

1.	Record Nr.	UNICAMPANIASUN0098172
	Autore	Zilli, Ilaria
	Titolo	Le forme dell'acqua : territorio e risorse nel Molise fra età moderna e contemporanea / Ilaria Zilli
	Pubbl/distr/stampa	Campobasso : Università degli studi del Molise, 2003
	Descrizione fisica	142 p. ; 24 cm.
	Disciplina	333.91
	Soggetti	Acque - Utilizzazione - Molise - Sec. 18.-20
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	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNINA9910616396403321
	Autore	Jost Jurgen
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	Soggetti	Chemistry - History Chemometrics Philosophy Chemistry Chemistry - Data processing Mathematics History of Chemistry Mathematical Applications in Chemistry Philosophy of Chemistry Computational Chemistry Applications of Mathematics

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Part I Chemical knowledge as a complex dynamical system. Introduction -- Modelling the evolution of chemical knowledge -- Evolution of the constitutive systems of chemical knowledge -- Interactions between systems, their differences and environments -- Part II Data and mathematical and computational formalisms for the analysis of chemical knowledge. Data -- Methods -- Conclusions and outlook -- References -- Index.
Sommario/riassunto	Chemistry shapes and creates the disposition of the world's resources and provides novel substances for the welfare and hazard of our civilisation at an exponential rate. Can we model the evolution of chemical knowledge? This book not only provides a positive answer to the question, it provides the formal models and available data to model chemical knowledge as a complex dynamical system based on the mutual interaction of the social, semiotic and material systems of chemistry. These systems, which have evolved over the history, include the scientists and institutions supporting chemical knowledge (social system); theories, concepts and forms of communication (semiotic system) and the substances, reactions and technologies (material system) central for the chemical practice. These three systems, which have traditionally been mostly studied in isolation, are brought together in this book in a grand historical narrative, on the basis of comprehensive data sets and supplemented by appropriate tools for their formal analysis. We thereby develop a comprehensive picture of the evolution of chemistry, needed for better understanding the past, present and future of chemistry as a discipline. The interdisciplinary character of this book and its non-technical language make it an ideal complement to more traditional material in undergraduate and graduate courses in chemistry, history of science and digital humanities. About the Authors Guillermo Restrepo is a theoretical chemist, historian of science and data scientist, working at the Max Planck Institute for Mathematics in the Sciences in Leipzig. He is an expert on the mathematical and computational analysis of large scale chemical data sets and the 2020 recipient of the Gmelin–Beilstein-Denk Münze of the German Chemical Society. Jürgen Jost is a mathematician, interdisciplinary researcher on complex systems and a recipient of the Gottfried-Wilhelm-Leibniz Award of the DFG and of an ERC Advanced Grant. His research spans a wide range of scientific disciplines. He is a director at the Max Planck Institute for Mathematics in the Sciences and is an external member of the Santa Fe Institute.