

## 目 次

La<sub>15-x</sub>Nd<sub>x</sub>Fe<sub>14</sub>Ni<sub>64</sub>Mn<sub>5</sub>B<sub>2</sub>(x=0~6)储氢合金的结构和电化学性能 ..... 张秀飞,李宝犬,李 金,等(1)

[RE(pic)L](pic)<sub>2</sub>·6H<sub>2</sub>O 的合成、荧光性质及与 DNA 作用方式初探 ..... 王丽娟,杨天林,杨欢春(6)

CaO-SiO<sub>2</sub>-B<sub>2</sub>O<sub>3</sub>:Eu<sup>3+</sup>、Bi<sup>3+</sup>玻璃中的敏化发光及其敏化机理的研究 ... 石鹏途,成益民,熊晓魁,等(12)

新型钐、镝三元配合物的合成、发光性能及理论研究 ..... 高赛生态,刘兴旺,王 丽,等(17)

共沉淀-喷雾干燥法制备钴酸镧催化剂 ..... 张旭霞,许延辉,崔建国,等(22)

碳酸盐沉淀法制备超细氧化铈的研究 ..... 柳召刚,李 梅,史振学,等(27)

皖北灵璧地区新元古代灰岩的稀土元素特征 ..... 孙林华,桂和荣,贺振宇(32)

Zn-Al 多元共晶合金镀层助镀工艺及耐蚀性研究 ..... 周衡志,李子全,张 翔(41)

稀土厂氨氮废水的处理及资源化利用研究 ..... 王美荣,贾怀杰,郝 茜(46)

脱氮剂去除稀土废水氨氮的研究 ..... 简放陵,吴凯丽,谢 勇(52)

偶氮类显色剂用于含稀土磷矿石中稀土含量测定 ..... 文 伟,张 章,解 田,等(56)

草酸盐重量法测定镉铁合金中稀土总量 ..... 高励珍,张立峰,崔爱端(61)

## 综合评述

添加元素在钕铁硼复相纳米永磁材料中的作用 ..... 刘树峰,赵明静,刘国征,等(67)

稀土在耐热钢高温氧化中的作用机制 ..... 杜晓建,王龙妹,刘 晓,等(73)

## 研究简报

灼烧温度对镨钕二元氧化物比表面积、密度影响的研究 ..... 李慧琴,刘海旺,张瑞祥,等(78)

制备条件对超细 Ce<sub>2</sub>Zr<sub>1-x</sub>O<sub>2</sub> 固溶体分散性的影响 ..... 郭瑞华,刘铃声,郭军平,等(81)

喷打用 Ce<sub>1-x</sub>Pr<sub>x</sub>O<sub>2</sub> 红色陶瓷装饰墨水呈色性能研究 ..... 吴小琴,罗晓平,陈同彩(85)

La 掺杂对 TiO<sub>2</sub> 光催化剂的影响 ..... 徐世华,沈凤雷(89)

## 产业与市场

我国稀土产业现状及发展趋势(下) ..... 周 喜,韩晓英(93)

包头稀土研究院“新型稀土红色长余辉发光材料的研制”通过鉴定 ..... 中国稀土网站(5)

《稀土》杂志投稿须知 ..... 中国稀土学会《稀土》编辑部(45)

包钢(集团)公司一新产品填补国内空白 ..... 中国稀土网站(51)

“新型 GaN 基 LED 荧光衬底”项目通过验收 ..... 中国科学院上海光学精密机械研究所网(60)

我国汽车尾气减排技术取得重大性突破 ..... 中国稀土网站(66)

《稀土生物无机化学》(第二版)等书有售 ..... (77)

福建物质结构研究所两项重点项目通过专家验收 ..... 中国科学院福建物质结构研究所网(84)



---



---

## Contents

Structural and Electrochemical Properties of $\text{La}_{15-x}\text{Nd}_x\text{Fe}_{14}\text{Ni}_{64}\text{Mn}_3\text{B}_2$ ( $x=0\sim 6$ )	
Hydrogen Storage Alloys .....	ZHANG Xiu-fei, et al. ( 1 )
Synthesis, Fluorescence Property and Preliminary DNA – binding	
Studies of $[\text{RE}(\text{pic})\text{L}](\text{pic})_2 \cdot 6\text{H}_2\text{O}$ .....	WANG Li-juan, et al. ( 6 )
Study on the Sensitized Luminescence and the Sensitizing Mechanism in	
$\text{CaO} - \text{SiO}_2 - \text{B}_2\text{O}_3$ : $\text{Eu}^{3+}$ 、 $\text{Bi}^{3+}$ Glasses .....	SHI Peng-tu, et al. ( 12 )
Synthesis, Luminescent Properties and Theoretical Study of Novel	
Ternary Samarium(III) and Dysprosium(III) Complexes .....	GAO Sai-shengtai, et al. ( 17 )
Preparation of $\text{LaCoO}_3$ Catalyzer by Coprecipitation – spray Drying Method .....	ZHANG Xue-xia, et al. ( 22 )
Synthesis of Ultrafine Cerium Oxide by Carbonate Precipitation Method .....	LIU Zhao-gang, et al. ( 27 )
Rare earth element Characteristics of the Neoproterozoic Limestones in	
Lingbi District, Northern Anhui Province .....	SUN Lin-hua, et al. ( 32 )
Research on the Fluxes and Corrosion Resistance of Hot Dipping	
$\text{Zn} - \text{Al}$ Base Multi – element Eutectic Alloy .....	ZHOU Heng-zhi, et al. ( 41 )
Studies on the Processing and Recycling of Ammonia – nitrogen Wastewater	
from Rare Earths Factories .....	WANG Mei-rong, et al. ( 46 )
Research on Removal of $\text{NH}_3 - \text{N}$ from Rare Earth Wastewater .....	JIAN Fang-ling, et al. ( 52 )
Determination of RE Content in Phosphate Ores Bearing Rare Earth with Azo Reagents .....	WEN wei, et al. ( 56 )
Determination of Total Rare Earth Content in Dy – Fe Alloy	
with Oxalate Gravimetric Method .....	GAO Li-zhen, et al. ( 61 )
Functions of Additional Elements in NdFeB Multiphase Nanocomposite Material .....	LIU Shu-feng, et al. ( 67 )
Effect of RE on High Temperature Oxidation of Heat Resistant Steel .....	DU Xiao-jian, et al. ( 73 )
Effects of Calcination Temperature on Specific Surface Area and Density	
of Pr – Nd Binary Oxides .....	LI Hui-qin, et al. ( 78 )
Influence of Preparation Condition on Dispersion of Ultrafine	
$\text{Ce}_x\text{Zr}_{1-x}\text{O}_2$ Solid Solution .....	GUO Rui-hua, et al. ( 81 )
Study on Chromatic Performance of $\text{Ce}_{1-x}\text{Pr}_x\text{O}_2$ Red Surface Decorate	
Ceramic Ink for Ink – Jet Printing .....	WU xiao-qin, et al. ( 85 )
Effect of Lanthanum on Structure and Photo Absorption Performance of $\text{TiO}_2$ Photocatalyst .....	XU Shi-hua, et al. ( 89 )