Silicon air batteries (Technion)

code: CHM-1084

New metal-air batteries based on a silicon (Si) anode yield a capacity four times that of conventional Zn-air batteries. We have solved the low conductivity problem of Si by using highly doped and metalized silicon. The novelty in this method is the use of a semiconductor such as Si for generation of energy. It is accomplished by utilizing silica as the reaction product with oxygen and a particular ionic liquid as electrolyte.

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