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Blue LED + Green/Red Phosphors; 1.1.3 State-of-the-Art SSL Lamp Architectures; 1.1.4 SSL Applications; 1.2 Beyond the State-of-the-Art: Smart and Ultraefficient SSL; 1.2.1 Characteristics: Multicolor Electroluminescence, Narrowband Spectra, High Modulation Speed; 1.2.2 Potential Future System Applications
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References2 Integrated Optics Using High Contrast Gratings; 2.1 Introduction; 2.2 Physics of Near-Wavelength Grating; 2.2.1 Overview of the Underlying Principles; 2.2.2 Analytical Formulation; 2.2.3 HCG Supermodes and Their Interferences; 2.2.4 HCG Band Diagram; 2.3 Applications of HCGs; 2.3.1 High-Contrast-Grating-Based VCSELs; 2.3.2 All-Pass Optical Filter Array as Optical Phase Array; 2.3.3 Planar High Numerical Aperture Focusing Reflectors and Lenses; 2.3.4 Resonator with Surface-Normal Optical Coupling; 2.3.5 HCG for High-Precision Metrology
2.3.6 High Contrast Grating Hollow-Core Waveguide2.3.7 HCG Photon Cage; 2.3.8 Vertical-to-in-Plane Optical Coupler; 2.4 Summary; Acknowledgments; References; 3 Plasmonic Crystals: Controlling Light With Periodically Structured Metal Films; 3.1 Introduction; 3.2 Surface Plasmon Polaritons; 3.3 Basics of Surface Plasmon Polaritonic Crystals; 3.3.1 Bloch Mode Structure; 3.3.2 Enhanced Optical Transmission Through Plasmonic Crystals; 3.3.3 Improving Surface Transparency of Dielectrics with Nanostructured Metal; 3.4 Polarization and Wavelength Management with Plasmonic Crystals
3.4.1 Polarization Properties of Plasmonic Crystals with Rectangular Basis3.4.2 Birefringence of Plasmonic Crystals with Elliptical Basis; 3.4.3 Polarization Superprism Effect; 3.4.4 Four-Level Polarization Discriminator Based on SPPCs; 3.4.5 Wavelength Demultiplexing with Plasmonic Crystals; 3.5 Chirped Plasmonic Crystals: Broadband and Broadangle SPP Antennas Based on Plasmonic Crystals; 3.6 Active Control of Light with Plasmonic Crystals; 3.6.1 Electronically Controlled SPP Dispersion; 3.6.2 Magneto-Optical Control of Plasmonic Crystal Transmission
3.6.3 Acoustic Effects in Plasmonic Crystals

Sommario/riassunto

"The Handbook of Photonics third volume addresses photonics technology and application. It discusses communication networks, data buffers, defense and security applications, detectors, fiber optics and amplifiers, green photonics, instrumentation and metrology, interferometers, light-harvesting materials, logic devices, optical communications, remote sensing, solar energy, solid-state lighting, and wavelength conversion"--