1. Record Nr. UNINA9910716873103321

Autore	Rollins Matthew G (Matthew Gregory)
Titolo	Research and Development Wildland Fire and Fuels accomplishments and outcomes / / Matthew Rollins [and three others]
Pubbl/distr/stampa	[Washington, D.C.] : , : United States Department of Agriculture, Forest Service, , 2017
Descrizione fisica	1 onine resource (iv, 52 pages) : illustrations, map
Soggetti	Fire management - United States Wildfires - United States - Prevention Fire ecology - United States Forest fires - Research - United States Fire prevention - Research - United States Wildfires Wildland fire management Fuels (fire ecology) Research and development Fire behavior Emissions Fire ecology Fire management Wildfires - Prevention and control United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Forest Service, Research and Development." "May 2017." "FS-1086."
Nota di bibliografia	Includes bibliographical references (pages 31-43).

2. Record Nr. UNINA9910373948703321

Autore	Li Linfei
Titolo	Fabrication and Physical Properties of Novel Two-dimensional Crystal Materials Beyond Graphene: Germanene, Hafnene and PtSe2 / / by Linfei Li
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2020
ISBN	981-15-1963-3
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XV, 58 p.)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5053
Disciplina	620.5
Soggetti	Surfaces (Physics) Interfaces (Physical sciences) Thin films Materials—Surfaces Nanoscience Nanostructures Spectrum analysis Microscopy Materials science Surface and Interface Science, Thin Films Surfaces and Interfaces, Thin Films Nanoscale Science and Technology Spectroscopy and Microscopy Characterization and Evaluation of Materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Doctoral thesis accepted by Institute of Physics, Chinese Academy of Sciences, Beijing, China."
Nota di contenuto	Introduction -- Germanene on Pt(111) -- Hafnene on Ir(111) -- Monolayer PtSe2 -- Summary and Outlook.
Sommario/riassunto	This thesis reports on essential experimental work in the field of novel two-dimensional (2D) atomic crystals beyond graphene. It especially describes three new 2D crystal materials, namely germanene, hafnene, and monolayer PtSe2 fabricated experimentally for the first time, using

an ultra-high vacuum molecular beam epitaxy (UHV-MBE) system. Multiple characterization techniques, including scanning tunneling microscope (STM), low energy electron diffraction (LEED), scanning transmission electron microscope (STEM), and angle-resolved photoemission spectroscopy (ARPES), combined with theoretical studies reveal the materials' atomic and electronic structures, which allows the author to further investigate their physical properties and potential applications. In addition, a new epitaxial growth method for transition metal dichalcogenides involving direct selenization of metal supports is developed. These studies represent a significant step forward in expanding the family of 2D crystal materials and exploring their application potentials in future nanotechnology and related areas.