

中国工业设计协会理事单位 综合性专业设计杂志

国际标准刊号: ISSN 1672-7053 国内统一刊号: CN23-1516/T





Culture

专家访谈

008 大学、艺术教育和我们的职责——清华大学美术学院绘画系封帆访谈

DESIGN NO.9 CONTENTS 目录

设计前沿

- 010 柔性显示屏
- 011 智能单车把/智能安全套件
- 012 教育机器人/全新材料的阅读灯
- 013 反光陶瓷瓷砖 / 百变音箱
- 014 智能云 POS 机 / 军用三防平板
- 015 MINI 电脑产品设计 / 智能手表设计 / 智能 AR 眼镜
- 016 GOBE2 全自动卡路里监测智能手环
- 017 智能家居系列产品
- 018 立方体空气净化器 / 自动导引车 AGV
- 019 外卖无人配送机器人
- 020 动感屏工业设计/安全智能路由器
- 021 折叠式电脑设计
- **022** ORAL IRRIGATOR 新概念冲牙器
- 023 黑胶唱机设计
- 024 便携键盘鼓设计
- 025 Sense Rover X 智能教育车



高等美术教育

026	面向"创新创业"的工业设计专业社会导向课程改革研究	曹小	\琴	杨汝	全	李约	者洪
028	产学研结合的设计学专业学生创新实践能力培养模式研究	闫戈	で奇	葛梦	嘉	饶	蕾
031	建筑学专业《建筑构造》课程教学改革研究	简	洁	荆	璐	杨	璐
033	3D 打印技术在机械原理课程教学中的应用	毛	玮	蒋洪	奎		
035	依托创新实验室的工业设计专业分层化培养探索	许焊	堂	王艳	敏		



1

First

设计与理论

037	面向老年人认知的语音交互设计分析	倪亚楠
039	设计中的平衡——安阳公共交通无障碍设计研究	王 涛 李旭辉
041	毛线绣在服装设计中的应用研究	孙彤彤
043	数理美学在艺术作品与产品设计中的应用	彭醒醒
045	儿童床产品设计中的可持续理念探析	许小侠 李 龙 王晓英
047	自动驾驶汽车模块化设计研究	孙明阳
049	新中式风格在产品设计中的应用思考——以香插为例	李雪松 周 桐
051	面向视觉障碍人士的电子辅助出行设备设计研究	郑 翀
053	全域旅游视角下的山西文化创意产品设计微探	闫 格
055	中国茶文化在茶包装设计中的应用研究	钟慧云
057	不同类型旅游小镇的文化创意产品开发设计研究	吕滢娴 刘 洋 韩鹏飞
059	胶囊咖啡机的创新设计研究	李 明 金 钊
061	弱光环境下手机阅读疲劳状况调研与相关产品开发	胡佳斌 鹿丹琼
063	电子商务对产品设计的影响——以文化创意产品为例	关 阳
065	品牌文化对服装设计的影响——以三宅一生为例	武怡帆 阴耀耀
067	产业转型升级背景下苏作红木家具的设计创新研究	周丽华
070	移动应用界面的动效设计研究	于思航
072	工笔画元素与美学思想在当代平面设计中的应用研究	李云鹏
074	地域性景区 APP 导向系统设计研究	牛 丽
076	基于"审美移情"的公益广告海报设计	郭沛青
078	从文化创意品牌形象设计视角谈平潭岛旅游文化创意产业发展	陈昕
080	二十世纪上半叶袜标设计探究	叶华欣 田宝华
082	中国动画电影中角色本土化设计研究	张 帆
084	基于禅意文化的居住空间设计研究	段卓艳
086	基于养生文化的养生会所室内空间设计研究	王璋琪

industrial NO.9 CONTENTS 目录



张 艺 城市畸零空间的应用研究 088 张笑影 090 老年人卧室家具的创新设计分析 093 迈克尔·索耐特曲木椅的创新设计研究 李少宏 高宏博 杨小军 095 医院室内空间感官设计与实验模拟 肖 迪 张路娟 赵雨秋 097 老年人休闲娱乐场所研究——以大古道巷为例 张艳瑾 杨 瑛 099 基于可持续发展的人居环境弹性空间设计研究 唐婧 101 主题性校园雕塑在校园文化构建中的作用 张 波 商业美陈设计中装饰艺术造型的研究 潘华鑫 刘 鑫 苏 鑫 103 浅析日本陶瓷器中的侘寂美学 赵 蓉 蔺星宇 105 107 基于产品材料质感的语义研究 李 怡 王莉莉 赫伯特·拜耶的设计实践与二十世纪初现代展示观念的形成 郭宜章

