# PART V
# Statistics of NSFC's Financial Allocation and Funding in 2012

## 5.1 Statistics of Financial Allocations for NSFC in 2012

Statistics of Financial Allocations for NSFC in 2012

Table 5–1 Unit: 10,000 yuan

| | |
|---|---|
| National Natural Science Fund | 1,647,600 |
| National Science Fund for Distinguished Young Scholars | 37,400 |
| National Science Fund for Talent Training in Basic Research | 15,000 |
| Total | 1,700,000 |

## 5.2 NSFC Funds for Projects Approved in 2012

Statistics of NSFC Funds for Projects Approved in 2012

Table 5 –2 （Unit：10,000yuan）

| Type of project | | | Funds |
|---|---|---|---|
| Research Projects | General Program | | 1,248,000 |
| | Key Program | | 156,700 |
| | Major Program | | 32,200 |
| | Major Research Plan | | 71,023 |
| | International（Regional）Joint Research Program | | 49,050.2 |
| Talent Projects | National Science Fund for Fostering Talents in Basic Science | | 24,510 |
| | Young Scientists Fund | | 337,500 |
| | Excellent Young Scientists Fund | | 40,000 |
| | National Science Fund for Distinguished Young Scholars | | 38,980 |
| | Fund for Creative Research Groups | New Projects | 17,640 |
| | | Extended Projects | 19,260 |
| | Fund for Less Developed Regions | | 120,000 |
| | Joint Research Fund for Overseas Scholars and Scholars in Hong Kong and Macao Scholars | Two – year projects | 2,340 |
| | | Extended Four – year projects | 4,000 |
| | Research Fund for International Young Scientist | | 1,890 |
| Projects for Research Environment Building | National Major Scientific Research Equipment | | 108,700 |
| | Fund for Fundamental Research of Scientific Instruments | | 15,000 |
| | Joint Fund | | 47,787 |
| | Fund for Key Science Journals | | 2,400 |
| | Fund for Excellent State Key Labs | | 740 |
| | Fund for Public Understanding of Science | | 500 |
| | Fund for Youth Activity | | 500 |
| | President and Directors´Funds and Other Special Funds | | 19,993 |
| | Fund for International（Regional）Cooperation and Exchange | | 6,872.511 |
| Total | | | 1,827,450.00 |

# 5.3 Funds for Research Programs

## General Program Projects

### Application and Funding Statistics of General Drgram Projects in 2012 (by Scientific Departments)

Table 5 –3 (Unit: 10,000 yuan)

| Scientific Department | Applications | Approved | | | | Funding rate(%) |
|---|---|---|---|---|---|---|
| | | Projects | Funding | Percentage of the total (%) | Average funding per project * | |
| Mathematical and Physical Sciences | 5,635 | 1,515 | 117,320 | 9.40 | 77.44 | 26.89 |
| Chemical Sciences | 7,125 | 1,585 | 123,690 | 9.91 | 78.04 | 22.25 |
| Life Sciences | 13,240 | 2,706 | 203,880 | 16.34 | 75.34 | 20.44 |
| Earth Sciences | 6,471 | 1,668 | 133,430 | 10.69 | 79.99 | 25.78 |
| Engineering and Materials Sciences | 15,746 | 2,729 | 218,230 | 17.49 | 79.97 | 17.33 |
| Information Sciences | 9,880 | 1,724 | 132,820 | 10.64 | 77.04 | 17.45 |
| Management Sciences | 4,811 | 764 | 41,240 | 3.30 | 53.98 | 15.88 |
| Health Sciences | 24,870 | 4,200 | 277,390 | 22.23 | 66.05 | 16.89 |
| Total | 87,778 | 16,891 | 1,248,000 | 100 | 73.89 | 19.24 |

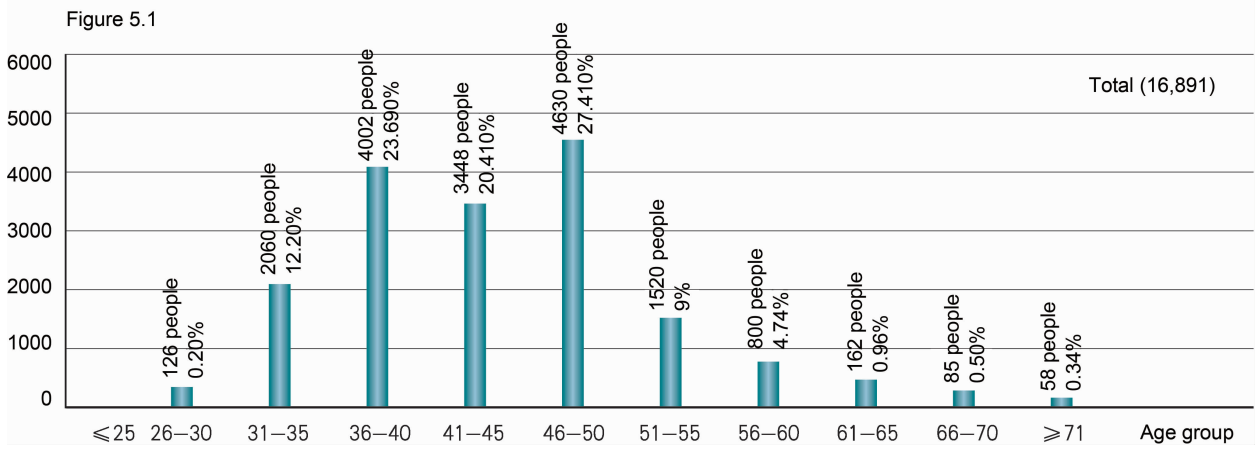
Note: average = funding/project; funding rate = No. of approved/ No. of proposals applied * 100.

Among them, there were 1732 applications for extended projects in the Young Scientists fund, of which 301 were approved with total funding of 227.986 million yuan.

There were 67,608 proposals from male PIs with 13,158 funded and 20,170 from female PIs with 3,733 funded.

### Age Distribution of Principal Investigators of General Program Projects in 2012

Figure 5.1



## Professional Structure of Research Teams for Funded Projects within General Program in 2012

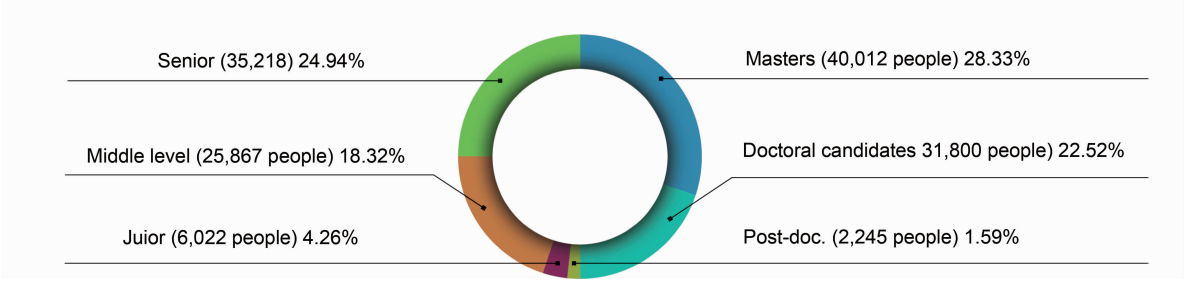



Figure 5.2

## Statistics of General Program Projects by Region in 2012

Table 5－4 （Unit：10,000 yuan）

| Region | | Projects | Funding | | Region | rojects | Funding |
|---|---|---|---|---|---|---|---|
| 1 | Beijing | 3,488 | 263,635.2 | 17 | Fujian | 345 | 25,069 |
| 2 | Shanghai | 1,829 | 132,069 | 18 | Henan | 259 | 18,710 |
| 3 | Jiangsu | 1,569 | 116,910.2 | 19 | Gansu | 172 | 13,472 |
| 4 | Guangdong | 1,223 | 88,293.5 | 20 | Hebei | 177 | 12,948 |
| 5 | Hubei | 1,052 | 77,373.3 | 21 | Shanxi | 143 | 10,613 |
| 6 | Zhejiang | 920 | 67,315 | 22 | Yunnan | 104 | 7,562 |
| 7 | Shaanxi | 821 | 60,582.6 | 23 | Xinjiang | 43 | 3,182 |
| 8 | Shandong | 725 | 54,020.8 | 24 | Jiangxi | 37 | 2,803 |
| 9 | Liaoning | 634 | 46,489.4 | 25 | Guangxi | 34 | 2,666 |
| 10 | Hunan | 560 | 40,985.3 | 26 | Guizhou | 32 | 2,498 |
| 11 | Sichuan | 539 | 39,644.5 | 27 | Hainan | 14 | 940 |
| 12 | Anhui | 458 | 34,973.4 | 28 | Qinghai | 11 | 804 |
| 13 | Heilongjiang | 460 | 34,152 | 29 | Inner Mongolia | 11 | 801 |
| 14 | Tianjin | 456 | 33,010 | 30 | Ningxia | 3 | 198 |
| 15 | Chongqing | 435 | 30,651.8 | 31 | Tibet | 1 | 78 |
| 16 | Jilin | 336 | 25,550 | | | | |

