

ISSN 1001-4616

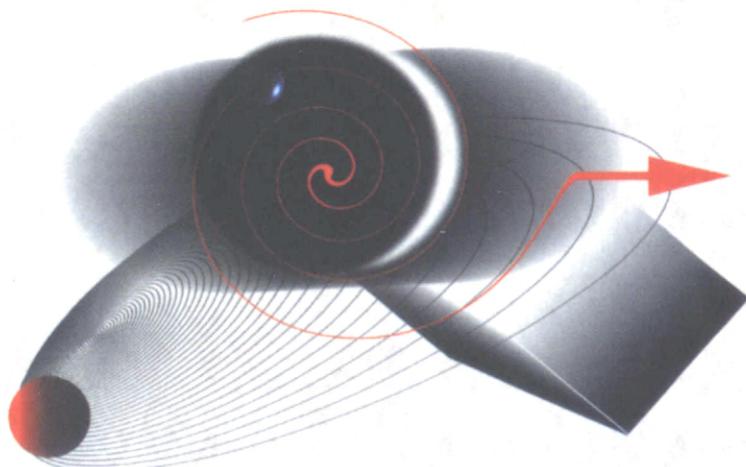
CODEN NSXZEN

南京师范大学报

JOURNAL OF NANJING NORMAL UNIVERSITY

自然科学版

NATURAL SCIENCE EDITION



中文综合性科学技术类核心期刊

中国高校优秀科技期刊

江苏省期刊方阵优秀期刊

第35卷 | 1
2012 | 1

南京师大学报

(自然科学版)

第35卷 第1期(总第129期)

2012年3月

目 次

· 数学 ·

- P_1 非协调四边形元解 Stokes 问题的多重网格算法 黄萍, 王琛玮, 杨巨玲, 徐丹丹 (1)
一维实余弦信号模型振幅的两步 M 估计 赵媛媛, 明瑞星 (12)
3类图完美匹配的计数 唐保祥, 任韩 (16)
二维修正的 Zakharov 方程的适定性 游淑军, 宁效琦 (22)
 L -模糊集与变基幂集线性算子的有界性刻画 毛铭桦 (29)

· 物理学 ·

- 外磁场诱导下的硫化钴晶相转变 王巍, 王声乐, 王登志 (34)
结构多位置裂缝识别的有限元方法 林缨, 李学平 (39)

· 化学 ·

- 纳米钯/铁双金属对 2,4-二氯酚的还原脱氯研究 王猛, 吉祖峰, 崔世海 (46)
共焦显微拉曼技术在印章形成时间鉴定方面的应用 籍康, 赵杰 (50)
离子液体催化合成阻燃剂 3-羟基苯膦酰丙酸 罗轩, 史红丽, 周浩, 张士磊, 杨锦飞, 职慧珍 (54)
聚羧酸对 LiFePO₄ 正极材料结构和性能的影响 莫祥银, 冯晓参, 俞琛捷, 丁毅, 康彩荣, 倪聪 (58)

N-Cycl[3,2,2]azine 甲酰脲衍生物对金属离子的选择性研究 江玉亮,马振毛,杨安博,陈长信 (63)

新设计的碳纳米管锂盐的第一超极化率的理论研究 顾景阳,茅若晨,江丽芝,朱小蕾 (66)

• 生命科学 •

中国特有蝶种——库茨粉蝶(鳞翅目:粉蝶科)再描述及生物学初报(英文) 李朝晖 (71)

不同启动子对禽流感病毒 H5HA 基因在马铃薯体中表达的影响

..... 黄翠香,季勤,张云峰,徐春,窦秉德 (75)

蜕皮激素对克氏原螯虾蜕皮和生长的影响 陈树桥,陈勇,周国勤,唐春萍 (80)

pDsRED-LC3 真核表达载体的构建及其在肝癌细胞系 HepG2 中的表达和定位

..... 彭婉昕,孙瑶湘,陈琛,金洁,邵根宝,王蝶 (84)

• 地理学 •

基于 MODIS 的太湖蓝藻水华暴发时空规律分析研究 刘晓艳,倪峰,周玉红 (89)

水体中有色可溶性有机物的测量及其变化 付宇,韦玉春,周宇 (95)

基于城市旅游理性发展的典型城市比较研究 丁蕾,金卫东 (104)

点群选取与化简算法时间复杂度研究 于艳平,沈婕,尚在颖 (111)

淤泥质潮滩沉积周期性研究综述 龚小辉,柏春广,王建 (117)

• 体育学 •

大学生体质健康状况的对比分析——以南京师大学生为例 夏俊彪,程传银,周学荣 (122)

武术套路运动对青春期女性骨强度及雌激素的影响 陈玉群 (128)

