

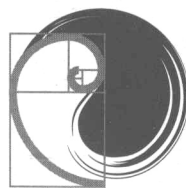
第三届艺术与科学 国际学术研讨会论文集

THESIS COLLECTION OF THE 3RD ART AND
SCIENCE INTERNATIONAL SYMPOSIUM

李政道 冯 远 主编

ART & SCIENCE

中国建筑工业出版社



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策划: 李砚祖 杨冬江
统筹: 张朵朵
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序

十一年前在中国，第一届“艺术与科学国际作品展”，追索一个新的概念，聚集了探索人类智慧的科学家与艺术家；六年前，以“当代文化中的艺术与科学”为主题的第二届展览，奉献的是前沿探索的成果；今天，以“信息·生态·智慧”为主题的第三届展览，将“创造与发展”和谐地互相结合，在艺术与科学的旗帜下引领对未来社会的思考。

2500年前，老子对人类的期许是：“域中有四大，而人居其一焉。人法地，地法天，天法道，道法自然”。显现了“自然”的“道”，就是“天地母”之“道”，因此“独立而不改，周行而不殆”，所以称为“大”，而“大曰逝，逝曰远，远曰返”。正因为如此，我们不断地探索自然与世界，结合了哲学和科学。

到今天，我们不仅是简单地寻找“万物之象”，而且初步成功地了解“天地之道”。

自然现象不依赖于科学家而存在，但对自然现象的抽象和总结是人为的。同样，在人类社会中，我们了解自然，并改造世界。我们完全有能力选择和改善我们的生活方式和环境。将人类珍贵的情感，升华为艺术，内涵自然法则。艺术与科学，基于人类创造力的共同基础，追寻共同的目标：真理的普遍性和人类的未来世界。

希望朋友们聚会艺术与科学的殿堂，理解大道，心怀天下，传承创新，探索未来！

李政道

诺贝尔物理学奖获得者

中国科学院外籍院士、美国科学院院士

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Foreword

Eleven years ago in China, the 1st Art and Science International Exhibition, which searches for a new concept, gathered scientists and artists who probed in human intelligence; six years ago, the 2nd Art and Science International Exhibition, with the theme of Art and Science in Contemporary Culture, presented achievements in frontier explorations, and today, the 3rd Art and Science International Exhibition, with the theme of Information ·Ecology· Wisdom, combined the creation with development harmoniously and guided the thoughts on future society under the flag of art and science.

Two thousand and five hundred years ago, Lao Zi gave his expectation on human being: human is one of the four most important things in universe. Human should take their law from the Earth; the Earth follows the trail of heaven; the heaven follows the trail of Tao; the law of the Tao is its being what it is. Apparently, the way of the nature is the way of mother of the heaven and earth, stands alone and does not change, goes round and does not weary, so it is great, and being great, it flows. It flows far away. Having gone far, it returns. That's why we keep on exploration of the nature and universe in combination with the philosophy and science.

Up to now, we can not simply search for images of all things but preliminarily succeed in finding out the way of the heaven and earth considerably.

The existence of natural phenomenon does not depend on scientists, but the abstract and summary thereupon is artificial. Similarly, in the human society, we get to know the nature and reform the world. We are perfectly capable of choosing and improving our lifestyle and environment, sublimating precious human emotions into art that contains natural laws. The art and science, based on a common ground of human creativity, head for a common goal: universality of truth and future world of human beings.

I hope all friends will gather in the hall of the art and science, understand the way what it is, open your mind to the world, inherit innovations and probe into the future.

Li Zhengdao

Nobel Prize in Physics Winner

The foreign academician of Chinese Academy of Sciences

The academician of American Academy of Sciences

Director of the Center for Advanced Science and Technology

Tsung -Dao Lee, Honorary Professor, Tsinghua University

前言

“科学揭示宇宙的奥妙，艺术揭示情感的奥妙。”艺术大师吴冠中先生揭示了真谛；“科学和艺术的基础是人类的创造力，它们追求的目标都是真理的普遍性”，诺贝尔物理奖得主，华裔科学家李政道先生更强调出一般规律。前辈学人在“艺术与科学”的思想碰撞与激荡回旋中，为我们探寻真理，奠定了认知基础。

