

中文建筑科学类核心期刊
中国科技论文统计源期刊(中国科技核心期刊)

建筑科学®

BUILDING SCIENCE

12

2015

第31卷 第12期
VOL.31 NO.12

◆ 中华人民共和国住房和城乡建设部主管

◆ 中国建筑科学研究院主办

可持续建筑 *Sustainable Building*

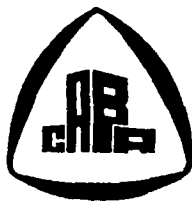


ISSN 1002-8528



9 771002 852812 >

中国科技论文统计核心期刊
 国际 CODEN 中心收录期刊
 《中国科学引文数据库》来源期刊
 国际连续出版物数据系统收录期刊
 ICONDA 国际建筑文献数据库收录期刊
 中国科技期刊文摘(CSTA)英文版
 数据库收录期刊
 《中国学术期刊(光盘版)
 检索与评价数据规范》执行优秀期刊



建筑科学

JIANZHU KEXUE

(月刊)

第 31 卷 第 12 期(总第 221 期)

2015 年 12 月出版

(1985 年创刊)

主 办:中国建筑科学研究院
 编 辑:《建筑科学》编辑部
 “可持续建筑”编辑组
 地 址:北京北三环东路 30 号
 邮 编:100013
 电 话:010-64517427;64693291
 电子邮箱(投稿邮箱):bjb365@126.com
 主 编:赵基达
 副 主 编:徐 伟

责任编辑:俞英鹤
 编 辑:唐冬芬
 美 编:陈 辛
 策 划:王东青

* * * * *
 印 刷:北京时捷印刷有限公司
 国内发行:全国各地邮局订阅
 国外发行:中国国际图书贸易总公司
 (北京 399 信箱)

邮发代号:2-381
 国外代号:BM4129
 国内统一刊号:CN11-1962/TU
 国外标准刊号:ISSN1002-8528
 零 售:《建筑科学》编辑部发行室
 广告经营许可证:京朝工商广字第 0209
 号(101)

目 次

综 述

城市微气候对建筑能耗影响的研究方法综述 杨小山,赵立华(1)

理论 & 实验研究

广州典型生活性街谷的热环境实测研究 杜晓寒,石玉蓉,张宇峰(8)
 冬季和过渡季广州地区住区室外空间的使用特点探讨
 李坤明,赵立华,张宇峰(14)
 银川住宅建筑夏季室内热环境与热舒适调查研究
 闫海燕,郝利平,杨 柳,郑武幸,李道一(20)
 热环境变化影响热感觉投票及人体自适应的实验研究 江海燕,丁力行(28)
 墙体表面温度分布规律的研究 方修睦,王中华,贾永宏,展长虹,刘 强(34)
 基于改进模糊综合评价的既有建筑绿色改造潜力评估
 李 敬,李德英,王艳丽(41)
 基于结构化总体最小二乘法的墙体热阻现场测量方法
 沈 启,梁立军,夏建军(47)
 离心保温棉吸湿特性及湿传递性能实验研究
 翁文兵,程 斌,黄介平,邹 思(54)
 高性能平板太阳能集热器集热性能优化研究 贺 鹏,代彦军(58)
 高层住宅中应用的太阳能集中一分散供热水系统 何梓年(62)
 全玻璃真空太阳集热管的质量现状分析及对其现行国家标准的几点思考
 李郁武,刘华凯,刘雪平,孙玉泉(67)

计算分析

空气过滤器设计选型用 PM_{2.5} 室外设计浓度确定方法
 王清勤,李国柱,朱荣鑫,王军亮,赵 力,王晓飞,孟 冲(71)
 广州生活性街谷热环境数值模拟研究与设计 杜晓寒,石玉蓉,张宇峰(78)
 基于建筑物楔形缝隙的室外悬浮颗粒穿透建筑过程模拟分析
 张 峰,李安桂(88)
 基于 CTF 系数法的混凝土空心砌块的动态传热计算 庄炜茜(92)
 基于建筑能效标识数据的研究与分析 程 杰,骆静文,彭 琛,郝 斌(97)
 末端散热器选型对供暖效果影响的模拟研究 简毅文,刘昭辉,李 毅(104)
 桂林市公共建筑用能现状及节能潜力分析 陈 清(109)

论 坛

绿色建筑使用后评价方法研究思路 酒 森,宋 凌(113)
 绿色保障性住房案例研究 赵梓君,王冬梅,王建军(122)
 基于 DEA 及 FAA 的中国建筑业能效评价及减排策略研究
 祁神军,田丝女,刘 兵,张云波(127)
 高原河谷地区地下水源热泵供暖系统设备选配及优化运行
 张 伟,袁艳平,贺文晟,雷 波,卢 军(135)
 绿色生态城区能源规划研究
 李 骥,张瑞雪,杨洪茂,孙宗宇,冯晓梅,杜国付,乔 鏖(141)

* * * * *

[期刊基本参数] CN11-1962/TU * 1985 * b * 16 * 158 * zh * P * ¥12.00 * 8000 * 24 * 2015-12

BUILDING SCIENCE

(Monthly Journal)

