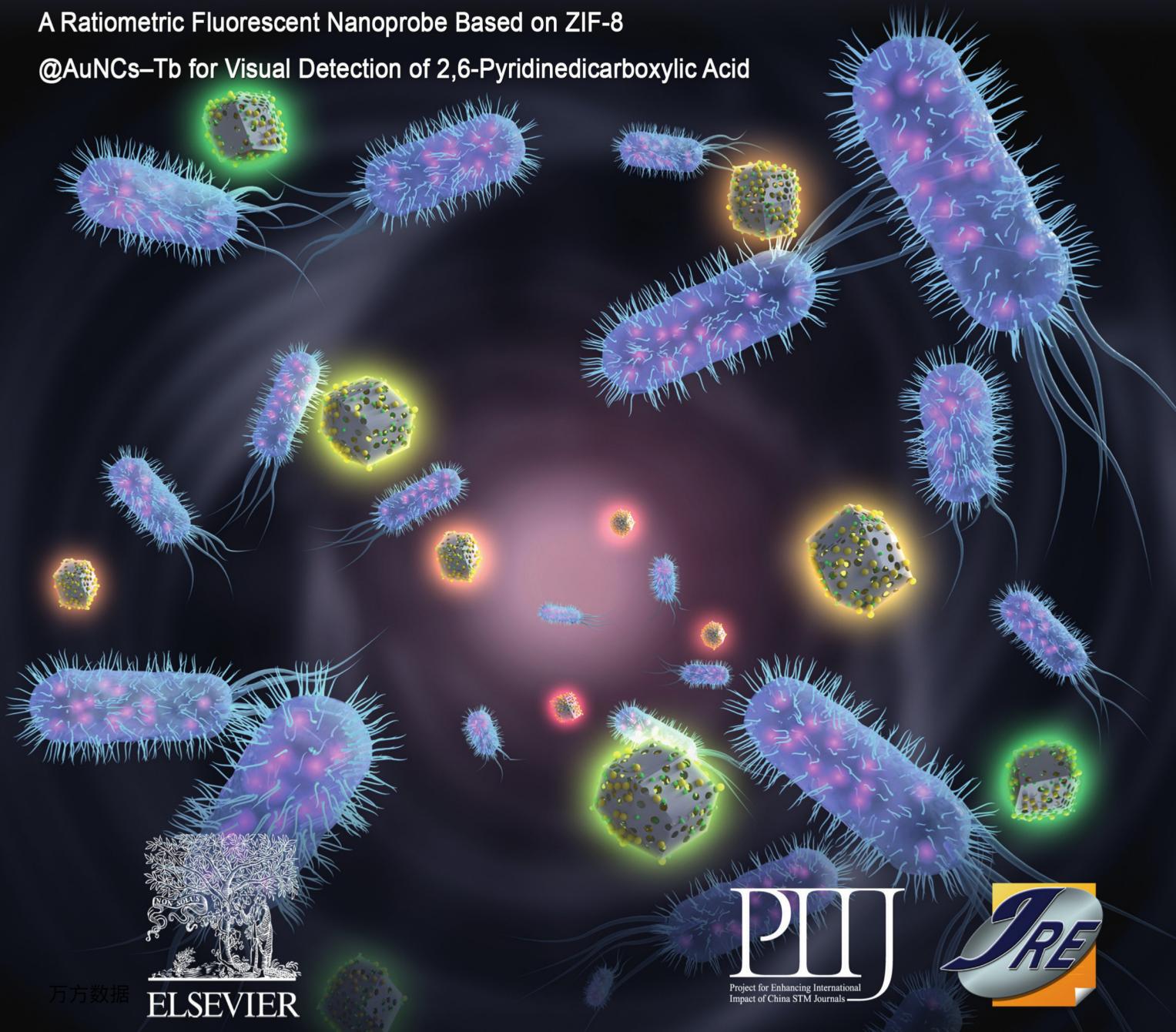


VOLUME 40 NUMBER 8
AUGUST 2022

ISSN: 1002-0721 e-ISSN: 2509-4963
CODEN JREAE 6

Journal of Rare Earths

A Ratiometric Fluorescent Nanoprobe Based on ZIF-8
@AuNCs-Tb for Visual Detection of 2,6-Pyridinedicarboxylic Acid



