are dramatically different from those of other metal foams currently being produced, there are sure to be many other interesting discoveries as more applications are investigated.

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This research recently won an *R&D Magazine* 2005 R&D 100 Award. This award program, which each year recognizes the world's top 100 scientific and technological advances, is designed to honor significant commercial promise in products, materials, or processes developed by the international research and development community.

What are transition metals?

The elements in the periodic table are often divided into four categories: main group elements, transition metals, lanthanides, and actinides. The main group elements include the active metals in the two columns on the extreme left of the table and the metals, semimetals (metalloids), and nonmetals in the six columns on the far right.

The transition metals, or transition elements, are the metallic elements in the columns in the center of the table, forming a bridge or transition between the active metals on the left and the elements on the right.

Lanthanides and actinides are usually shown in two rows below the main table; they are sometimes called the inner transition metals because their atomic numbers fall between the first and second elements in the last two rows of the transition metals (after lanthanum and actinium, respectively).

