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Large-scale achromatic flat lens by light frequency-domain coherence optimization

Xingjian Xiao', Yuriwei Zhao', Xin Ye', Chen Chen', Xinmou Lu', Yansen Rong', Junhong Deng', Guisin Lights, Shining Zhu o and Tao Li o as

Abstract.

Flat lenses, including metalens and diffractive lens, have attracted increasing attention due to their ability to miniaturize the imaging devices. However, realizing a large scale achromatic flat lens with high performance still remains a big challenge. Here, we developed a new framework in designing achromatic multi-level diffractive lenses. by light coherence optimization, which enables the implementation of large-scale flat lenses under non-ideal conditions. As results, a series achromatic polymer lenses with diameter from 1 to 10 mm are successfully designed and fabricated. The subsequent optical characterizations substantially validate our theoretical framework and show relatively good performance of the centimeter-scale achromatic multi-level diffractive lenses with a super broad bandwidth in optical wavelengths (400-1100 nm). After comparing with conventional refractive lens, this achromatic lens shows significant advantages in white-light imaging performance, implying a new strategy in developing practical planar optical devices.

Introduction

Conventional refractive lens has achieved great success in the area of imaging, metrology, detection, etc1.2, but its bulky and heavy characteristics prevent the systems from being compact, lightweight, and miniaturized, which is in high demand for portable and convenient applications. Metalenses, made of subwavelength nano-unit cells with ultrathin, lightweight, and flat architecture, do provide possible solutions that to some extent overcome the shortcomings of conventional diffractive lens with higher focusing efficiency and weak shadow-effect. However, metalenses still severely suffer from poor imaging quality under broadband illumination due to serious chromatic aberration10-13. Several pioneering works have demonstrated achromatic metalens operating over a broad wavelength range14-31. However, according to the fundamental limitations of the achromatic flat lens, the diameter of an ideal achromatic metalens (under the diffraction limit) is restricted by its thickness (the max height each nano-unit can achieve)18-30.32-34. As results. the diameters of reported achromatic metalenses with NA ≥ 0.1 in the visible do not exceed 200 µm due to their relatively small thicknesses (<4 µm) up to date. Such miniaturized metalenses are useful in the micro-nano optics or integrated optics (for example, endoscope⁷). However, millimeter- or centimeter-scale metalenses are necessary when it comes to other fields, such as augmented reality, lens modules in cell phones, landscape cameras and telescopes 1.15. Under theoretical estimation, hundred-micron thickness is needed to access the ideal centimeter scale (5-10 mm) achromatic metalens, which requires a very large aspect ratio (>1000:1) for the constructing nano-units, while the reported largest one is only about 50:128,34,35. Therefore, to access an ideal largescale achromatic metalens based on the common metadesigns seems to be unachievably difficult.

Fortunately, the multi-level diffractive lens provides an alternative strategy to reach the achromatism by

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On The Construction Of Large Achromatic

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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**On The Construction Of Large Achromatic**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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Table of Contents On The Construction Of Large Achromatic

- 1. Understanding the eBook On The Construction Of Large Achromatic
 - The Rise of Digital Reading On The Construction Of Large Achromatic
 - Advantages of eBooks Over Traditional Books
- 2. Identifying On The Construction Of Large Achromatic
 - Exploring Different Genres
 - $\circ\,$ Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an On The Construction Of Large Achromatic
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from On The Construction Of Large Achromatic
 - Personalized Recommendations
 - o On The Construction Of Large Achromatic User Reviews and Ratings

- On The Construction Of Large Achromatic and Bestseller Lists
- 5. Accessing On The Construction Of Large Achromatic Free and Paid eBooks
 - On The Construction Of Large Achromatic Public Domain eBooks
 - On The Construction Of Large Achromatic eBook Subscription Services
 - On The Construction Of Large Achromatic Budget-Friendly Options
- 6. Navigating On The Construction Of Large Achromatic eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - On The Construction Of Large Achromatic Compatibility with Devices
 - On The Construction Of Large Achromatic Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of On The Construction Of Large Achromatic
 - Highlighting and Note-Taking On The Construction Of Large Achromatic
 - Interactive Elements On The Construction Of Large Achromatic
- 8. Staying Engaged with On The Construction Of Large Achromatic
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers On The Construction Of Large Achromatic
- 9. Balancing eBooks and Physical Books On The Construction Of Large Achromatic
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection On The Construction Of Large Achromatic
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine On The Construction Of Large Achromatic
 - Setting Reading Goals On The Construction Of Large Achromatic
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of On The Construction Of Large Achromatic
 - Fact-Checking eBook Content of On The Construction Of Large Achromatic
 - Distinguishing Credible Sources

- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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