

1. Record Nr.	UNINA9910283143003321
Autore	Lambert, Malcolmr
Titolo	Crociata e jihad : origini, storia, conseguenze / Malcolm Lambert ; traduzione di Massimo Scorsone
Pubbl/distr/stampa	Torino, : Bollati Boringhieri, 2017
ISBN	978-88-339-2846-3
Descrizione fisica	462 p. : ill. ; 24 cm
Collana	Saggi. Storia
Disciplina	909.07 303.625
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Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr.	UNINA9910300390903321
Autore	Thutupalli Shashi
Titolo	Towards Autonomous Soft Matter Systems : Experiments on Membranes and Active Emulsions // by Shashi Thutupalli
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
ISBN	3-319-00735-1
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (141 p.)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5053
Disciplina	530
Soggetti	Amorphous substances Complex fluids Chemistry, Physical and theoretical Biophysics Surfaces (Technology) Thin films Statistical physics Dynamics Soft and Granular Matter, Complex Fluids and Microfluidics Physical Chemistry Biological and Medical Physics, Biophysics Surfaces and Interfaces, Thin Films Complex Systems Statistical Physics and Dynamical Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Membranes -- Microfluidic membrane networks -- Electrostatic interactions in membrane fusion -- Phase contrast X-ray imaging of lipid membranes -- Oscillating droplets: Chemical micro-oscillators -- Swimming droplets: Artificial squirmers -- Interacting droplets: Collective dynamics -- Conclusions and Outlook -- Appendices -- Materials and Methods -- Hydrodynamic flow fields with axial symmetry.

Sommario/riassunto

This book focuses on the assembly, organization and resultant collective dynamics of soft matter systems maintained away from equilibrium by an energy flux. Living matter is the ultimate example of such systems, which are comprised of different constituents on very different scales (ions, nucleic acids, proteins, cells). The result of their diverse interactions, maintained using the energy from physiological processes, is a fantastically well-organized and dynamic whole. This work describes results from minimal, biomimetic systems and primarily investigates membranes and active emulsions, as well as key aspects of both soft matter and non-equilibrium phenomena. It is shown that these minimal reconstitutions are already capable of a range of complex behaviour such as nonlinear electric responses, chemical communication and locomotion. These studies will bring us closer to a fundamental understanding of complex systems by reconstituting key aspects of their form and function in simple model systems. Further, they may also serve as the first technological steps towards artificial soft functional matter.