“艺术与科学国际作品展暨学术研讨会”，到今天，已经走过 11 个年头。2001 年首届“艺术与科学的握手”我们记忆犹新：时任中央工艺美院院长的常沙娜女士基于中国传统文化的“阴阳说”原理，以敦煌艺术意象，形象化地阐释当代科学前沿研究成果；鲁晓波先生的“日月山”远古图式的再创造，以其蕴含着“天人合一”的中华民族特有的哲学理念，彰显出对未来的思考与实践的意义。先人的朴素辩证思想虽源起远古，但焕发的现代光彩正作用于当今。这既是中国的，也是人类的，艺术与科学牵手联姻，人类心灵相契，千万年的文脉承传永续。在科技日益发达之今日，尽管我们的方法路径相异，但共同追求的理想目标却是一致的。第二届“艺术与科学国际作品展暨学术研讨会”以“当代文化中的艺术与科学”为题，展示出时间与空间的开拓，深度与广度的和谐发展的繁荣景象。“生态·信息·智慧”作为第三届的主题，是同一命题的延伸、延续、延展，也是艺术与科学进展、进取、进步的成果汇报。

围绕这一主题，《第三届艺术与科学国际学术研讨会论文集》分设“艺术与科学”、“信息空间”、“生态场域”、“设计智慧”四大版块，收录了来自海内外各个研究领域的 94 篇论文。这些论文，记录了越来越深入的，对于艺术与科学结合的认识，也承载了在当下时代中，我们对于人类美好未来的不断探索与愿景。



中国文学艺术界联合会副主席

中央文史研究馆副馆长

清华大学美术学院名誉院长

Preface

“Science reveals the mysteries of the universe and art unveils the secrets of emotion.” Maestro Mr. Wu Guanzhong used to tell us this truth; “the common base of science and art is human’s creativity. The goal they both pursue is the universality of the truth”. Nobel winner and Chinese-American scientist Mr. Li Zhengdao also emphasized this universal rule. The predecessor scholars explored truth and laid the cognitive foundation for us in the collision, surge and circulation of “Art and Science” thinking.

“Art and Science International Works Exhibition and Symposium” has been held for 11 years up to now. I still remember the first Symposium held in 2001 and named “Handshake of Art and Science”: The then president of the Central Academy of Arts & Design, Ms. Chang Shana was based on “Yin Yang” prototype of Chinese culture, took Dunhuang Art as the embodiment and visualized modern scientific frontier research achievements; Mr. Lu Xiaobo’s “Sun Moon Mountain” re-created primitive painting, took Chinese unique thinking mode of “Syncretism of Man and Nature” as the connotation and presented the understanding of the future and the significance of practice. Search heaven and earth to carry forward our cause and forge ahead into the future. Although these naive dialectical thinkings of our ancestors originated from the primitive times, whose modern splendor is acting on today. They are the achievements of China and even the whole humanity. Art “married” with science. Human’s heart is essentially the same for hundreds of thousands of years. In the current times, with the advanced technology, we part at the foot of mountain and gradually meet in the top. The second “Art and Science International Works Exhibition and Symposium” in 2006, presented the prosperity of “Art and Science in Contemporary Culture” —Exploration in time and space, harmonious development of depth and width. “Information · Ecology · Wisdom” is taken as the theme of the third “Art and Science International Works Exhibition and Symposium” held today. It is natural growth, as well as spiral rise of development.

Centered on this theme, the *Thesis Collection of the Third Art and Science International Symposium* is comprised of four parts— “Art and Science”, “Information Space”, “Ecological Field” and “Design Wisdom”, and collects 94 theses covering multiple research fields written by both domestic and overseas authors. These theses record the more and more deepening knowledge on the integration of art and science and carry our ceaseless exploration and vision on human’s beautiful future in this generation.

Feng Yuan

China Federation of Literary and Art Circles Vice Chairman

Deputy Director of Central Research Institute of Culture and History and Honorary