# Key Program Projects

## Application and Funding of Projects of Key Program Projects (by Scientific Department) in 2012

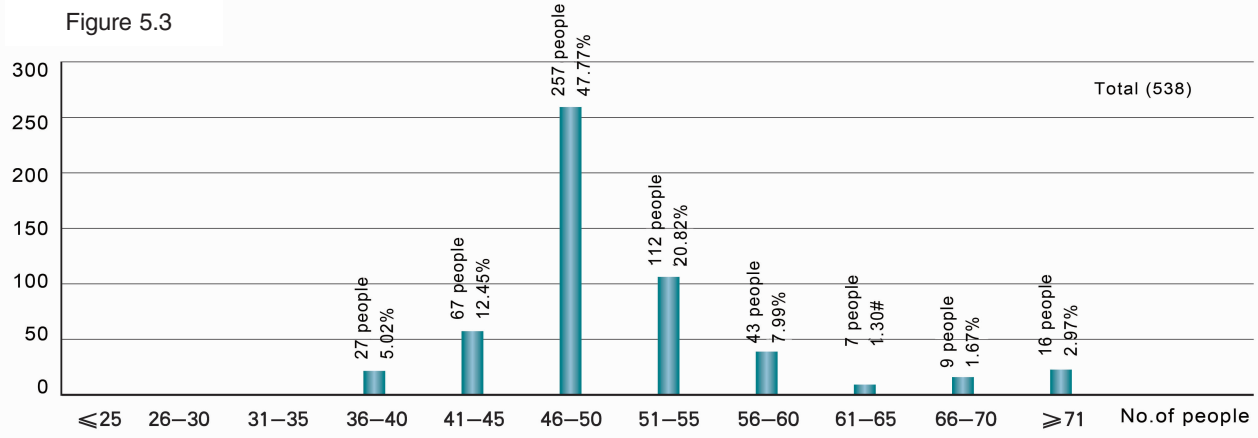
Table 5 –5 （Unit：10,000 yuan）

| Scientific Department | Applications | Approved | | | | Funding rate(%) |
|---|---|---|---|---|---|---|
| | | Projects | Funding | Percentage of the total (%) | Average funding per project * | |
| Mathematical and Physical Sciences | 242 | 60 | 17,890 | 11.42 | 298.17 | 24.79 |
| Chemical Sciences | 240 | 55 | 16,470 | 10.51 | 299.45 | 22.92 |
| Life Sciences | 484 | 76 | 22,500 | 14.36 | 296.05 | 15.70 |
| Earth Sciences | 514 | 74 | 22,330 | 14.25 | 301.76 | 14.40 |
| Engineering and Materials Sciences | 369 | 82 | 23,940 | 15.28 | 291.95 | 22.22 |
| Information Sciences | 254 | 71 | 21,000 | 13.40 | 295.77 | 27.95 |
| Management Sciences | 139 | 30 | 7,390 | 4.72 | 246.33 | 21.58 |
| Health Sciences | 524 | 90 | 25,180 | 16.07 | 279.78 | 17.18 |
| Total | 2,766 | 538 | 156,700 | 100 | 291.26 | 19.45 |

Note: 2,502 proposals from male PIs, 459 granted and 264 from female PIs with 48 granted.

## Age Distribution of Principal Investigators of Key Program Projects in 2012

Figure 5.3




## Professional Structure of Members of Research Groups for Key Program Projects in 2012

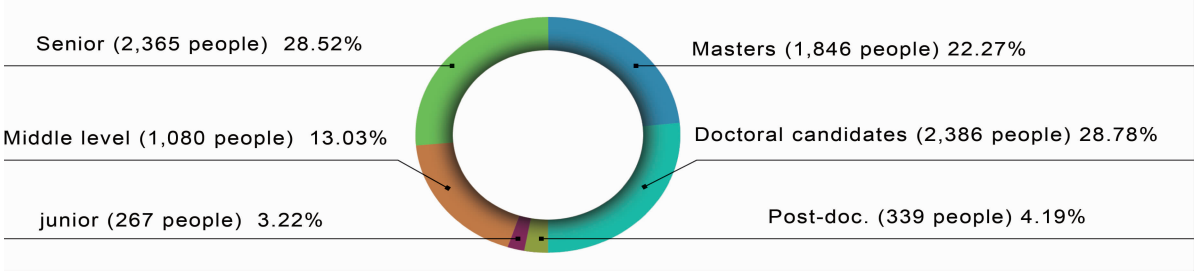



Figure 5.4 (Total 8,291)

## Major Program

### Funding of Major Program Projects in 2012

Table 5 – 6 (Unit: 10,000 yuan)

| Name of project | PI | Professional title | Home institution | Funding amount |
|---|---|---|---|---|
| New method of high precision digital processing of complex surface based on conjugate mapping of flow field | Zheng Zhiming | Professor | Beihang University | 2,000 |
| Modeling, analysis and control of nonlinear dynamics of large expandable spatial structures | Hu Haiyan | Professor | Beijing Institute of Technology | 2,000 |
| Studies on some key basic issues in water science | Gao Hongjun | Researcher | Institute of Physics, CAS | 2,000 |
| Polarization and regulation in molecular solid | Gao Song | Professor | Peking University | 1,800 |
| Efficient synthesis of Polycyclic natural products with important drug value | Tu Yongqiang | Professor | Lanzhou University | 1,800 |
| Theoretical studies on low energy level excited state of electrons in molecular aggregate | Shuai Zhigang | Professor | Tsinghua University | 1,800 |
| Molecular mechanism of trait variation in process of crop polyploidy formation | Sun Qixin | Professor | China Agricultural University | 1,500 |
| Mechanism of impact of organism in land ecosystems on carbon – nitrogen – water coupled cycles | Yu Guiduan | Researcher | Institute of Geographic Sciences and Natural Resources Research, CAS | 1,500 |
| Physiology and genetic mechanism of adapting to extreme environment by deep sea microorganisms | Zhang Yuzhong | Professor | Shandong University | 1,500 |
| Desertification of Asian inland and evolution of west wind climate since Oligocene | An Zhisheng | Researcher | Institute of Earth Environment, CAS | 2,000 |
| Major biological events in Paleozoic ocean | Shen Shuzhong | Researcher | Nanjing Institute of Geology and paleontology, CAS | 2,000 |
| Science of preparing 2-D atomic crystal materials and explorations on its photoelectric properties | Xu Ningsheng | Professor | Sun Yat-sen University | 1,500 |
| Composite pollution process and principles of regulation of drinking water quality | Qiu Jiuhui | Researcher | Research Center for Eco-Environmental Sciences, CAS | 1,500 |
| Basis of design and manufacturing of Minimally Invasive surgery devices | Wang Shuxin | Professor | Tianjin University | 1,500 |
| Basic theory and key technology of long wavelength inferred focal plane devices | Dai Ning | Researcher | Shanghai Institute of Technical Physics, CAS | 2,000 |
| Key devices and technology of optical fiber transducer network | Jiang Desheng | Professor | Wuhan University of Technology | 2,000 |
| Basic theory and key technology of high performance operation and control for complex industrial system | Sun Youxian | Professor | Zhejiang University | 2,000 |
| Discovery of animal pathogen and studies on its effect on inducing human diseases | Xu Jianguo | Researcher | Institute for Communicable Disease Control and Prevention, Chinese Center for Disease Control and Prevention | 1,800 |
| Total | | | | 32,200 |

# Major Research Plan

## Funding of Major Research Plan Projects in 2012

Table 5 – 7 (Unit: 10,000 yuan)

| Title of major research plan | proposals | Proposals approved | Funding amount |
|---|---|---|---|
| Studies on scientific activities based on network | 1 | 1 | 240 |
| Studies on signal transmission based on small chemical molecular process | 10 | 6 | 5,000 |
| Studies on the Destruction of North China Craton | 19 | 7 | 2,750 |
| Dynamic disasters in major engineering projects | 6 | 3 | 5,100 |
| Key Basic Scientific Issues in Near Space Aircraft | 43 | 33 | 3,840 |
| Molecular mechanism of plant hormone | 36 | 11 | 3,000 |
| Basic research on high confidence software | 9 | 2 | 4,000 |
| Apparent genetic mechanism of cell programming and re-programming | 56 | 13 | 2,500 |
| Single Quantum State Exploration and its Interactions | 34 | 16 | 4,300 |
| Cognitive computation of visual and audio information | 5 | 2 | 1,800 |
| Structural Design and Controllable Preparation of Function Oriented Crystal-state Materials | 93 | 16 | 2,070 |
| Fundamental Research on Nano Manufacturing | 20 | 4 | 1,000 |
| Research on Unconventional Emergency Management | 62 | 10 | 3,195 |
| Integrated Research on the Eco-Hydrological Process of Heihe Basin | 7 | 3 | 2,578 |
| Fuel Proliferation and Transmutation in Advanced Nuclear Fission Energy | 56 | 18 | 3,100 |
| Controllable self assembly system and its functionalization | 161 | 29 | 3,000 |
| Deep Sea Process and Evolution of the South China Sea | 20 | 12 | 3,500 |
| The Regulation Network and Molecular Mechanisms of Malignant Transformation of Non-resolving Inflammation | 79 | 32 | 4,100 |
| Basic algorithm and computational modeling in high performance scientific computation | 70 | 25 | 3,150 |
| Multi genetic function and mechanism in micro evolution process | 109 | 27 | 4,000 |
| Fundamentals of emotional and memory neural loops | 88 | 33 | 4,200 |
| Photo electric conversion materials for energy use | 220 | 32 | 4,600 |
| Total | 1,204 | 335 | 71,023 |

## 5.4 Funds for Talented Training Programs

### Projects for Young Scientists Fund

#### Application and Funding of Projects of Young Scientists Fund in 2012 (by Scientific Department)

Table 5 -8 (Unit: 10,000 yuan)

| Scientific Department | Applications | Approved | | | | Funding Rate (%) |
|---|---|---|---|---|---|---|
| | | Projects | Funding | Percentage of the total (%) | funding per project(%) | |
| Mathematical and Physical Sciences | 4,753 | 1,501 | 37,510 | 11.11 | 24.99 | 31.58 |
| Chemical Sciences | 4,687 | 1,271 | 31,780 | 9.42 | 25.00 | 27.12 |
| Life Sciences | 8,899 | 2,036 | 46,830 | 13.88 | 23.00 | 22.88 |
| Earth Sciences | 4,832 | 1,407 | 35,200 | 10.43 | 25.02 | 29.12 |
| Engineering and Materials Sciences | 9,926 | 2,505 | 62,610 | 18.55 | 24.99 | 25.24 |
| Information Sciences | 7,306 | 1,688 | 41,990 | 12.44 | 24.88 | 23.10 |
| Management Sciences | 3,376 | 607 | 12,150 | 3.60 | 20.02 | 17.98 |
| Health Sciences | 16,007 | 3,007 | 69,430 | 20.57 | 23.09 | 18.79 |
| Total | 59,786 | 14,022 | 337,500 | 100 | 24.07 | 23.45 |

Note: 31,298 proposals from male PIs with 8,234 granted; 28,488 from female with 5,788 granted.

