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Nota di contenuto	<p>""Carbon Nanotubes: New Research""; ""Contents""; ""Preface""; ""On the Drude Model to Explain Quantum Transport in Carbon Nanotubes""; ""Abstract""; ""1. Introduction""; ""2. Theory""; ""Conclusion""; ""References""; ""Asymptotic Analysis of Coagulation- Fragmentation Equations""; ""Abstract""; ""Introduction""; ""Computational Method""; ""Description of the Asymptotic Coagulation- Fragmentation Equations""; ""Calculation Results and Discussion""; ""Perspectives""; ""References""; ""Gas-Carbon Nanotubes Interactions: A Review of ultra-high vacuum Surface Science Studies on CNTs""</p> <p>""Abstract""""Abbreviations""; ""1. Introduction""; ""2. Sample Preparation for Surface Science Studies""; ""3. Brief Literature Survey of HOPG - Highly Ordered Pyrolytic Graphite""; ""4. Brief Literature Overview - UHV Surface Science Studies on Clean Nanotubes""; ""5. Detailed Examples of Specific Systems""; ""6. Future Directions""; ""Summary""; ""Acknowledgments""; ""References""; ""On Residual Metallic Catalyst Impurities in Carbon Nanotubes""; ""Abstract""; ""Main Text""; ""References""</p> <p>""Insight of the Kinetics Carbon Nanotubes Growth and Funcinalization with Freestanding Silicon Nanocrystals""""Abstract""; ""1. Introduction""; ""2. Experimental""; ""3. Kinetcis of the Carbon Nanotubes Growth""; ""4. Filling Carbon Nanotube Cavity by Silicon Nanocrystals"";</p>

""Conclusion""; ""Acknowledgments""; ""References""; ""Carbon Nanotube Array Thermal Interfaces""; ""Abstract""; ""X.1. Introduction""; ""X.2 Thermal Transport Through Carbon Nanotube Array Interfaces""; ""X.3. Photoacoustic Characterization of Thermal Properties""; ""X.4 Types of Carbon Nanotube Array Interfaces"" ""X.5. Thermal Resistances of Carbon Nanotube Array Interfaces"" ""X.6. Conclusion""; ""References""; ""Computational Analysis of the Interfacial Bonding Characteristics of Carbon Nanotube/Polymer Composites""; ""Abstract""; ""1. Introduction and Background""; ""2. Experimental""; ""3. Investigation of Molecular Interactions between SWNT and Polyethylene/Polypropylene/Polystyrene/Polyaniline Molecules""; ""4. Influence of Chirality on the Interfacial Bonding Characteristics of Carbon Nanotube Polymer Composites"" ""5. Effect of Chemisorption on the Interfacial Bonding Characteristics of Carbon Nanotube Polymer Composites"" ""Conclusions""; ""Acknowledgment""; ""References""; ""Mechanical Properties of Carbon Nanotubes""; ""Abstract""; ""Introduction""; ""Mechanical Properties of SWCNTs""; ""Mechanical Properties of DWCNTs""; ""Conclusion""; ""Acknowledgments""; ""References""; ""Electrical Properties of a Carbon Nanotube/Polymer Nanocomposite and its Application as Highly Sensitive Strain Sensors""; ""Abstract""; ""1. Introduction"" ""2. A Statistical Percolation Model for Prediction of Percolation Threshold of Nanocomposites""

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