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Separation of racemic compound by nanofibrous composite ...

The Department of Membrane Separation Processes has been focused on the separation of various gaseous mixtures. Primarily, a raw biogas is used as the source of the alternative fuel - CNG. Since 2017, the research has also focused on the separation of hydrogen in cooperation with the Institute of Physical

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Chemistry at the University of Chemistry and Technology Prague.

Comparison of Cyanex 272 and Cyanex 572 for the separation ...

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Comparison of Cyanex 272 and Cyanex 572 for the separation of Neodymium from a Nd/Tb/Dy mixture by pertraction Author: Pavon, Sandra, Kutucu, Merve, Coll, M Teresa, Fortuny, Agustin, Sastre, Ana M Source: Journal of chemical technology and biotechnology 2018 v.93 no.8 pp. 2152-2159 ISSN:

Selective Separation of Carboxylic Acids Obtained by

...

The pertraction efficiency could be significantly enhanced by adding one or more carriers in liquid membrane, such as organophosphoric compounds, long chain amines or crown-ethers, the separation process being called facilitated pertraction (for one carrier) or synergetic pertraction (for mixture of carriers or solvents inducing

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Based

BACKGROUND. Recovering Nd(III) from waste magnets is an alternative method to satisfy the increasing demand for this metal. For this reason, the separation of Nd from a mixture containing Nd/Tb/Dy in chloride media using Cyanex 272 and Cyanex 572 has been evaluated.

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This article describes facilitated pertraction has been used for selective separation of citric, malic, and succinic acids from a mixture. The separation equipment included a U-shaped cell ...

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CiteSeerX - Document Details (Isaac Council, Lee Giles, Pradeep Teregowda): Extractive methods of separation in two or three phase systems are widely studied for the separation of liquid solutions. Classical solvent extraction is based on partitioning of components between two immiscible or partially

(PDF) Separation of Amino Acids from Their Mixture by ...

In this context, the separation of some amino acids of acidic character (L-aspartic acid, L-glutamic acid), basic character (L-histidine, L-lysine, L-arginine) or neutral character (L-glycine, L-tryptophan, L-cysteine, L-alanine) from their mixtures obtained either by fermentation or protein hydrolysis using the facilitated pertraction with D2EHPA in dichloromethane has been analyzed (Blaga et ...

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EP1299175A1 - Separation of fluid mixtures using ... Separation of Toluene and n-Heptane through Emulsion Liquid Membranes Containing Ag<sup>+</sup> as Carrier. Chemical Engineering & Technology 2005, 28 (12) , 1518-1524. DOI: 10.1002/ceat.200500239. Su Jin Kim, Sang Chai Kim. Separation of Valuable Bicyclic Aromatic Components from Light Cycle Oil by an Emulsion Liquid Membrane.

Separation of rosmarinic acid by facilitated pertraction ...

The separation of racemic mixtures from liquid phases by pertraction, using adsorption-enantioselective membranes is discussed in the paper. Its principle of pertraction is similar to that of LLEx: the feed mixture and extraction agent are in direct contact, and the separation process is based on the solubility/affinity of the substance in both phases.

CiteSeerX — SEPARATION OF MIXTURES BY PERTRACTION OR ...

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Subject: Separation Of Mixtures By Pertraction Or Membrane Based Keywords: separation, of, mixtures, by, pertraction, or, membrane, based Created Date: 10/27/2020 6:59:47 AM

Membrane Separation Processes 1. Classification of ... Optimal experimental conditions for MB pertraction (permeability of  $5.63 \times 10^{-6}$ ) were obtained after a 7 h separation with the MB concentration in the feed

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phase of 80 mg L<sup>-1</sup>, D2EHPA/M2EHPA concentration in membrane phase of 40 vol. %, feed pH of 6, and acetic acid concentration in the stripping phase of 0.4 mol L<sup>-1</sup>.

### Separation of Hydrocarbons by Liquid Membrane Permeation ...

The experiments have been carried out using the pertraction equipment that allows obtaining and easily maintaining the solvent layer between the two aqueous phases (free liquid membrane) (Galaction et al., 2008). The pertraction cell consists on a U-shaped glass pipe having an inner diameter of 45 mm and a total volume of 450 ml (the volume of each compartment being of 150 ml).

### Pertraction of methylene blue using a mixture of D2EHPA ...

Formic, acetic, and succinic acids have been selectively separated from their mixture obtained by *A. succinogenes* fermentation using facilitated pertraction with tri-n-octylamine (TOA). This technique allows recovering formic and acetic acids from the mixture, the feed phase raffinate containing only succinic acid. The pH-gradient between the feed and stripping phases, carrier concentration in ...

### Department of Membrane Separation Processes | Ústav ...

Membrane Separation Processes Membrane separations represent a new type of unit ... the dialysis process is called pertraction. In practice dialysis is used to separate species that differ appreciably in size, ... When a mixture of gases is

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present, the permeability of an individual component may be reduced by up to 10%.

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