

1. Record Nr.	UNINA9910350324703321
Titolo	Two Dimensional Transition Metal Dichalcogenides : Synthesis, Properties, and Applications // edited by Narayanasamy Sabari Arul, Vellalapalayam Devaraj Nithya
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2019
ISBN	981-13-9045-2
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XI, 355 p. 189 illus., 165 illus. in color.)
Disciplina	620.11295 620.11297
Soggetti	Optical materials Electronic materials Semiconductors Electronic circuits Optical and Electronic Materials Circuits and Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: Introduction to Transition metal dichalcogenides -- Chapter 2: Transition metal dichalcogenides: An Overview -- Chapter 3: Preparation methods of transition metal dichalcogenides -- Chapter 4: Properties of transition metal dichalcogenides -- Chapter 5: Simulation of transition metal dichalcogenides -- Chapter 6: Transition metal dichalcogenides for energy storage application -- Chapter 7: Transition metal dichalcogenides in photovoltaics -- Chapter 8: Transition metal dichalcogenides in Electrocatalysis -- Chapter 9: Transition metal dichalcogenides in Sensors -- Chapter 10: Electronic devices based on transition metal dichalcogenides -- Chapter 11: Transition metal dichalcogenides in Photocatalysts -- Chapter 12: Transition metal dichalcogenides in biomedical applications -- Chapter 13: Future Challenges of the Transition metal dichalcogenides.
Sommario/riassunto	This book presents advanced synthesis techniques adopted to fabricate two-dimensional (2D) transition metal dichalcogenides (TMDs) materials with its enhanced properties towards their utilization in

various applications such as, energy storage devices, photovoltaics, electrocatalysis, electronic devices, photocatalysts, sensing and biomedical applications. It provides detailed coverage on everything from the synthesis and properties to the applications and future prospects of research in 2D TMD nanomaterials. .