#### Professional Structure of Research Teams for Young Scientists Fund in 2012

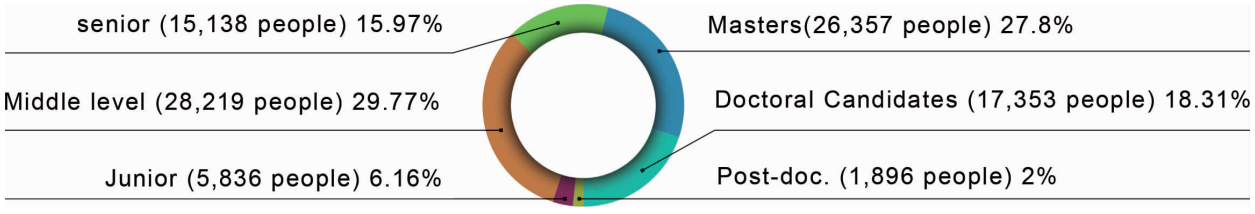



Figure 5.5 (Total 94,799)

## Distribution of Projects for Young Scientists Fund by Region in 2012

Table 5 -9 (Unit: 10,000 yuan)

| Region | Projects | Funding | Region | Projects | Funding | Region | Projects | Funding |
|---|---|---|---|---|---|---|---|---|
| Beijing | 2,402 | 58,059.10 | Heilongjiang | 443 | 10,669.50 | Jiangxi | 115 | 2,749.00 |
| Jiangsu | 1,399 | 33,844.40 | Anhui | 397 | 9,734.50 | Xinjiang | 62 | 1,509.00 |
| Shanghai | 1,322 | 31,370.50 | Tianjin | 406 | 9,721.00 | Guangxi | 58 | 1,401.00 |
| Guangdong | 935 | 22,208.50 | Fujian | 331 | 7,897.50 | Guizhou | 33 | 801.00 |
| Hubei | 870 | 20,813.50 | Chongqing | 310 | 7,312.50 | Hainan | 32 | 748.00 |
| Shaanxi g | 717 | 17,425.00 | Jilin | 295 | 7,195.50 | Inner Mongolia | 32 | 746.00 |
| Zhejian | 721 | 17,175.50 | Henna | 287 | 6,921.00 | Ningxia | 20 | 479.00 |
| Shandong | 671 | 16,203.50 | Gansu | 207 | 5,277.00 | Qinghai | 9 | 213.00 |
| Liaoning | 562 | 13,476.00 | Hebei | 152 | 3,651.00 | Xizang | 2 | 46.00 |
| Sichuan | 508 | 12,366.00 | Yunnan | 136 | 3,324.00 | | | |
| Hunan | 465 | 11,145.50 | Shanxi | 123 | 3,017.00 | | | |
| | | | | | | Total | 14,022 | 337,500.00 |

# Projects of the Fund for Less Developed Regions

## Application and Funding of Projects of the Fund for Less Developed Regions in 2012

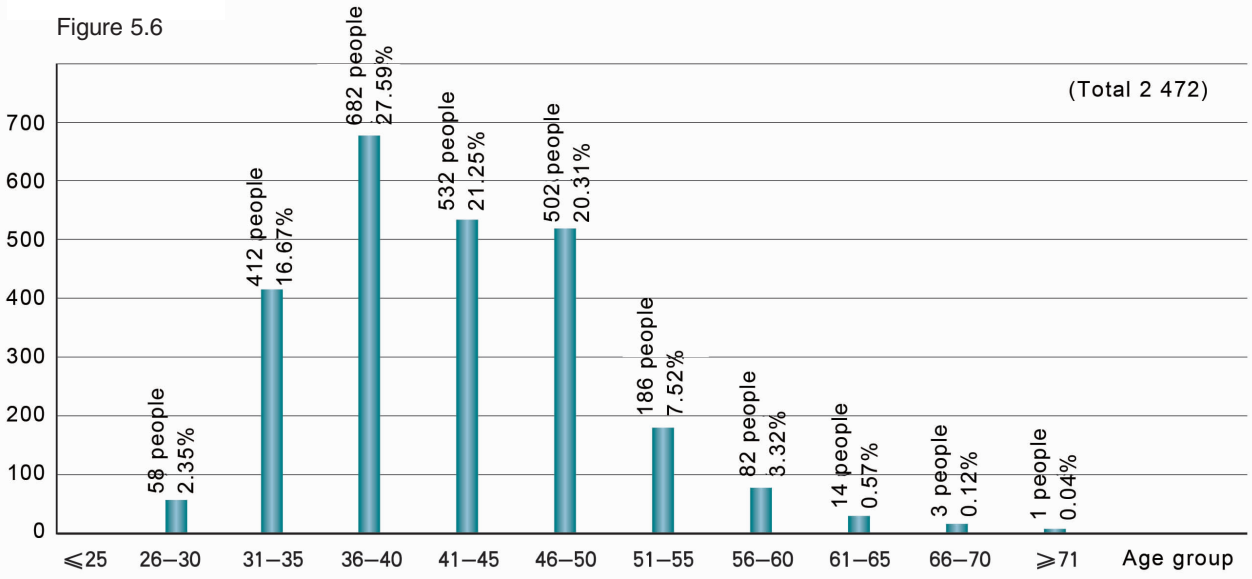
Table 5－10 （Unit：10,000 yuan）

| Region | Applications | Approved | | | | Funding rate（%） |
|---|---|---|---|---|---|---|
| | | Projects | Funding | Percentage of the total（%） | Average | |
| Jiangxi | 1,939 | 467 | 22,333.10 | 18.61 | 47.82 | 24.08 |
| Yunnan | 1,620 | 377 | 18,273.50 | 15.23 | 48.47 | 23.27 |
| Xinjiang | 1,689 | 340 | 16,619.10 | 13.85 | 48.88 | 20.13 |
| Guangxi | 1,657 | 338 | 16,465.00 | 13.72 | 48.71 | 20.40 |
| Inner Mongolia | 1,004 | 234 | 11,378.50 | 9.48 | 48.63 | 23.31 |
| Gansu | 1,008 | 213 | 10,487.70 | 8.74 | 49.24 | 21.13 |
| Guizhou | 639 | 140 | 6,853.00 | 5.71 | 48.95 | 21.91 |
| Ningxia | 597 | 123 | 5,967.50 | 4.97 | 48.52 | 20.60 |
| Hainan | 411 | 94 | 4,587.60 | 3.82 | 48.80 | 22.87 |
| Jilin | 243 | 47 | 2,310.00 | 1.92 | 49.15 | 19.34 |
| Qinghai | 202 | 34 | 1,610.00 | 1.34 | 47.35 | 16.83 |
| Tibet | 101 | 26 | 1,242.00 | 1.04 | 47.77 | 25.74 |
| Hunan | 89 | 21 | 1,033.00 | 0.86 | 49.19 | 23.60 |
| Hubei | 51 | 18 | 840.00 | 0.7 | 46.67 | 35.29 |
| Sichuan | 5 | 0 | 0 | 0 | 0 | 0 |
| Others | 4 | 0 | 0 | 0 | 0 | 0 |
| Total | 11,258 | 2472 | 120,000.00 | 100 | 48.54 | 21.96 |

Note：there were 7,721 male applicants with 1,728 granted and 3,537 female applicants with 744 granted.

## Age Distribution of Principal Investigators of Projects of the Fund for Less Developed Regions in 2012

Figure 5.6




## Professiond Structure of Research Teams for the Fund of Less Developed Regions In 2012

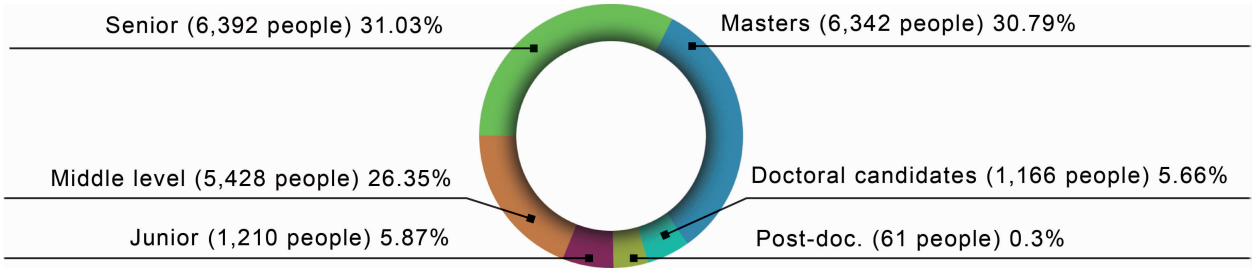



Figure 5.7 (Total 20,599)

## Excellent Young Scientists Fund

As a new program in the talent-training programs, Excellent Young Scientists Fund effectively links with the Young Scientists Fund and the National Science Fund for Distinguished Young Scholars. It mainly supports young scientists who have 5 to 10 years research experience and have made certain research achievements with creative ideas and actively involved in frontiers of science to conduct basic research in directions of their own choice. The year 2012 was the first year of implementation of the Excellent Young Scientists Fund, and there were totally 3,587 young scientists submitting applications. After expert review, 400 of them were granted with a total funding of 400 million yuan.

### Application and Funding of Projects of Excellent Young Scientists Fund in 2012 (by Scientific Department)

Table 5 - 11 (Unit: 10,000 yuan)

| Scientific Department | Applications | Approved | | | Funding Rate (%) |
|---|---|---|---|---|---|
| | | Projects | Funding | Percentage of the total (%) | |
| Mathematical and Physical Sciences | 384 | 52 | 5,200 | 13.00 | 13.54 |
| Chemical Sciences | 500 | 57 | 5,700 | 14.25 | 11.40 |
| Life Sciences | 553 | 56 | 5,600 | 14.00 | 10.13 |
| Earth Sciences | 302 | 40 | 4,000 | 10.00 | 13.25 |
| Engineering and Materials Sciences | 646 | 73 | 7,300 | 18.25 | 11.30 |
| Information Sciences | 532 | 53 | 5,300 | 13.25 | 9.96 |
| Management Sciences | 163 | 15 | 1,500 | 3.75 | 9.20% |
| Health Sciences | 507 | 54 | 5,400 | 13.50 | 10.65 |
| Total | 3,587 | 400 | 40,000 | 100 | 11.15 |

Note: there were 2,695 male applicants with 324 granted and 892 from female applicants with 76 granted.

## National Science Fund for Distinguished Young Scholars

In 2012, a total of 1942 applications were received for National Science Fund for Distinguished Young Scholars. After review, 200 were funded with the funding of 2 million yuan for each for 4 years (1.4 million yuan for the awardees in mathematics and management sciences).

