1. Record Nr. UNINA9910416528003321

Autore	Wang Guorui
Titolo	Characterization and Modification of Graphene-Based Interfacial Mechanical Behavior [[electronic resource] /] / by Guorui Wang
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2020
ISBN	981-15-8029-4
Edizione	[1st ed. 2020.]
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 Inorganic chemistry 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 nano-mechanics 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. UNINA9910324038703321

Autore	Bajoit Guy
Titolo	Le mouvement et la forme : Essais sur le changement social en hommage à Maurice Chaumont / / Michel Molitor, Jean Remy, Luc Van Campenhoudt
Pubbl/distr/stampa	Bruxelles, : Presses de l'Université Saint-Louis, 2018
ISBN	2-8028-0407-3
Descrizione fisica	1 online resource (306 p.)
Altri autori (Persone)	ChaumontMaurice DevilleAnne De VillersGauthier GermainAnnick Guilhon AlbuquerqueJosé A HubertMichel LadrièreJean MolitorMichel RemyJean TouraineAlain Van CampenhoudtLuc VerhaegenBenoît Van CampenhoudtLuc
Soggetti	Religion crise religieuse eschatologie société religion chrétien
Lingua di pubblicazione	Francese

Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Cet ouvrage constitue une introduction a une sociologie compréhensive du changement social, qui place l'acteur social au cœur de son questionnement. À partir d'une élucidation prospective de l'œuvre de Maurice Chaumont l'ouvrage propose un ensemble de textes qui portent sur les principales facettes du travail sociologique, tel que le concevait Maurice Chaumont : la réflexion épistémologique, l'essai, la problématisation et la construction de modèles d'analyse ainsi que l'analyse concrète. À travers l'unité du projet et la complémentarité des différents apports, une manière neuve d'aborder le changement social est proposée ici, dont l'intérêt est à la fois théorique, pratique et pédagogique. Des chercheurs de l'École des hautes études en sciences sociales à Paris (Alain Touraine), de l'Université de Sao Paulo (José-A Guilhon Albuquerque), de l'Université de Montréal (Annick Germain), des Universités du Zaïre (Benoit Verhaegen) et du Centre d'étude et de documentation africaines (Gauthier de Villers et Benoit Verhaegen), de l'Université catholique de Louvain (Guy Bajoit. Jean Ladrière, Michel Molitor et Jean Remy) et du Centre d'études sociologiques des facultés universitaires Saint-Louis (Anne Devillé, Michel Hubert, Jean Remy et Luc Van Campenhoudt participent à cet ouvrage d'hommage.