



庆祝中国共产党成立100周年

The 100th Anniversary of the Founding of
The Communist Party of China

本期主题:红色文化与设计

RED CULTURE AND DESIGN

黑龙江省工业和信息化厅召开全省工
业设计座谈会——暨黑龙江2021“龙江杯”
工业设计大赛启动会

The Provincial Industry Design Forum and 2021
“Longjiang Cup” Industry Design Contest Kick-off
Meeting Held by Heilongjiang Provincial Department
of Industry and Informationization

高校美育之“感觉的逻辑”

——清华大学美术学院青年学者高登科谈美育

“Logic of Sensation” for Aesthetic Education at
Colleges and Universities

—A Young Scholar, Gao Dengke’s View about
Aesthetic Education from School of Fine Art,
Tsinghua University

鲁班锁在现代会展设计中的延伸应用

——以“樽”展具设计为例

The Extended Application of Luban Lock in Modern
Exhibition Design—Take “ZUN” Exhibition Furniture
Design as an Example

基于学龄前儿童心理特征的互动玩具设计研究

Research on Interactive Toy Design Based on
Preschool Children’s Psychological Characteristics

老年人出行服务触点设计策略研究

Research on Strategies to Touch Spot Design for
Elderly Travel Services



专题报道

- 008 黑龙江省工业和信息化厅召开全省工业设计座谈会暨黑龙江 2021 “龙江杯” 工业设计大赛启动会
009 黑龙江 2021 “龙江杯” 工业设计大赛推进工作会议召开

高校美育教育大家谈

- 010 高校美育之“感觉的逻辑”——清华大学美术学院青年学者高登科谈美育

主题资讯

- 012 重温峥嵘岁月 献礼建党百年《红色记忆——纪念建党百年黑龙江革命文物、文献展》
013 黑龙江百米百图百年党史剪纸展——剪纸艺术绘就百年党史恢弘画卷
014 南京市博物总馆红色主题文化创意
016 红色李巷文化创意礼盒设计
017 小平故里红色文化创意打造
018 湖湘红色文化—杨开慧文化创意系列
019 红船礼赞系列文化创意设计
020 永恒记忆 不朽丰碑——红色文化创意产品
021 红军形象钥匙包 / 红色旅游文化创意产品设计
022 社会主义核心价值观魔方 / “彭大将军” 文化创意产品设计
023 中共一大文化创意设计
024 红色旅游文化创意产品
025 中国国家博物馆—新青年套装 / 长征之路—趣味拼图



科学与艺术

- 026 数字媒体技术在展览展示空间中的应用——以上海世博会沙特馆为例
028 细胞生物学在艺术设计中的应用
030 分形艺术图案的美学特征探析

林丹 颜成宇
周祎雯 丛文瑞
吴凡 王教庆

高等美术教育

- 032 面向创新能力培养的高校设计类课程多元教学模式探究
034 基于图式理论的艺术设计教学研究
036 乌尔姆设计学院对我国设计教学的启示
038 地域特色文化融入《室内空间设计》课程的教学探索
040 晋中民居建筑形式及文化融入环境设计课程的探索与实践
042 思政育人理念在《产品设计程序与方法》教学中的应用
044 基于德国职业教育法的图像处理课程教学改革
046 OBE 理念下手帐图形象达形式在高职《建筑史》课程中的应用
048 环境艺术设计专业 3Dmax 课程改革的存在问题与对策
050 基于课程思政理念的《中国元素创意设计》课程教学研究
052 项目教学法在《企业视觉形象设计》课程教学中的应用

张伟明
周雪燕
谭杰 张晓峰 霍元琳
李国旭
牛丽娜 杜航
闫莹
周淑君
贲雯
谢朝楠
卢东华
王嘉欣

设计与理论

- 054 鲁班锁在现代会展设计中的延伸应用——以“樽” 展具设计为例
056 中国画论对现代设计美学的影响
058 基于学龄前儿童心理特征的互动玩具设计研究
060 产品设计中的成本控制研究
062 基于无意识理念的医疗护理行业辅助位移产品设计研究
064 基于 SD 法的住区景观环境使用评价研究——以南通市中瑾世纪城小区为例
067 以目标为导向的权限管理系统设计研究
070 基于用户体验的压路机显示界面设计研究
072 基于伦理学的居住空间设计研究
074 基于无用理念的可持续设计研究
076 儿童玩具的创新设计思路研究