### Awardees of the National Science Fund for Distinguished Young Scholars in 2012

Table 5－12 （Unit：10,000 yuan）

| | Name | Project name | Homeinstiuion |
|---|---|---|---|
| 1 | Kong Xu | Formation and evolution of galaxies and composition of stellar population | University of Science and Technology of China |
| 2 | Fu Baohua | Algebraic geometry | Academy of Mathematics and Systems Science，CAS |
| 3 | Xu Xuejun | Finite element method and its applications | Academy of Mathematics and Systems Science，CAS |
| 4 | Leng Jinsong | Mechanical behavior of large deformation intelligent composite materials | Harbin Institute of Technology |
| 5 | Wu Jun | Continued fraction，Diophantine Approximations and fractal geometry | Huazhong University of Science and Technology |
| 6 | Wu Hong | Optical inferred properties of nearby galaxies | National Astronomical Observatories，CAS |
| 7 | Li Hailiang | Partial differential Equations | Capital Normal University |
| 8 | Yao Yugui | First principle of Berry Phase in solid materials | Beijing Institute of Technology |
| 9 | Zhao Yumin | Theory of structures of atomic nucleus | Shanghai Jiao Tong University |
| 10 | Xu Renxin | Pulsar and quark star | Peking University |
| 11 | Sheng Li | Condensed matter physics | Nanjing University |
| 12 | Huang Wen | Topological dynamical systems and ergodic theory | University of Science and Technology of China |
| 13 | Zhang Zhong | Mechanical design and experimental studies of nano composite materials | National Centre for Nano Science and Technology |
| 14 | Tai Renzhong | Soft X-ray microscopy | Shanghai Institute of Applied Physics，CAS |
| 15 | Hu Xiaoyong | Material and physics of photonic crystal micro nano photonic devices | Peking University |
| 16 | Tang Niansheng | Statistical inductions of biomedical data | Yunnan University |
| 17 | Tao Jianjun | Flow stability | Peking University |

Table 5－12 （Unit：10,000 yuan）

| | Name | Project name | Homeinstiuion |
|---|---|---|---|
| 18 | Cao Jun | Reactor neutrino physics | Institute of High Energy Physics，CAS |
| 19 | Yang Yadong | Particle physics | Central China Normal University |
| 20 | Chen Zhanghai | Spectrum studies and regulation of nonlinear phenomenon of quasi particle and atoms | Fudan University |
| 21 | Zhou Haijun | Statistical physics of self spinning glass and application of its interdisciplinary studies | Institute of Theoretical Physics，CAS |
| 22 | Tan Pingheng | Optical property of 2-D super thin laminar crystal materials | Institute of Semiconductors，CAS |
| 23 | Wen Guilin | Nonlinear theory ，control and engineering application of non smooth system | Hunan University |
| 24 | Chen Xiaowei | Penetration and amour piecing dynamics | Institute of Overall Engineering，China Academy of Engineering Physics |
| 25 | Guo Jiandong | Artificial low dimensional structures of complex transit metal oxides | Institute of Physics，CAS |
| 26 | Zhang Lixin | Statistical limit theory and self adaptive design theory | Zhejiang University |
| 27 | Duan Huiling * | Non uniform materials and structural mechanics | Peking University |
| 28 | Guo Xuefeng | Physical chemistry | Peking University |
| 29 | Li Zichen | Polymer chemistry | Peking University |
| 30 | Liu Lei | Physical organic chemistry | Tsinghua University |
| 31 | Ge Wei | Fluidization technology and multiphase flow reaction engineering | Institute of Process Engineering，CAS |
| 32 | Niu Li | Electro analytic chemistry | Changchun Institute of Applied Chemistry，CAS |
| 33 | Wang Zhaohui | Chemistry of organic molecular functional materials | Institute of Chemistry，CAS |
| 34 | Wei Yongge | Chemistry of poly acid and its organic derivatives | Tsinghua University |
| 35 | Wang Xiangke | Environmental radioactive chemistry | Hefei Institutes of Physical Science，CAS |
| 36 | Wei Min * | Assembly chemistry of organic super molecular Intercalation | Beijing University of Chemical Technology |
| 37 | Zhang Wen | Ferroelectric and dielectric compound | Southeast University |

Table 5－12 （Unit：10,000 yuan）

| | Name | Project name | Homeinstiuion |
|---|---|---|---|
| 38 | Zhang Jiepeng | Porous material of coordination polymer | Sun Yat－sen University |
| 39 | Chen Ling * | Inorganic solid materials | Fujian Institute of Research on the Structure of Matter，CAS |
| 40 | Chen Peng | Chemical biology | Peking University |
| 41 | Chen Huanwen | Direct mass spectroscopy analysis method for complex base samples | East China Institute of Technology |
| 42 | Li Weixue | Theory of surface catalyst | Dalian Institute of Chemical Physics，CAS |
| 43 | Zhou Yongfeng | Self assembly of hyper branched polymer and cell simulation chemistry | Shanghai Jiao Tong University |
| 44 | Chen Junwu | Structural design and properties of new types of polymer materials related to interface modification of polymer photoelectric devices | South China University of Technology |
| 45 | Liu Yi | Bio thermal chemistry | Wuhan University |
| 46 | Lu Anhui | Fundamentals of physical chemistry of charcoal materials | Dalian University of Technology |
| 47 | Ma Junan | Asymmetric controlled synthesis of fluorine containing organic compound | Tianjin University |
| 48 | Ouyang Gangfeng | Environmental analytic chemistry | Sun Yat-sen University |
| 49 | Wang Haihui | Inorganic membrane separation and membrane catalysis | South China University of Technology |
| 50 | Yan Xiaomei * | Biochemical analysis and bio sensing | Xiamen University |
| 51 | Hu Shuiming | High precision atomic and molecular spectroscopy | University of Science and Technology of China |
| 52 | Huang He | Bio chemical engineering | Nanjing University of Technology |
| 53 | Luo Kaifu | Dynamic theory and simulation of polymer systems | University of Science and Technology of China |
| 54 | Peng Huisheng | Basic research on the application of new types of composite materials of directional carbon nano cube/polymer in energy field | Fudan University |
| 55 | Zhu Dongqiang | Interface process of organic contaminates in water environment | Nanjing University |
| 56 | Sun Junqi | Layer－by－layer assembled membrane of polymers | Jilin University |

Table 5－12 （Unit：10,000 yuan）

| | Name | Project name | Homeinstiuion |
|---|---|---|---|
| 57 | Chen Guangwen | Micro chemical engineering and technology | Dalian Institute of Chemical Physics, CAS |
| 58 | Liu Guosheng | Organic chemistry of metals | Shanghai Institute of Organic Chemistry, CAS |
| 59 | Shao Feng | Infection of pathogenic bacteria and natural immunology of host | National Institute of Biological Sciences, Beijing |
| 60 | Lai Jinsheng | Corn genome and molecular breeding | China Agricultural University |
| 61 | Hu Junjie | Structure and function of bio membrane | Nankai University |
| 62 | Hu Hailan * | System neurobiology | Shanghai Institutes for Biological Sciences, CAS |
| 63 | He Xionglei | Comparative genome and evolution | Sun Yat－sen University |
| 64 | Li Jinsong | Cell re－programming and embryo development | Shanghai Institutes for Biological Sciences, CAS |
| 65 | Zhang Hong | Developmental biology | Institute of Biophysics, CAS |
| 66 | Chen Fan | Fundamentals of agronomy and crop science | Institute of Genetics and Developmental Biology, CAS |
| 67 | Huang Sanwen | Vegetable germplasm resources and genetics and breeding | Institute of Vegetables and Flowers, Chinese Academy of Agricultural Sciences |
| 68 | Wu Xiaolei | Terrestrial environmental microbiology | Peking University |
| 69 | Wu Qinglong | Ecology of water microbe | Nanjing Institute of Geography and Limnology, CAS |
| 70 | Liu Jianfeng | Cell physiology | Huazhong University of Science and Technology |
| 71 | Wang Futi | Stable metabolism of trace element | Shanghai Institutes for Biological Sciences, CAS |
| 72 | Qi Yijun | Genetic expression regulation and epigenetics | Tsinghua University |
| 73 | Hui Lijian | Cell biology | Shanghai Institutes for Biological Sciences, CAS |
| 74 | Wang Shuo | Food science | Tianjin University of Science and Technology |
| 75 | Wang Yuanchao | Plant oomycete disease | Nanjing Agricultural University |
| 76 | Tang Chun | NMR of bio macromolecules | Wuhan Institute of Physics and Mathematics, CAS |

Table 5－12 （Unit：10,000 yuan）

| | Name | Project name | Homeinstiuion |
|---|---|---|---|
| 77 | Liang Xingjie | Nano bio materials | National Centre for Nano Science and Technology |
| 78 | Chen Chang * | Physiology and integrative biology（cell metabolism and free radicals） | Institute of Biophysics，CAS |
| 79 | Xiang Wensheng | Pesticide of microbe and natural products | Northeast Agricultural University |
| 80 | Wang Chengshu | Pathogenesis of fungus and genetic modification | Shanghai Institutes for Biological Sciences，CAS |
| 81 | Xu Feng * | Basic research on high value use of bio matter in agriculture and forestry | Beijing Forestry University |
| 82 | Yang Ye | New chemical and bio physical technology of imaging and control of cell and molecular process | Huazhong University of Technology |
| 83 | Yao Bin | Molecular biology of feed enzymes | Feed Research Institute，CAAS |
| 84 | Xiao Shaobo | Animal epidemiology | Huazhong Agricultural University |
| 85 | Yang Shuhua * | Physiology of plant resistance | China Agricultural University |
| 86 | Qiu Rongliang | Restoration of heavy metal contaminated soil | Sun Yat-sen University |
| 87 | Wang Xunming | Sand landscape and desertification | Cold and Arid Regions Environmental and Engineering Research Institute，CAS |
| 88 | Jin Zhangdong | Chemical erosion of lake basin | Institute of Earth Environment，CAS |
| 89 | Chen Ling * | Seismology | The Institute of Geology and Geophysics，CAS |
| 90 | Wang Zifa | Numerical simulation and forecast of atmospheric environment | Institute of Atmospheric Physics，CAS |
| 91 | Liu Yun | Computational geochemistry | Institute of Geochemistry，CAS |
| 92 | Yu Zhiqiang | Environmental geochemistry | Guangzhou Institute of Geochemistry，CAS |
| 93 | Li Tao | Space physics | University of Science and Technology of China |
| 94 | Yang Shouye | Geochemistry of river and sea sediments | Tongji University |
| 95 | Sun Hongwen * | Environmental geochemistry | Nankai University |
| 96 | Dong Yunpeng | Tectonic evolution and dynamics of orogenic belt | Northwest University |
| 97 | Kang Shichang | Cryosphere geography | Institute of Tibetan Plateau Research |

