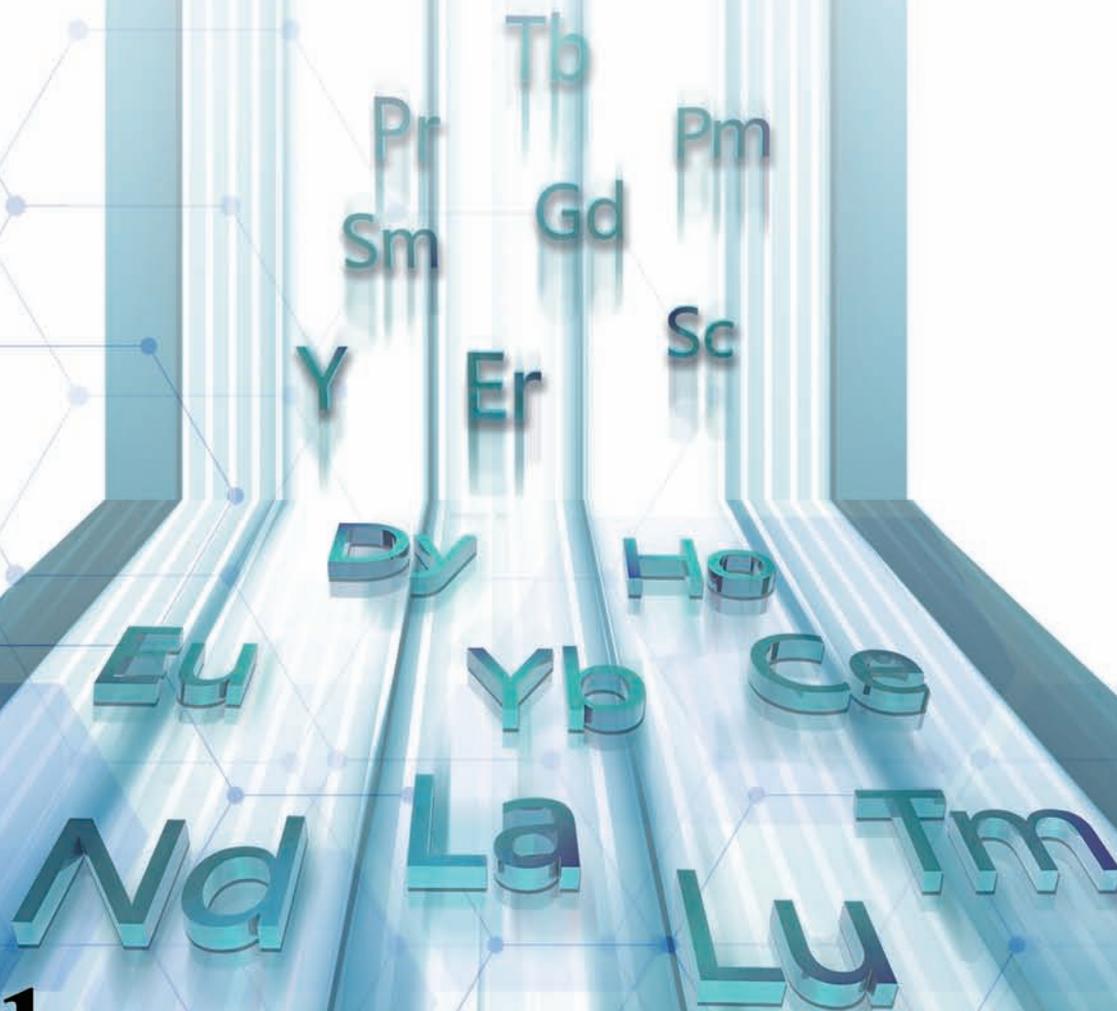




中国稀土学报

JOURNAL OF THE CHINESE SOCIETY OF RARE EARTHS

徐光宪院士诞辰一百周年纪念专辑 (I)



2021
第39卷 **1**

ISSN 1000-4343



9 771000 434218

万方数据

徐光宪院士诞辰一百周年纪念专辑 (I)