张驰 杨冬江
陈歆怡
邢亚龙 任玉洁
周李辉 张伟中 曾永富
任梅 徐晟文
胡子西
邓实仟
张昆 陈冉
黄荣
马瑞果 林伟
杨沙



1
First

INDUSTRIAL DESIGN NO.6

CONTENTS 目录



2

Second

- 078 基于产品语义学的助眠香薰产品外观设计研究
郭天舒
柳帅先
- 080 极简主义在器皿设计中的应用研究
杨燕 李津
- 082 石墨烯材料在小型家用电器设计中的应用研究
张思雨 林伟
- 084 “一人食”厨具的情感化设计探索
迟瑞丰 蒋宇松
- 086 仿生设计在儿童平衡车设计中的应用研究
李咏蔚 刘兆龙
- 088 基于感性消费的文化创意产品设计方法
陈明 陈波
- 090 隐喻手法在工艺美术品中的应用研究
孙亚茹 关佳征
- 092 论东方禅宗思想与艺术设计的关系
黄惠玲 黄进杰
- 094 绿色低碳理念在包装设计中的应用
赵晓明 高晶晶
- 096 手绘插画在现代绘本设计中的应用研究——以《中华民族神话与传说》为例
腾玮铭
- 098 健身产品的游戏化设计研究
代文毅
- 100 涂鸦艺术在现代包装设计中的应用价值
郭铁军 刘思宁
- 102 基于用户行为的移动母婴室设计研究
江霞 杨炜丹
- 104 极简主义风格在室内环境设计中的应用研究
陈慧珍 杨亚萍
- 106 学龄前儿童家具的游戏性设计
张浩 张雯
- 108 基于可持续理念的儿童椅设计

前沿与动态

- 110 探析物联网背景下产品交互设计的变革
陆润华
- 113 老年人出行服务触点设计策略研究
李婉仪 黄域施 宋琦
- 115 面向合租人群的智能家居系统设计研究
胡智 朱读鑫
- 117 基于服务理念的智能睡眠舱设计与服务模式研究
徐江华 翁懿
- 119 家用智能种植产品设计研究
李婷 修颖 李新梅

文化与传承

- 121 基于网络文本分析法的文化景观遗产价值界定探究——以庐山国家公园为例
陈晨 杨晓鹏 阚斌
- 123 汉代夔龙纹艺术特征研究
杨儒茜 姚君
- 126 蛇形象在首饰设计中的应用研究
相婷 张维肖 刘可鑫
- 128 中国传统吉祥文化元素在产品中的运用
秦硕 周俊良
- 130 基于文化再生理论的传统民艺再设计研究
刘佩芳
- 132 余荫山房园林文化创意产品设计研究
李梓珊
- 134 青州市井塘古村的保护利用与活化研究
张玉雪 沈泳男 杨春锁
- 136 白塔山旅游文化创意茶具设计
潘瑶 王文兵
- 138 盛京文化创意产品的设计与推广
卞升阳 陈禹竹
- 140 中国水墨元素在动画设计中的应用
李燕梅
- 142 大理巍山历史文化古城的保护与开发
方静
- 144 数字插画在敦煌文化创意产品设计中的应用
魏妍妍 廖斌
- 146 黎族传统建筑元素在美丽乡村导视系统中的应用
徐龙翔 张凯丽
- 148 参与式设计方法在绥棱黑陶产品设计中的应用
赵爱丽 王黎明 于猛
- 150 火塘文化在新时期西南民居建筑设计中的应用
张雯星 黄婷媛 卢影
- 152 浅谈镜面材料在传统民居外观设计改造中的应用
张羽

技术与实践

- 154 基于系统设计理论的自闭症儿童辅助干预产品设计研究
徐楚玄 王思维
- 157 情境交互理念下的灭火器智能设计
吴寒
- 159 基于有限元法的明式圈椅结构优化设计
李京龙 温冠宁

封二

中共一大文化创意设计

封三

《工业设计》杂志征订启事

SPECIAL REPORT

- 008** The Provincial Industry Design Forum and 2021 "Longjiang Cup" Industry Design Contest Kick-off Meeting Held by Heilongjiang Provincial Department of Industry and Informationization
- 009** The Advancing Working Meeting for Heilongjiang 2021 "Longjiang Cup" Industry Design Contest is Held

COLLEGE AESTHETIC EDUCATION EVERYBODY TALKS

- 010** "Logic of Sensation" for Aesthetic Education at Colleges and Universities—A Young Scholar, Gao Dengke's View about Aesthetic Education from School of Fine Art, Tsinghua University

