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Discovery and history. Although the rare

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earths have been around since the formation of Earth, their existence did not come to light until the late 18th century. In 1787 the Swedish army lieutenant Carl Axel Arrhenius discovered a unique black mineral in a small quarry in Ytterby (a small town near Stockholm). That mineral was a mixture of rare earths, and the first

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James's work with the rare earths is part
of a long history that illuminates more

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areas of chemical progress than does any other group of elements. It stretches from the discovery of the first rare earth mineral in 1787 by Carl Axel Arrhenius to the unequivocal identification of the last in 1947 by Jacob Marinsky, Lawrence Glendenin and Charles Coryell.

Separation of Rare Earth Elements -

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earth minerals in carbonatites.

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The mining of rare-earth minerals was at one time dominated by the United States. China has since come to dominate the market. In response to the Chinese supply instability, Japan tried to

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cut its dependency on China by importing from Vietnam and other countries. References. Jones, Adrian P., Francis Wall and C. Terry Williams, eds. (1996) Rare Earth Minerals: Chemistry, Origin and Ore ...

Rare-earth mineral - Wikipedia

A rare-earth element (REE) or rare-earth

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metal (REM), as defined by the International Union of Pure and Applied Chemistry, is one of a set of seventeen chemical elements in the periodic table, specifically the fifteen lanthanides, as well as scandium and yttrium. Scandium and yttrium are considered rare-earth elements because they tend to occur in the same ore deposits as the

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lanthanides and ...

Rare-earth element - Wikipedia

Rare Earth Element Production: This chart shows a history of rare earth element production, in metric tons of rare earth oxide equivalent, between 1950 and 2018. It clearly shows the United States' entry into the market in

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the mid-1960s when color television
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REE - Rare Earth Elements - Metals, Minerals, Mining, Uses

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properties—which make them very useful when alloyed, or mixed, in small quantities with more ...

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The rare earths share many common properties. This makes them difficult to separate or even distinguish from each

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other. There are very small differences in solubility and complex formation between the rare earths. The rare earth metals naturally occur together in minerals (e.g., monazite is a mixed rare earth phosphate).

What Are the Properties of the Rare Earth Elements?

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From coal, a new source of rare earths - C&EN | Chemistry ...

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the process of extracting them has
serious health and environmental
impacts.

Rare Earth Elements: The Intersection of Science and ...

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Minerals: Chemistry, Origin and ...**

The name rare earth has its origins in the history of the discovery of these elements. They are never found as free metals in the Earth's crust and pure minerals of individual rare earths do not exist. They are found as oxides which have proved to be particularly difficult to

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separate from each other, especially to
18th and 19th Century chemists.

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