Table 5－12 （Unit：10,000 yuan）

| | Name | Project name | Homeinstiuion |
|---|---|---|---|
| 98 | Zou Jianwen | Carbon nitrogen cycle of soil and global changes | Nanjing Agricultural University |
| 99 | Zhu Dicheng | Petrology | China University of Geosciences |
| 100 | Wu Chunming | Metamorphic geology and Precambrian geology | Graduate University of CAS |
| 101 | Xu Qiang | Prediction and evaluation and prevention of geological disasters | Chengdu University of Technology |
| 102 | Xia Qunke | Water in upper mantle | University of Science and Technology of China |
| 103 | Lin Wei | structure geology | The Institute of Geology and Geophysics, CAS |
| 104 | Liu Jing * | structure geology－active tectonics and structural landform | Institute of Geology, China Earthquake Administration |
| 105 | Tian Wenshou | Interaction of atmospheric chemistry and climate and mass exchange between stratosphere and troposphere | Lanzhou University |
| 106 | Wu Hongbin | Organic/polymer photoelectric devices of | South China University of Technology |
| 107 | Zheng Yufeng | New types of biomedical metal materials | Peking University |
| 108 | Zhong Zhiyuan | Biomedical polymers | Soochow University |
| 109 | Chen Ping * | Studies on hydrogen storing materials | Dalian Institute of Chemical Physics, CAS |
| 110 | Lu Xiaomei * | Preparation and effect of ferroelectric low dimensional materials | Nanjing University |
| 111 | Yu Yanlei * | Light response crystal polymer materials | Fudan University |
| 112 | Zhao Changsheng | Antithrombin functional polymer membrane materials | Sichuan University |
| 113 | Shuai Xintao | Biomedical polymer materials | Sun Yat－sen University |
| 114 | Sun Zhimei * | Semiconductor materials | Xiamen University |
| 115 | Li Zhibo | Intelligent polymer materials | Institute of Chemistry, CAS |
| 116 | Chen Hangrong * | Nano composite mesoporous materials | Shanghai Institute of Ceramics, CAS |
| 117 | Jia Dechang | Advanced ceramics and ceramic based composite materials | Harbin Institute of Technology |
| 118 | Guo Yuguo | Energy conversion and storage materials | Institute of Chemistry, CAS |

Table 5－12 （Unit：10,000 yuan）

| | Name | Project name | Homeinstiuion |
|---|---|---|---|
| 119 | Zhao Yonghao | Mechanical properties and mechanism of deformation of nano metal materials | Nanjing University of Science and Technology |
| 120 | Li Liyi | Special electrical engineering system | Harbin Institute of Technology |
| 121 | Liu Jiaping | Key issues in properties and extended service of cement based materials | Jiangsu Research Institute of Building Science |
| 122 | Wang Jinshu * | Powder metallurgy and engineering | Beijing University of Technology |
| 123 | Yuan Shenfang * | Intelligent aviation structures and health monitoring | Nanjing University of Aeronautics and Astronautics |
| 124 | Li Qiang | Basic research on thermal management of electronic devices | Nanjing University of Science and Technology |
| 125 | Liu Huijuan * | Environmental engineering | Research Center for Eco－Environmental Sciences，CAS |
| 126 | Wang Pifang * | Water environment protection and eco－restoration | Hohai University |
| 127 | Chen Weizhong | Rock mechanics and rock engineering | Shandong University |
| 128 | Chen Renpeng | Long term mechanical behavior of embankment foundation of highway | Zhejiang University |
| 129 | Liang Weiguo | Theory and technology of in situ solution mining | Taiyuan University of Technology |
| 130 | Sheng Zhu | Basic research on silicon carbide electric and electronic devices | Zhejiang University |
| 131 | Chen Xuefeng | Dynamic monitoring，diagnosis and maintenance of mechanical systems | Xi'an Jiaotong University |
| 132 | Wang Liping | Advanced manufacturing equipment and its control | Tsinghua University |
| 133 | Li Yongping * | Management of basin water resources | North China Electric Power University |
| 134 | Wei Jinjia | Two phase flow and heat transfer | Xi'an Jiaotong University |
| 135 | Li Xiaosen | Physical property and mechanism of decomposition of natural gas hydrates | Guangzhou Institute of Energy Conversion，CAS |
| 136 | Wang Aijie * | Targeted bio conversion and recycling of contaminants | Harbin Institute of Technology |
| 137 | Tan Yiqiu * | Structure and materials of asphalt road surface | Harbin Institute of Technology |
| 138 | Liu Jun | Micro/nano mechanical systems | North University of China |
| 139 | Zhu Jigui | Theory，method and technology of mechanical tests | Tianjin University |

Table 5－12 （Unit：10,000 yuan）

| | Name | Project name | Homeinstiuion |
|---|---|---|---|
| 140 | Lu Xioanggang | Basic theories of new technology of controlled oxygen flow in metallurgical process | Shanghai University |
| 141 | Li Dianqing | Rock mechanics and rock engineering | Wuhan University |
| 142 | Yang Huaming | Basic theory and applications of fine processing of mineral resources | Central South University |
| 143 | Long Teng | New system of imaging radar and technology of real time information processing | Beijing Institute of Technology |
| 144 | Duan Zhisheng | Control and application of complex coupled systems | Peking University |
| 145 | Wang Xinqiang | InN based nitride semiconductor materials and devices | Peking University |
| 146 | Lu Yanqing | Interaction of light with linear nonlinear artificial optical microstructures and integration of functions | Nanjing University |
| 147 | Xiang Libin | Computational spectrum imaging technology | Academy of Opto-electronics，CAS |
| 148 | Wang Cong | Intelligent control and defined learning | South China University of Technology |
| 149 | Wang Kaiyou | Ferromagnetic semiconductors and carbon based self spinning electronics | Institute of Semiconductors，CAS |
| 150 | Yu Weiyong | Preparation of semiconductor nano materials and quantum point photoelectric devices | Jilin University |
| 151 | Guo Hong | Theory，method and technology of quantum space communication | Peking University |
| 152 | Xu Lijun | Theory and key technology of online monitor of complex flow systems | Beihang University |
| 153 | Guan Baiou | Optical fiber transducer | Jinan University |
| 154 | Zhou Jie | Pattern recognition and visual monitor | Tsinghua University |
| 155 | Xu Changsheng | Analysis and searching of multimedia contents | Institute of Automation，CAS |
| 156 | Ren Fengyuan | Management and control of network flow | Tsinghua University |
| 157 | Wang Qionghua * | Theory and devices of 3-D display | Sichuan University |
| 158 | Wang Xingwei | New technology of router，protection and grooming of network | Northeastern University |
| 159 | Jiang Anquan | High density ferroelectric diode storage and advanced testing techniques | Fudan University |
| 160 | Qiao Junfei | Modeling，control and optimization of urban sewage treatment process | Beijing University of Technology |

Table 5－12 （Unit：10,000 yuan）

| | Name | Project name | Homeinstiuion |
|---|---|---|---|
| 161 | Guo Lixin | Theoretical modeling and analysis of characteristics of composite electromagnetic scattering of target in land－ sea environment | Xidian University |
| 162 | Hou Zengguang | Intelligent control of robot system | Institute of Automation，CAS |
| 163 | Huang Yunfeng | Quantum information | University of Science and Technology of China |
| 164 | Che Wenquan * | Theory and technology of new types of microwave circuits | Nanjing University of Science and Technology |
| 165 | Zhang Lu | Software analysis and test | Peking University |
| 166 | Dong Yi | Transmission and control of optical information | Shanghai Jiao Tong University |
| 167 | Xia Yuanqing | Basic theory and method of complex system control of multi source information | Beijing Institute of Technology |
| 168 | Li Keqiu | Network of data center | Dalian University of Technology |
| 169 | Xu Xin | Corporate information management－application and impact of information technology in corporate management | Tsinghua University |
| 170 | Ye Qiang | Studies on e-commerce in social media environment | Harbin Institute of Technology |
| 171 | Yu Yugang | Industrial engineering management | University of Science and Technology of China |
| 172 | Deng Xiangzheng | Management and policy of land utilization | Institute of Geographic Sciences and Natural Resources Research，CAS |
| 173 | He Zhen | Quality management and quality engineering | Tianjin University |
| 174 | Wang Fan | Optimization and management of service resources | Sun Yat－sen University |
| 175 | Zheng Xiaoping | Public security and emergency management | Beijing University of Chemical Technology |
| 176 | Kong Wei * | Steady regulation of vascular functions and cardiovascular diseases | Peking University |
| 177 | Tao Ling * | Fundamentals and clinical studies on control of ischemic heart diseases | The Forth Military Medical University of PLA |
| 178 | Li Xiaoming | Basic research on mental diseases | Zhejiang University |
| 179 | Chen Xiang | Molecular mechanism of normal skin and skin diseases | Central South University |
| 180 | Hu Youhong | Drug chemistry | Shanghai Institute of Materia Medica，CAS |

Table 5－12 （Unit：10,000 yuan）

| | Name | Project name | Homeinstiuion |
|---|---|---|---|
| 181 | Lin Houwen | Chemistry of natural drugs | The Second Military Medical University of PLA |
| 182 | Niw Jing * | Molecular mechanism and control strategies for kidney fibrosis | Southern Medical University |
| 183 | Jiang Xinquan | Stomatology | Shanghai Jiao Tong University |
| 184 | Xie Dan | Oncology（digestive system tumor） | Sun Yat-sen University |
| 185 | Luo Xiaodong | Chemistry of natural drugs | Kunming Institute of Botany，CAS |
| 186 | Cui Daxiang | Medical imaging and biomedical engineering | Shanghai Jiao Tong University |
| 187 | Zhou Jian | Early diagnosis and mechanism of metastasis and reoccurrence and control of liver cancer | Fudan University |
| 188 | Nie Yongzhan | Metabolic diseases of liver | The Forth Military Medical University of PLA |
| 189 | Shi Jie * | Neuro mechanism and control of drug addiction | Peking University |
| 190 | Huang Canhua | Tumor proteomics | Sichuan University |
| 191 | Sun Beicheng | Chronic inflammation and liver cancer | Nanjing Medical University |
| 192 | Huang Bo | Tumor immunology | Institute of Basic Medical Sciences（IBMS）of Chinese Academy of Medical Sciences（CAMS） |
| 193 | Wang Jianwei | Medical virology | Institute of Pathogen Biology，CAMS |
| 194 | Li Shao | New technology and new method of TCM studies | Tsinghua University |
| 195 | Dai Zhifei | Medical ultrasonic and acoustic contrast agents | Peking University |
| 196 | Hu Zhibin | Epidemiology | Nanjing Medical University |
| 197 | Zhang Yunwu | Cell and molecular mechanism of Alzheimer disease | Xiamen University |
| 198 | Wang Hongmei * | Pregnancy and pregnancy related diseases | Institute of Zoology，CAS |
| 199 | He Yong | Connectomics studies based on neural imaging | Beijing Normal University |
| 200 | Lei Qunying * | Molecular biology of tumor | Fudan University |

Note: 269 were awarded among 1,698 male applicants and 31 among 244 female applicants.
*female

# Joint Research Fund for Overseas Chinese Scholars and Scholars in Hong Kong and Macao

The Joint Research Fund for Overseas Chinese Scholars and Scholars in Hong Kong and Macao adopts "2+4"funding model, which means that those 2-year projects with substantial cooperation and clear potential for future development will be continuously funded for another 4 years.

