

1. Record Nr.	UNINA9910647772303321
Titolo	Encyclopedia of Ionic Liquids // edited by Suojiang Zhang
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2022
ISBN	9789813342217 9789813342200
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (1391 pages)
Disciplina	354.81150006
Soggetti	Chemistry, Technical Electrochemistry Catalysis Energy policy Energy and state Materials - Analysis Industrial Chemistry Energy Policy, Economics and Management Characterization and Analytical Technique
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Synthesis and Characterisation of Ionic Liquids -- Physicochemical Properties of Ionic Liquids -- Calculations and Simulations of Ionic Liquids -- Toxicology and Biodegradation of Ionic Liquids -- Ionic Liquids in Electrochemistry -- Ionic Liquids in Organic Reaction -- Ionic Liquids in Separation -- Ionic Liquids in Biomass and Biomolecules -- Ionic Liquids in Materials Science -- Ionic Liquids in Polymer Science -- Ionic Liquids in Environmental Science -- Ionic Liquids in Energy Science (Fuels) -- Emerging Applications of Ionic Liquids (Pharmacology, Food Science, Agriculture, Nuclear Science Technology, Optics).
Sommario/riassunto	The encyclopedia consists 13 subareas as follows: 1: Synthesis and Characterisation of Ionic Liquids (Section Editors: Prof. Fu-Wei Li and Prof. Zhen Li) 2: Physicochemical Properties of Ionic Liquids (Section Editors: Asso. Prof. Qing Zhou, Prof. Xingmei Lu and Prof. Xiaoyan Ji) 3:

Computational and Theoretical Modeling of Ionic Liquids (Section Editors: Prof. Guang Feng and Prof. Peter T. Cummings) 4: Toxicology and Biodegradation of Ionic Liquids (Section Editors: Prof. Chunxi Li and Prof. Stefan Stolte) 5: Ionic Liquids in Electrochemistry (Section Editors: Prof. Yingying Lu, Prof. Houlong Zhuang and Prof. Chuan Zhao) 6. Ionic Liquids in Organic Reaction (Section Editors: Prof. Liang-Nian He and Prof. Bhalchandra M. Bhanage) 7. Ionic Liquids in Separation (Section Editors: Prof. Huabin Xing) 8. Ionic Liquids in Biomass and Biomolecules (Section Editors: Prof. Toshiyuki Itoh and Prof. Jian Sun) 9. Ionic Liquids in Materials Science (Section Editors: Prof. Sheng Dai and Prof. Tao Wang) 10. Ionic Liquids in Polymer Science (Section Editors: Asso. Prof. Jinming Zhang and Prof. Jun Zhang) 11. Ionic Liquids in Environmental Science (Section Editors: Prof. Tiancheng Mu, Prof. Arunprakash T. Karunanithi and Prof. Yingxiong Wang) 12. Ionic Liquids in Green Chemistry (Section Editors: Prof. Buxing Han and Prof. Peter Licence) 13. Emerging Applications of Ionic Liquids (Pharmacology, Food Science, Agriculture, Nuclear Science Technology, Optics) (Section Editors: Prof. Zhonghao Li and Prof. Maya Guncheva) This encyclopedia is systematic and comprehensive, with detailed descriptions about theory, technology, and industrial applications. This encyclopedia is valuable for students, researchers and industrial players, giving them a quick understanding and overview of ionic liquids in various aspects.
