

1. Record Nr.	UNINA9910688587803321
Titolo	2D Materials / / edited by Chatchawal Wongchoosuk, Yotsarayuth Seekaew
Pubbl/distr/stampa	London, England : , : IntechOpen, , 2019
Descrizione fisica	1 online resource (92 pages)
Disciplina	620.115
Soggetti	Nanostructured materials Nanocomposites (Materials)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>Two-dimensional (2D) materials have attracted a great deal of attention in recent years due to their potential applications in gas/chemical sensors, healthcare monitoring, biomedicine, electronic skin, wearable sensing technology and advanced electronic devices. Graphene is one of today's most popular 2D nanomaterials alongside boron nitrides, molybdenum disulfide, black phosphorus and metal oxide nanosheets, all of which open up new opportunities for future devices. This book provides insights into models and theoretical backgrounds, important properties, characterizations and applications of 2D materials, including graphene, silicon nitride, aluminum nitride, ZnO thin film, phosphorene and molybdenum disulfide.</p>