TOPIC INFORMATION

- 012** Review the Eventful Years, A Gift Presented at the 100th Anniversary of Founding of CPC "A Red Memory—Revolutionary Cultural Relics and Literature Exhibition of Heilongjiang in Memory of the 100th Anniversary of Founding of CPC"
- 013** Paper-Cut Exhibition of Heilongjiang with Hundred-Meter and Hundred Pictures for Hundred Years History of CPC—Paper-Cut Art Draws A Grand Painting for Hundred Years History of CPC
- 014** Red Theme Cultural Creation of Nanjing General Museum
- 016** Red Li Lane Cultural Creation Gift Box Design
- 017** Forging Red Cultural Creation at Deng Xiaoping's Hometown
- 018** Red Culture in Hunan—Yang Kaihui Cultural Creation Series
- 019** Red Boat Salutation Series Cultural Creation Design
- 020** Eternal Memory, Immortal Monument—Red Cultural Creation Products
- 021** Red Army Image Key Bag / Red Tour Cultural Creation Product Design
- 022** Rubik's Cube with Core Socialist Values / "General Peng Dehuai" Cultural and Creative Product Design
- 023** Cultural Creation Design on the First Congress of the Communist Party of China
- 024** Red Tour Cultural and Creation Products
- 025** National Museum of China - New Youth Suit / The Road to the Long March—Fun Puzzles

SCIENCE AND ART

- 026** Application of Digital Media Technology in Display and Demonstration Spaces—Take Saudi Arabia Pavilion on Shanghai World Expo as An Example
- 028** Application of Cytobiology in Art Design
- 030** Analysis and Exploration on Aesthetic Features of Fractal Art Patterns

Lin Dan, Yan Chengyu
Zhou Yiwen, Cong Wenrui
Wu Fan, Wang Jiaqing

HIGHER EDUCATION OF FINE ARTS

- 032** Research on the Multiple Teaching Mode of Design Courses in Colleges and Universities for the Cultivation of Innovation Ability
- 034** Research on Art Design Teaching Based on Schema Theory
- 036** Revelation from Ulm School of Design to Design Teaching in China
- 038** Teaching Exploration on Integrating Regional Featured Culture in the Course of "Interior Space Design"
- 040** Exploration and Practices on Integrating the Architectural Form and Culture of Residential Buildings in Central Shanxi in the Course of Environmental Design
- 042** Application of the Ideological and Political Education Philosophy in Teaching of "Product Design Procedures and Methods"
- 044** Teaching Reform for Picture Processing Course Based on German Vocational Education Law
- 046** The Application of the Graphical Expression Form of Handbook under OBE Concept in the Course of "History of Architecture" in Higher Vocational Education
- 048** Existing Problems and Countermeasures to Reform of 3Dmax Course for the Major of Environmental Art Design
- 050** Teaching Research of the Course "Chinese Elements Creative Design" Based on Course Ideological and Political Concept
- 052** Application of Project Teaching Method in Teaching the Course of "Corporate Visual Image Design"

Zhang Weiming
Zhou Xueyan
Tan Jie, Zhang Xiaofeng, Huo Yuanlin
Li Guoxu

Niu Lina, Du Hang
Yan Ying
Zhou Shujun

Ben Wen
Xie Chaonan
Lu Donghua
Wang Jiaxin

DESIGN AND THEORY

- 054** The Extended Application of Luban Lock in Modern Exhibition Design—Take "ZUN" Exhibition Furniture Design as an Example
- 056** Influences from Chinese Painting Criticism on Aesthetics of Modern Design
- 058** Research on Interactive Toy Design Based on Preschool Children's Psychological Characteristics
- 060** Research on Cost Control in Product Design
- 062** Research on Design of Auxiliary Displacement Products in Medical and Nursing Industry Based on Unconscious Concept
- 064** Research on Residential Area Landscape Environment Use Comments Based on SD Method—Take Zhongjin Centennial City Community in Nantong City as An Example
- 067** Research on Design of Target-Oriented Permission Management System
- 070** Research of Display Interface Design for Road Rollers Based on Users' Experiences
- 072** Research on Design of Residential Spaces Based on Ethics
- 074** Research on Sustainable Design Based on Useless Concept

Zhang Chi, Yang Dongjiang
Chen Xinyi
Xing Yalong, Ren Yujie
Zhou Lihui, Zhang Weizhong, Zeng Yongfu
Ren Mei, Xu Shengwen