Honorary Dean of the Academy of Arts and Design of Tsinghua University

目 录

序 前言

一、艺术与科学

2	艺术与科学：服务并完善原初的“人”	冯 远
6	生命与信息——我的一点思考	李衍达
9	城市生态文明的建设	钱 易
13	一部艺术 / 科学运动的简史：从引领者的角度来看 [美] 马克·伯纳德·赫伯特 [美] 戈登·诺克斯	
16	空间技术促进科学发现和社会进步	杨保华
21	费斯托的仿生学学习网络——受自然启发的自动化	[德] 费斯托公司
28	各学科间的交集：在自然、艺术和技术交汇点上的合作 [美] 香农·C·迈克缪伦 [美] 费边·温克勒	
35	何种科学与何种艺术——关于艺术与科学研究对象的拓展	刘 兵
38	重新想象静态的乌托邦：反思植物与人类的关系	[澳] 基思·阿姆斯特朗
48	内容的容器——一种被称为“手提包”的容器：论艺术物品	[西班牙] Isabel Tristán
54	叶绿素显现	[英] 艾克罗伊和哈维
62	古代造字思维与现代标志设计	戴吾三
67	齐白石、毕加索、爱因斯坦——艺术与科学思维的跨国度、跨学科共鸣	赵伶俐
73	天空克隆项目：利用二氧化硅气凝胶纳米材料创造空间的空灵之美 [希腊] 艾奥尼丝·米歇尔鲁迪斯 [希腊] 米克·格林	
85	感知与思维是否分裂？——有关“视觉与思维”的思考	丁月华
92	汉字艺术建构中的神经美学研究	朱永明
97	基于生物反馈的用户体验研究方法	柳 沙 侯晓星
104	在科学与艺术之间	丁 红
107	技术理性视野下的新感性批评	[中国香港] 黄金凤
112	艺术教育教学的科学性研究	梁 露
117	让想象力飞翔——论艺术创造力在当代视觉艺术中的升华	梁智龙
121	集体化时期农村卫生科普的符号化实践	朱洪启 刘 兵
127	以“城市针灸”重燃地方之气——艺术家的反思	[中国香港] 伍韶劲
139	回应科技——浅析现代金属雕塑之特征	王晓昕
144	人体雕塑中的中西审美差异	李 鹤
148	化石引发我们思考，并给我们以灵感	李歌军
150	“无限”来临时，我们要什么	李莉婷
154	信息时代篆刻艺术面临的挑战	李 响
160	北京当代美术群体与艺术园区生态可持续发展解析 ——以 798 等艺术原生态与文化创意产业园区共存研究为例	魏运成
165	细胞，人，社会	李天元

二、信息空间

168	具身·交互·体验：互动媒体艺术审美趋向	鲁晓波	刘月林
173	沉浸、触控与分享：基于数据驱动的新媒体艺术	李四达	
180	新媒体——艺术与科学的“生命”形态	姜 申	
185	情境与体验	吴 琼	
189	信息的重构：具身认知视野中的设计	张朵朵	
194	信息科学下文化生命的可持续发展——对文化遗址数字化重构的思考	刘 派	
199	修辞：信息传达的设计应用	安宝江	
203	建筑表皮设计信息化趋势	梁 峰	梁宇红 李 健
208	基于用户体验的交互式虚拟展示设计特征研究	张 旭	
212	虚拟展示中信息交互形式选择及评估	陈志刚	鲁晓波
218	基于移动平台的三维交互动画太极拳应用开发研究	祝 卉	
221	基于生态信息感知的人居环境系统设计——以光照系统设计为例	冼 枫	陈俊宇 刘 昕 曾靖喜 胡齐天
226	媒介·主体——语言重构与设计嬗变	王少茜	
230	城市媒体：智慧城市的交互体验设计研究框架	付志勇	[美] 克里斯托弗·科尔万
236	数字建构与表现：对两种不存在的二分法与两种二律背反的分析	[墨西哥]	Pablo Obayashi
241	媒介环境学视角下的新媒体艺术探析	单 鹏	
245	论前沿信息技术对不同设计领域的影响	杨茂林	
251	信息社会条件下的室内设计状况	崔笑声	
255	近未来移动计算与汽车信息交互界面设计展望	张茫茫	傅 江
260	关于叙事性交互衍生系统的定制式多媒体界面设计建构	[澳] 戴米恩·希尔斯	[澳] 纪 毅 [英] 恩斯特·艾德蒙斯

