A. C. Tsikliras, I. Batzakas, A. Ntakos, V. Lioucia 2009. Life-history characteristics of the Aristotle's catfish (*Silurus aristotelis*), an endemic species of western Greece *Journal of Applied Ichthyology* 25: 746-751
- B36 Leonardos I. D. and Tsikliras A. 2011. The use of spines for age determination in Aristotle's catfish (*Silurus aristotelis*) and validation of the method. *Journal of Applied Ichthyology* 27 (1) 53-56
- B37 Papadimitriou D., I. Kagalou, V. Bakopoulos and I. Leonardos 2010. Accumulation of microcystins in water and fish tissues: An estimation of risks associated with microcystins in most of the Greek Lakes. *Environmental Toxicology*.25: (4) 418-427
- B38 Papastergiadou E., Kagalou I., Stefanidis K., Retalis A., Leonardos I. 2010. Effects of Anthropogenic influences on the trophic state, Land uses and aquatic vegetation in a shallow Mediterranean Lake: Implications for restoration. *Water Resources Management* 24:415-435.
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- B40 Anastasiadou Ch. And Leonardos I. 2010. Karyological analysis on freshwater shrimp *Atyaephyra desmarestii* (Millet, 1831) (Decapoda: Natantia: Atyidae). *Journal of Crustacean Biology* 30 (2) 332-335
- B41 Gkenas, Ch., S. Malavasi, V. Georgalas, I. D. Leonardos, P. Torricelli, 2010. The reproductive behavior of *Economidichthys pygmaeus*: secondary loss of sound production within the sand goby group? *Environmental Biology of Fishes* 87: 299-307.
- B42 Liasko, R., V. Lioucia; P. Vrazeli, O. Papiggioti, R. Chortatou, Th. J Abatzopoulos, I. D Leonardos. 2010. Biological traits of rare males in the population of *Carassius gibelio* Bloch, 1782 (Pisces: Cyprinidae) from Lake Pamvotis (NW Greece). *Journal of Fish Biology* 77:570-584
- B43 Liasko R., Koulis A., Pogrebniak A., Papiggioti O., Taranenko L. and Leonardos I. 2011. Influence of environmental parameters on growth pattern, ploidy level and sex ratio of *Carassius gibelio* in Eastern Ukraine. *Hydrobiologia* 658:317-328.
- B44 Ntakos A., Anastasiadou Ch., Liasko R., and I.D. Leonardos 2011. Larval development of the shrimp *Hippolyte sapphica* d'Udekem d'Acoz, 1993 forma A and B (Decapoda: Caridea: Hippolytidae) reared in the laboratory, confirmation of the conspecific status of the two forms. *Zootaxa* 2579: 45–58.
- B45 Papadimitriou Th., E. Armeni , C. D. Stalikas, I. Kagalou and I. D. Leonardos 2011. Detection of microcystins in Pamvotis lake water and assessment of cyanobacterial bloom toxicity. *Environ Monit Assess*. DOI 10.1007/s10661-011-2169-5
- B46 Roman Liasko, Chryssa Anastasiadou, Alexandros Ntakos, Christos Gkenas & Ioannis D. Leonardos. 2012. Morphological differentiation among native trout populations in North-Western Greece. *Journal of Biological Research*. 17: 33 – 43

- B47 Theodoti Papadimitriou, Ifigenia Kagalou, Ioannis D. Leonardos. 2012. Seasonally accumulation of microcystins in the various tissues of an endemic and protected fish species (*Rutilus panosi*) with different sizes. *Clean Soil, Air and Water.* , 40 (4), 402–407 DOI: 10.1002/clen.201000242
- B48 Sapounidis A., Koutrakis E., and I. D. Leonardos. 2011. Length-Weight relationships of 13 species from a flow regulated Balkan River. *Journal of Applied Ichthyology.* 27 (6) 1406-1407.
- B 49. Gkenas Ch. S. Malavasi and I. Leonardos 2012. Feeding ecology of a small size endemic freshwater goby *Economidichthys pygmaeus* (Family: Gobiidae) in Lake Pamvotis, NW Greece. *Journal of Applied Ichthyology.* 28 (1) 75-81. DOI: 10.1111/j.1439-0426.2011.01912.x
- B 50 Gkenas Ch., A. Oikonomou, A., Economou , F. Kiosse and I.D. Leonardos. 2012. Life history pattern and feeding habits of the invasive mosquitofish, *Gambusia holbrooki*, in Lake Pamvotis (NW Greece). *Journal of Biological Research.* 17: 121 – 136.
- B 51 Kagalou I.,Ch. Anastasiadou, I.D. Leonardos and C. Neophytou. 2012. The DPSIR approach for an integrated river management framework. A preliminary application on a Mediterranean site (Kalamas River -NW Greece). *Water Resources Management.* Vol. 26 (6): 1677-1692, DOI: 10.1007/s11269-012-9980-9
- B 52 Liousia V., S. Batziakas, E. Koutrakis and I.D. Leonardos 2012. Length- Weight relationships of 22 fish species from the littoral zone of the Eastern Ionian Sea, Greece. *Acta Ichthyologica et Piscatoria* (in press)
- B 53 Gkenas Ch. & I.D. Leonardos 2012. Life cycle of a small endemic goby *Economidichthys pygmaeus* (Family: Gobiidae) in Lake Pamvotis, NW Greece. *Journal of Applied Ichthyology,* 28 (1) pp. 75-81. doi: 10.1111/j.1439-0426.2012.01952.x
- B 54 Papadimitriou Th.,I. Kagalou,;C. Stalikas, G. Pilidis;I. Leonardos 2012. Assessment of microcystin distribution and biomagnification in tissues of aquatic food web compartments from a shallow lake and evaluation of potential risks to public health. *Ecotoxicology: Vol 21 (4);*, 1155-1166
- B 55 Malavasi S. Ch. Gkenas, I. Leonardos, P. Torriceli and D. McLennan. The phylogeny of a reduced “sand goby” group based on behavioural and life history characters. *Zoological Journal of the Linnean Society* (accepted, in press)
- B 56 Lazaris D., R. Liasko, I. Leonardos*, A. Evangelou & V. Kalfakakou. 2012. Toxic effects of Europium chloride on developing Zebrafish (*Danio rerio*) embryos. Accepted in *Journal of Biological Research.* 18: 291– 296.
- B 57 Tsoumani, M. , A. P. Apostolidis and I. D. Leonardos. 2013. Length-weight relationships of *Rutilus* species from fifteen Greek lakes. *J. Appl. Ichthyol.* 29 : 297–298
- B 58 E. Doulka, G. Kehayias, E. Chalkia and I. D. Leonardos. 2013. Feeding strategies of *Atherina boyeri* (Risso 1810) in a freshwater ecosystem. *J. Appl. Ichthyol.* 29: 200–207

