

1.	Record Nr.	UNISALENTO991002661999707536
	Titolo	Journal of organic chemistry. - 1936-
	Pubbl/distr/stampa	Washington, 1936-
	ISSN	0022-3263
	Altri autori (Enti)	American Chemical Society
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Periodico
2.	Record Nr.	UNINA9910483973303321
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	Titolo	Environmental Data Analysis : An Introduction with Examples in R / / by Carsten Dormann
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
	ISBN	3-030-55020-6
	Edizione	[1st ed. 2020.]
	Descrizione fisica	1 online resource (XIX, 264 p. 136 illus., 27 illus. in color.)
	Disciplina	363.70072
	Soggetti	Biometry Ecology Statistics Bioinformatics Forests and forestry Biostatistics Statistical Theory and Methods Forestry
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia

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## Sommario/riassunto

Environmental Data Analysis is an introductory statistics textbook for environmental science. It covers descriptive, inferential and predictive statistics, centred on the Generalized Linear Model. The key idea behind this book is to approach statistical analyses from the perspective of maximum likelihood, essentially treating most analyses as (multiple) regression problems. The reader will be introduced to statistical distributions early on, and will learn to deploy models suitable for the data at hand, which in environmental science are often not normally distributed. To make the initially steep learning curve more manageable, each statistical chapter is followed by a walk-through in a corresponding R-based how-to chapter, which reviews the theory and applies it to environmental data. In this way, a coherent and expandable foundation in parametric statistics is laid, which can be expanded in advanced courses. The content has been “field-tested” in several years of courses on statistics for Environmental Science, Geography and Forestry taught at the University of Freiburg. .

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