**一、项目名称：**

车内空气质量测试分析治理关键技术研发

**二、提名单位及提名等级：**

提名单位：中汽研汽车零部件检验中心（宁波）有限公司

提名等级：中国发明协会发明创业奖·创新奖一等奖

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| **专利情况** | | | |
| 序号 | 专利名称 | 专利号 | 法律状况 |
| 1 | 一种用于车内气味在线检测系统的湿度补偿方法及系统 | ZL 201910551318.1 | 授权 |
| 2 | 一种车内气味物质确定方法及车内气味物质溯源方法 | ZL 201810235259.2 | 授权 |
| 3 | 一种车内空气品质智能管理系统及其使用方法 | ZL 201610382300.X | 授权 |
| 4 | 用于白车身车内空气质量检测的密封装置、密封方法及采样方法 | ZL 201611251609.1 | 授权 |
| 5 | 一种车用胶带挥发性有机物检测辅助装置及检测方法 | ZL 201610511415.4 | 授权 |
| 6 | 一种VOCs溶液的量取方法及标准气体的配制方法 | ZL 201510742198.5 | 授权 |
| 7 | 一种汽车材料典型气味物质模拟方法 | ZL 202210174314.8 | 授权 |
| 8 | 一种基于气味强度浓度关系的气味标气配制方法 | ZL 202010509820.9 | 授权 |
| 9 | 点样仪 | ZL 202110264311.9 | 授权 |
| 10 | 一种氧化石墨烯水性涂料及涂装工艺 | ZL 201910179802.6 | 授权 |

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| **论文情况** | | | |
| 序号 | 论文名称 | 刊名 | 作者 |
| 1 | Predicting the Emission Characteristics of VOCs in a Simulated Vehicle Cabin Environment Based on Small-Scale Chamber Tests: Parameter Determination and Validation | Environment International | Haimei Wang, Jihu Zheng, Tao Yang, Zhangcan He, **Peng Zhang**, Xuefeng Liu, Meixia Zhang, Lihua Sun, Xuefei Yu, Jing Zhao, Xiaoyu Liu, Baoping Xu, Liping Tong, **Jianyin Xiong** |
| 2 | 车内挥发性有机物治理性价比仿真分析研究 | 环境污染与防治 | 郭秋彦，冯书耀，**刘伟**，汪海丰，马秋，朱振宇，**王雷**，刘雪峰 |
| 3 | Colorimetric Array Electronic Nose for Automotive Interior Material Odor Detection | Science of Advanced Materials | **Chen Cui**, **Lei Wang**, **Wei Liu**, **Yalin Liu**, Siwei Zheng, Boyang Tian, Shijian Zhang, Zhenyu Zhu |
| 4 | Chemically/Magnetically Dual-Responsive Nanoparticles for Multipurpose Colorimetric Sensor | E3S Web of Conferences | **Wei Liu**, Xuefeng Liu, Jiabao Ren, **Chen Cui**, Shujie Xu |
| 5 | A Humidity Compensation Method for On-line Odor Detection System in the Vehicle | IOP Conference Series: Earth and Environmental Science | **Chen Cui**, **Wei Liu**, **Lei Wang**, Xuefeng Liu |
| 6 | Forward Simulation Study on the Emission Characteristics of Volatile Organic Compounds in Cars | Journal of Physics: Conference Series | Liping Tong, Shujie Xu, **Lei Wang**, **Wei Liu**, Xuefeng Liu |
| 7 | Study on the Calculation Method of VOCs Emission Index Per Unit Coating Area of Automobile | IOP Conference Series: Earth and Environmental Science | Jiabao Ren, Xuefeng Liu, **Lei Wang**, **Wei Liu** |
| 8 | Study on emission characteristics and health effects of volatile organic compounds in child seats | IOP Conference Series: Earth and Environmental Science | **Chen Cui**, **Lei Wang**, **Wei Liu**, Shujie Xu, Xuefeng Liu |
| 9 | PID电子鼻在车内空气质量评价的应用研究 | 哈尔滨商业大学学报(自然科学版) | **崔晨，刘伟，王雷** |
| 10 | 不同检测温度车内挥发性有机物浓度特征分析 | 汽车实用技术 | 朱振宇，**王雷，刘伟** |