

Public Sector Funding (PSF) - Awarded Projects for Jan 2010 Call

| S/No | Title of Project | Principal Investigator | Grantee |
|------|---|--------------------------|---------|
| 1 | Ultra-high Density Ferroelectric Fatigue-free Resistive Random Access Memory | Prof Zhu Weiguang | NTU |
| 2 | Catalytic conversion of cellulose, biomass derived platform chemicals towards a more environmentally sustainable energy and chemical economy | A/Prof Yang Yanhui | NTU |
| 3 | Magnetic and magneto-(transport, optical) studies of IV-VI ferromagnetic semiconductors for spintronic applications | A/Prof Teo Kie Leong | NUS |
| 4 | Development of NEMS switch using CMOS compatible process technology for next-generation IC applications | A/Prof Lee Chengkuo | NUS |
| 5 | Si and SiGe Nanowire Cooler for Hot Spots in Integrated Circuits | Prof Li Baowen | NUS |
| 6 | Development of Novel Biomass-Based Amphiphilic Block Copolymers as Functional Materials | A/Prof Li Jun | NUS |
| 7 | Complete detoxification of multiple halogenated organic compounds by novel anaerobic microbes | A/Prof He Jianzhong | NUS |
| 8 | Cascade biocatalysis for sustainable chemical synthesis : development of new biotransformations and efficient biocatalysts | A/Prof Li Zhi | NUS |
| 9 | Techniques and Systems for Securing Scalable Multimedia Content Dissemination | Prof Robert Deng | SMU |
| 10 | Software optimization of high performance computing code for heterogeneous multicore platforms | A/Prof Wong Weng Fai | NUS |
| 11 | Characterizing and Exploiting Human Visual Attention for Automated Image Understanding and Description | Prof Mohan S Kankanhalli | NUS |
| 12 | Supporting Diagnostic Data Mining via Exploratory Hypothesis Testing and Analysis | Prof Wong Limsoon | NUS |
| 13 | Geographical Information Retrieval via Spatial Annotation of Web Media | Prof Chua Tat-Seng | NUS |
| 14 | Development of Methylcalix[4]resorcinarene-appended Macrocyclic-bonded Chiral Stationery Phases for Fast and High-resolution Chiral Separation in Capillary Electrochromatography | Dr Gong Yinhan | NUS |
| 15 | Stabilized Two-Phase Micro/Mini-Channel Cooling for Effective Thermal Management of Next Generation Electronics | A/Prof Lee Poh Seng | NUS |