

1. Record Nr.	UNINA9911006575503321
Autore	Berthier Jean <1952->
Titolo	Microdrops and digital microfluidics / / Jean Berthier
Pubbl/distr/stampa	Norwich, NY, : William Andrew Pub., c2008
ISBN	9780080947396 0080947395 9780815518358 0815518358 9781282169807 1282169807
Edizione	[1st edition]
Descrizione fisica	1 online resource (463 p.)
Collana	Micro & nano technologies
Disciplina	629.8/042
Soggetti	Atomizers Microfluidics - Equipment and supplies Spraying - Equipment and supplies Electrostatic atomization - Methodology Microelectromechanical systems
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 and index.
Nota di contenuto	Digital microfluidics in today's microfluidics -- Theory of wetting -- The physics of droplets -- Electrowetting theory -- EWOD microsystems -- Biological applications of EWOD -- Chemical applications -- Acoustic methods for manipulating droplets -- Introduction to droplet microfluidics and multiphase microflows -- Epilog.
Sommario/riassunto	After spending over 12 years developing new microsystems for biotechnology u especially concerned with the microfluidic aspects of these devices u Jean Berthier is considered a leading authority in the field. Now, following the success of his book, Microfluidics for Biotechnology, Dr. Berthier returns to explain how new miniaturization techniques have dramatically expanded the area of microfluidic applications and microsystems into microdrops and digital microfluidics. Engineers interested in designing more versatile

microsystems and students who seek to learn the fundamentals of
micro
