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| Titolo | Soft Matter at Aqueous Interfaces / / edited by Peter Lang, Yi Liu |
| Pubbl/distr/stampa | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016 |
| ISBN | 3-319-24502-3 |
| Edizione | [1st ed. 2016.] |
| Descrizione fisica | 1 online resource (VIII, 555 p. 230 illus., 116 illus. in color.) |
| Collana | Lecture Notes in Physics, , 0075-8450 ; ; 917 |
| Disciplina | 530.417 |
| Soggetti | Amorphous substances<br>Complex fluids<br>Optical materials<br>Electronics - Materials<br>Polymers<br>Chemistry, Physical and theoretical<br>Soft and Granular Matter, Complex Fluids and Microfluidics<br>Optical and Electronic Materials<br>Polymer Sciences<br>Physical Chemistry |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Includes index. |
| Nota di contenuto | From the Contents: Thermodynamics of interfaces -- Basics of Electrochemistry -- Introduction to depletion forces and phase behaviour of colloid mixtures -- Interfaces of binary mixtures -- Dynamics of surfactants and polymers at liquid interfaces. |
| Sommario/riassunto | This book covers the science of interfaces between an aqueous phase and a solid, another liquid or a gaseous phase, starting from the basic physical chemistry all the way to state-of-the-art research developments. Both experimental and theoretical methods are treated thanks to the contributions of a distinguished list of authors who are all active researchers in their respective fields. The properties of these interfaces are crucial for a wide variety of processes, products and biological systems and functions, such as the formulation of personal care and food products, paints and coatings, microfluidic and lab-on- |

a-chip applications, cell membranes, and lung surfactants. Accordingly, research and expertise on the subject are spread over a broad range of academic disciplines and industrial laboratories. This book brings together knowledge from these different places with the aim of fostering education, collaborations and research progress.