- B 59 Tsoumani, M., A. P. Apostolidis & I. D. Leonardos 2013. Biogeography of *Rutilus* species of the southern Balkan Peninsula as inferred by multivariate analysis of morphological data. *Journal of Zoology* 289 : 204–212
- B60 Orfanidou, T., Ch. Papaefthimiou, E. Antonopoulou, I. Leonardos , and G. Theophilidis . 2013 .The force of the spontaneously contracting zebrafish heart, in the assessment of cardiovascular toxicity: Application on Adriamycin. *Toxicology in vitro*. 27:1440-1444.
- B 61. Cavarro F.,I. Daouti, I. Leonardos, P. Torricelli,and St. Malavasi. 2014. Linking habitat structure to life history strategy: Insights from a Mediterranean killifish. *Journal of Sea Research* 85 (2014) 205–213.
- B 62 Liasko R., Ch. Anastasiadou and I.D. Leonardos 2014. "How a sharp rostral dimorphism affects the life history, population structure and adaptability of a small shrimp: the case study of *Hippolyte sapphica*". *Marine Ecology* (in press)
- B 63 Tsoumani M., A. Georgiadis, I. A. Giantsis, I. Leonardos, A. P. Apostolidis 2014. Phylogenetic relationships of Greek *Rutilus* species inferred from cyt b sequence analysis: micro-geographic resolution and taxonomic implications . *Biochemical Systematics and Ecology* 54, pp. 172-178.
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- B66 Ntakis, A., Liasko, R., Oikonomou, A., Leonardos, I.D Growth pattern of an endemic and endangered West Balkan Peninsula trout species (*Salmo lourosensis*, Delling, 2010) (2015) *Journal of Applied Ichthyology*, 31 (1), pp. 180-183
- B67 Leonardos, I.D. (2015) *Freshwater Fisheries Ecology*, pp. 292-303. DOI: 10.1002/9781118394380.ch25 Document Type: Book Chapter
- B68 Salvarina, I., Koutrakis, E., Leonardos, I. Comparative study of feeding behaviour of five Mugilidae species juveniles from two estuarine systems in the North Aegean Sea (2016) *Journal of the Marine Biological Association of the United Kingdom*, pp. 1-15. Article in Press. DOI:10.1017/S0025315416001211
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- B. 73 Chatzimitakos T., Kasouni A., Sygellou L., Leonardos I., Troganis A., Stalikas C.2018,"Human fingernails as an intriguing precursor for the synthesis of nitrogen and sulfur-doped carbon dots with strong fluorescent properties: Analytical and bioimaging applications "Sensors and Actuators, B: Chemical",267, 494-501
- B. 74. Thacker C.E., Gkenas C., Triantafyllidis A., Malavasi S., Leonardos I.2019,"Phylogeny, systematics and biogeography of the European sand gobies (Gobiiformes: Gobionellidae) "Zoological Journal of the Linnean Society",185, 212-225
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- B 78. Barbieri R., Stoumboudi M., Kalogianni E., Leonardos I.2020,"First report on the spawning migration and early life development of a cyprinid species of the genus Telestes", "Journal of Applied Ichthyology" in press.
- B 79. Bounas A., Keroglidou M., Toli E.-A., Chousidis I., Tsaparis D., Leonardos I., Sotiropoulos K.2020,"Constrained by aliens, shifting landscape, or poor water quality? Factors affecting the persistence of amphibians in an urban pond network", "Aquatic Conservation: Marine and Freshwater Ecosystems",30, 1037-1049
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- B 81. Chousidis I., Stalikas C.D., Leonardos I.D."2020,"Induced toxicity in early-life stage zebrafish (Danio rerio) and its behavioral analysis after exposure to non-doped, nitrogen-doped and nitrogen, sulfur-co doped carbon quantum dots", "Environmental Toxicology and Pharmacology",79. Article number 103426

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