目 次

综合评述

钙钛矿型稀土氧化物的合成及其能源转化储存应用研究进展	翁 政, 郭林川, 魏贻成, 刘洛华, 席聘贤*, 严纯华*	1
局域结构依赖的稀土上转换发光	付虎辉, 刘永升*, 洪茂椿*	24
稀土掺杂无机纳米晶及其时间分辨荧光生物检测应用	张 文, 黄 萍, 委娇娇, 郑 伟*, 陈学元*	35
d-f 跃迁发光稀土配合物研究进展	方培玉, 霍培昊, 刘志伟*, 黄岩谊, 卞祖强, 黄春辉	58
稀土发光配合物在水溶液中的组装及生物成像研究	苏平如, 王 涛, 唐 瑜*	77
稀土铈、铽配合物在温度发光传感领域的研究进展	杨永晟, 王克志, 赵 震, 闫东鹏*	88
稀土金属-有机框架在同分异构体传感材料中的应用	韩宗甦, 师 唯*, 程 鹏	110
稀土超分子配合物研究进展	杨倩倩, 李晓磊, 唐金魁*	128
稀土金属-金属键的构筑策略	施开赢, 方 蔚, 朱从青*	143
稀土金属在不对称催化中的应用: 从均相催化到异相催化	袁晨悦, 张亚文*	153
稀土金属催化的碳氢官能团化反应	苏健洪, 徐 信*	171

稀土新材料

NaYF ₄ :Nd ³⁺ , Yb ³⁺ 纳米粒子用于生物体系温度测量	徐心成, 顾昱颀, 孔梦涯, 冯 玮*, 李富友*	181
高核稀土-氧簇 Ln ₁₀ 的组装、结构与磁性研究	郑秀英, 孔祥建*, 龙腊生*, 郑兰荪	188

* 通讯联系人

欢迎浏览: <http://www.re-journal.com> 网站

Journal of the Chinese Society of Rare Earths

Volume 39 Number 1 February 2021

Contents

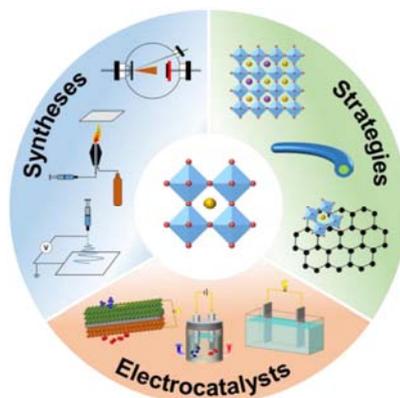
Progress of Synthesis of Rare-Earth Perovskite Oxides and Their Application in Energy Conversion and Storage	Weng Zheng et al.	1
Local-Structure-Dependent Upconversion Luminescence in Lanthanide-Doped Nanocrystals	Fu Huhui et al.	24
Lanthanide-Doped Inorganic Luminescent Nanocrystals and Their Application for Time-Resolved Luminescent Biodetection	Zhang Wen et al.	35
Research Progress of d-f Transition Based Luminescent Rare Earth Complexes	Fang Peiyu et al.	58
Assembly and Bioimaging of Rare-Earth Luminescent Complexes in Aqueous Solution	Su Pingru et al.	77
Research Progress of Europium or Terbium Complexes in Field of Thermo-Sensitive Luminescence	Yang Yongsheng et al.	88
Applications of Rare Earth Metal-Organic Frameworks as Sensors for Isomer Detection	Han Zongsu et al.	110
Progress on Rare-Earth Supramolecular Complexes	Yang Qianqian et al.	128
Recent Progress in Construction of Rare-Earth Metal-Metal Bonds	Shi Kaiying et al.	143
Application of Rare Earth Metals in Asymmetric Catalysis; from Homogeneous Catalysis to Heterogeneous Catalysis	Yuan Chenyue et al.	153
Rare-Earth Metal-Catalyzed C-H Functionalization	Su Jianhong et al.	171
NaYF ₄ :Nd ³⁺ , Yb ³⁺ Nanocrystals for Temperature Measurement in Biological Environment	Xu Xincheng et al.	181
Assembly, Structure and Magnetic Properties of High-Nuclearity Lanthanide-Oxo Cluster Ln ₁₀	Zheng Xiuying et al.	188