文化与传承

112	海昏侯墓青铜雁鱼灯的设计分析及其对现代设计的启示	郭林森
116	"东江麒麟"造型特色及其中国传统审美范式观照	孙洪波
120	白裤瑶族传统元素在室内纺织品设计中的应用研究	李西熙
123	赣傩面具文化创意产品设计研究	王家飞
125	基于晋作家具制作技艺的文化创意产品设计研发与推广研究	郭宗平
127	中国传统元素在文化创意产品设计中的应用	吴闻超
129	东阳传统木雕窗棂纹样在装饰设计中的表现与应用研究	张锐
132	高密扑灰年画元素在老年人产品设计中的应用研究	仇广政 麦茂生 鞠洋洋
135	徽派建筑元素在当代建筑设计中的应用	朱 华 刘艳丽
137	文化思想演变对中国厕所设计的影响	傅天晨
139	浅谈玻璃材料在漆器底胎制作中的探索	安芝漩

前沿与动态

磊	
晓慧	蒋正清
文瑞	
荣军	
李阳	

技术与实践

151	计算机图形学视角下的 CAID 辅助工业设计模型构建研究	徐明亮	
153	基于 Creo 软件的连续韵律效果三维建模方法	易子钰	
155	3D 打印技术在游船造型设计中的应用	刘李明 马 飞 谷 燕	
158	"S环形" 无碳小车的结构设计研究	佘 亮 项 健 殷 建	

封二

ORAL IRRIGATOR 新概念冲牙器

封三

《工业设计》杂志征稿 征订启事

2 Second



EXPERT INTERVIEW

Universities, Arts Education and our Responsibilities—Interview with Feng Fan, Department of Painting, Academy of Art&Design, Tsinghua University

DESIGN NO.9 CONTENTS 目录

FEATURES PROJECT

- 010 Flexible Display
- 011 Smart bicycle handle / Intelligent Safety Kit
- 012 Educational robot / New Material Reading Lamp
- 013 Reflective Ceramic Tile / The Multivariant Speakers
- 014 Intelligent Cloud Pos Machine / Military Three Defense Tablet
- 015 Mini Computer Product Design / Smartwatch Design / Smart AR Glasses
- 016 GOBE2 Automatic Calorie Monitoring Smart Bracelet
- 017 Smart Home Series Products
- 018 Cube Air Purifier / Automatic Guide Car AGV
- 019 Takeout Delivery Robot
- 020 Industrial Design of Dynamic Screens / Secure Intelligent Router
- 021 Foldable Computer Design
- 022 ORAL IRRIGATOR New Concept Water Flosser
- 023 Vinyl Record Player Design
- 024 Portable Keyboard Drum Design
- 025 Sense Rover X: Intelligent Education Car



3 Third

HIGHER EDUCATION OF FINE ARTS

- 026 Research on Social-oriented Curriculum Reform of Industrial Design Major for "Innovation and Entrepreneurship"
- 028 Research on the Training Model of Innovative Practical Ability of Major of Design Students Combining Industry, Education and Research
- 031 Research on Teaching Reform of Architectural Structure Course in Architecture Specialty
- 033 The Application of 3D Printing Technology in the Teaching of Mechanical Principles
- 035 Exploration on Layered Training of Industrial Design Specialty Relying on Innovative Laborator

Cao Xiaoqin, Yang Ruquan, Li Xuhong

Yan Wenqi, Ge Mengjia, Rao Lei Jian Jie, Jing Lu, Yang Lu Mao Wei, Jiang Hongkui Xu Yiying, Wang Yanmin

DESIGN AND THEORY

- 037 Analysis on Speech Interaction Design for Elderly Cognition
- 039 Balance in Design—A Study on Barrier-free Design of Public Transport in Anyang
- 041 Research on the Application of Three-dimensional Embroidery of Wool in Clothing Design
- 043 Application of Mathematical Aesthetics in Art Works and Product Design
- 045 Design Analysis of Children's Bed Based on the Concept of Sustainability
- 047 Research on the Modular Design of Self-driving Car
- 049 Thinking on the Application of "Neo Chinese Style" in Product Design—Taking Incense stand as An Example
- 051 Design of Electronic Auxiliary Travel Equipment for the Visually Impaired
- 053 A Probe into Cultural and Creative Products Design from the Perspective of Shanxi Global Tourism
- 055 The Application of Chinese Tea Culture in Tea Packaging Design
- 057 Research on the Development and Design of Cultural and Creative Products in Different Types of Tourist Towns
- 059 Innovative Design of Capsule Coffee Machine
- 061 Research and Relevant Product Development of Regarding Mobile Phone Fatigue in Weak Light Environment
- 063 The Influence of E-Commerce on Product Design—Taking Cultural and Creative Products as an Example
- 065 The Influence of Brand Culture on Clothing Design—Take Issey Miyake as an Example
- **067** Research on Design Innovation of Suzuo Hongmu Furniture under the Background of Industrial Transformation and Upgrading
- 070 Research on Animation Design of Mobile Application Interface
- 072 Study on the Application of Meticulous Painting Elements and Aesthetic Thoughts in Contemporary Graphic Design
- 074 Research on the Design of APP Guide System in Regional Scenic Spots
- 076 Design of Public Service Advertising Poster Based on "Aesthetic Appreciation"
- 078 Discuss the Development of Pingtan Island Tourism Cultural and Creative Industry from the Cultural and Creative Brand Image Design

