

1. Record Nr.	UNINA9910869167403321
Autore	Zang Zhigang
Titolo	Inorganic Perovskite Materials and Devices / / by Zhigang Zang, Shuangyi Zhao, Wensi Cai, Huixin Wang
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	9789819713479 9819713471
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (297 pages)
Collana	Springer Series in Materials Science, , 2196-2812 ; ; 343
Altri autori (Persone)	ZhaoShuangyi CaiWensi WangHuixin
Disciplina	620.198
Soggetti	Perovskite (Mineral) Optoelectronic devices Solid state physics Materials Photonics Perovskites Optoelectronic Devices Electronic Devices Photonic Devices
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Properties of Inorganic Perovskites -- Preparation of inorganic perovskites -- Inorganic perovskite lighting and visible light communications -- Inorganic Perovskite Semiconductors Laser -- Inorganic Perovskite Solar Cells -- Inorganic perovskite photodetectors -- Inorganic perovskite high-energy radiation detectors -- Inorganic perovskite electronic devices.
Sommario/riassunto	This book describes in detail the reported synthesis methods of inorganic perovskite semiconductors, including nanocrystal, films, and single crystals. Then, the promising properties of inorganic perovskite semiconductors, such as high luminescent efficiencies, strong absorption, and excellent stability, are discussed and summarized.

Owing to the attracted performance of inorganic perovskite semiconductors above, their potential applications in solid-state lighting and visible light communication, laser devices, solar cells, detectors, as well as electronic devices, are reviewed in this book. Apart from the conventional inorganic lead halide perovskites, lead-free metal halide perovskites are described and discussed. Finally, it also covers the recent challenges and perspectives of the inorganic perovskite semiconductors. This book is intended for undergraduate and graduate students who are interested in inorganic perovskites, researchers investigating novel inorganic perovskite, and engineers who working on the optimization of inorganic-perovskite-based devices.

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