万方数据

ELSEVIER

PIJ
Project for Enhancing International
Impact of China STM Journals

JRE

CONTENTS

SPECTROSCOPY, LUMINESCENCE AND PHOSPHORS

A ratiometric fluorescent nanoprobe based on ZIF-8@AuNCs-Tb for visual detection of 2,6-pyridinedicarboxylic acid	Kang Shao, Siyu Wen, Mengyuan Zhang, Jing Wang, Shiyi Ye ^{**} , Zaifa Pan [*]	1165
Fabrication and photoluminescence characteristics of novel red-emitting Ba ₂ LuNbO ₆ :Eu ³⁺ double-perovskite phosphors on near UV WLEDs	Haihong Guo, Ting Wang [*] , Bitao Liu, Wei Gao, Liang Xiu, Zhenzhen Cui, Hao Zhang, Qianrui Ma, Shaoqing Wang, Ziyang Li, Longchao Guo, Guilong Yan, Siufung Yu, Xue Yu, Xuhui Xu ^{**} , Jianbei Qiu	1173
Ce ³⁺ sensitized Tb ³⁺ and Dy ³⁺ photoluminescence in β-LaB ₅ O ₉ prepared by sol-gel method	Yuxuan Qi, Ruirui Yang, Yan Gao, Pengfei Jiang, Rihong Cong [*] , Tao Yang	1181
Synthesis and enhanced photoluminescence properties of red emitting divalent ion (Ca ²⁺) doped Eu:Y ₂ O ₃ nanophosphors for optoelectronic applications	Arpita Dwivedi, Monika Srivastava, Ankur Dwivedi, Amit Srivastava, Anurag Mishra, S.K. Srivastava [*]	1187

RARE EARTH CATALYSIS

Sm-MnO _x catalysts for low-temperature selective catalytic reduction of NO _x with NH ₃ : Effect of precipitation agent	Junbin Ding, Xinwei Yang, Aiyong Wang ^{**} , Can Yang, Yanglong Guo, Yun Guo, Li Wang, Wangcheng Zhan [*]	1199
Synergistic effects of CeO ₂ /Cu ₂ O on CO catalytic oxidation: Electronic interaction and oxygen defect	Chengyan Ge, Jingshang Sun, Qing Tong, Weixin Zou [*] , Lulu Li, Lin Dong	1211
Influence of CePO ₄ with different crystalline phase on selective catalytic reduction of NO _x with ammonia	Chen Zhao, Yushi Li, Zhiping Zhang, Huansheng Tan, Fulong Yuan ^{**} , Yujun Zhu [*]	1219
Revealing active species of CePO ₄ catalyst for selective catalytic reduction of NO _x with NH ₃	Yiqing Zeng, Shule Zhang [*]	1232
Effect of surface manganese oxide species on soot catalytic combustion of Ce-Mn-O catalyst	Yi Zhu, Quan Wang, Li Lan, Shanhu Chen [*] , Jingjing Zhang	1238
CO oxidation and 4-nitrophenol reduction over ceria-promoted platinum nanoparticles impregnated with ZSM-5 zeolite	Zeinhom M. El-Bahy [*] , Mohammed T. Alotaibi, Salah M. El-Bahy	1247
Highly dispersed CeO _{2-x} nanoparticles with rich oxygen vacancies enhance photocatalytic performance of g-C ₃ N ₄ toward methyl orange degradation under visible light irradiation	Xuejun Xu [*] , Tianhua Huang, Yisheng Xu, Huawen Hu [*] , Shuang Liao, Xiaohong Hu, Dongchu Chen, Min Zhang	1255

ADVANCED RARE EARTH MATERIALS

Effect of carbon coating on electrochemical properties of AB _{3.5} -type La-Y-Ni-based hydrogen storage alloys	Ran Wu, Huiping Yuan [*] , Yuru Liu, Zhenyu Hou, Zhinian Li, Shumao Wang, Lijun Jiang, Lei Hao	1264
Tailoring thermal stability of ceria-zirconia mixed oxide by doping of rare earth elements: From theory to experiment	Zheng Zhao, Xiaowei Huang [*] , Yongqi Zhang, Juanyu Yang, Meisheng Cui, Yongke Hou, Zongyu Feng	1272

CHEMISTRY AND HYDROMETALLURGY

An in-depth multi-technique characterization of rare earth carbonates-RE ₂ (CO ₃) ₃ ·2H ₂ O-owning tengerite-type structure	Luca Spiridigliozi, Mauro Bortolotti, Grazia Accardo, Alessandro Vergara, Domenico Frattini [*] , Claudio Ferone, Raffaele Cioffi, Gianfranco Dell'Agli ^{**}	1281
--	--	------