目录

综合评述

- 1 钙钛矿型稀土氧化物的合成及其能源转化
储存应用研究进展

翁政, 郭林川, 魏贻成, 刘洛华,
席聘贤*, 严纯华*

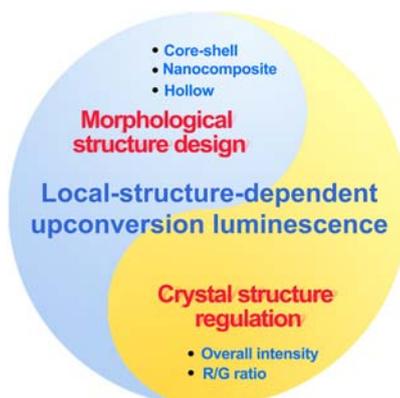


Schematic of synthesis, adjustments, and energy conversion and storage applications of rare-earth perovskite oxides

中国稀土学报, 2021, 39(1): 1-23

- 24 局域结构依赖的稀土上转换发光

付虎辉, 刘永升*, 洪茂椿*

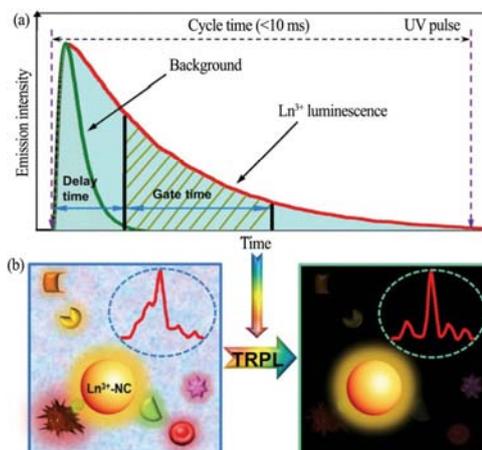


This review overviews recent advances on local-structure-dependent upconversion luminescence in lanthanide-doped inorganic nanocrystals

中国稀土学报, 2021, 39(1): 24-34

- 35 稀土掺杂无机纳米晶及其时间分辨荧光生物检测应用

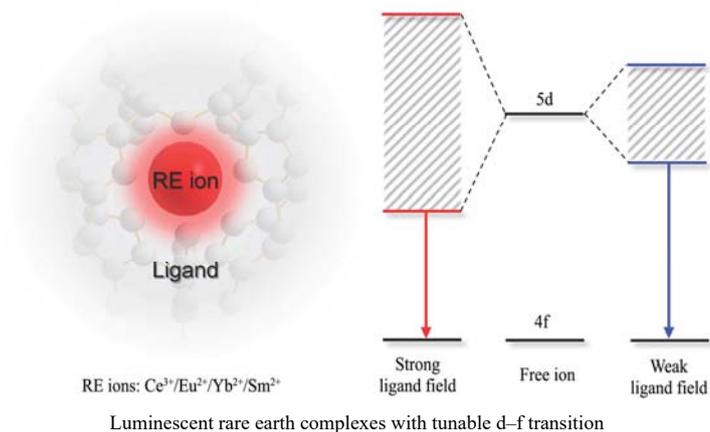
张文, 黄萍, 委娇娇, 郑伟*,
陈学元*



(a) Principle of time-resolved (TR) photoluminescence (PL) biosensing based on the long-lived PL of lanthanide (Ln^{3+}) ions, (b) schematic illustration of Ln^{3+} -doped nano-bioprobes for background-free TRPL biosensing

