



MOLTEN SALTS CHEMISTRY FROM LAB TO APPLICATIONS

EDITED BY

Frédéric Lantelme and Henri Groult



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Molten Salts Chemistry Frederic Lantelme, Henri Groult, 2013-08-14 Molten salts and fused media provide the key properties and the theory of molten salts as well as aspects of fused salts chemistry helping you generate new ideas and applications for fused salts Molten Salts Chemistry From Lab to Applications examines how the electrical and thermal properties of molten salts and generally low vapour pressure are well adapted to high temperature chemistry enabling fast reaction rates It also explains how their ability to dissolve many inorganic compounds such as oxides nitrides carbides and other salts make molten salts ideal as solvents in electrometallurgy metal coating treatment of by products and energy conversion This book also reviews newer applications of molten salts including materials for energy storage such as carbon nano particles for efficient super capacitors high capacity molten salt batteries and for heat transport and storage in solar plants In addition owing to their high thermal stability they are considered as ideal candidates for the development of safer nuclear reactors and for the treatment of nuclear waste especially to separate actinides from lanthanides by electrorefining Explains the theory and properties of molten salts to help scientists understand these unique liquids Provides an ideal introduction to this expanding field Illustrated text with key real life applications of molten salts in synthesis energy nuclear and metal extraction

Molten Salt Chemistry Gleb Mamantov, Roberto Marassi, 2012-12-06 Molten salts are of considerable significance to chemical technology Applications range from the established ones such as the production of aluminum magnesium sodium and fluorine to those as yet to be fully exploited such as molten salt batteries and fuel cells catalysis and solar energy Molten salts are investigated for different purposes by many diverse techniques There is a need to keep investigators working in different areas such as metal production power sources and glass industry aware of progress in various specialties as well as to familiarize new research workers with the fundamental aspects of the broad field of molten salt _ chemistry This volume constitutes the plenary lectures presented at the NATO Advanced Study Institute on Molten Salt Chemistry Camerino Italy August 3 15 1986 The fundamentals and several selected applications of molten salt chemistry were addressed The major fundamental topics covered at this ASI were the structure of melts thermodynamics of molten salt mixtures theoretical and experimental studies of transport processes metal metal salt solutions solvent properties of melt systems acid base effects in molten salt chemistry electronic absorption vibrational and nuclear magnetic resonance spectroscopy of melt systems electrochemistry and electroanalytical chemistry in molten salts and organic chemistry in molten salts The applied aspects of molten salt chemistry included the chemistry of aluminum production electrodeposition using molten salts and molten salt batteries and fuel cells

Molten Salts Marcelle Gaune-Escard, 2012-12-06 Several state of the art applications of molten salts are presented such as metal molten salt systems room temperature glass formation and room temperature melts Several recent examples of applications highlight the importance of molten salts in various industries batteries pyrochemical reprocessing of nuclear fuel synthesis and catalysis The basic concepts of the structure

dynamics electrochemistry interfacial and thermodynamic properties are detailed and relevant experimental methods described Such fundamental concepts are essential for an in depth understanding of the physicochemical properties of molten salts in general including metal molten salts glass forming and low temperature melts Experimental methods for investigating structural dynamical electrochemical thermodynamical and interfacial properties are detailed as also are techniques for data collection and analysis Scientists engineers and technologists will find the volume a valuable reference source covering a wide spectrum of fundamental concepts and modern technologies

Molten Salt Chemistry Gleb Mamantov, Roberto Marassi, 1987-06-30 Molten salts are of considerable significance to chemical technology Applications range from the established ones such as the production of aluminum magnesium sodium and fluorine to those as yet to be fully exploited such as molten salt batteries and fuel cells catalysis and solar energy Molten salts are investigated for different purposes by many diverse techniques There is a need to keep investigators working in different areas such as metal production power sources and glass industry aware of progress in various specialties as well as to familiarize new research workers with the fundamental aspects of the broad field of molten salt _ chemistry This volume constitutes the plenary lectures presented at the NATO Advanced Study Institute on Molten Salt Chemistry Camerino Italy August 3 15 1986 The fundamentals and several selected applications of molten salt chemistry were addressed The major fundamental topics covered at this ASI were the structure of melts thermodynamics of molten salt mixtures theoretical and experimental studies of transport processes metal metal salt solutions solvent properties of melt systems acid base effects in molten salt chemistry electronic absorption vibrational and nuclear magnetic resonance spectroscopy of melt systems electrochemistry and electroanalytical chemistry in molten salts and organic chemistry in molten salts The applied aspects of molten salt chemistry included the chemistry of aluminum production electrodeposition using molten salts and molten salt batteries and fuel cells

Molten Salts Chemistry and Technology Marcelle Gaune-Escard, Geir Martin Haarberg, 2014-05-12 Written to record and report on recent research progresses in the field of molten salts Molten Salts Chemistry and Technology focuses on molten salts and ionic liquids for sustainable supply and application of materials Including coverage of molten salt reactors electrodeposition aluminium electrolysis electrochemistry and electrowinning the text provides researchers and postgraduate students with applications include energy conversion solar cells and fuel cells heat storage green solvents metallurgy nuclear industry pharmaceuticals and biotechnology