三、生态场域

266	中国古典设计的生态观：从“天人合一”到“以天合天”	李砚祖	
270	构筑设计新生态	张夫也	
276	由“艺术之美”走向“环境之美”——生态文明视角下的艺术设计审美观	韩 风	
281	设计的复杂性——复杂性设计观下走向生命时代的环境设计	董治年	
286	城市文化生态链中的历史景观——保护与再生	黄 艳	
292	中国生态城市化创新之路	蔡 琴	
298	生态城市背景下景观规划设计浅谈	杨小舟	
302	中国传统微环境设计中的可持续手法研究——以自然通风为例	王 琛	周浩明
309	生态建筑中的技术乌托邦	王志强	
313	“可持续”的灵感	范寅良	
319	探究最佳配置 塑造高品质生活	赵 菲	
323	设计可以不做什么——“少即多”设计思维的生态性	张 黎	
329	论生态观在我国科技类博物馆建设中的体现	袁 园	
334	天然染料的媒染剂与媒染方法	杨建军	崔 岩
341	取草木之精华 还时装以天然	秦寄岗	
346	衣生态——无处不在	杨 静	

353	“信息、生态、智慧”——情感科技与高性能运动服装设计之间的内动关系	周绍恩
358	基于艺术与科技融合的专业自行车服的设计创新 ...	罗 洁 毛爱华 欧秀全 李 翼 张 星
371	艺术品中的“造树”与“植树”	黄文智

四、设计智慧

378	从分离走向统一——艺术与科学的设计学建构	郑曙暘
389	呼唤工业设计的国家发展机制	蒋红斌
394	朋克运动和英国 20 世纪晚期的设计思潮	陈红玉
399	展示设计研究的天道——设计资源整合及利用研究	史习平
402	艺术设计评价的五个关键词	徐后平
405	情感性设计：信息时代的非物质设计智慧	李 江
411	论中国家纺设计可持续发展的战略与战术 ——从注重产品生产设计到强调信息整合设计的战略跨越	贾京生
416	在时尚设计与艺术的跨界合作中寻找“本真” 白玉力 [中国香港] 蔡璨明 [新加坡] 陈芊瑞 [中国香港] 区伟文	臧迎春
430	现代服装业的隐形翅膀——服装计算机辅助设计及网络运用	王海燕
434	服装 空间	李 薇
439	着衣之慧：内衣发展的艺术与技术	宋 炀
448	旗袍——从平面结构走向立体结构	朱小珊
454	“冒烟”的会展业	马 赛
458	从瑞典陶瓷设计的平衡发展看设计智慧	史晓翌 李正安
464	当代视觉传达设计引入“参数化设计”的初步探讨	陈 楠
468	展示行为中的参与性——单方意愿下“互动”气氛营造	张旭晨 张 宁
475	自媒体时代展示设计的新特征	王旭东
481	行业惯用色与品牌色彩识别设计	阎 旭
486	基于可持续发展观的婴幼儿书籍设计构想	高俊虹
491	从实用性、美观性谈老人家具的造型设计	陈 哲 赵 艳
498	香港设计艺术的文化基因	万长林
503	试论设计艺术的“思乡情结”	薛培培
507	智慧与技艺并存——信息时代下对三位手工艺者的探访	陈 玲
511	设计的民主化、理性和意义——由菲利普·斯塔克设计引发的思考	曲 敏
516	当代智能服装设计研究	臧迎春

Contents

Foreword

Preface

I . Art and Science

2	Art & Science: Serve for the Original Human Being and Its Perfection	Feng Yuan
6	My Thoughts on Life and Information	Li Yanda
9	Ecological Civilization in Urban Area	Qian Yi
13	A Brief History of the Art/Science Movement: Perspectives of a Leading Influencer [American] Mark Bernard Herbert [American] Gordon Knox	
16	Space Technology Power for Scientific Development and Social Progress	Yang Baohua
21	Festo's Bionic Learning Network—Automation Inspired by Nature[German] Festo AG & Co. KG	
28	Interdisciplinary Ecotones: Collaboration at the Intersection of Nature, Art and Technology [American] Shannon C. McMullen [American] Fabian Winkler	
35	What Kind of Science and What Kind of Art?—On the Expansion of Art & Science Research Objects	Liu Bing
38	Re-Imagining Static Utopias: Unraveling the Bat/Human Problem [Australiian] Keith Armstrong	
48	Container of Contents A Container Called Handbag, on the Artistic Object as a Pretext [Spanish] Isabel Tristán	
54	Chlorophyll Apparitions	[British] Ackroyd & Harvey
62	Chinese Characters and Modern Logo Designs	Dai Wusan
67	Qi Baishi, Picasso and Einstein—A Transnational and Interdisciplinary Resonance between Artistic Thinking and Scientific Thinking	Zhao Lingli
73	Sky Cloning Project : Working with the Ethereal Beauty of the Space Nanomaterial Silica Aerogel [Greek] Ioannis Michaloudis [Greek] Miik Green	
85	Are the Perception and Thinking Separate?—Reflections on “Visual Sense and Thinking”	Ding Yuehua
92	Neuroesthetics Research on the Art Construction of Chinese Characters	Zhu Yongming
97	The Research Methods for User Experience Based on Biofeedback	Liu Sha Hou Xiaoxing
104	Between the Science and Art	Ding Hong
107	The Criticism of New Sensibility from the Perspective of Technical Rationality [H. K. P. R. China] Huang Jinfeng	
112	Scientific Research on Art Education	Liang Lu
117	Let the Imagination Fly— On the Sublimation of Artistic Creativity in the Contemporary Visual Art	Liang Zhilong
121	The Symbolic Practice of the Hygiene Popularization in Rural Areas in the Period of the Collectivization	Zhu Hongqi Liu Bing
127	Reigniting the Genius Loci through Urban Acupuncture—An Artist's Reflection [H. K. P. R. China] Kingsley Ng	

