1. Record Nr. UNINA9910712835503321

Autore	Odion Dennis C.
Titolo	Invasive species early detection monitoring protocol for Klamath Network parks / / Dennis C. Odion [and three others]
Pubbl/distr/stampa	Fort Collins, Colorado : , : U.S. Department of the Interior, National Park Service, Natural Resource Program Center, , 2010
Descrizione fisica	1 online resource (ix, 183 pages) : color illustrations
Collana	Natural resource report ; ; NPS/KLMN/NRR--2010/227
Soggetti	Introduced organisms - Oregon Introduced organisms - California, Northern National parks and reserves - Oregon National parks and reserves - California, Northern
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"NPS 963/105042, July 2010"--Page ii. "Experience your America"--Page 4 of cover.
Nota di bibliografia	Includes bibliographical references (pages 130-131).

2. Record Nr. UNINA9910437804303321

Autore	Logsdail Andrew James
Titolo	Computational characterisation of gold nanocluster structures / / Andrew James Logsdail
Pubbl/distr/stampa	Cham [Switzerland] : , : Springer, , 2013
ISBN	3-319-01493-5
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (xvi, 209 pages) : illustrations (some color)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5053
Disciplina	541.2
Soggetti	Gold alloys - Structure Chemistry - Mathematics Nanoparticles
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"ISSN: 2190-5053."
Nota di bibliografia	Includes bibliographical reference.
Nota di contenuto	From the Contents: Calculating the Structural Preference of High Symmetry Clusters for PdN, AuN, and (PdAu)N -- Method Development for comparing Scanning Transmission Electron Microscope Images to Theoretical Structures -- A First-Principles Study of the Soft-landing of Au16 on Graphite.
Sommario/riassunto	In this thesis, Andrew Logsdail demonstrates that computational chemistry is a powerful tool in contemporary nanoscience, complementing experimental observations and helping guide future experiments. The aim of this particular PhD is to further our understanding of structural and compositional preferences in gold nanoparticles, as well as the compositional and chemical ordering preferences in bimetallic nanoalloys formed with other noble metals, such as palladium and platinum. Highlights include: calculations of the structural preferences and optical-response of gold nanoparticles and gold-containing nanoalloys; the design and implementation of novel numerical algorithms for the structural characterisation of gold nanoparticles from electron microscopy images; and electronic structure calculations investigating the interaction of gold nanoparticles with graphene and graphite substrates.The results presented here have significant implications for future research on the chemical and physical properties of gold-based nanoparticles and are

of interest to many researchers working on experimental and theoretical aspects of nanoscience.