中国稀土学报, 2021, 39(1): 35-57

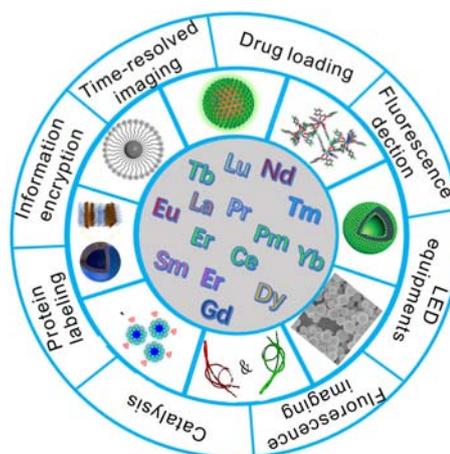
方培玉, 霍培昊, 刘志伟*, 黄岩谊,
卞祖强, 黄春辉



中国稀土学报, 2021, 39(1): 58-76

77 稀土发光配合物在水溶液中的组装及生物成像研究

苏平如, 王涛, 唐瑜*

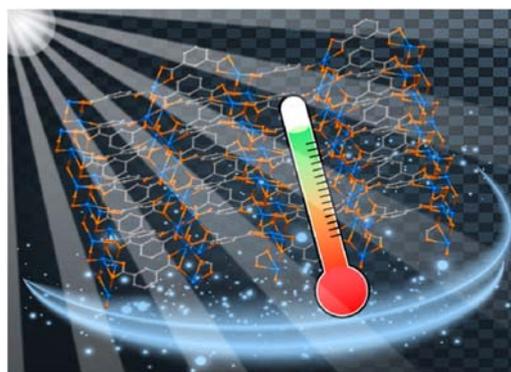


Application of rare earth compounds assembly in many fields

中国稀土学报, 2021, 39(1): 77-87

88 稀土铈、铽配合物在温度发光传感领域的研究进展

杨永晟, 王克志, 赵震, 闫东鹏*

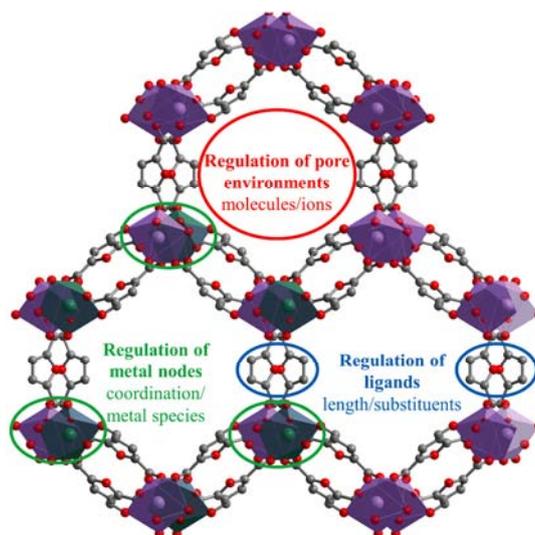


Schematic diagram of the optical ratiometric thermometer of europium/terbium luminescent complex

中国稀土学报, 2021, 39(1): 88-109

110 稀土金属-有机框架在同分异构体传感材料中的应用

韩宗甦, 师唯*, 程鹏

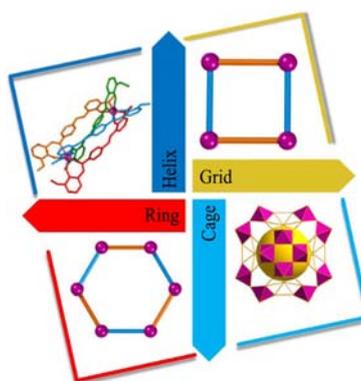


Regulations of structures and luminescent properties for lanthanide metal-organic frameworks

