1. Record Nr. UNINA9910144803703321

Titolo	Annual report / / World Trade Organization
Pubbl/distr/stampa	Geneva [Switzerland], : The Organization, 1996-
Descrizione fisica	1 online resource
Disciplina	382/.021
Soggetti	International trade Tariff Commerce international - Réglementation - Périodiques Accords commerciaux - Périodiques Politique commerciale - Périodiques Commerce international Commerce international - Statistiques Tarif douanier 83.42 international trade World Trade Organization Internationale handel Reports INTERNATIONAL TRADE Periodicals. Statistics. Annual reports (form)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Some volumes have distinctive titles.

2. Record Nr. UNINA9910746978003321

Autore	Yamanaka Junpei
Titolo	Colloidal Self-Assembly / / by Junpei Yamanaka, Tohru Okuzono, Akiko Toyotama
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
ISBN	9789819950522 981995052X
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (ix, 230 pages) : illustrations (chiefly color)
Collana	Lecture Notes in Chemistry, , 2192-6603 ; ; 108
Altri autori (Persone)	OkuzonoTohru ToyotamaAkiko
Disciplina	541.345
Soggetti	Colloids Self-assembly (Chemistry) Nanoparticles Optical materials Crystallography Self-assembly Optical Materials Crystallography and Scattering Methods
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	1. Introduction -- 2. Basis of Colloid Science to Understand Self-assembly -- 3. Experimental Methods -- 4. Numerical Simulation Methods -- 5. Studies on Colloidal Self-assembly -- 6. Application of the Colloidal Self-assembly -- 7. Appendices.
Sommario/riassunto	This concise book covers fundamental principles of colloidal self-assembly and overviews of basic and applied research in this field, with abundant illustrations and photographs. Experimental and computer simulation methods to study the colloidal self-assembly are demonstrated. Complementary videos "Visual Guide to Study Colloidal Self-Assembly" on the research procedures and assembly processes are available via SpringerLink to support learning. The book explains basic elements of mechanics and electromagnetism required to study the colloidal self-assembly, so that graduate students of chemistry and

engineering courses can learn the contents on their own. It reviews important research topics, including the authors' works on the colloidal self-assembly of more than 30 years’ work. The principal topics include: (1) crystallization of colloidal dispersions, with the emphasis on the role of surface charges, (2) fabrication of large and high-quality colloidal crystals by applying controlled growth methods, (3) association and crystallization by depletion attraction in the presence of polymers, (4) clustering of colloidal particles, especially those in oppositely charged systems, and (5) two-dimensional colloidal crystals. Furthermore, it covers (6) applications of colloidal crystals, ranging from cosmetics to sensing materials. We also describe space experiments on colloidal self-assembly in the International Space Station. This book will interest graduate school students in colloid and polymer science, pharmaceutics, soft matter physics, material sciences, and chemical engineering courses. It will also be a useful guide for individuals in academia and industry undertaking research in this field.