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$\text{S}(\text{O})_2\text{CF}_3$

$\text{R}_1\text{S}^+(\text{R}_2\text{R}_3)$

Cl^-

$\text{R}_1\text{N}^+(\text{R}_2)_2$

HCO_2^-

PF_6^-

$\text{R}_1\text{P}^+(\text{R}_2\text{R}_3\text{R}_4)$

$\text{MeO}-\text{S}(=\text{O})(=\text{O})-\text{O}^-$

BF_4^-

${}^{19}\text{F}$

${}^{29}\text{Si}$

$(\text{RO})_2\text{PO}_4^-$

$\text{R}_1\text{N}=\text{C}=\text{N}^+\text{R}_2$

NO_3^-

$\text{R}_1\text{N}^+(\text{R}_2)_2$

Br^-

H_2PO_4^-

$\text{R}_1\text{N}^+(\text{R}_2\text{R}_3\text{R}_4)$

15 nm

5 nm

Jonic Liquids

and their use for
chemical synthesis



Foreword

- Ionic Liquids in Chemical Synthesis – Progress and Advantages as Compared to Conventional Solvents
C. FELDMANN 1057

Review

- Ionic Liquids for the Synthesis and Stabilization of Metal Nanoparticles
C. JANIAK 1059

Original Communications

- [SbCl₂(η^2 -1,4-dt)(μ_2 -1,4-dt)][AlCl₄]: Ionic Liquid-based Synthesis of a Stibenium Cation (dt = dithiane)
D. FREUDENMANN and C. FELDMANN 1090

- Ionic Liquids Based on Hexachloridometalate(V) Anions (Sb, Nb and Ta) and Nitrile-functionalized Pyridinium Cations
T. XIE, Z. GUAN, N.-P. POOK, and M. GJIKAJ 1095

- [HMIM][Br₉]: a Room-temperature Ionic Liquid Based on a Polybromide Anion
H. HALLER, M. HOG, F. SCHOLZ, H. SCHERER, I. KROSSING, and S. RIEDEL 1103

- Substitution of Conventional High-temperature Syntheses of Inorganic Compounds by Near-room-temperature Syntheses in Ionic Liquids
M. F. GROH, U. MÜLLER, E. AHMED, A. ROTENBERGER, and M. RUCK 1108

- BIONic Liquids: Imidazolium-based Ionic Liquids with Antimicrobial Activity

- F. POSTLEB, D. STEFANIK, H. SEIFERT, and R. GIERNOTH 1123

- Surface-active Ionic Liquids for Micellar Extraction of Piperine from Black Pepper

- A. K. RESSMANN, R. ZIRBS, M. PRESSLER, P. GAERTNER, and K. BICA 1129

- Epoxidation of Olefins Catalyzed by Polyoxomolybdates Formed *in-situ* in Ionic Liquids

- L. R. GRASER, S. JÜRGENS, M. E. WILHELM, M. COKOJA, W. A. HERRMANN, and F. E. KÜHN 1138

- The Differential Capacitance of Ionic Liquid | Metal Electrode Interfaces – A Critical Comparison of Experimental Results with Theoretical Predictions

- J. WALLAUER, M. DRÜSCHLER, B. HUBER, and B. ROLING 1143

- Synthesis and Sorption Analysis of Task-specific Fluorous Ionic Liquids

- V. ADAMER, G. LAUS, U. J. GRIESSEMER, and H. SCHOTTENBERGER 1154

- Ionogel Fiber Mats: Functional Materials *via* Electrospinning of PMMA and the Ionic Liquid Bis(1-butyl-3-methyl-imidazolium) Tetrachloridocuprate(II), [Bmim]₂[CuCl₄]

- C. BAGDAHN and A. TAUBERT 1163