

1. Record Nr.	UNINA9910483724703321
Titolo	Thin film and flexible thermoelectric generators, devices and sensors / / Sergey Skipidarov, Mikhail Nikitin, editors
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2021] ©2021
ISBN	3-030-45862-8
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (VI, 310 p. 173 illus., 150 illus. in color.)
Disciplina	621.31243
Soggetti	Thermoelectric generators
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Novel thin film and multilayer thermoelectric materials -- Simulation of phenomena related to thermoelectricity -- Thermoelectric thin film and multilayer materials manufacturing technologies -- Measurement techniques for Characterization thin film and multilayer materials and devices -- Thermoelectric generators simulation, modeling, and design -- Thermal and mechanical degradation problems in prospective thin film and multilayer thermoelectric materials and TEG modules.
Sommario/riassunto	This book presents and facilitates new research and development results with hot topics in the thermoelectric generators (TEGs) field. Topics include: novel thin film; multilayer, composite and nanostructured thermoelectric materials; simulation of phenomena related to thermoelectricity; thermoelectric thin film and multilayer materials manufacturing technologies; measurement techniques for characterization; thermoelectric generators; and the simulation, modeling, design, thermal, and mechanical degradation problems. This book helps researchers tackle the challenges that still remain in creating cheap and effective TEGs and presents the latest trends and technologies in development and production of advanced thermoelectric generation devices. Provides a concentration of new research and development in the field of thermoelectric energy generation; Facilitates the interchange of new ideas and results to react effectively to the challenges of thermoelectric generators; Explains both the advancements and challenges in TEGs.

