

Nayak / Mazumder

Two-Dimensional Quantum Materials

Embark on a journey into the quantum realm with 'Two-Dimensional Quantum Materials' exploring the profound impact of atomically thin wonders on quantum science and technology. From graphene's ground-breaking discovery to advancements in transition metal dichalcogenides, delve into their fundamental properties, synthesis techniques, and applications in nanoelectronics, optoelectronics, and quantum computing. This book uncovers the unique electronic, optical, and mechanical properties, exploring intricate crystal structures, quantum phenomena, and cutting-edge characterization methods, with insights from leading experts, thereby shaping revolutionary advancements. This comprehensive overview navigates through the latest research trends, emerging topics, and potential breakthroughs, offering a captivating journey for seasoned researchers, curious students, and technology enthusiasts alike. Finally, we believe that this book offers a broader perspective to the readers to discover the limitless possibilities of 2D quantum materials.

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