中国稀土学报, 2021, 39(1): 110-127

128 稀土超分子配合物研究进展

杨倩倩, 李晓磊, 唐金魁*

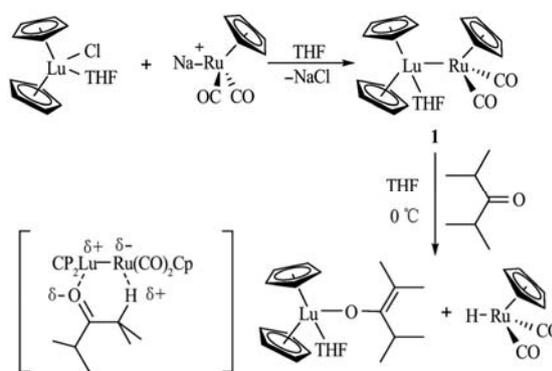


Structural modification and properties of rare-earth supramolecules

中国稀土学报, 2021, 39(1): 128-142

143 稀土金属-金属键的构筑策略

施开赢, 方蔚, 朱从青*

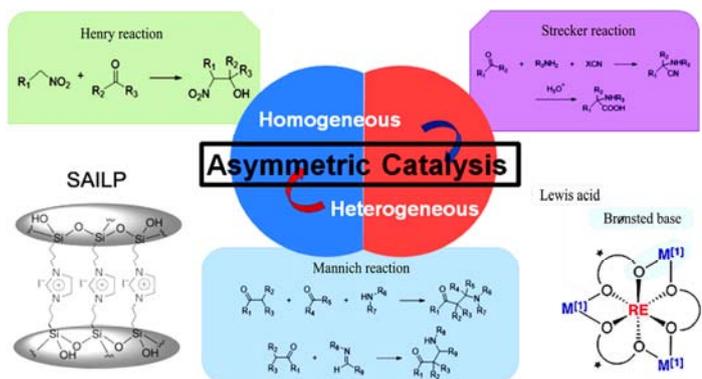


Synthesis and reactivity of complex 1

中国稀土学报, 2021, 39(1): 143-152

153 稀土金属在不对称催化中的应用: 从均相催化到异相催化

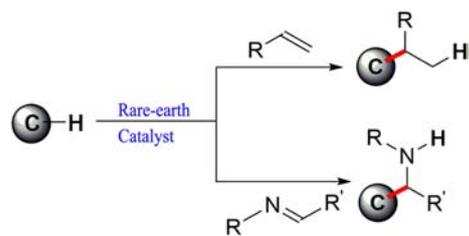
袁晨悦, 张亚文*



Application of rare earth metals in asymmetric catalysis

中国稀土学报, 2021, 39(1): 153-170

苏健洪, 徐 信*

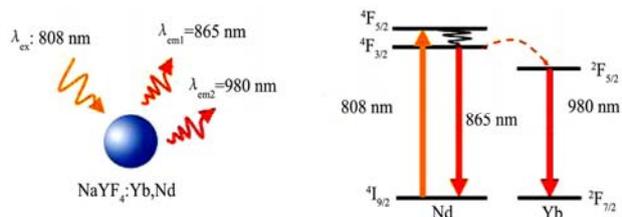


Rare-earth metal-catalyzed C-H functionalization

中国稀土学报, 2021, 39(1): 171-180

稀土新材料

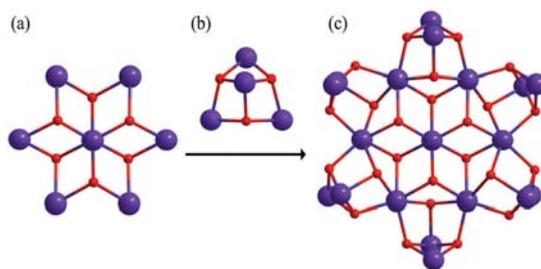
徐心成, 顾昱颀, 孔梦涯, 冯 玮*, 李富友*



Nanocrystal design with temperature-sensitive luminescence

中国稀土学报, 2021, 39(1): 181-187

郑秀英, 孔祥建*, 龙腊生*, 郑兰荪



Ball-and-stick view of hexagonal structure unit of [Dy₇(μ₃-OH)₆]¹⁵⁺ (a), defective cubane-like structure unit of [Dy₄(μ₃-OH)₃]⁹⁺ (b), disk-like cationic cluster unit of [Dy₁₉(μ₃-OH)₂₄]³³⁺ (c)

中国稀土学报, 2021, 39(1): 188-196