### 1. Two-year project

In 2012, NSFC received 393 applications for 2-year project and, after review, funded 117 projects, with an average funding of 23.4 million yuan. Please see Table 5.13 for details.

## Joint Research Fund for Overseas Chinese Scholars and Scholars in Hong Kong and Macao in 2012 (two-year projects)

Table 5 - 13 (unit: 10,000 yuan)

| Department | Applications accepted | Approved | |
|---|---|---|---|
| | | Number of projects | Funding amount |
| Department of Mathematical and Physical Sciences | 44 | 13 | 260 |
| Department of Chemical Sciences | 27 | 9 | 180 |
| Department of Life Sciences | 60 | 23 | 460 |
| Department of Earth Sciences | 28 | 8 | 160 |
| Department of Engineering and Material Sciences | 57 | 16 | 320 |
| Department of Information Sciences | 68 | 19 | 380 |
| Department of Management Sciences | 23 | 5 | 100 |
| Department of Health Sciences | 86 | 24 | 480 |
| Total | 393 | 117 | 2,340 |

### 2. Extension to four year project

In 2012, NSFC received 49 applications for extension to 4-year project and, after review, funded 20 projects, with an average funding of 40 million yuan. Please see Table 5.14 for details

## Joint Research Fund for Overseas Chinese Scholars and Scholars in Hong Kong and Macao in 2012 (extension to four-year projects)

Table 5 - 14 (Unit: 10,000 yuan)

| Department | Applications accepted | Approved | |
|---|---|---|---|
| | | Number of projects | Funding amount |
| Department of Mathematical and Physical Sciences | 6 | 2 | 400 |
| Department of Chemical Sciences | 4 | 2 | 400 |
| Department of Life Sciences | 11 | 5 | 1,000 |
| Department of Earth Sciences | 3 | 1 | 200 |
| Department of Engineering and Material Sciences | 6 | 3 | 600 |
| Department of Information Sciences | 7 | 3 | 600 |
| Department of Management Sciences | 3 | 1 | 200 |
| Department of Health Sciences | 9 | 3 | 600 |
| Total | 49 | 20 | 4,000 |

Note: there were 388 male applicants with 123 granted and 54 female applicants with 14 granted.

## Science Fund for Creative Research Groups

### 1. New creative research groups

In 2012, relevant ministries and commissions recommended 87 candidates for the Science Fund for Creative Research Groups. After review, 30 groups were supported, with a total funding of 176.40 million yuan. Please see the following table for details.

Awardees of the Science Fund for Creative Research Groups in 2012

Table 5 – 15 (Unit: 10,000 yuan)

| | Group Leader | Research direction | Home insitution | Funding |
|---|---|---|---|---|
| 1 | Li Anmin | Mathematical physics | Sichuan University | 420 |
| 2 | Hu Haiyan | Dynamic mechanical behavior of complex media/structures | Beijing Institute of Technology | 600 |
| 3 | Pan Jianwei | Quantum information physics and technology based on photon and cold atoms | University of Science and Technology of China | 600 |
| 4 | Wang Xinnian | High energy nuclear physics | Central China Normal University | 600 |
| 5 | Cao Rong | Hybrid inorganic/organic functional materials | Fujian Institute of Research on the Structure of Matter, CAS | 600 |
| 6 | Fu Hongbing | Design, preparation and physical chemical properties of new types of optical functional materials | Institute of Chemistry, CAS | 600 |
| 7 | Tan Weihong | Basic research of analytical chemistry on chemical bio sensors | Hunan University | 600 |
| 8 | He Kebin | Chemistry of multi media composite pollution and control | Tsinghua University | 600 |
| 9 | Zhou Jinqiu | Mechanism of covalent modification of chromatin in epigenetic regulation (epigenetic) | Shanghai Institutes for Biological Sciences, CAS | 600 |
| 10 | Chen Heping | Studies on cell calcium signals | Peking University | 600 |
| 11 | Dong Qi | Cognitive neural mechanism of learning | Beijing Normal University | 600 |
| 12 | Qian Qian | Genetic breeding of rice | China National Rice Research Institute | 600 |
| 13 | Zhan Renbin | Important bio events in early palaeozoic era and its background mechanism | Nanjing Institute of Geology and paleontology, CAS | 600 |
| 14 | Yang Jinhui | Limitation of micro region isotope in early evolution of earth | The Institute of Geology and Geophysics, CAS | 600 |
| 15 | Yi Fan | Remote sensing exploration and numerical modeling of medium and high level atmosphere | Wuhan University | 600 |
| 16 | Zhao Meixun | Ocean organic bio geochemistry | Ocean University of China | 600 |
| 17 | Li Hejun | Physical chemical process of preparation and service of super high temperature composite materials for aerospace | Northwestern Polytechnical University | 600 |

Table 5 – 15 （Unit：10,000 yuan）

| | Group Leader | Research direction | Home insitution | Funding |
|---|---|---|---|---|
| 18 | Yang Wantai | Advanced preparation and functionalization of high performance alkenyl polymer materials | Beijing University of Chemical Technology | 600 |
| 19 | Gao Deli | Basic research on drilling and completion of complex oil and gas wells | China University of Petroleum, Beijing Campus | 600 |
| 20 | Tan Jianrong | Basic research on electromechanical fluid systems | Zhejiang University | 600 |
| 21 | Rong Mingzhe | Insulation and discharge of electric equipment | Xi'an Jiaotong University | 600 |
| 22 | Zhang Wenjun | Theory and key technology of digital media communications | Shanghai Jiao Tong University | 600 |
| 23 | You Xiaohu | Basic theory and key technologies of B4G mobile communications | Southeast University | 600 |
| 24 | Guan Xinping | Control theory and method design, control and optimization of network system | Shanghai Jiao Tong University | 600 |
| 25 | Liu Ming | Basic research on new types of microelectronic device integration | Institute of Microelectronics, CAS | 600 |
| 26 | Chen Shou | Financial innovation and risk management | Hunan University | 420 |
| 27 | Chen Yihan | Mechanism of arrhythmia | Tongji University | 600 |
| 28 | Lu Lin | Mechanism of neural plasticity of mental diseases | Peking University | 600 |
| 29 | Duan Shumin | Molecular mechanism of synapse and neural loop regulation and its functions in mental diseases | Zhejiang University | 600 |
| 30 | Zhang Xuemin | Tumor biology | Academy of Military Medical Sciences | 600 |

**2. Extended funding for creative research groups of 3–year funding**

After evaluation, all 28 creative research groups of 3–year funding obtained the first extension of funding of "3+6", with a total funding of 164.40 million yuan. Please see the following table for details.

## Awardees of Extended Funding for Creative Research Groups of 3 Years Funding

Table 5 –16 （Unit：10,000 yuan）

| | Academic leader | Research direction | Home insitution | Funding |
|---|---|---|---|---|
| 1 | Peng Shige | Financial mathematics -- G-risk metrics, backward random analysis and computation in financial risk control | Shandong University | 420 |
| 2 | hen Shiyi | Mechanism, model and experimental studies of compressible turbulent flows | Peking University | 600 |
| 3 | Yan Yihua | Key scientific problems in solar eruption activities | National Astronomical Observatories | 600 |
| 4 | Zhao Hongwei | Research on frontier problems if heavy ion accelerator physics and technology | Institute of Modern Physics, CAS | 600 |
| 5 | Li Yadong | Controlled synthesis, structure, property and application of functional oriented nano materials | Tsinghua University | 600 |
| 6 | Zhang Hongjie | Research and application of new types of rare earth functional materials | Changchun Institute of Applied Chemistry, CAS | 600 |
| 7 | Yang Bai | Assembly system of photoelectric functional super molecules | Jilin University | 600 |
| 8 | Liu Maili | Bio MNR spectroscopy | Wuhan Institute of Physics and Mathematics, CAS | 600 |
| 9 | Shu Hongbing | Natural immunology of virus resistance of cells | Wuhan University | 600 |
| 10 | Deng Xiuxin | Resources of horticulture germplasm and genetic modifications | Huazhong Agricultural University | 600 |
| 11 | Yang Weicai | Plant reproduction and developmental biology | Institute of Genetics and Developmental Biology, CAS | 600 |
| 12 | Chen Huaguang | Regulation and interactions of TGF – β and Wnt signals in early development of embryo | Tsinghua University | 600 |
| 13 | Lin Shencai | Transduction and regulation of signals related to tumor growth and inhibition | Xiamen University | 600 |
| 14 | Wang Hongyang | Molecular regulation of inflammation promoting cell carcinogenesis | The Second Military Medical University of PLA | 600 |
| 15 | Xu Zhiqin | Continental dynamics of Tibetan plateau and impact on resources and environment | Institute of Geology, Chinese Academy of Geological Sciences | 600 |
| 16 | Zheng Yongfei | Continental subduction chemical geo dynamics | University of Science and Technology of China | 600 |

