

1. Record Nr.	UNINA9910768466703321
Titolo	Technology for Environmentally Friendly Livestock Production / / edited by Thomas Bartzanas
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	3-031-19730-5
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (VIII, 308 p. 1 illus.)
Collana	Smart Animal Production, , 2731-7390
Disciplina	016.016 338.1
Soggetti	Veterinary medicine Agriculture Ecology Environmental management Physiology Veterinary Science Environmental Management Animal Physiology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Sommario/riassunto	This volume compiles state-of-the-art scientific knowledge on the technologies that are used to quantify and reduce the environmental impact of livestock production in the cattle, pig and poultry industries. It makes a serious statement about how such technology can contribute to the sustainability of the livestock industry in the future. As the global livestock sector is growing, modern farm animal production is increasingly regarded as a source of solid, liquid, gaseous and dust emissions, which can be both nuisance and environmentally harmful. In light of hardening regulations and social pressure, there is increasing interest in scientific research on air pollution and emissions from livestock operations. The present chapters focus on methodology improvement, harmonization of measurements, and modeling aspects.

Key aspects, such as renewable energy sources, nutritional approaches to reduce enteric methane emissions, technical options for manure management, and the use of sensors, are covered. By sharing good practices, this book is a valuable reference for a diverse readership. Experts across the veterinary and animal sciences, agricultural engineering, the food industry and sustainability research will benefit from the findings.
