1. Record Nr. UNINA9910349510403321

Titolo	Modern Problems of the Physics of Liquid Systems : Selected Reviews from the 8th International Conference “Physics of Liquid Matter: Modern Problems”, Kyiv, Ukraine, May 18-22, 2018 / / edited by Leonid A. Bulavin, Limei Xu
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-21755-8
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XII, 328 p. 149 illus., 100 illus. in color.)
Collana	Springer Proceedings in Physics, , 1867-4941 ; ; 223
Disciplina	530.41 530.42
Soggetti	Soft condensed matter Water Hydrology Physical chemistry Fluid mechanics Soft and Granular Matter Physical Chemistry Engineering Fluid Dynamics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	A Two-State Picture of Water and the Funnel of Life -- Current problems in the quasi-elastic incoherent neutron scattering and the collective drift of molecules -- Microscopic study of solid/fluid interface with Molecular Dynamics -- Oligomeric and Polymeric Ionic Liquids: Engineering Architecture and Morphology -- Vibrational spectroscopy applied to solution and metal/solution interface chemistry studies -- Organization of Nano-disks of Laponite® in Soft Colloidal Systems -- The techniques of surface alignment of liquid crystals -- Small-Angle Scattering in Structural Research of Nanodiamond Dispersions -- Electron structure and optical properties of conjugated systems in solutions -- Kinetics of cluster growth in fullerene solutions of different polarity -- Interactions of Heavy Ions

	with DNA and Radiative Aspects in Physics of Liquid Matter -- Radiative Aspects in Physics of Liquid Matter: Stable Magnetic Isotopes as New Trend in Anti-Radiation Defense -- On the mechanism of the radiation influence upon the structure and thermodynamic properties of water.
Sommario/riassunto	This book presents a collection of selected reviews from PLMMP 2018 that address modern problems in the fields of liquids, solutions and confined systems, critical phenomena, as well as colloidal and biological systems. The papers focus on state-of-the-art developments in the contemporary physics of liquid matter, and are divided into four parts: (i) water and water systems, (ii) physical–chemical properties of liquid systems, (iii) aggregation in liquid systems, and (iv) biological aspects of liquid systems, irradiation influences on liquid systems. Taken together, they cover the latest developments in the broader field of liquid states, including interdisciplinary problems. .