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web a central feature of lanthanide chemistry is the strongly ionic character of the bonding between lanthanide cations and other atoms as a result of this ionicity they can be classified as hard strongly acidic cations this hard acid nature is evident whether we consider the bonds between lanthanide cations with oxygen nitrogen or halogen

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web to separate the lanthanides from other elements occurring with them they are chemically combined with specific substances to form lanthanide compounds with low solubility oxalates and fluorides for example a process known as ion exchange is then used to separate the lanthanides from each other in this process a solution of the

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