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Autore	Jiang Hongrui
Titolo	Microlenses : properties, fabrication, and liquid lenses // Hongrui Jiang, Xuefeng Zeng
Pubbl/distr/stampa	Boca Raton : , : Taylor & Francis, , 2013
ISBN	0-429-18932-X 1-4398-3670-1
Edizione	[1st edition]
Descrizione fisica	1 online resource (225 p.)
Collana	Series in optics and optoelectronics
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Nota di contenuto	Front Cover; Dedications; Contents; About the Authors; Preface; Chapter 1 - Introduction to Liquid Microlenses; Chapter 2 - Basic Physics of Liquid Microlenses; Chapter 3 - Fabrication Methods; Chapter 4 - Solid Microlenses; Chapter 5 - Electrically Driven Tunable Microlenses; Chapter 6 - Mechanically Driven Tunable Microlenses; Chapter 7 - Horizontal Microlenses Integrated in Microfluidics; Chapter 8 - Looking into the Future; Back Cover
Sommario/riassunto	Microlenses and microlens arrays are a vital part of modern optical systems with applications in MEMS and sensor systems. This book explores the physics and optical properties of a range of microlenses, along with their fabrication, tuning, and applications in various fields. Although focusing on liquid lenses, the text covers all lens systems. The authors discuss such topics as microfabrication and nanofabrication, liquid interfaces, surface tension, variable focus, and lab on chips. They also provide a discussion of the challenges posed by current microlenses--

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Descrizione fisica	1 online resource (iii, 34 pages)
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