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Autore	Bragone Maria Cristina
Titolo	Mondo slavo e l'Europa : Contributi presentati al VI Congresso Italiano di Slavistica (Torino, 28-30 settembre 2016) / / Maria Cristina Bragone
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Sommario/riassunto	This volume, organised in thirty-two essays written by thirty-five among the most successful Italian scholars in the field of Slavic Studies, offers an extensive overview of the studies which have been conducted in Italy on Slavic literature, philology, linguistics, history and culture in recent years. Overall, the work highlights the great variety of paths and lines of research which shaped Italian Slavic Studies, and which are still being used for this field. This volume shows several realities of the Slavic countries in their multifaceted relations with other European cultures, and is addressed to researchers focusing only on Slavic Studies as well as to specialists from other fields who are interested in further investigating topics related to the close net of relationships between the Slavic world and the rest of Europe in the past and present.

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Nota di contenuto	Advances in Chemical Physics; Contributors to Volume 155; Preface to The Series; Contents; Modeling Viral Capsid Assembly; I. Introduction; A. Virus Anatomies; B. Virus Assembly; 1. Experiments That Characterize Capsid Assembly; 2. Motivation for and Scope of Modeling; II. Thermodynamics of Capsid Assembly; A. Driving Forces; B. Law of Mass Action; 1. Estimating Binding Energies from Experiments; III. Modeling Self-Assembly Dynamics and Kinetics of Empty Capsids; A. Timescales for Capsid Assembly; 1. Scaling Estimates for Assembly Timescales; 2. Lag Times; 3. The Slow Approach to Equilibrium B. Rate Equation Models for Capsid AssemblyC. Particle-Based Simulations of Capsid Assembly Dynamics; D. Conclusions from Assembly Dynamics Models; E. Differences Among Models; F. Higher T Numbers; 1. Structural Stability of Different Capsid Geometries; 2. Dynamics of Forming Icosahedral Geometries; IV. Cargo-Containing Capsids; A. Structures; B. The Thermodynamics of Core-Controlled Assembly; C. Single-Stranded RNA Encapsidation; D. Dynamics of Assembly Around Cores; V. Outlook; References Charges at Aqueous Interfaces: Development of Computational

Approaches in Direct Contact With ExperimentI. Introduction; II. Accounting for Polarizability Effects; A. Models with Explicit Polarization; B. Implicit Polarization via Charge Scaling; C. Beyond Conventional Force Fields; III. Case Studies; A. Hydroxide at Aqueous Interfaces; B. Solvated Electron at the Surface of Water; IV. Outlook; References; Solute Precipitate Nucleation: A Review of Theory and Simulation Advances; I. Introduction; II. Classical Nucleation Theory; A. Homogeneous Nucleation; B. Heterogeneous Nucleation
C. Nucleation TheoremIII. Two-Step Nucleation Theory; A. Metastable Fluid--Fluid Critical Points; B. Phenomenological Theories; C. Coupled Flux Theories and Concentration Fluctuation Gating; IV. Simulation Challenges; A. Landau Free Energies and Rare Events; B. Kramers--Langer--Berezhkovskii--Szabo (KLBS) Theory; C. Nucleus Size in Simulations; D. Which Nucleus Size Metric?; E. Open versus Closed Systems; V. Case Studies; A. Laser-Induced Nucleation; B. Nucleation of Methane Hydrates; C. Nucleation of Calcium Carbonate; VI. Closing Remarks; References
Water in The Liquid State: A Computational ViewpointI. Introduction; II. Potential Energy Functions for Liquid Water; A. Heuristic Models; B. Multisite Models; 1. Three-Site Models; 2. Four-Site Models; 3. Five-Site Models; 4. Six Sites and Beyond; C. Molecular Multipole Models; 1. The Multipole Expansion; 2. The Approximate Multipole Expansion; D. Atomic Multipole Models; E. Summary; III. Multipoles; IV. The Water Molecule in the Pure Liquid; A. Nuclear Geometry; B. Electron Density; C. Multipole Moments; D. Electrostatic Potential; E. Summary; V. Liquid Water; A. Structure; B. Density
C. Thermodynamics

Sommario/riassunto

The Advances in Chemical Physics series provides the chemical physics field with a forum for critical, authoritative evaluations of advances in every area of the discipline. This volume explores the following topics: Modeling Viral Capsid AssemblyCharges at Aqueous Interfaces: Development of Computational Approaches in Direct Contact With ExperimentSolute Precipitate Nucleation: a Review of Theory and Simulation AdvancesWater in the Liquid State: A Computational ViewpointConstruction of Energy Functions for Lattice Heteropolymer Models: Efficient Encodings fo