Recolu M.	UNINA9910141270503321
Titolo	Molten salts and ionic liquids [[electronic resource] ] : never the twain? / / edited by Marcelle Gaune-Escard, Kenneth R. Seddon
Pubbl/distr/stampa	Hoboken, N.J., : Wiley, c2010
ISBN	1-280-88139-9 9786613722706 0-470-94777-2 0-470-94776-4
Descrizione fisica	1 online resource (466 p.)
Altri autori (Persone)	Gaune-EscardMarcelle SeddonKenneth R. <1950->
Disciplina	546.34 546/.34
Soggetti	Fused salts Ionic solutions Coulomb potential Electronic books.
Lingua di pubblicazione	Indiaso
Lingua di pubblicazione	inglese
Formato	Materiale a stampa
Formato Livello bibliografico	Materiale a stampa Monografia
Formato Livello bibliografico Note generali	Materiale a stampa Monografia Description based upon print version of record.
Formato Livello bibliografico Note generali Nota di bibliografia	Materiale a stampa Monografia Description based upon print version of record. Includes bibliographical references and index.

1.

	Liquid Biphasic Systems; 12 Recent Developments in the Reprocessing of Spent Fuel by Catalyst Enhanced Molten Salt Oxidation (CEMSO); 13 Plasma-Induced Molten Salt Electrolysis to Form Functional Fine Particles 14 Liquid Electrolytes: Their Characterisation, Investigation, and Diverse Applications15 Protection of a Microstructured Molybdenum Reactor from High Temperature Oxidation by Electrochemical Deposition Coatings in Molten Salts; 16 Molten Salt Synthesis of LaAIO3 Powder at Low Temperatures; 17 Accurate Measurement of Physicochemical Properties on Ionic Liquids and Molten Salts; 18 Molten Salt Physics and Chemistry in the Current Development of Spent Nuclear Fuel Management; 19 An Organic Chemist's Perspective on High Temperature Molten Salts and Room Temperature Ionic Liquids 20 Raman Spectroscopy of High Temperature Melts21 Thermodynamic Properties of LnI3-MI Binary Systems (Ln = La or Nd; M = K, Rb, or Cs); 22 Materials Informatics for Molten Salts Chemistry; 23 A Novel Ionic Liquid-Polymer Electrolyte for the Advanced Lithium Ion Polymer Battery; 24 Solubility of Al2O3 in NaCI-KCI Based Molten Salt System; 25 Molten Salt Synthesis of Ceramic Materials; 26 Fuel Cell and Electrolysis Studies with Dual Phase Proton and Oxide Ion Conduction; Index
Sommario/riassunto	For many years, the related fields of molten salts and ionic liquids have drifted apart, to their mutual detriment. Both molten salts and ionic liquids are liquid salts containing only ions - all that is different is the temperature! Both fields involve the study of Coulombic fluids for academic and industrial purposes; both employ the same principles; both require skilled practitioners; both speak the same language; all then that is truly different is their semantics, and how superficial is that? The editors of this book, recognising that there was so much knowledge, both empirical and theo