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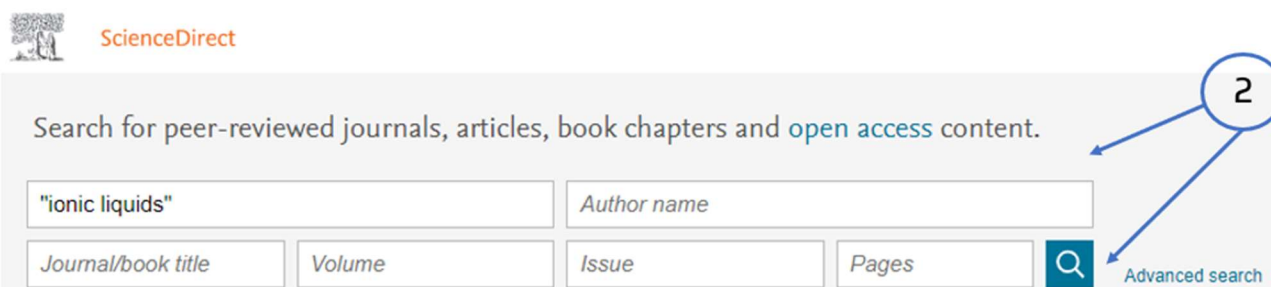
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Physicochemical and solution properties of quaternary-ammonium-salt-type amphiphilic gemini ionic liquids with spacers containing oxygen or nitrogen
Colloids and Surfaces A: Physicochemical and Engineering Aspects, Volume 603, 20 October 2020, Article 125218
Risa Kawai, Maiko Niki, Shiho Yada, Tomokazu Yoshimura

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Electrochemical stability on 1-ethyl-3-methylimidazolium bis (trifluoromethyl sulfonyl) imide ionic liquid for dye sensitized solar cell application
Journal of Molecular Liquids, Volume 323, 1 September 2020, Article 113594
Muhammad-Alif Lohmoh, Mohd Dzul Hakim Wirzal, Nur Syakinah Abd Halim, Muhammad Syaamil Saad, Choi Yee Foong

3c

The usage of ionic liquids has recently become a promising alternative for replacement of conventional volatile organic-based electrolyte for Dye Sensitized Solar Cells (DSSCs) due to its electrochemical stability, high conductivity and low vapor pressure. However, degradation of ionic liquid concentration is one of the major concerns which affect the efficiency of DSSCs. By using electro-oxidation method, this research aimed to evaluate the degradation of 1-Ethyl-3-Methylimidazolium bis (trifluoromethyl sulfonyl) imide [EMIM][N(Tf)₂] ionic liquid by analyzing the change of concentration with respect to high voltage differences (i.e., 1 V, 2 V, 4 V, 6 V, 8 V and 10 V). FT-IR result shows that there is slight degradation in the concentration amount of [EMIM][N(Tf)₂] ionic liquid which is almost negligible and there is no change in spectrum as well as functional group when compared with standard curve of [EMIM][N(Tf)₂] ionic liquid from 1 V to 10 V. Apart from that, the degradation percentage of each voltage at 60 min are 8.48%, 7.90%, 3.82%, 6.08%, 3.51% and 2.86%, respectively. The highest Iron (Fe) amount was 224.45 ppm at the condition of

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Resultados

The screenshot shows the article page for "Quinine based ionic liquids: A tonic for base instability" in the Journal of Molecular Liquids. The page includes a navigation menu on the left, a main content area with author information and abstract, and a right sidebar with recommended articles and metrics. Five callouts (4a-4e) point to specific features: 4a points to the journal logo, 4b to the authors, 4c to the outline, 4d to the recommended articles, and 4e to the highlights section.

4a: Journal of Molecular Liquids logo

4b: Authors: Peter McNeice^a, Federico M.F. Vallana^a, Simon J. Coles^b, Peter N. Horton^b, Patricia C. Marr^a, Kenneth R. Seddon^{a,1}, Andrew C. Marr^{a,2}✉

4c: Outline (1-4. Conclusions)

4d: Recommended articles

4e: Highlights

- Six quinine ionic liquids have been prepared.
- Solving the crystal structure gave information on hydrogen bonding and ion stacking.
- The effect of intermolecular forces on stability and physical properties is discussed.
- Hammett basicity of the ionic liquids was analysed.
- Ionic liquids are efficient basic catalysts for a Knoevenagel condensation.

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Journal of Molecular Liquids 297 (2020) 111773

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Journal of Molecular Liquids

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Quinine based ionic liquids: A tonic for base instability

Peter McNeice^a, Federico M.F. Vallana^a, Simon J. Coles^b, Peter N. Horton^b, Patricia C. Marr^a, Kenneth R. Seddon^{a,1}, Andrew C. Marr^{a,*}

^a School of Chemistry and Chemical Engineering, The Queen's University of Belfast, The David Keir Building, Stranmillis Road, Belfast, BT9 5AG, United Kingdom
^b National Crystallography Service, School of Chemistry, University of Southampton, Southampton, SO17 1BJ, United Kingdom

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ABSTRACT

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Keywords:
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Six basic ionic liquids were synthesised from the natural molecule quinine, including one room temperature ionic liquid. The thermal properties were studied and the basicity analysed by Hammett measurements. The properties are discussed in relation to the crystal structure of one of the salts, [C₆Qn][NTf₂] (2c) and electron density models generated using Spartan. The ionic liquids were shown to catalyse the Knoevenagel condensation of Malononitrile and Benzaldehyde.

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