Ni Yanan

Wang Tao, Li Xuhui

Sun Tongtong

Peng Xingxing

Xu Xiaoxia, Li Long, Wang Xiaoying

Sun Mingyang

Li Xuesona, Zhou Tona

Zheng Chong

Yan Ge

Zhong Huiyun

Lv Yingxian, Liu Yang, Han Pengfei

Li Ming, Jin Zhao

Hu Jiabin, Lu Dangiong

Guan Yang

Wu Yifan, Yin Yaoyao

Zhou Lihua

Yu Sihang

Li Yunpeng

Guo Peiqing

Chen Xin

DESIGN NO.9 CONTENTS 目录

080	Research on Sock Mark Design in the First Half of the 20th Century	Ye Huaxin, Tian Baohua
082	Research on the Localization Design of Chinese Animated Film Characters	Zhang Fan
084	Research on Residential Space Design Based on Zen Culture	Duan Zhuoyan
086	Research on Interior Space Design of Health Club Based on Wellness Culture	Wang Zhangqi
880	Research on Application of Urban Leftover Space	Zhang Yi
090	Analysis on the Innovative Design of Bedroom Furniture for the Elderly	Zhang Xiaoying
093	Research and Innovative Design of Michael Thonet's Curving Chair	Li Shaohong, Gao Hongbo, Yang Xiaojun
095	Sensory Design and Experimental Simulation of Hospital Interior Space	Xiao Di, Zhang Lujuan, Zhao Yuqiu
097	Research on the Leisure and Entertainment Places of the Elderly—Taking Dagudao Lane as an Example	Zhang Yanjin, Yang Ying
099	Research on the Flexible Space Design of Human Settlements Based on Sustainable Development	Tang Jing
101	The Role of Thematic Campus Sculpture in the Construction of Campus Culture	Zhang Bo
103	Research on Decorative Art Modelling in Commercial Display Design	Pan Huaxin, Liu Xin, Su Xin
105	Wabi-sabi Aesthetic of Japanese Ceramics	Zhao Rong, Lin Xingyu
107	Semantic Research Based on Product Material Texture	Li Yi, Wang Lili
109	Herbert Bayer's Exhibition Design Practice and the Formation of Modern Exhibition Concept in the Early 20th Century	Guo Yizhang

CULTURE AND ITS INHERITANCE

112	The Design Analysis of YanYu Lamp in the Tomb of Haihun Marquis and its Enlightenment to Modern Design	Guo Linsen
116	Modeling Features of Dongjiang Kirin in the Pespective of Chinese Traditional Aesthetic Paradigm	Sun Hongbo
120	Study on the Application of Traditional Elements of Yao Puppet Yao in Interior Textile Design	Li Xixi
123	Research on the Design of Gannuo Mask Culture Creative Products	Wang Jiafei
125	Research on the Design of Literary Creation Products Based on Traditional Handicraft of Shanxi Furniture	Guo Zongping
127	Application of Chinese Traditional Elements in the Design of Cultural Products	Wu Wenchao
129	Study on the Performance and Application of Traditional Wood Carving Window Hanging Pattern in Decoration	
	Design in Dongyang	Zhang Rui
132	Study on Application of Gaomi Puffy Ash Pushing Elements in Product Design for the Elderly	Ohou Guangzheng, Mai Maosheng, Ju Yangyang
135	Application of Hui School Architectural Elements in Contemporary Architecture	Zhu Hua, Liu Yanli
137	The Influence of Cultural Thought Evolution on Chinese Toilet Design	Fu Tianchen
139	Discussion on the Exploration of Glass Materials in the Manufacture of Lacquer Base	An 7hixuan

LEADING EDGE AND LATEST UPDATES

141	Research on Smart Home Design Based on User Experience	Yang Lei
143	Research on the Social Function of Fulldome Based on Interactive Experience	Xu Xiaohui, Jiang Zhengqing
145	Touch Designer Based Interactive Display Project Development of Intangible Cultural Heritage—Take Pingyao	
	Tuiguang Paint as an Example	Wang Wenrui
147	Research on Virtual Reality Design Function from the Perspective of Human Demand	Wang Rongjun
149	Virtual Reality Technology under the Influence of Traditional Chinese Creative Ideas and Artistic Expression	Tang Liyang

TECHNOLOGY AND PRACTICE

151	Research on Construction of CAID Assisted Industrial Design Model from the Perspective of Computer Graphics	Xu Mingliang
153	3D Modeling Method of Continuous Rhythmic Effect Based on Creo Software	Yi Ziyu
155	Application of 3D Printing Technology in Cruise Ship Design	Liu Liming, Ma Fei, Gu Yan
158	Structural Design of an "S-ring" Carbon-free Trolley	She Liang, Xiang Jian, Yin Jian

SECOND COVER

ORAL IRRIGATOR New Concept Water Flosser

THIRD COVER

Notice of Soliciting Contributions and Subacription for the Journal of Industrial Design