[期刊基本参数]CN 32-1239/N * 1955 * q * A4 * 136 * zh + en * P * ¥8.00 * 1150 * 24 * 2012-03

JOURNAL OF NANJING NORMAL UNIVERSITY
(Natural Science Edition)

Vol. 35 No. 1 (Sum. 129)

Mar, 2012

CONTENTS

A Multigrid Method of P_1 Nonconforming Quadrilateral Finite Element for Solving Stokes Problem	Huang Ping, Wang Chenwei, Yang Juling, Xu Dandan (1)
Two-Step M Estimators for Parameter Amplitudes in One Dimensional Cosine Model	Zhao Yuanyuan, Ming Ruixing (12)
The Number of Perfect Matchings in Three Types of Graphs	Tang Baoxiang, Ren Han (16)
Well-Posedness for a Two-Dimensional Modified Zakharov Equations	You Shujun, Ning Xiaoqi (22)
A Characterization About Boundedness of L -Fuzzy Set and Variable Basis Powerset Linear Operator	Mao Minghua (29)
Magnetic Field Induced Phase Transition of Crystalline Cobalt Sulfides	Wang Wei, Wang Shengyue, Wang Dengzhi (34)
Identification of Multi-Position Cracks in Structures Based on Finite Element Method	Lin Ying, Li Xueping (39)
2,4-Dichlorophenol Degradation by Nanoscale Pd/Fe System	Wang Meng, Ji Zufeng, Cui Shihai (46)
Application of Confocal Micro-Raman in Testing the Ageing of Inkpads and Stamp-Pad Ink	Ji Kang, Zhao Jie (50)
Synthesis of Flame Retardants 3-(Hydroxyphenylphosphinyl) Propionic Acid Catalyzed by Ionic Liquid	Luo Xuan, Shi Hongli, Zhou Hao, Zhang Shilei, Yang Jinfei, Zhi Huizhen (54)
Effect of Polycarboxylate on Structure and Performance of LiFePO ₄ Cathode Material	Mo Xiangyu, Feng Xiaosan, Yu Chenjie, Ding Yi, Kang Cairong, Ni Cong (58)
Synthesis of N-Cycl[3,2,2]azine Formyl Urea Derivatives and Studies on Its Recognizing Properties on Metal Ions	Jiang Yuliang, Ma Zhenmao, Yang Anbo, Chen Changxin (63)
Theoretical Study on the First Hyperpolarizability of New Lithium Salt (Li-CNTs)	Gu Jingyang, Mao Ruochen, Jiang Lizhi, Zhu Xiaolei (66)
Redescription and Biology of an Endemic Chinese Butterfly: <i>Pieris kozlovi</i> (Alpheraky, 1897) (Lepidoptera: Pieridae)	Li Zhaojun (71)
Effect of Promoters on Expression of H5HA Avian Influenza Virus Gene in Potato Plant	Huang Cuixiang, Ji Qin, Zhang Yunfeng, Xu Chun, Dou Bingde (75)
Effects of Ecdysterone on the Molt and Growth of <i>Procambarus Clarkii</i>	Chen Shuqiao, Chen Yong, Zhou Guoqing, Tang Chunping (80)
Construction of Recombinant pDsRed-LC3 Fusion Protein and Its Expression and Localization in HepG2 Cell	Peng Wanxin, Sun Yaoxiang, Chen Chen, Jin Jie, Shao Genbao, Wang Lei (84)
Spatio-temporal Rules of the Blue-green Algae Blooms in the Taihu Lake Based on MODIS Data	Liu Xiaoyan, Ni Feng, Zhou Yuhong (89)
The Measurement and Changes of Chromophoric Dissolved Organic Matter in Water	Fu Yu, Wei Yuchun, Zhou Yu (95)
Comparative Study of Typical Cities Based on the Smart Development of Urban Tourism	Ding Lei, Jin Weidong (104)
A Study on the Time Complexity of Point Cluster Selection and Simplification Algorithms	Yu Yanping, Shen Jie, Shang Zaiying (111)
Review of Research on Sedimentary Periodicity of Tidal Mud Flat	Gong Xiaohui, Bai Chunguang, Wang Jian (117)
Contrastive Analysis of the College Students Physical Health—With the Students in NNU as the Investigation Objects	Xia Junbiao, Cheng Chuanyin, Zhou Xuerong (122)
Influence of WUSHU Routine Exercise on the Bone Strength and Estrogen to the Adolescent Females	Chen Yuqun (128)

Chief Editor: Chen Lingfu, **Deputy Chief Editors:** Lu Bingxin, Sun Dequan, **Executive Editor:** Gu Xiaotian