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Titolo	Fish Waste to Valuable Products // edited by Sajid Maqsood, Muhammad Nihal Naseer, Soottawat Benjakul, Asad A. Zaidi
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Descrizione fisica	1 online resource (477 pages)
Collana	Sustainable Materials and Technology, , 2731-0434
Disciplina	910.5
Soggetti	Proteins Biomaterials Green chemistry Refuse and refuse disposal Biomaterials-Proteins Green Chemistry Waste Management/Waste Technology
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Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Fish waste composition and classification -- Application of emerging technologies for processing of fish waste and by-products -- Emerging non-thermal technologies for the processing of fish waste and byproducts -- Role of nanotechnology in fish waste and by-product utilization -- Strategies to recover Protein and Lipids from fish processing By-products -- Collagen and Gelatin from fish processing by-products -- Production of antidiabetic peptides from fish waste -- Enzymes from Fish Processing Waste Materials and Their Commercial Applications -- Omega-3 enriched fish oils: Extraction, preservation and health-benefits -- Fish waste and by-product as a source of calcium -- Chitin, Chitosan, and Their Derivatives from fish waste and processing by-products -- Biomedical applications of Chitin, Chitosan, their derivatives and processing by-products from fish waste -- Utilization of fish waste and by-products for fish meal production as a potential feed ingredient -- Fish waste as a potential feed ingredient for fish meal production -- Fish wastes as source of Fertilizers and manures -- Using fish waste and by-products for manufacturing

organic fertilizer and manures -- Quintessential utilisation of non-edible aquatic bio-waste: In pursuit of a paradigm shift towards wealth (from waste) in aquaculture -- Thermal behavior and physicochemical properties of fish scales to generate value-added products -- Potential of Fish Waste for the Production of Sustainable Biogas And Biodiesel -- Fish Waste: Understanding the Pollution Potential and Sustainable Mitigation Strategies -- Strategies to reduce/manage fish waste -- Fish waste and by-product utilization: A circular economy.

Sommario/riassunto

This book provides a comprehensive overview of recent developments to valorize fish waste as a source of useful products. In the first few chapters, an introductory section unearths global fish waste production, its detrimental effects and its role in the circular economy. The next section of the book discusses recent applications of fish waste and by-products utilization for the production of useful products such as fertilizers, biogas, biodiesel, fish sauce, enzymes and many more. This book will serve as an important source of recent research developments and applications of fish waste generated at different stages of fish processing. This book will also act as an important reference to the research group conducting research on fish and fish by-product utilization and valorization. .