139	Response to Science and Technology—A Simple Analysis of the Characteristics of Modern Metal Sculptures	Wang Xiaoxin
144	Aesthetic Differences between Chinese and Western Figure Sculptures	Li He
148	Fossils Lead Us to Think and Give Us Inspiration	Li Gejun
150	What do We Need When the “Infinity” Comes	Li Liting
154	The Challenge to Seal-Cutting Art in the Information Age	Li Xiang
160	The Analysis of the Sustainable Development of Beijing’s Contemporary Art Communities and Art Parks —A Case Study of 798 Art, Cultural and Creative Industry Park and Other Art Parks	Wei Yuncheng
165	Cell, Human Being and Society	Li Tianyuan

II . Information Space

168	Embodiment · Interaction · Experience : Aesthetic Trends in Interactive Media Arts	Lu Xiaobo	Liu Yuelin
173	Immersion, Touch and Sharing : The Data-Driven New Media Art	Li Sida	
180	New Media— “Life” Forms of Art and Science	Jiang Shen	
185	Context and Experience	Wu Qiong	
189	Information Reconstruction : Design from the Perspective of Embodied Cognition	Zhang Duoduo	
194	The Sustainable Development of Cultural Life Based on the Information Science —Thinking on the Digital Reconstruction of Cultural Ruins	Liu Pai	
199	Rhetoric: Application of Information Communication in Design	An Baojiang	
203	The Informationize Trend of Building Surface Design	Liang Feng	Liang Yuhong Li Jian
208	A Study of the Characteristics of Interactive Virtual Exhibition Design Based on the User Experience	Zhang Xu	
212	Selection and Evaluation of Information Interactive Form in Virtual Display	Chen Zhigang	Lu Xiaobo
218	A Study of the Development of 3D Interactive Tai Chi Boxing Animation Application Based on Mobile Platform	Zhu Hui	
221	Designing Living Environment System Based on Ecology Information Sensing—Case Study of Intelligent Lighting System Design	Xian Feng	Chen Junyu Liu Xin Zen Jingxi Hu Qitian
226	Media · Subject—Linguistic Reconstruction and Design Evolution	Wang Shaoqian	
230	Urban Media : A Research Framework for Interactive Experience Design in Smart City	Fu Zhiyong	[American] Christopher Kirwan
236	The Digital Construct and Representation : An Analysis of Two Non-Existent Dichotomies and Two Clear Oppositions	[Mexican] Pablo Obayashi	
241	The Exploration of New Media Art from the Perspective of Media Environmental Studies	Shan Peng	
245	On the Influences of Frontier Information Technology on Different Design Fields	Yang Maolin	
251	The Sate of Interior Design Context of Information Society	Cui Xiaosheng	
255	Prospects of Mobile Computing & Vehicle Information Interactive UI Design in Near Future	Zhang Mangmang	Fu Jiang
260	An Enactive Multimodal Interface for Narrative Construction	[Australian] Damian Hills	[Australian] Yi Ji [British] Ernest Edmonds

