

JOURNAL OF THE
WORLD AQUACULTURE SOCIETY

Volume 43

August 2012

No. 4

Review Article

- Review of the Application of Garlic, *Allium sativum*, in Aquaculture. Jeong-Yeol Lee and Yang Gao..... 447-458

Research Articles

- Experimental Infection of Four Aquacultured Species with Viral Hemorrhagic Septicemia Virus Type IVb. Geoffrey H. Groocock, Stephen A. Frattini, Emily R. Cornwell, Laura L. Coffee, Gregory A. Wooster, Rodman G. Getchell, and Paul R. Bowser..... 459-476
- Modification in Body Fat Content and Fatty Acid Profile of Wild Yellow Shortfin Eel, *Anguilla australis*, through Short-term Fattening. Jorge A. Hirt-Chabbert and Owen A. Young..... 477-489
- Effect of Varying Protein-to-Energy Ratios on Growth, Nutrient Retention, Somatic Indices, and Digestive Enzyme Activities of Singhi, *Heteropneustes fossilis* (Bloch). Mukhtar A. Khan and Shabi Fatma Abidi..... 490-501
- Economic Impact of Double-Crested Cormorant, *Phalacrocorax auritus*, Depredation on Channel Catfish, *Ictalurus punctatus*, Aquaculture in Mississippi, USA. Brian S. Dorr, Loren W. Burger, Scott C. Barras, and Kristina Casscles Godwin..... 502-513
- Seasonal Fouling Stress on the Farmed Pearl Oyster, *Pinctada fucata*, from Southeastern Arabian Sea. Vasant Kripa, Kollyiyil S. Mohamed, and Tharammal S. Velayudhan..... 514-525
- Approximate Water and Chemical Budgets for an Experimental, In-pond Raceway System. Travis W. Brown, Claude E. Boyd, and Jesse A. Chappell..... 526-537
- Influence of Dietary Glycyrhethinic Acid Combined with Different Levels of Lipid on Growth, Body Composition, and Cortisol of Juvenile Channel Catfish, *Ictalurus punctatus*. Guang-zhen Jiang, Wen-bin Liu, Chun-nuan Zhang, Wei-wei Zhang, and Ying Wang..... 538-547
- Evaluation of Toxicity of Dietary Chelated Copper in Juvenile Olive Flounder, *Paralichthys olivaceus*, Based on Growth and Tissue Copper Concentration. Mahmoud Mohseni, Gun-Hyun Park, Jun-Ho Lee, Okorie Eme Okorie, Craig Browdy, Anant Bharadwaj, and Sungchal C. Bai..... 548-559
- The Use of Farmed Salmon Oil to Replace Anchovy Oil in Diet of Turbot, *Psetta maxima*, Reared in Brackish Water. Hüseyin Sevgili, Adem Kurtoglu, Masahiko Oikawa, Ahmet Mefut, and Rizvan Süyek..... 560-570
- Quantitative and Qualitative Aspects of Bacterial Communities Associated with Cultures of *Chlorella minutissima*. Pavlos Makridis, Tania Ferreira, Fotini Kokou, Costas S. Tsigenopoulos, and Pascal Divanach..... 571-578

Research Notes

- Effects of Hyperoxic Conditions on Growth Performance in Juvenile and Adult Green Sea Urchin, *Strongylocentrotus droebachiensis*. Sten Ivar Siikavuopio..... 579-584
- The Influence of Ovarian Fluid pH of Stripped Unfertilized Channel Catfish, *Ictalurus punctatus*, Eggs on the Hatching Success of Channel Catfish ♀ x Blue Catfish, *Ictalurus furcatus* ♂, Hybrid Catfish Eggs. Nagaraj G. Chatakondi and Eugene L. Torrans..... 585-593