METALLOGRAPHY AND PYROMETALLURGY

Segregation behavior and its regulating process in as-cast magnesium alloy containing heavy rare earth	Xin Tong, Guoqiang You [*] , Fanjin Yao, Mahmoud Ebrahimi ^{**} , Xinyue Deng, Shokouh Attarilar	1291
Effects of trace ytterbium addition on microstructure, mechanical and thermal properties of hypoeutectic Al-5Ni alloy	Kang Wang, Shaodong Hu, Yanglin Zhong, Shuoqun Jin, Zirong Zhou, Zhiyu Wang, Jiongcai Chen, Bingbing Wan, Wenfang Li [*]	1305

RARE EARTH APPLICATIONS

Tailoring effect of Y ₂ O ₃ on water resistance of Na ₂ O-ZnO-Al ₂ O ₃ -B ₂ O ₃ glasses	Mitang Wang [*] , Ao Li, Xiaowei Zhang, Dongliang Zhang, Siquingaowa Jin, Dehua Xiong, Wei Deng	1316
--	--	------

GEOLOGY AND ORE DRESSING

Modes of occurrence and pre-concentration of rare earth elements in No. 17 coal in Liupanshui coalfield, China	Bo Yang, Chen Cheng, Yuanxin Li, Wei Cheng [*] , Jingkun Zang, Xiangping Lai, Xiaorui Wang	1323
--	---	------

1st Youth Editorial Board of Chinese Society of Rare Earths and Journal of Rare Earths

BAI Xue (白雪)	CHEN Cong (陈聪)	CHEN Guanying (陈冠英)	CHEN Kunfeng (陈昆峰)
CHENG Jie (程杰)	DU Yaping (杜亚平)	FANG Yikun (方以坤)	FENG Wei (冯玮)
GUO Hai (郭海)	GUO Shengping (郭胜平)	HE Chi (何炽)	HU Zhenpeng (胡振芃)
HUANG Bolong (黄勃龙)	Ka-Leung Wong (黄嘉良)	JIA Chunjiang (贾春江)	LEI Bingfu (雷炳富)
LI Jiang (李江)	LI Xinxiong (李新雄)	LIN Kun (林鲲)	LIU Fudong (刘福东)
LIU Ronghui (刘荣辉)	LIU Shuang (刘爽)	LIU Zhiwei (刘志伟)	LV Weiqiang (吕维强)
MA Ping'an (马平安)	MEI Lefu (梅乐夫)	QI Jianqi (齐建起)	QIAO Xusheng (乔旭升)
SHANG Mengmeng (尚蒙蒙)	SHI Wei (师唯)	TANG Changjin (汤常金)	WANG Liangshi (王良士)
WANG Sheng (王胜)	WANG Shu'ao (王殳凹)	WANG Yonggang (王永刚)	WU Yuntao (吴云涛)
XIA Zhiguo (夏志国)	XIAO Yanfei (肖燕飞)	XIE Xiaoji (谢小吉)	XU Xin (徐信)
XU Xuhui (徐旭辉)	XU Beibei (许贝贝)	YANG Guoping (杨国平)	YANG Tao (杨韬)
YAO Xiaojiang (姚小江)	ZHAN Wangcheng (詹望成)	ZHANG Fangfang (张方方)	ZHANG Qiwei (张奇伟)
ZHANG Yi (张毅)	ZHANG Yun (张云)	ZHENG Yanzhen (郑彦臻)	ZHOU Bo (周博)
ZHOU Jing (周晶)	ZHU Haomiao (朱浩淼)	ZHUANG Yixi (庄逸熙)	

JOURNAL OF RARE EARTHS (Monthly, Started in 1990)

稀土学报 (英文版)

Volume 40 Number 8 August 2022

Editor-in-Chief

Yan Chunhua

Copyright ©2022 by Editorial Office of Journal of Rare Earths, P. R. China

Administrated by China Association for Science and Technology

Sponsored by the Chinese Society of Rare Earths and GRINM Group Co., Ltd.

Edited and Published by Editorial Office of Journal of Rare Earths

Printed by the Beijing Speed Printing Co., Ltd.

Domestic Distribution Code: 2-613

Domestic Distributor: Editorial Office of Journal of Rare Earths, 2 Xinjiekouwai Dajie, Beijing 100088, China

<https://www.editorialmanager.com/JORES/default.aspx>

Tel: +86-10-82241182, 82241916; **E-mail:** jrechina@263.net; xtxb@grinm.com

Executive Editor: Liu Bing (刘冰)

ISSN 1002-0721

ISSN 1002-0721 (国内外公开发行)
CN 11-2788/TF

