1. Record Nr. UNICASMIL0623454

Autore	Iuvenalis, Decimus Iunius
Titolo	D. Iunii Iuvenalis Saturae 13. / edited with introduction and notes by C. H. Pearson and Herbert A. Strong
Pubbl/distr/stampa	Oxford, : Clarendon press
Titolo uniforme	Satirae
Descrizione fisica	v. ; 20 cm.
Collana	Clarendon press series
Disciplina	877.01
Soggetti	Giovenale, Decimo Giunio . Satirae - Commenti
Lingua di pubblicazione	Inglese Latino
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910337869003321

Autore	Oliveira Leiva Casemiro
Titolo	Surface Plasmon Resonance Sensors : A Materials Guide to Design, Characterization, Optimization, and Usage / / by Leiva Casemiro Oliveira, Antonio Marcus Nogueira Lima, Carsten Thirstrup, Helmut Franz Neff
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-17486-7
Edizione	[2nd ed. 2019.]
Descrizione fisica	1 online resource (XIV, 326 p. 406 illus., 233 illus. in color.)
Collana	Springer Series in Surface Sciences, , 0931-5195 ; ; 70
Disciplina	530.417 530.44
Soggetti	Surfaces (Physics) Interfaces (Physical sciences) Thin films Optical materials Electronics - Materials Lasers Photonics Surfaces (Technology) Surface and Interface Science, Thin Films Optical and Electronic Materials Optics, Lasers, Photonics, Optical Devices Surfaces and Interfaces, Thin Films
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction and background information -- Physical features of the surface plasmon polariton -- Design features of surface plasmon resonance sensors -- Modeling and data processing -- SPR-sensor properties of metal films and particles: free electron type metals -- Classical noble metals -- Noble transition metals of the platinum group -- Common transition metals -- Other common metals -- SPR active metal-type compounds -- Heavy metals -- Artificial metal-insulator

multi-layer structures -- Practical Applications -- Conclusions.

Sommario/riassunto

This significantly extended second edition addresses the important physical phenomenon of Surface Plasmon Resonance (SPR) or Surface Plasmon Polaritons (SPP) in thin metal films, a phenomenon which is exploited in the design of a large variety of physico-chemical optical sensors. In this treatment, crucial materials aspects for design and optimization of SPR sensors are investigated and described in detail. The text covers a selection of nanometer thin metal films, ranging from free-electron to the platinum-type conductors, along with their combination with a large variety of dielectric substrate materials, and associated individual layer and opto-geometric arrangements. Whereas the first edition treated solely the metal-liquid interface, the SP-resonance conditions considered here are expanded to cover the metal-gas interface in the angular and wavelength interrogation modes, localized and long-range SP's and the influence of native oxidic ad-layers in the case of non-noble metals. Furthermore, a selection of metal grating structures that allow SP excitation is presented, as are features of radiative SP's. Finally, this treatise includes as-yet hardly explored SPR features of selected metal–metal and metal–dielectric superlattices. An in-depth multilayer Fresnel evaluation provides the mathematical tool for this optical analysis, which otherwise relies solely on experimentally determined electro-optical materials parameters.