

1. Record Nr.	UNISANNIOBVEE057827
Autore	Vinnen, Arnold
Titolo	Arnoldi Vinnii jc. Jurisprudentiae contractae, sive partitionum juris civilis libri quattuor, variis observationibus Ad usum forensem accommodatis illustrati
Pubbl/distr/stampa	Venetiis : ex Typographia Balleoniana, 1736
Edizione	[Editio novissima, ab erroribus qui in praecedentibus irrepserant, diligenter expurgata]
Descrizione fisica	xx, 515, [1] p. ; 4o
Collocazione	24F. ANTICO 11.D 4 BUSALA VITI 207 014
Lingua di pubblicazione	Latino
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Fregio xil. sul front. stampato in rosso e nero Testo su due colonne Cors. ; rom Segn.: 10 A-2H, 21°(210v bianca) Iniziali xil.

2. Record Nr.	UNINA9910741200403321
Autore	Mikhailov Alexander S
Titolo	Chemical Complexity : Self-Organization Processes in Molecular Systems / / by Alexander S. Mikhailov, Gerhard Ertl
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-57377-2
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (209 pages)
Collana	The Frontiers Collection, , 1612-3018
Disciplina	547.2
Soggetti	Chemistry, Physical and theoretical Statistical physics Computational complexity Systems biology Biological systems Materials—Surfaces Thin films Physical Chemistry Applications of Nonlinear Dynamics and Chaos Theory Complexity Systems Biology Surfaces and Interfaces, Thin Films
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Self-organization vs. self-assembly -- Thermodynamics of open systems -- The Turing instability -- Waves in the heart -- The Belousov-Zhabotinsky reaction -- Surface catalysis -- Corrosion of steels -- Nonequilibrium soft matter -- Phase transitions in reactive systems -- Self-organization in biological cells -- Protein machines and molecular motors -- Active propulsion on microscales -- Oscillators and synchronization phenomena -- Chemical chaos -- Network problems -- Design and control of self-organizing systems -- Open problems and application perspectives.
Sommario/riassunto	This book provides an outline of theoretical concepts and their

experimental verification in studies of self-organization phenomena in chemical systems, as they emerged in the mid-20th century and have evolved since. Presenting essays on selected topics, it was prepared by authors who have made profound contributions to the field.

Traditionally, physical chemistry has been concerned with interactions between atoms and molecules that produce a variety of equilibrium structures - or the 'dead' order - in a stationary state. But biological cells exhibit a different 'living' kind of order, prompting E. Schrödinger to pose his famous question "What is life?" in 1943. Through an unprecedented theoretical and experimental development, it was later revealed that biological self-organization phenomena are in complete agreement with the laws of physics, once they are applied to a special class of thermodynamically open systems and non-equilibrium states. This knowledge has in turn led to the design and synthesis of simple inorganic systems capable of self-organization effects. These artificial 'living organisms' are able to operate on macroscopic to microscopic scales, even down to single-molecule machines. In the future, such research could provide a basis for a technological breakthrough, comparable in its impact with the invention of lasers and semiconductors. Its results can be used to control natural chemical processes, and to design artificial complex chemical processes with various functionalities. The book offers an extensive discussion of the history of research on complex chemical systems and its future prospects. Gerhard Ertl received the Nobel Prize in Chemistry in 2007 for his studies on heterogeneous catalysis and self-organization processes in surface chemical reactions. He was the director of the Physical Chemistry department at the Fritz Haber Institute of the Max Planck Society in Berlin, where he is currently a Professor Emeritus. Prof. Alexander S. Mikhailov, of the same institute, is a theoretical physicist who has been working with G. Ertl for more than twenty years. He is the author of three monographs published by Springer and was awarded the International Solvay Chair in Chemistry in 2009. Together, the authors initiated and organized a series of international conferences on "Engineering of Chemical Complexity".

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