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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Ionic liquids influencing the interfacial curvature and self-assembly of AOT / Sergio Murgia, Sandrina Lampis, Marianna Mamusa, and Gerardo Palazzo -- Characterization of self-assembled amphiphiles in ionic liquids / Lang G. Chen, Stephen H. Strassburg and Harry Bermudez -- Self-assembly of nonionic surfactants in room temperature ionic liquids / Kenichi Sakai, Takeshi Misono, Masahiko Abe, and Hideki Sakai -- Ionic liquid-based surfactants : synthesis, molecular structure, micellar properties and applications / Paula D. Galgano, Omar A. El Seoud -- Ionic liquids in bulk and at interface : self-aggregation, interfacial tension and adsorption / M. Tariq, K. Shimizu, B. Saramago, L.P.N. Rebelo, J.N. Canongia Lopes -- Aggregation behavior of ionic liquid-based gemini surfactants and their interaction with biomacromolecules / Ting Zhou, Guiying Xu -- Fluorescence studies of the microenvironments of the morpholinium room temperature ionic liquids / Dinesh Chandra Khara, Kotni Santhosh and Anunay Samanta -- Self-assembly of surface active ionic liquids in aqueous medium / K. Srinivasa Rao, Pankaj Bharmoria, Tushar J. Trivedi, and Arvind Kumar -- Effect of a surface active ionic liquid on calixarenes / Shubha Pandey, Shruti Trivedi, Sandeep K. Mishra, Pramod S. Pandey, and Siddharth

Pandey -- Ionic liquids in colloidal regime / Indrajyoti Mukherjee and Satya P. Moulik -- Nanostructures of amphiphiles and microemulsions in room temperature ionic liquids / Ahmed Mourchid -- Microemulsions with ionic liquids / Joachim Koetz -- Properties of ionic liquid based microemulsions / Maria Figueira-Gonzalez, Luis Garcia-Rio, Mercedes Parajo, Pedro Rodriguez-Dafonte -- Ionic liquids in soft confinement : effect of reverse micelle interfaces on the entrapped ionic liquid structure / R. Dario Falcone, N. Mariano Correa, Nancy E. Levinger and Juana J. Silber -- Designing a new strategy for the formation of IL-in-oil microemulsions containing double chain surface active ionic liquid / Vishal Govind Rao, Chiranjib Banerjee, Surajit Ghosh, Sarthak Mandal, and Nilmoni Sarkar -- Ionic liquid based microemulsions / Jianling Zhang -- Ionic liquid-based nonaqueous microemulsion / Qilong Ren, Qiwei Yang, Baogen Su, Zhiguo Zhang, Zongbi Bao, Huabin Xin -- Ionic liquid microemulsions and applications / Xueqin An and Jun Shen -- Ionic liquid-in-oil microemulsions / Debostuti Ghosh Dastidar and Sanjib Senapati -- Recent advances in bio-ionic liquids and biocompatible ionic liquid based microemulsions / Kaushik Kundu, Soumik Bardhan, Swapan K. Saha, Bidyut K. Paul -- Density prediction of ternary mixtures of ethanol + water + ionic liquid using back propagation artificial neural networks / J. Morales, O.A. Moldes, G. Astray, A. Cid, M.A. Iglesias-Otero, J.C. Mejuto -- Effect of ionic liquids on catalytic properties and structure of biocatalysts / Maria H. Katsoura, Athena A. Papadopoulou, Angeliki C. Polydera and Haralampos Stamatis -- Analytical applications of ionic liquid-based surfactants in separation science / Jose Trujillo-Rodriguez, M. Providencia Gonzalez-Hernandez, Veronica Pino -- Ionic liquids: surfactant agents for layered silicates / Sebastien Livi, Jean-Francois Gerard, Jannick Duchet-Rumeau -- Deep eutectic solvents as a new reaction medium for biotransformations / Zhen Yang and Qing Wen.

Sommario/riassunto

This volume will be summarized on the basis of the topics of Ionic Liquids in the form of chapters and sections. It would be emphasized on the synthesis of ILs of different types, and stabilization of amphiphilic self-assemblies in conventional and newly developed ILs to reveal formulation, physicochemical properties, microstructures, internal dynamics, thermodynamics as well as new possible applications.
