

1. Record Nr.	UNINA9910830706203321
Autore	Wang Shi-Qing
Titolo	Nonlinear polymer rheology : macroscopic phenomenology and molecular foundation / / Shi-Qing Wang, University of Akron, Ohio, US
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley, , 2018 ©2018
ISBN	1-5231-4396-7 1-119-02904-X 1-119-02905-8 1-119-02903-1
Descrizione fisica	1 online resource (468 pages) : illustrations (some color)
Disciplina	541.2254
Soggetti	Polymers - Rheology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.

2. Record Nr.	UNINA9910634082703321
Autore	Brüderlin Florian
Titolo	Advanced Elastocaloric Cooling Devices Based on Shape Memory Alloy Films
Pubbl/distr/stampa	Karlsruhe, : KIT Scientific Publishing, 2022
ISBN	1000125495
Descrizione fisica	1 online resource (292 p.)
Collana	Schriften des Instituts für Mikrostrukturtechnik am Karlsruher Institut für Technologie
Soggetti	Mechanical engineering and materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Elastocaloric cooling is an emerging solid-state cooling technology with the potential to provide environmentally friendly, efficient cooling. The elastocaloric effect in superelastic shape memory alloy films is used to develop advanced cooling devices for small-scale applications. Cascaded and parallelized devices are developed to increase device temperature span and cooling capacity. The concepts are proven experimentally, a maximum temperature span of 27° C is achieved in a cascaded device.