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Altri autori (Persone)	PatiSwapan K EnokiToshiaki RaoC. N. R <1934-> (Chintamani Nagesa Ramachandra)
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Nota di contenuto	Preface; Contents; Chapter 1 Graphene: Synthesis, Functionalization and Properties C. N. R. Rao, K. S. Subrahmanyam, H. S. S. Ramakrishna Matte and A. Govindaraj; 1. Introduction; 2. Synthesis; 3. Functionalization and Solubilization; 4. Surface Properties; 5. Interaction with Electron Donor and Acceptor Molecules; 6. Decoration of Graphene with Metal Nanoparticles; 7. Magnetic Properties; 8. Inorganic Graphene Analogues; References; Chapter 2 Synthesis and Characterization of Exfoliated Graphene- and Graphene Oxide-Based Composites K. R. Rasmi, K. Chakrapani and S. Sampath; 1. Introduction 2. Experimental Section2.1. Materials; 2.2. Synthesis of exfoliated graphene oxide; 2.3. Synthesis of EGO- Au-Ag alloy composites; 2.3. Synthesis of GO-Co3O4 composite; 2.4. Synthesis of EGO-RuOx composite; 2.5. Materials characterization; 3. Results and Discussion; 3.1. Electrochemical detection of dopamine using graphene-alloy nanocomposites; 3.2. Composites of exfoliated graphene oxide- and Co3O4 or RuOx; 4. Summary; Acknowledgments; References; Chapter 3

Singlet Open-Shell Character of Polyperiacenes A. Shimizu, A. Konishi, Y. Hirao and T. Kubo; 1. Introduction  
2. Theoretical Consideration on Open-Shell Character 2.1. Clar's aromatic sextet valence bond model; 2.2. Quantum chemical method; 2.3. Aromaticity of each ring; 2.4. More extended ring system; 3. Experimental Elucidation of the Smallest Polyperiacene; 3.1. Geometrical consideration; 3.2. Physical properties; 4. Conclusion; Acknowledgments; References; Chapter 4 Doping of Graphene: A Computational Study A. K. Manna and S. K. Pati; 1. Introduction; 2. Computational Details; 3. Metal Nanoclusters Graphene Complexes; 4. Molecule-Graphene Complexes; 5. Summary; Acknowledgments; References  
Chapter 5 Vibrations and Buckling of Uni-Axially Strained Graphene and BN-Monolayer: A First-Principles Study K. P. S. S. Hembram and U. V. Waghmare 1. Introduction; 2. Methods; 3. Results; 3.1. Structure; 3.2. Phonons; 3.3. Electronic structure; 4. Conclusion; Acknowledgment; References; Chapter 6 Raman Spectroscopy of Graphene Edges R. Saito; 1. Introduction; 2. Method; 3. Calculated Raman Spectra; 4. Discussion and Summary; Acknowledgments; References; Chapter 7 Probing Single and Bilayer Graphene Field Effect Transistors by Raman Spectroscopy A. Das, B. Chakraborty and A. K. Sood  
1. Introduction 2. Vibrational Properties of Graphene; 3. Raman Spectra of Graphene; 4. Tuning the Fermi Energy by Field Effect Gating; 4.1. Single layer top gating; 4.2. Bilayer top gating; 4.2.1. Conversion of VTG into EF; 4.3. Theoretical calculations; 4.3.1. Comparison between the experiment and theory (Bilayer); 4.3.2. Physical interpretation; 5. Conclusions; Acknowledgments; References; Chapter 8 Phonons and Electron-Phonon Interaction in Graphene and Nanotube T. Ando; 1. Introduction; 2. Monolayer Graphene and Nanotube; 3. Acoustic Phonon; 4. Optical Phonon; 5. Zone-Boundary Phonon  
6. Spontaneous Lattice Distortion

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Sommario/riassunto

Graphene, a single sheet of graphite, has an unconventional electronic structure that can be described in terms of massless Dirac Fermions. This interesting electronic feature is not only an important fundamental issue in condensed matter physics but also

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