Table 5 – 16 （Unit：10,000 yuan）

| | Academic leader | Research direction | Home insitution | Funding |
|---|---|---|---|---|
| 17 | Zhang Renhe | Mechanism of variation of subtropical monsoon in east Asia | Chinese Academy of Meteorological Sciences | 600 |
| 18 | Wu Lixin | Mechanism of evolution of sea dynamic process and its impact on climate change | Ocean University of China | 600 |
| 19 | Teng Bin | Impact of sea environment disasters and protection of structures | Dalian University of Technology | 600 |
| 20 | Zhao Yuemin | Theory and application of efficient and clean processing of coal resources | China University of Mining and Technology | 600 |
| 21 | Xu Huibin | Studies on new types of intelligent metal materials working in abnormal environment | Beihang University | 600 |
| 22 | Cheng Huiming | Controlled preparation, structure and application of carbon nano materials | Institute of Metal Research, CAS | 600 |
| 23 | Liu Jiaping | Theoretical studies on building environment and energy consumption control in the west | Xi´an University of Architecture and Technology | 600 |
| 24 | Zhang Jun | Theory and method of network coordinated air control system | Beihang University | 600 |
| 25 | Li Guojie | Architecture and design of super parallel efficient computers | Institute of Computing Technology, CAS | 600 |
| 26 | Guan Xiaohong | Optimization, security and information services of large network systems | Xi´an Jiaotong University | 600 |
| 27 | Li Ruxin | Applied basic research in strong field laser | Shanghai Institute of Optics and Fine Mechanics, CAS | 600 |
| 28 | Chen Xiaohong | Theory and applications of uncertainty decision in complex environment | Central South University | 420 |

**3. Extended funding for creative research groups of 6–year funding**

Among the 22 creative research group of 6 year funding, 18 of them applied for extended funding. After evaluation, 5 of them obtained the second extension of funding. The total funding was 28.2 million yuan. Please see the following table for details.

### Extended Funding for Creative Research Groups of 6–Years Funding

Table 5 – 17 （Unit：10,000 yuan）

| | Academic leader | Research direction | Home insitution | Funding |
|---|---|---|---|---|
| 1 | Zhang Weiping | Differential geometry | Nankai University | 420 |
| 2 | Kang Le | Mechanism of evolution ecology of interaction of plant, pests and parasites | Institute of Zoology, CAS | 600 |
| 3 | Nan Cewen | Science of information functional ceramic materials | Tsinghua University | 600 |
| 4 | Qu Jiuhui | Studies on micro interface process and pollution control of environment | Research Center for Eco-Environmental Sciences, CAS | 600 |
| 5 | Yang Xuejun | Key technologies of high performance peta flops computation | National University of Defense Technology | 600 |

## National Science Fund for Talent Training in Basic Science

In 2012, NSFC received 135 applications for the National Science Fund for Talent Training in Basic Science. After preliminary review, peer review and panel review, and approved by the seventh meeting of the Third Management Committee of the National Science Fund for Talent Training in Basic Science, 91 were funded with a total funding of 245.1 million yuan. Please see table 5–18 for statistics.

National Science Fund for Talent Training in Basic Science in 2012

Table 5－18 （Unit：10,000 yuan）

| Base type | Infrastructure | | Capability building | | | | Special discipline | | Teachers training | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Research training | | Field practice | | | | | | | |
| | Projects | Funding | Projects | Funding | Projects | Funding | Projects | Funding | Projects | Funding | Projects | Funding |
| Mathematics（mechanics） | 3 | 600 | 6 | 24,00 | | | | | 3 | 60 | 12 | 3,060 |
| Physics（astronomy, general science） | 6 | 1,200 | 6 | 2,400 | | | | | 2 | 40 | 14 | 3,640 |
| Chemistry | 6 | 1,200 | 5 | 2,000 | | | 2 | 600 | 2 | 40 | 15 | 3,840 |
| Earth science | 4 | 800 | 4 | 1,600 | 2 | 800 | 3 | 900 | 2 | 40 | 15 | 4,140 |
| Biology | 6 | 1,200 | 7 | 2,800 | 6 | 2,430 | 3 | 900 | 3 | 60 | 25 | 7,390 |
| Basic TCM, psychology | 4 | 800 | 4 | 1,600 | | | | | 2 | 40 | 10 | 2,440 |
| Total | 29 | 5,800 | 32 | 12,800 | 8 | 3,230 | 8 | 2,400 | 14 | 280 | 91 | 24,510 |

## 5.5 Funds for Research Environment Construction Programs

### The Special Fund for Development of National Major Research Instruments and Facilities

In 2012, NSFC received 314 applications for the Special Fund for Development of National Major Research Instruments and Facilities. After expert review, expert panel review and approval of NSFC Council, 27 were funded with a total funding of 200 million yuan. Meanwhile, NSFC received 50 applications recommended by some related departments. After selection by Expert Advisory Committees of NSFC´s departments and Expert Committee of the Fund, peer review, on site investigation, evaluation by the Expert Committee of the Fund and with the approval of NSFC Council, 11 were supported with a total funding of 887 million yuan.

## Projects Funded by the Special Fund for Development of National Major Research Instruments and Facilities in 2012 (free application)

Table 5 – 19 (Unit: 10,000 yuan)

| | Project Title | PI | Home Institution | Funding |
|---|---|---|---|---|
| 1 | Equipment for testing material properties at extremely high temperature | Fang Daining | Peking University | 900 |
| 2 | Super fast self spinning polarized low energy electronic microscope | Tang Wenxin | Chongqing University | 900 |
| 3 | High precision atomic interferometer for verification of equivalent principle | Zhan Mingsheng | Wuhan Institute of Physics and Mathematics, CAS | 900 |
| 4 | Connecting component for real time insitu analysis of radiation effect | Li Ning | Xiamen University | 350 |
| 5 | Development of short wave chiral Raman spectroscope with electric field and magnetic field regulation | Li Can | Dalian Institute of Chemical Physics, CAS | 840 |
| 6 | Studies on in situ high resolution nonlinear spectrum characterization of interface super molecule chirality and its imaging devices | Liu Minghua | Institute of Chemistry, CAS | 900 |
| 7 | Time identification double photon excitation of living object fluorescent imagining system | Wang Yuan | Peking University | 900 |
| 8 | New generation of multi color super high resolution microscope based on efficient florescent resonant energy transfer | Fan Chunhai | Shanghai Institute of Applied Physics, CAS | 900 |
| 9 | Serial mass spectroscopy for analysis of glycoprotein structure | Yang Pengyuan | Fudan University | 900 |
| 10 | Development of PALEOPOND for simulation of historic geo environment in the studies of degradation and mineralization equilibrium | Wang Wei | Nanjing Institute of Geology and paleontology, CAS | 420 |
| 11 | System of multi band seismic data acquisition in complex mountainous areas | Tuo Xianguo | Chengdu University of Technology | 600 |
| 12 | Development of great depth 3 – D vector broad region electromagnetic devices | He Jishan | Central South University | 900 |
| 13 | Development and application of laser radar system for detection of low stratosphere wind field | Sun Dongsong | University of Science and Technology of China | 800 |
| 14 | Distribution of particle size and chemical composition of secondary fine particle and online optical measurement system | Ge Maofa | Institute of Chemistry, CAS | 880 |

Table 5 – 19 （Unit：10,000 yuan）

| | Project Title | PI | Home Institution | Funding |
|---|---|---|---|---|
| 15 | Equipment for online study of multi scale physical structure of membrane in elongation process | Li Liangbin | University of Science and Technology of China | 870 |
| 16 | Polymer micro nano stratified multilayer structure regulator and analysis and characterization system | Guo Shaoyun | Sichuan University | 860 |
| 17 | Testing devices for thermal simulation of dendrite growth in continuous casting | Zhai Qijie | Shanghai University | 300 |
| 18 | Development of in situ analysis system for friction experiments in simulated space environment | Liu Weimin | Lanzhou Institute of Chemical Physics, CAS | 750 |
| 19 | General measurement and analysis instruments for wireless signals | Zhang Ping | Beijing University of Posts and Telecommunications | 850 |
| 20 | Large field view x – ray phase contrast imaging devices and conic ray CT systems | Niu Hanben | Shenzhen University | 900 |
| 21 | High flux automatic DNA sequencing devices based on micro flow control chips | Lu Zuhong | Southeast University | 300 |
| 22 | Precision assembly devices for special shaped parts | Xu De | Institute of Automation, CAS | 830 |
| 23 | High precision ytterbium atomic optical clock | Lu Baolong | Wuhan Institute of Physics and Mathematics, CAS | 540 |
| 24 | High precision ground proximity remote sensing system based on spectrum and structural information acquisition and integrated detection | Zhao Huijie | Beihang University | 750 |
| 25 | Technology of optical living object examination-non invasive super high resolution internal viewing optical interference imaging system | Xue Ping | Tsinghua University | 540 |
| 26 | Low power ultrasonic molecular imaging and therapy systems | Wang Zhigang | Chongqing Medical University | 700 |
| 27 | 2-D spectroscopy for fast identification of target objects in natural drugs | He Langchong | Xi'an Jiaotong University | 720 |

### Projects Funded by the Special Fund for Development of National Major Research Instruments and Facilities in 2012 (by recommendation)

Table 5 – 20 (Unit: 10,000 yuan)

| | Project Title | PI | Home Institution | Funding |
|---|---|---|---|---|
| 1 | Multi band pulse single self – spin MNR spectroscopy | Du Jiangfeng | University of Science and Technology of China | 5,600 |
| 2 | Integrated research platform for in situ electronic structure of new energy materials SiPoME2 using Shanghai Synchrotron Radiation Facility | Liu Zhi | Shanghai Institute of Microsystem and Information Technology, CAS | 14,800 |
| 3 | Super high precision real space/momentum space in situ spectroscopy at extreme conditions | Pan Shuheng | Institute of Physics, CAS | 7,900 |
| 4 | Multi channel super conductivity single photon probe | Wu Peiheng | Nanjing University | 4,900 |
| 5 | New generation of ultra high voltage generator | Zou Guangtian | Jilin University | 8,700 |
| 6 | Cold neutron non elastic scattering spectroscopy | Pao Wei | Renmin University of China | 11,100 |
| 7 | Rock mechanics experimental system of multi field coupled CT of high energy accelerator | Li Xiao | The Institute of Geology and Geophysics, CAS | 5,650 |
| 8 | 1.5 meter scanning interference field exposure system | Bayin Hexige | Changchun Institute of Optics, Fine Mechanics and Physics, CAS | 8,300 |
| 9 | Super high sensitivity magnetic filed and inertia measurement experiment devices based on atomic self – spin effects | Fang Jiancheng | Beihang University | 8,850 |
| 10 | Multi model merged optical molecular imaging devices for small animals | Tian Jie | Institute of Automation, CAS | 8,500 |
| 11 | MNR imaging device system for studying major lung diseases | Zhou Xin | Wuhan Institute of Physics and Mathematics, CAS | 4,400 |

## Special Fund for Basic Research on Scientific Instruments

In 2012, NSFC received 462 applications for the Special Fund for Basic Research on Scientific Instruments. After peer review, panel review and approval of NSFC Council, 50 were supported with a total funding of 150 million yuan.

