

1. Record Nr.	UNINA9910470159203321
Autore	Sanna, Manuela
Titolo	La fantasia che e l'occhio dell'ingegno : la questione della verita e della sua rappresentazione in Vico / Manuela Sanna
Pubbl/distr/stampa	Napoli, : Guida, °2001!
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2. Record Nr.	UNINA9910767510203321
Autore	Bao Changhua
Titolo	Electronic Band Structure Engineering and Ultrafast Dynamics of Dirac Semimetals // by Changhua Bao
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Soggetti	Condensed matter Semiconductors Optics Optical materials Photonics Materials science - Data processing Electronic structure Quantum chemistry - Computer programs Condensed Matter Physics Light-Matter Interaction Optical Materials Ultrafast Photonics Electronic Structure Calculations
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Nota di contenuto	Introduction -- Experimental Techniques -- Development of Novel Trarpes With Tunable Probe Photon Energy for 3D Quantum Materials -- Chiral Symmetry Breaking in Kekulé-ordered Graphene -- Coexistence of Flat Band and Kekulé Order.
Sommario/riassunto	This book highlights the doctoral research of the author on electronic band structure engineering and ultrafast dynamics of Dirac semimetals. Dirac semimetals exhibit unique electronic band structure and novel physical properties with rich light-matter interaction, which inspires a wide range of potential applications. Enabling band engineering and

revealing ultrafast dynamics of Dirac semimetals is therefore important. In the research work covered by the book, the first ultrafast time- and angle-resolved photoemission spectroscopy with tunable probe photon energy is developed, providing new opportunities for exploring ultrafast dynamics in 3D quantum materials. Using the spectroscopy, the author investigates the band structure engineering and ultrafast dynamics of Dirac semimetals, realizing the long-sought-after chiral symmetry breaking in a Kekulé-ordered graphene with flat band and revealing the ultrafast dynamics of Dirac fermions in 3D Dirac semimetal for the first time. The work advances the research of the electronic structure of Dirac semimetals in two aspects. Firstly, it identifies the Kekulé-ordered graphene as a new system for exploring chiral symmetry breaking- related physics and flat band- induced instability, providing a very rare system to investigate their interplay. Secondly, it solves the long-standing challenge of directly visualizing the non-equilibrium electronic structure of 3D Dirac semimetal and opens up new opportunities for exploring the light-matter interaction in 3D quantum materials, especially the light-induced topological phase transitions in 3D topological materials.