Hu Zixi
Deng Shiqian
Zhang Kun, Chen Ran
Huang Rong
Ma Ruiguo, Lin Wei

3 Third

INDUSTRIAL DESIGN NO.6

CONTENTS 目录

- 076 Research on Creative Design Idea of Children's Toys
078 Research on Appearance Design of Sleeping Aromatherapy Based on Product Semantics
080 Research on Application of Minimalism in Vessel Design
082 Research on Application of Graphene Materials in Design of Small Household Appliances
084 Exploration on the Emotional Design of "One Eater" Kitchenware
086 Research on Application of Bionics Design in the Design of Balancing Car for Children
088 Design Methods for Cultural Creative Products Based on Perceptual Consumption
090 Research on Application of Metaphors in Artistic Handicrafts
092 Discussion on Relationship between Oriental Buddhist Ideas and Art Design
094 Application of Green Low Carbon Concept in Packaging Design
096 Research on Application of Freehand Illustrations in the Design of Modern Picture Books—Take "Myth and Legends for the Chinese Nation" as An Example
098 Research on Gamified Design of Fitness Products
100 Application Value of Graffiti Art in Modern Packaging Design
102 Research on Design of Mobile Mother and Infant Cabin Based on Users' Behaviors
104 Research on Application of Minimalist Style in Interior Environment Design
106 Gameplay Design of Preschool Kid Funitures
108 Design of Children's Chairs Based on Sustainable Concept

Yang Sha
Guo Tianshu
Liu Shuaixian
Yang Yan, Li Jin
Zhang Siyu, Lin Wei
Chi Ruifeng, Jiang Yusong
Li Yongwei, Liu Zhaolong
Chen Ming, Chen Bo
Sun Yaru, Guan Jiazheng
Huang Huiling, Huang Jinjie

Zhao Xiaoming, Gao Jingjing
Teng Weiming
Dai Wenyi
Guo Tiejun, Liu Sining
Jiang Xia, Yang Weidan
Chen Huizhen, Yang Yaping
Zhang Hao, Zhang Wen

FRONTIERS AND DYNAMICS

- 110 Anlysis on Changes to Product Interactive Design in IOT Background
113 Research on Strategies to Touch Spot Design for Elderly Travel Services
115 Research on Design of Intelligent Housing System for the Joint Rent Groups
117 Research on Design and Service Patterns of Intelligent Sleeping Cabin Based on Service Design Concept
119 Research on Design of Household Intelligent Growing Products

Lu Runhua
Li Wanyi, Huang Yushi, Song Qi
Hu Zhi, Zhu Duxin
Xu Jianghua, Weng Yi
Li Ting, Xiu Ying, Li Xinmei

CULTURE AND INHERITANCE

- 121 Research on the Definition of Cultural Landscape Heritage Value Based on Network Text Analysis—A Case Study of Lushan National Park
123 Research on Artistic Features of Kuilong in Han Dynasty
126 Research on Application of Snake Image in Jewelry Design
128 Application of Traditional Chinese Auspicious Cultural Elements in Product Design
130 Research on Re-Design of Traditional Folk Art Based on Cultural Reproduction Theory
132 Research on Creative Products Design of Yu Yam Ancestral Garden
134 Research on Protective Utilization and Activization of Ancient Jingtang Village in Qingzhou City
136 Design of Tourist Cultural Creative Tea Sets in Baita Mountain
138 Design and Promotion of Shengjing Cultural Creative Products
140 Application of Chinese Ink Painting Elements in Animation Design
142 Protection and Development of Weishan Historic and Cultural Ancient City in Dai
144 Application of Digital Illustrations in Design of Dunhuang Cultural Creative Products
146 Applicatino of Li Ethnic Traditional Architectural Elements in Beautiful Countryside Guide System
148 Application of Participatory Design Methods in Black Pottery Product Design in Suiling
150 Applicat ion of Huotang Culture in the Design of Southwestern Residential Buildings in New Era
152 A Preliminary Discussion on Application of Mirror Materials in Exterior Design and Renovation of Traditional Residences

Chen Chen, Yang Xiaopeng, Kan Bin
Yang Ruxi, Yao Jun
Xiang Ting, Zhang Weixiao, Liu Kexin
Qin Shuo, Zhou Junliang
Liu Peifang
Li Zishan
Zhang Yuxue, Shen Yongnan, Yang Chunsuo
Pan Yao, Wang Wenbing
Bian Shengyang, Chen Yuzhu
Li Yanmei
Fang Jing
Wei Yanyan, Liao Bin
Xu Longxiang, Zhang Kaili
Zhao Aili, Wang Liming, Yu Meng
Zhang Wenxing, Huang Tingyuan, Lu Ying
Zhang Yu

TECHNOLOGY AND PRACTICE

- 154 Research on Autistic Chidren Auxiliary Intervention Products Based on System Design Theory
157 Intelligent Design of Fire Extinguisher under the Concept of Situational Interaction
159 Structural Optimized Design of Ming Dynasty Style Round-Backed Armchairs Based on Finite Element Method

Xu Chuxuan, Wang Siwei
Wu Han
Li Jinglong, Wen Guanning

SECOND COVER

Cultural Creation Design on the First Congress of the Communist Party of China

THIRD COVER

Subscription Info of *Industrial Design*

4

Fourth