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Autore	Wang Guorui
Titolo	Characterization and Modification of Graphene-Based Interfacial Mechanical Behavior / / by Guorui Wang
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Descrizione fisica	1 online resource (XV, 139 p. 76 illus., 73 illus. in color.)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5053
Disciplina	620.115
Soggetti	Mechanical engineering Materials science Chemistry, Inorganic Mechanical Engineering Characterization and Evaluation of Materials Inorganic Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Doctoral Thesis accepted by University of Science and Technology of China, Hefei, China"--Title page.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Measuring Interfacial Properties of Graphene/polymethyl methacrylate (PMMA) through Uniaxial Tensile Test -- Mechanical Behavior at Graphene/polymethyl methacrylate (PMMA) Interface in Thermally Induced Biaxial Compression -- Measuring Interfacial Properties of Graphene/silicon by Pressurized Bulging Test -- Interfacial Mechanics between Graphene Layers -- Summary and Prospect.
Sommario/riassunto	This thesis shares new findings on the interfacial mechanics of graphene-based materials interacting with rigid/soft substrate and with one another. It presents an experimental platform including various loading modes that allow nanoscale deformation of atomically thin films, and a combination of atomic force microscopy (AFM) and Raman spectroscopy that allows both displacement and strain to be precisely measured at microscale. The thesis argues that the rich interfacial behaviors of graphene are dominated by weak van der Waals

force, which can be effectively modulated using chemical strategies. The continuum theories are demonstrated to be applicable to nanomechanics and can be used to predict key parameters such as shear/friction and adhesion. Addressing key interfacial mechanics issues, the findings in thesis not only offer quantitative insights in the novel features of friction and adhesion to be found only at nanoscale, but will also facilitate the deterministic design of high-performance graphene-based nanodevices and nanocomposites.

2. Record Nr.	UNISOBSOBE00084680
Autore	Floridi, Luciano
Titolo	Filosofia dell'informazione / Luciano Floridi ; edizione italiana a cura di Massimo Durante
Pubbl/distr/stampa	Milano, : Raffaello Cortina, 2024
Titolo uniforme	Filosofia dell'informazione
ISBN	9788832856736
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Lingua di pubblicazione	Italiano
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