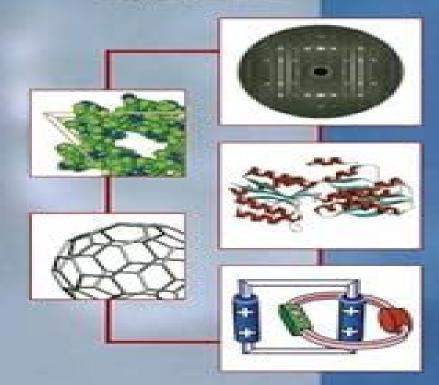
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Vincenzo Balzani, Alberto Credi, Margherita Venturi

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science engineering and technology Audience Researchers industry scientists and engineers academics and postgraduate students working in the fields of materials chemistry applied chemistry nanotechnology chemical technology polymer science Fundamentals and Applications of Anion Separations Bruce A. Moyer, Raj P. and engineering and industrial chemistry Singh, 2011-06-27 This book documents the proceedings of the symposium Fundamentals and Applications of Anion Separations held during American Chemical Society National Meeting in Chicago Illinois August 25 30 2001 Nearly 40 papers devoted to discussions on anion separation related to fundamental research and applications were presented The symposium sponsored by Osram Sylvania BetzDearbom and the Separation Science Technology Subdivision of the Industrial Engineering Chemistry Division of the American Chemical Society was organized by Bruce A Moyer Chemical Sciences Division Oak Ridge National Laboratory P O Box 2008 Building 4500S Oak Ridge TN 37831 6119 and Raj P Singh Chemicals and Powders R D Osram Sylvania Chemical and Metallurgical Products Division Towanda PA 18848 It drew presenters from Australia the Czech Republic France Germany Japan South Africa Thailand the United Kingdom and the United States Separations constitute an integral part of chemical industry Chemical products typically originate in resources that must be concentrated and purified chemically transformed and subjected to fmal purification Effluent streams from the processes must be treated to recycle reusable components and to remove environmentally harmful species Some industrial processes are devoted to environmental cleanup after pollution has occurred In addition many analytical methods require a separation for preconcentration or a separation may be an inherent part of the analysis itself Micro separations occurring at membranes or interfaces are also related phenomena employed for ion sensing Many species targeted for separation are naturally anionic Although the standard separations techniques of extraction ion exchange adsorption precipitation etc Materials IV Abdel Sayari, Mietek Jaroniec, 2005-05-04 Nanoporous Materials IV contains the invited lectures and peer reviewed oral and poster contributions to be presented at the 4th International Symposium on Nanoporous Materials which will be hosted in Niagara Falls Ontario Canada June 7 10 2005 This volume covers complementary approaches to and recent advances in the field of nanostructured materials with pore sizes larger than 1nm such as periodic mesoporous molecular sieves e q MCM 41 and SBA 15 and related materials including clays ordered mesoporous carbons colloidal crystal templated materials porous polymers and sol gels The broad range of topics covered in relation to the synthesis and characterization of ordered mesoporous materials are of great importance for advanced adsorption catalytic separation and environmental processes as well as for the development of nanotechnology This volume contains over 120 contributions related to the synthesis of ordered mesoporous silicas organosilicas nonsiliceous inorganic materials carbons polymers and related materials their characterization and applications in adsorption catalysis and environmental clean up Unique contributions brings readers up to date on new research and application developments Figures and tables supplement comprehensive topics Extensive author and subject index The Software Encyclopedia ,1986

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