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The degree of

aggregation of neutral,

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9-coordinate rare earth
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complexes has been
shown to affect their
ligand field, as
revealed by

diffusion-ordered NMR
spectroscopy
(DOSY-NMR)

measurements on Y(III)
complexes,

paramagnetic NMR
analyses of Yb and Tb
analogues and

emission spectral
studies with the Eu III
systems. In non-polar

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media a lipophilic
tris-isopropyl complex

Byhuang

**Aggregation of Rare
Earth Coordination
... - Chemistry
Europe**

A series of rare earth coordination polymers, $M(\text{BTC})(\text{DMF})(\text{DMSO})$ ($M = \text{Tb}$ (1), Ho (2), Er (3), Yb (4), Y (5)), with zeolite ABW topology have been synthesized under mild conditions. They exhibit the same

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three-dimensional (3D)

architecture and

crystallize in

monoclinic symmetry

space group P21/n.

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Polymers with

Zeolite Topology ...

(2) Rare earth

metal-carbon binary

compounds, such as

metal-arene

complexes,

metal-fullerene

complexes, and metal

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Chemistry; (3) Redox

chemistry of f-

elements and its

applications in small

molecule activation

and catalysis; (4)

Applications of rare

earth metal complexes

in bioimaging and

medical imaging.

Research - HUANG GROUP

The chemistry of rare earths is fundamental to an understanding of

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Chemistry

Buku
the role of rare earths
as corrosion inhibitors
and to the preparation
of effective rare earth-
containing inhibitors.

This chapter defines
rare earth elements
and their place in the
Periodic Table,
including electronic
configurations,
oxidation states and
the lanthanoid
contraction, their
discovery, location and
abundance, and their
uses other than as

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**The chemistry of
rare earth metals,
compounds, and ...**

In the series of
rare-earth bis
(amidinate)amido and
borohydrido complexes
[Bu t C (NC 6 H 4
-2-OMe) 2] 2 Ln (X) (X
= N (SiMe 3) 2, BH 4;
Ln = Y, Nd) in the
crystalline state, the
amidinate ligands
exhibit diverse (κ 2
-NN, κ 3 -NNO and κ 4

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**Rare-Earth Amido
and Borohydrido
Complexes**

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Nief F (2010) Molecular chemistry of the rare-earth elements in uncommon low-valent States, Ch 246. In: Gschneidner KA Jr, Bünzli J-CG, Pecharsky VK (eds) Handbook on the physics and chemistry of rare

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earth, vol 40. Elsevier

Science B.V,

Amsterdam, pp

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**Lanthanides,
Physical and
Chemical
Characteristics ...**

In August 2017, after studying abroad for nine years, he came back to his alma mater and joined the faculty of College of Chemistry and Molecular

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Engineering at Peking

University. He

established the

research group of

Coordination Chemistry

of f-Elements (CCFE) in

the State Key

Laboratory of Rare

Earth Materials

Chemistry and

Applications.

Professor - HUANG GROUP

Edited by a highly
regarded scientist and
with contributions from

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sixteen international research groups, spanning Asia and North America, Rare Earth Coordination Chemistry: Fundamentals and Applications provides the first one-stop reference resource for important accomplishments in the area of rare earth.

Rare earth coordination chemistry ;

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fundamentals and ...

In the area of rare-earth metal chemistry, Huang and coworkers reported the reaction

of $\text{Li}(\text{Me NNN})$ with YCl_3 to furnish the

ditytrium cluster, $[\text{Y}_2\text{Cl}_4(\mu\text{-Cl})_2(\text{Me NNN})_2 \cdot \text{Li}_2(\text{OEt})_4]$ (15).

24 Whereas compound

15 was found to display no activity

toward polymerization of ϵ -caprolactone, the

lithium salt, $\text{Li}(\text{Me}$

$\text{NNN})$, actually ...

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**Pincer ligands
incorporating
pyrrolyl units:
Versatile ...**

With the recent advances in the f-element coordination chemistry, ... A. & Spedding, F. H. The coordination (hydration) of rare-earth ions in aqueous chloride solutions from X-ray diffraction. 3. ...

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**separations by
selective borate
crystallization ...**

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Fundamentals and Applications provides the first one-stop reference resource for important accomplishments in the area of rare earth.

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Consisting of two parts, Fundamentals and Applications, readers are armed with the systematic basic aspects of rare earth coordination chemistry and presented with the latest developments ...

**Rare Earth
Coordination
Chemistry:
Fundamentals and**

...

Thermodynamics of
Selected Aqueous Rare-

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Earth Elements

Containing Triflate

Salts at T=(288.15,
298.15, 313.15 and

328.15) K and p=0.1

MPa. Journal of Solution
Chemistry 2007 , 36

(11-12) , 1679-1726.

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