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Autore	CRISTIANI, Marta
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Graphical representation of cylindrical vector beams; 4. Generation of cylindrical vector beams; 4.1. Passive generation methods in free space; 4.2. Passive generation methods using optical fiber; 4.3. Active generation methods; 5. Cylindrical vector beams under high NA focusing; 6. Summary; References; Chapter 2 : Vector Optical Fields and their Novel Effects; 1. Introduction; 2. Generation of vector optical fields; 2.1. Local linearly polarized vector fields
2.2. Hybridly polarized vector fields3. Novel effects; 3.1. Optical cages; 3.2. Axial-symmetry broken vector fields; 3.3. Young's two-slit interference; 3.4. Optical orbital angular momentum (OAM); 4. Summary; Acknowledgments; References; Chapter 3 : Cylindrical Vector Beams for Spectroscopic Imaging of Single Molecules and Nanoparticles; 1. Introduction; 2. Theoretical background; 3. Instrumentation; 4. Fluorescence spheres to probe the quality of CVBs; 5. Single molecules; 5.1. Single molecules as nanoscale probes for interfaces; 5.2. CVBs for the investigation of the Host-Guest compounds
5.3. Imaging of excited-state tautomerization6. Single nanoparticles; 6.1 Single SiO2 nanoparticles; 6.2. Single silicon nanocrystals; 6.3. Excitation isotropy of single CdSe/ZnS quantum dots; 6.4. Optical characterization of single gold nanorods; 7. Orientation and position determination of a single quantum emitter inside an optical microcavity; 8. Conclusions; Acknowledgments; References; Chapter 4 : Comprehensive Focal Field Engineering with Vectorial Optical Fields; 1. Introduction; 2. Three-dimensional focus shaping with CV beams
3. Three-dimensional polarization control within focal volume4. Spherical spot with controllable 3D polarization; 5. Focus shaping through inverse dipole array radiation; 5.1. High purity optical needle field; 5.2. 3D optical tube, flattop focus and optical chain; 6. Conclusions; References; Chapter 5 : Plasmonics with Vectorial Optical Fields; 1. Surface plasmon polaritons; 2. Interaction of vectorial fields with plasmonic structures; 2.1. Planar metallic thin film; 2.2. Bull's eye structures; 2.2.1. Plasmonic lens made of single circular slot
2.2.2. Plasmonic lens made of multiple concentric circular slots2.2.3. Single ring plasmonic lens with circular Bragg gratings; 2.2.4. Applications in compact radial polarizer design; 2.3. Extraordinary optical transmission with radial polarization; 2.3.1. Coaxial aperture; 2.3.2. Circular nanoantenna; 2.4. Polarization mode matching and optimal plasmonic focusing; 2.5. Archimedes' spiral plasmonic lens; 2.5.1. Single spiral plasmonic lens; 2.5.2. Spiral plasmonic lens array; 2.5.3. Hybrid spiral plasmonic lens; 2.6. Applications in near-field optical probe designs
2.6.1. Metal coated conical dielectric tip

Sommario/riassunto

Polarization is a vector nature of light that plays an important role in optical science and engineering. While existing textbook treatments of light assume beams with spatially homogeneous polarization, there is an increasing interest in vectorial optical fields with spatially engineered states of polarization. New effects and phenomena have been predicted and observed for light beams with these unconventional polarization states. This edited review volume aims to provide a comprehensive overview and summarize the latest developments in this important emerging field of optics. This book will