

1. Record Nr.	UNISA996393319703316
Autore	Vicars John <1579 or 80-1652.>
Titolo	Speculum scripturale schismaticorum [[electronic resource]] : or, A scripture looking--glasse, most exactly characterizing all sorts of schismatics: wherein, as, in a looking-glass, face answers face; so, scriptures paint seducers root and race: And, that they are the seedmen of all evil; and, must be shun'd, as serpents, or the Devil
Pubbl/distr/stampa	London, : Printed for T.M., 1649
Descrizione fisica	1 sheet ([1] p.)
Soggetti	Christian sects - England Schism
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Signed at end: John Vicars. The words "As, in a ... root and race:" and "And, that they ... or the Devil." are gathered in braces on the title page. Annotation on Thomason copy: "Aug: 8". Reproduction of the originals in the British Library.
Sommario/riassunto	eebo-0018

2. Record Nr.	UNINA9910438113003321
Autore	Li Tongcang
Titolo	Fundamental tests of physics with optically trapped microspheres / / Tongcang Li
Pubbl/distr/stampa	New York, : Springer, c2013
ISBN	1-283-91005-5 1-4614-6031-X
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (134 p.)
Collana	Springer theses
Disciplina	530.475
Soggetti	Microphysics Optical tweezers
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Physical Principle of Optical Tweezers -- Optical Trapping of Glass Microspheres in Air and Vacuum -- Measuring the Instantaneous Velocity of a Brownian Particle in Air -- Towards Measurement of the Instantaneous Velocity of a Brownian Particle in Water -- Millikelvin Cooling of an Optically Trapped Microsphere in Vacuum -- Towards Quantum Ground-State Cooling -- Appendix.
Sommario/riassunto	Fundamental Tests of Physics with Optically Trapped Microspheres details experiments on studying the Brownian motion of an optically trapped microsphere with ultrahigh resolution and the cooling of its motion towards the quantum ground state. Glass microspheres were trapped in water, air, and vacuum with optical tweezers; and a detection system that can monitor the position of a trapped microsphere with Angstrom spatial resolution and microsecond temporal resolution was developed to study the Brownian motion of a trapped microsphere in air over a wide range of pressures. The instantaneous velocity of a Brownian particle, in particular, was measured for the very first time, and the results provide direct verification of the Maxwell-Boltzmann velocity distribution and the energy equipartition theorem for a Brownian particle. For short time scales, the ballistic regime of Brownian motion is observed, in contrast to the usual diffusive regime. In vacuum, active feedback is used to cool the center-of-mass motion of an optically trapped microsphere

from room temperature to a minimum temperature of about 1.5 mK.
This is an important step toward studying the quantum behaviors of a
macroscopic particle trapped in vacuum.