III . Ecological Field

- 266 Ecological Outlook in Chinese Classical Design : From “Union of Heaven and Man” to “Following Natural Laws of Heaven” Li Yanzu
- 270 Constructing New Design Ecology Zhang Fuye
- 276 From Beauty of Art to Beauty of Environment—Aesthetic Conception of Artistic Design from the Perspective of Ecological Civilization Han Feng
- 281 Complexity of Design—Environmental Design Toward Life Era under the Concept of Complexity Dong Zhinian
- 286 Historical Landscape in the Urban Cultural and Ecological Chain—Protection and Regeneration Huang Yan
- 292 The Road of Innovation for China’s Ecological Urbanization Cai Qin
- 298 Preliminary Discussion on Landscape Planning and Design under Ecological Urban Background Yang Xiaozhou
- 302 Research on the Sustainable Techniques of Chinese Traditional Micro-Environmental Design —Taking Natural Ventilation as an Example Wang Chen Zhou Haoming
- 309 Technological Utopianism in Ecological Architecture Wang Zhiqiang
- 313 “Sustainable” Inspirations Fan Yinliang
- 319 The Exploration of Optimal Configuration to Achieve the Life of High Quality Zhao Fei
- 323 Design with “Less is More” —Ecological Nature of “Less is More” Design Thinking ... Zhang Li
- 329 On the Embodiment of Ecological Conception in Construction of Scientific and Technological Museums in China Yuan Yuan
- 334 Natural Dyeing Mordants and Methods Yang Jianjun Cui Yan
- 341 Essence of Vegetation Brings Nature to Fashion Qin JiGang
- 346 Ecology Clothing in Everywhere Yang Jing
- 353 “Information, Ecology, Wisdom” —Intrinsic Interaction between Emotional Technology and High Performance Sportswear Design Zhou Shaoen
- 358 Innovations in Professional Cycling Sportswear Design Based on the Fusion of Art and Technology Luo Jie Mao Aihua Joe S. Au Li Yi Zhang Xing
- 371 “Creating Trees” and “Planting Trees” in Art Works Huang Wenzhi

IV . Design Wisdom

- 378 From Separation to Union—Construction of Art and Science in Design Science Zheng Shuyang
- 389 State Development Mechanism Calling for Industrial Design Jiang Hongbin
- 394 The Punk Movement and British Design Thought in Late Twentieth Century Chen Hongyu
- 399 Way to Demonstrate Design Research—Study on Integration and Utilization of Design Resources Shi Xiping
- 402 Five Key Words on Evaluation of Artistic Design Xu Houping
- 405 Emotional Design : The Wisdom of Immaterial Design in the Information Age Li Jiang
- 411 On Strategy and Tactics of Sustainable Design of Chinese Household Textile Jia Jingsheng
- 416 Searching for Authenticity in Fashion Design and Art Collaboration (FDAC)
Bai Yuli [H. K. P. R. China] Tsan-Ming [Singaporean] Jeanne Tan [H. K. P. R. China] Raymond W. Zang Yingchun

430	Invisible Wings of Modern Garment Industry—Application of Fashion CAD and Network	Wang Haiyan
434	Clothing, Space	Li Wei
439	The Wisdom of Wearing Clothing : Art and Technique of Underwear Design Development	Song Yang
448	Cheongsam—From Plane Structure to Tridimensional Structure	Zhu Xiaoshan
454	“Smoky” Exhibition Industry	Ma Sai
458	Study on the Design Wisdom from the Balanced Development of the Swedish Ceramic Design	Shi Xiaoyi Li Zhengang
464	Preliminary Discussion on Introducing “Parametric Design” into Contemporary Visual Communication Design	Chen Nan
468	Property of Participation in Display Behavior—Construction of Interactive Atmosphere under Unilateral Willingness	Zhang Xuchen Zhang Ning
475	New Characteristics of Display Design in the Age of We- Media	Wang Xudong
481	Industrial Customary Colors and Identification Design of Brand Color	Yan Xu
486	Application of Sustainable Development Concept in Infant Book Design	Gao Junhong
491	Study of Modelling Design of Elderly Furniture from Functionality and Aesthetics	Chen Zhe Zhao Yan
498	The Cultural Gene of Design Art in Hong Kong	Wan Changlin
503	Nostalgia Complex in Design Art	Xue Peipei
507	Coexistence of Wisdom and Craft—Interview with Three Handicraftsmen in Information Age	Chen Ling
511	Democratization, Reason and Significance of Design —Thinking on the Design Works of Philippe Starck	Qu Min
516	An Exploratory Study of Contemporary Smart Fashion	Zang Yingchun