

عنوان مقاله:

Absorption properties of zeolite for Bio-Artificial kidney

محل انتشار:

همایش بین المللی ژئولیت ایران (سال: 1387)

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خلاصه مقاله:

Zeolite are crystalline, hydrated aluminosilicates of alkali and alkaline earth cations, having threedimensional structures interconnecting channels and large voids capable of trapping molecules of proper dimensions. The basis of interest in the biological effect of zeolites concerns one or more of their physical and chemical properties, such as ion exchange capacity, absorption and related molecular sieve properties. Renal failure is a syndrome where the kidneys do not fulfill their function. A method of removing of uremic toxins such as urea, uric acid, creatinine, p-cresol and indoxyl sulfate from solutions is absorption onto zeolites and this material is easily dialyzed out. The aim of this review is to introduce the application of zeolite for artificial kidney and absorption property of this material for eliminating uremic toxins.

کلمات کلیدی:

zeolite, molecular sieve, artificial kidney, renal failure, uremic toxin

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