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【在研科研项目】

1. 科技部国际合作项目：新型金刚石结构高能粒子探测器的合作研究（2015DFG02100），2014年-2017年。
2. 国家自然科学基金项目，氩等离子体弧处理金刚石自支撑膜强度提高的机制（51272024），2013年-2016年。
3. 国家自然科学基金项目，氢致金刚石表面载流子输运沟道形成与稳定机制研究（51402013），2015年-2017年。

【代表性学术论文】

1. S. Cao, C. Li, et al. Long-lived and well-resolved Mn²⁺ ion emissions in CuInS-ZnS quantum dots[J]. Scientific Reports, 2014, 4: 7510.
2. S. Liu, J.L. Liu, C.M. Li, et al. The mechanical enhancement of chemical vapor deposited diamond film by plasma low pressure/ high-temperature treatment [J]. Carbon, 2013, 65: 365-370.
3. C.M. Li, et al. Effect of arc characteristics on the properties of large size diamond wafers prepared by DC arc plasma jet CVD [J]. Diamond and Related Materials, 2013, 39: 47-52.
4. J.L. Liu, C.M. Li, et al. RF characteristic of MESFET on H-terminated DC arc jet CVD diamond film [J]. Applied Surface Science, 2013, 284: 798-803.
5. L. Wang, C. M. Li, et al. Low-aspect ratio graphite hollow nano-structures[J]. CrystEngComm, 2013, 15: 8907-8911.



Li Chengming, the professor of Institute for Advanced Materials and Technology, received his B.E. and in metallography and heat treatment from Beijing Institute of Iron and Steel Technology (Now named University of Science and Technology Beijing) in 1983, and his M.E. and Ph.D. in materials science from University of Science and Technology Beijing in 1995 and 1999. His recent research interest is application and development of carbon-based materials and functional films. He is the director of Single Crystal Diamond and Electronics Pan Pacific R&D and Industry International Alliance.

【Publications】

1. S. Liu, J.L. Liu, C.M. Li, et al. The mechanical enhancement of chemical vapor deposited diamond film by plasma low pressure/ high-temperature treatment [J]. Carbon, 2013, 65: 365-370.
2. S. Cao, C. Li, et al. Long-lived and well-resolved Mn²⁺ ion emissions in CuInS-ZnS quantum dots[J]. Scientific Reports, 2014, 4: 7510
3. C.M. Li, et al. Effect of arc characteristics on the properties of large size diamond wafers prepared by DC arc plasma jet CVD [J]. Diamond and Related Materials, 2013, 39: 47-52.
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