No. 12 Vol. 31, Dec. 2015

(Initial Issue in 1985)

Director: China Academy of Building
Research

Edited & Published: Editorial Committee of
BUILDING SCIENCE

"Sustainable Building" Editorial Team

Address: 30 Bei San Huan Dong Lu,
Beijing 100013, China

Tel: 86-10-64517427; 64693291

E-mail: bjb365@126.com

Chief Editor: ZHAO Jida

Vice Chief Editor: XU Wei

Responsible Editor: YU Yinghe

Editor: TANG Dongfen

Art Editor: CHEN Xin

Planner: WANG Dongqing

* * * * *

Distributed in China:

Post Office Code Name 2-381

Distributed Abroad:

China International Book Trading
Corporation

(GUO JI SHU DIAN)

P. O. Box 399, Beijing, China

CONTENTS

Summarization

Impacts of Urban Microclimate on Building Energy Performance: A Review of Research Methods
..... YANG Xiaoshan, ZHAO Lihua (1)

Theoretical & Experimental Study

Field Study on Thermal Environment of Typical Living Street Canyons in Guangzhou
..... DU Xiaohan, SHI Yurong, ZHANG Yufeng (8)

Use Features of Residential Outdoor Space in Winter and Shoulder Season
..... LI Kunming, ZHAO Lihua, ZHANG Yufeng (14)

Indoor Environment and Thermal Comfort of Residential Buildings in Yinchuan in Summer
..... YAN Haiyan, HAO Liping, YANG Liu, ZHENG Wuxing, LI Daoyi (20)

Experimental Research on the Effects of Thermal Environmental Changes on the Thermal Sensation
Vote TSV and Human Thermal Adaptation JIANG Yantao, DING Lixing (28)

Infrared Image Analysis of Temperature Distribution on the Wall Surface
..... FANG Xiumu, WANG Zhonghua, JIA Yonghong, ZHAN Changhong, LIU Qiang (34)

Potential Assessment on Greening Existing Buildings Based on Improved Fuzzy Comprehensive
Evaluation LI Jing, LI Deying, WANG Yanli (41)

On-site Measuring Method of Heat Resistance of Wall by STLS
..... SHEN Qi, LIANG Lijun, XIA Jianjun (47)

Experimental Study on the Performance of Centrifugal Insulation Cotton Hygroscopic Properties and
Moisture Transfer WENG Wenbing, CHENG Bin, HUANG Jieping, ZOU Si (54)

Optimization of High Performance Flat-plate Solar Collector HE Peng, DAI Yanjun (58)

Solar Centralized-decentralized Water Heating System Applied in High-rise Residential Buildings
..... HE Zinian (62)

Quality Analysis of All-glass Evacuated Solar Collector Tubes and Suggestions on Current National
Standards LI Yuwu, LIU Huakai, LIU Xueping, SUN Yuquan (67)

Computational Analysis

Determination of PM_{2.5} Outdoor Design Concentration for Air Filter Design and Selection
..... WANG Qingqin, LI Guozhu,

..... ZHU Rongxin, WANG Junliang, ZHAO Li, WANG Xiaofei, MENG Chong (71)

Numerical Study and Design of Thermal Environment of Living Street Canyons in Guangzhou ...
..... DU Xiaohan, SHI Yurong, ZHANG Yufeng (78)

Process Modeling of Ambient Particle Penetration through Building V Cracks
..... ZHANG Feng, LI Angui (88)

Dynamic Heat Transfer Calculation of Concrete Hollow Block by CTF Method
..... ZHUANG Weiqian (92)

Research and Analysis of Data Based on Building Energy Efficiency Labeling
..... CHENG Jie, LUO Jingwen, PENG Chen, HAO Bin (97)

Simulation Research on the Impact of Radiator Selection on Indoor Thermal Environment and Energy
Consumption JIAN Yiwen, LIU Zhaohui, LI Yi (104)

Analysis of Status and Energy-Saving Potential for Typical Public Buildings in Guilin
..... CHEN Qing (109)

Forum

Method Research on Green Buildings' Post Occupancy Evaluation
..... JIU Miao, SONG Ling (113)

Case Research on Green Indemnificatory Housing
..... ZHAO Zijun, WANG Dongmei, WANG Jianjun (122)

Energy Efficiency Evaluation and Reduction Strategy for Carbon Emission of Construction Industry
with DEA and FAA QI Shenjun, TIAN Siyu, LIU Bing, ZHANG Yunbo (127)

Unit Configuration and Operation Optimization of Underground Water Heat Pump Heating System in
Plateau River Valley ZHANG Wei, YUAN Yanping, HE Wensheng, LEI Bo, LU Jun (135)

Study on Energy Planning in Green Ecological City
..... LI Ji, ZHANG Ruixue, YANG Hongmao, SUN Zongyu, FENG Xiaomei, QIAO Biao (141)



建筑科学®

刊号: $\frac{\text{ISSN } 1002-8528}{\text{CN11-1962/TU}}$

代号: $\frac{\text{国内邮发 } 2-381}{\text{国 外 } \text{BM4129}}$

国内定价: $\frac{12.00\text{元/期}}{144.00\text{元/年}}$