

1. Record Nr.	UNINA9910317809503321
Autore	Alan D. Bristow
Titolo	Noble and precious metals : properties, nanoscale effects and applications // edited by Mohindar Seehra and Alan Bristow
Pubbl/distr/stampa	IntechOpen, 2018 London, England : , : IntechOpen, , [2018] ©2018
ISBN	1-83881-377-2 1-78923-293-7
Edizione	[1st ed.]
Descrizione fisica	1 online resource (430 pages) : illustrations
Disciplina	332.63
Soggetti	Precious metals
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Sommario/riassunto	The use of copper, silver, gold and platinum in jewelry as a measure of wealth is well known. This book contains 19 chapters written by international authors on other uses and applications of noble and precious metals (copper, silver, gold, platinum, palladium, iridium, osmium, rhodium, ruthenium, and rhenium). The topics covered include surface-enhanced Raman scattering, quantum dots, synthesis and properties of nanostructures, and its applications in the diverse fields such as high-tech engineering, nanotechnology, catalysis, and biomedical applications. The basis for these applications is their high-free electron concentrations combined with high-temperature stability and corrosion resistance and methods developed for synthesizing nanostructures. Recent developments in all these areas with up-to-date references are emphasized.