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Research Article

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[Aquaculture and its conservation potential of critically endangered Jipe Tilapia \(*Oreochromis jipe*\) in Lake Jipe](#)

Published On: July 13, 2023 | Pages: 045 - 050

Author(s): Paul S Orina*, Sheban Hinzano, Domitila Kyule, Abwao Jacob, Cecilia M Githukia, Tonny Orina and Mercy Chepkirui
Tilapia jipe (*Oreochromis jipe*) is listed as a critically endangered Cichlidae endemic to fast-shrinking Lake Jipe. Climate change and anthropogenic activities have significantly impacted the lakes' ecology and species' genetic integrity. Four months of Jipe tilapia culture growth performance was conducted in four selected farms within the Chala area, Taveta Sub-County ...

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[Temperature effects on grain growth phenomena and magnetic properties of silicon steels used in marine applications](#)

Published On: June 21, 2023 | Pages: 040 - 044

Author(s): Polyxeni Vourna, Nikolaos D Papadopoulos*, Nikos Stefanakis, Sotirios Xafakis and Evangelos Hristoforou
The present paper investigates the stages of the microstructure and texture evolution in non-oriented electrical silicon steels by means of magnetic measurements and metallographic analysis. The goal of this work was to study temperature effects and their influence on grain growth processes in non-oriented electrical steels while being subjected to different annealing ...

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[Oceans' surface pH-value as an example of a reversible natural response to an anthropogenic perturbation](#)

Published On: June 15, 2023 | Pages: 034 - 039

Author(s): Hans-Rolf Dübal* and Fritz Vahrenholt

The anthropogenic emission of carbon dioxide (CO₂) has influenced the pH values of the oceans' surface. Observations show that for several decades, the surface pH value is declining with a simultaneously rising CO₂ concentration. It is an important question to understand to what extent this process is reversible. Hence, in this study, the atmospheric carbon dioxide (C ...

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[Biomonitoring of aquatic habitat using Apodu Dam in Malete, Moro local government area of Kwara state Nigeria as a case study](#)

Published On: March 21, 2023 | Pages: 006 - 013

Author(s): Akanbi-Gada Mariam Abiola*, Owoleke Veronica Amina, Oluwatobi AS and Abdul-Majeed Oyejimi Oyeleke

Water bodies such as dams are an essential part of the ecosystems and the Apodu dam, a Local Government Area of Kwara State supplies water for the populace of Malete. The water is used for both domestic and agricultural purposes. Given the proposed rural development in the catchment area of the Apodu dam, it becomes imperative therefore to do extensive biomonitoring o ...

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[Disabled industrial traumatic brain injury of members of vessel's crew in water transport of the Northern Water's Basin](#)

Published On: January 19, 2023 | Pages: 001 - 005

Author(s): Shapovalov KA* and Shapovalova PK

Introduction: Epidemiological study of Traumatic Brain Injury (TBI) and the improvement of the organizational capabilities of medical care at all stages of its provision plays an important role in forecasting and social and labor rehabilitation of the sailing crew. Planning the development of the neurosurgical service of port hospitals is impossible without knowing th ...

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Review Article

[Singlet-excited dioxygen O₂\(a¹_g\) and organic pollutants in marine waters beneath the Sun](#)

Published On: May 05, 2023 | Pages: 025 - 033

Author(s): BF Minaev*

The ground state dioxygen has a triplet spin state O₂(X_{3g}). The singlet excited O₂(a_{1g}) dioxygen possesses an excess energy of 22 kcal/mole and is highly reactive with respect to organic matter since all organic molecules have also singlet ground states with all spins paired; their reactions with O₂(a_{1g}) are not forbidden by spin selection. The chromophoric polluta ...

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[Review on the role of women along the aquaculture value chain in Kenya](#)

Published On: April 22, 2023 | Pages: 021 - 024

Author(s): Mercy Chepkirui*, Paul Sagwe Orina, Tonny Orina, Cecilia Githukia, Jared Ochingo and Judith Kemunto Achoki

Aquaculture is perceived as masculine work in most regions despite several years of women's involvement in the sector. Women participate in almost all activities of the aquaculture value chain such as pond construction, sorting of seeds,

fertilization of ponds, making and mending of fishing gears, fish harvesting, processing, value addition, transport, and marketing. ...

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Short Communication

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[Sailing mega-solar rafts for huge renewable energy in the low-latitude Pacific Ocean](#)

Published On: April 04, 2023 | Pages: 017 - 020

Author(s): Takaji Kokusho*

An innovative idea of exploiting huge solar energy in the low-latitude Pacific Ocean using wind-sailing mega-solar rafts is reviewed to emphasize its great potential for human renewable energy resources besides currently promoted offshore wind energy. The basic technologies including energy-transportation are already available but necessary to be developed commercial ...

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Mini Review

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[Orca reproduction in captivity: A review of the science, ethics and welfare concerns](#)

Published On: March 31, 2023 | Pages: 014 - 016

Author(s): Dante McGillian*

Orca whales, also known as killer whales, are highly social and intelligent animals that have captured the public's fascination for decades. However, the use of orca whales in marine parks and aquariums for human entertainment has sparked controversy about their welfare and ethical considerations. Captive breeding programs have been developed for several marine specie ...

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