Molten Salts and Ionic Liquids Marcelle Gaune-Escard, Kenneth R. Seddon, 2010-03-22 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 theoretical

which can be passed from the molten salt community to the ionic liquid community and vice versa organised a landmark meeting in Tunisia designed to bridge the gap and heal the rift Leaders from both communities met for a week for a mutual exchange with a high tutorial content intermixed with cutting edge findings This volume is a condensate of the principal offerings of that week and emphasises the success which was achieved Indeed four future biannual meetings under the title of EUACHEM Conferences on Molten Salts and Ionic Liquids have now been planned as a direct result of this meeting of minds Topics discussed in this volume include structure dynamics electrochemistry interfacial and thermodynamic properties spectroscopy synthesis and theoretical studies Experimental and theoretical methods for investigating these data are elaborated as are techniques for data collection and analysis This book represents the first serious discussion on the transfer of these methods and techniques between the differing temperature regimes and is a major contribution to the future of both fields

Scientific and Technical Aerospace Reports, 1982 *Molten Salt Techniques* D.G. Lovering, Robert J. Gale, 1987-06-30 The physicist Kamerlingh Onnes who was the first to liquify helium 1908 had written on the walls of his laboratory in Leiden From measuring to knowing As true as this is at very low temperatures it is just as applicable at the high temperatures of molten salts Only on the basis of exact measurements by a plethora of experimental methods can any real understanding be reached of both classes of liquids In both temperature ranges experimental difficulties are much greater than those encountered around ambient temperature Molten salts often present a formidable challenge to the experimenter for example because of corrosion and other materials problems Applications of molten salts were for a long time based on empirical knowledge alone This was true for the first application of molten salts in 1807 when Davy obtained sodium and potassium by electrolysis of the molten hydroxides For 100 years the winning of aluminum has been based on the very nearly simultaneous invention by Hall and Heroult 1886 of the electrolysis of molten cryolite The process though essentially unchanged has since been perfected owing to an improvement in our understanding of what actually happens based on difficult measurements of the many variables However even now there are gaps in our knowledge

Molten Salts Handbook George J. Janz, 2013-06-11 Molten Salts Handbook focuses on the features properties and structure of molten salts This book presents several topics in annotated bibliographic table form including phase equilibria chemical syntheses and molten salt electrolytes Organized into six chapters this book starts with a tabular presentation of data of the physical properties thermodynamic properties electrochemical properties practical features as well as spectroscopy and structure of molten salts This text then illustrates the design features of different experimental assemblies and provides information on the technique through a liberally annotated bibliography Other chapters provide a chemical index which offers a ready guide to the status of data over the entire range of interests This book presents as well the properties of viscosity density surface tension refractive index and electrical conductance for different compounds as single salt melts This book is a valuable resource for scientists and researchers from diverse fields including theoretical and applied electrochemistry inorganic

coordination chemistry and transition metal chemistry Molten Salt Techniques Robert J. Gale, D.G. Lovering, 2013-11-27
This second volume carries on the excellent work of its predecessor extending its scope to other melts and to other techniques It continues to present first hand understanding and experience of this difficult and demanding field There is ever present the trade off or reconciliation between the novel chemistry of systems not dominated by the mediating influence of a supposedly indifferent solvent and the high temperatures required to effect the fluidity of the system At the limit the very high temperatures so increase the rates of all reactions as to dissolve the temporal difference between the thermodynamic and the kinetic view of chemistry What can happen will happen and invariably does happen Vessels corrode the apparatus becomes a reactant and the number of tolerant materials able to withstand the attack shrinks to graphite boron carbide or if all else fails to frozen parts of the molten salt itself It is probably true that there is no limit to man's ingenuity but I believe that God gave us molten salts just to test that thesis If there is ever a Molten Salt Club and Englishmen love clubs its membership will be exclusive It would certainly include the authors of this series Graham Hills University of Strathclyde ix
Preface In the first volume of this series we expressed our contention that a real need existed for practical guidance in the field of molten salt experimentation *Molten Salts* Gleb Mamantov, 1969 *Radioactive Waste Management*, 1996-05
Energy Research Abstracts, 1987 **Nuclear Science Abstracts**, 1957-07 **New Scientist**, 1977 **Molten Salt Chemistry** Milton Blander, 1964 INIS Atomindex, 1987 *Advances in Molten Salt Chemistry* J. Braunstein, Gleb Mamantov, G. P. Smith, 2012-12-06 Molten salts are investigated by very diverse techniques and for differing purposes and the results are reported in widely scattered journals There is a need to keep investigators aware of progress in other specialties and to provide students with source and background material *Advances in Molten Salt Chemistry* hopes to fill these needs by providing reviews of recent progress presented insofar as is reasonable with enough background material and commentary to be comprehensible to a nonspecialist We prefer a discussion of underlying principles to the extent that they are known and we encourage authors to comment critically on the reliability of data the utility of models and the cogency of ideas and theories We take a broad view of the suitability of topics for inclusion in this series Both fundamental and technological advances have a place here as do studies on materials related to molten salts like liquid silicates very concentrated aqueous solutions solutions of salts in liquid metals and solid electrolytes We intend this series to serve the needs of those who investigate or use molten salts We welcome suggestions of topics and suitable authors as well as comments on the strengths and shortcomings of what is published *Molten Salt Chemistry and Technology* M. Chemla, D. Devilliers, Matthias Vogler, 1991-01-01 Proceeding of the 3rd International Symposium on Molten Salt Chemistry and Technology Paris France July 1991 **U.S. Government Research and Development Reports**, 1965

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