## Projects Funded by the Special Fund for Basic Research on Scientific Instruments in 2012

Table 5 – 21 (Unit: 10,000 yuan)

| | Project Title | PI | Home Institution | Funding |
|---|---|---|---|---|
| 1 | Measurement and analysis device for dynamic property evolution of key moving parts in steering frame of high speed locomotives | Yang Shaopu | Shijiazhuang Tiedao University | 330 |
| 2 | Measurement system for micro nano mechanical properties of materials | Li Xide | Tsinghua University | 290 |
| 3 | Development and application of nano single crystal electron diffractometers | Li Jixue | Zhejiang University | 290 |
| 4 | Development of low temperature strong magnetic field super vacuum in situ micro region transport measurement systems | Jia Jinfeng | Shanghai Jiao Tong University | 330 |
| 5 | Multi functional magnetic electric coupling effect measurement system | Sun Yang | Institute of Physics, CAS | 290 |
| 6 | Development of 2 – D super fast quantum 0phase interferometer spectroscope | Xiao Min | Nanjing University | 290 |
| 7 | Surface plasma excimer nano light source and nano optical microscope | Xu Hongxing | Institute of Physics, CAS | 350 |
| 8 | Development of soft ion source mass spectroscope for metal complex | Zheng Lansun | Xiamen University | 300 |
| 9 | In situ characterization devices for dynamic microstructures of catalyst in real reaction conditions | Wang Jianguo | Institute of Coal Chemistry, CAS | 300 |
| 10 | Development of femto second time resolution 2 – D electro spectroscope | Wong Yuxiang | Institute of Physics, CAS | 300 |
| 11 | Development and applications of high spatial temporal resolution in situ electro chemical micro Raman spectroscope | Ren Bin | Xiamen University | 320 |
| 12 | Fluorescent analyzer for detection of small active molecular species in single cell | Tang Po | Shandong Normal University | 320 |
| 13 | Multi channel micro flow control chip and mass spectroscope based on paper base electric spray | Lin Jinming | Tsinghua University | 320 |

Table 5－21 （Unit：10,000 yuan）

| | Project Title | PI | Home Institution | Funding |
|---|---|---|---|---|
| 14 | Development of super micro quantity, high flux micro flow controlled droplet analysis and selection system | Fang Qun | Zhejiang University | 300 |
| 15 | Development of wide frequency self adapting differential quartz crystal micro balance by integration of electro chemical methods and its application in detecting tumor markers | Zhang Shusheng | Linyi University | 310 |
| 16 | Development of adaptor selection micro analysis system | Xu Danke | Nanjing University | 290 |
| 17 | Key technologies of electron beam excited super diffraction limited high resolution optical microscope | Zhu Yongfa | Tsinghua University | 290 |
| 18 | Photo catalyst surface/interface in situ characterization system | Zhao Jincai | Institute of Chemistry, CAS | 300 |
| 19 | Development of multidimensional separation purification system for nano materials | Liu Jingfu | Research Center for Eco－Environmental Sciences, CAS | 300 |
| 20 | Research on technologies and development of 5GPa high temperature high pressure rheometer | Zhang Xuefeng | China University of Geosciences (Wuhan) | 290 |
| 21 | Multi scale mechanical experimental systems for rheological damage of hydro－mechanical coupling of soft rock | Zhou Cuiying | Sun Yat－sen University | 320 |
| 22 | Space remote sensing absolute radiation standard radiator | Fang Wei | Changchun Institute of Optics, Fine Mechanics and Physics, CAS | 290 |
| 23 | Multi functional solidification devices for synchrotron radiation X－ray imaging of metal solidification process | Li Jinfu | Shanghai Jiao Tong University | 290 |
| 24 | Development and application of automatic micro pulling down crystal optical fiber growth furnace | Tao Xutang | Shandong University | 280 |
| 25 | Development of nondestructive testing methods and system for bolt power in coal mine workings | Miu Xiexing | China University of Mining and Technology | 290 |
| 26 | Online measurement of thermal geometric parameters of large forgings | Jia Zhenyuan | Dalian University of Technology | 300 |

Table 5 –21 （Unit：10,000 yuan）

| | Project Title | PI | Home Institution | Funding |
|---|---|---|---|---|
| 27 | Development of tri axial apparatus for high pressure low temperature natural gas and hydrates | Song Yongchen | Dalian University of Technology | 300 |
| 28 | Development of 3 – D Hopkinson Bar impact loading devices | Hao Hong | Tianjin University | 300 |
| 29 | Large scale wireless transmission chromatography imager based on shade fading | An JIanping | Beijing Institute of Technology | 290 |
| 30 | Development of 120Km/h car – borne online electromagnetic detector of rail fractures | Liu Ze | Beijing Jiaotong University | 290 |
| 31 | Self adapting energy X – ray 3 – D CT systems | Han Yan | North University of China | 290 |
| 32 | High precision no – touching body data collector | Shi Guangming | Xidian University | 290 |
| 33 | Online quality testing devices for plastics injection process | Gao Furong | HKUST Fok Ying Tung Graduate School | 290 |
| 34 | Visual measuring devices for oil, gas water multi phase flow process parameters | Dong FEng | Tianjin University | 280 |
| 35 | Small integrated inferred spectrograph testing devices for temporal spatial spectrum compressed sensing | Zhang Tianxu | Huazhong University of Science and Technology | 300 |
| 36 | Development of in situ evaluation system for optical physical properties of organic photo electric materials | Wang Pengfei | Technical Institute of Physics and Chemistry, CAS | 350 |
| 37 | Detection system for transportation related to epitaxy and in situ self spinning of hetero structures of semiconductor/magnetic materials in strong magnetic fields | Kang Junyong | Xiamen University | 310 |
| 38 | Development of pulse digital holographic real time detector with femto second time resolution | Zhai Hongshen | Nankai University | 350 |
| 39 | Optical fiber transducer array monitor of atmospheric pressure on aircraft | Liu Tiegen | Tianjin University | 290 |

Table 5 –21 （Unit：10,000 yuan）

| | Project Title | PI | Home Institution | Funding |
|---|---|---|---|---|
| 40 | Crystal semiconductor core optical fiber laser wire drawing devices | Wang Tingyun | Shanghai University | 290 |
| 41 | Super high resolution, super large dynamic scope optical fiber transducer general measurement system | Yang Jun | Harbin Engineering University | 290 |
| 42 | Nano optical field multi parameter measurement devices based on scanning near filed optical microscope | Wang Jia | Tsinghua University | 290 |
| 43 | Development of prototype continuous variable quantum entanglement state light source | Zhang Kuanshou | Shanxi University | 290 |
| 44 | Development of high speed total light real random number generators | Wang Yuncai | Taiyuan University of Technology | 300 |
| 45 | In vivo imaging flow cytometer with early real time monitoring of tumor cell migration | Wei Xunbin | Shanghai Jiao Tong University | 280 |
| 46 | Development of high resolution melting curve analyzer for gene mutation and SNP analysis | Peng Niancai | Xi'an Jiaotong University | 290 |
| 47 | Development of standard devices for joint measurement of endocardium and epicardium | Ma Changsheng | Capital Medical University | 290 |
| 48 | Visual excitation by MNR and eye movement analysis system for brain functions based on real time feed back | Gong Qiyong | Sichuan University | 290 |
| 49 | High field functional MNR imaging spectroscopy for research | Gao Jaihong | Peking University | 290 |
| 50 | New Types of ultrasonic cavity devices based on micro bubble cavity regulation | Liu Zheng | The Third Military Medical University of PLA | 290 |

Note：48 projects funded from 420 male applications；2 projects funded from 42 female applications.

## Funded Projects by Joint Funds

### Applications and Funding for Joint funds in 2012

Table 5－22 （Unit：10,000 yuan）

| Program type | Applications | Funded | Funding |
|---|---|---|---|
| NSAF Joint Fund | 66 | 33 | 2,260 |
| Joint Fund of Astronomy | 79 | 28 | 2,500 |
| Joint Fund of Large Science Facilities | 145 | 57 | 6,000 |
| Joint Fund of Iron and Steel | 28 | 8 | 1,120 |
| Joint Fund of Coal | 162 | 40 | 4,895 |
| Joint Fund of Civil Aviation Research | 111 | 34 | 1,950 |
| NSFC-Guangdong Joint Fund | 150 | 32 | 7,725 |
| NSFC-Yunnan Joint Fund | 112 | 25 | 5,075 |
| NSFC-Xinjiang Joint Fund | 65 | 20 | 2,882 |
| NSFC-Joint Fund of Talent Fostering | 1,027 | 150 | 4,455 |
| Joint Fund for Promoting Cross－Strait S&T Cooperation | 74 | 12 | 2,925 |
| Joint Fund of Petrochemical Engineering | 246 | 23 | 3,000 |
| Joint Fund of High Speed Trains | 50 | 11 | 3,000 |
| Total | 2,315 | 473 | 47,787 |

## Projects of Public Understanding of Science

In 2012, NSFC received 46 applications recommended by 7 scientific departments. After panel review and approval of NSFC Council, 21 were supported with a total funding of 5 million yuan.

## Special Grant for Key Academic Journals

In 2012, NSFC received 86 applications for Special Grant for Key Academic Journals. After peer review, panel review and approval of NSFC Council, 33 were supported with a total funding of 7.4 million yuan.

## Scientific Activities of Adolescent

Following the principle of "more emphasizing on basic science, more emphasizing on frontier science, and more emphasizing on talent training", the program of Scientific Activities of Adolescent funded 25 projects selected from the summer schools for graduate students sponsored by the Ministry of Education in 2012, with the average funding of 200,000 yuan and a total funding of 5 million yuan.

In 2012, through competition in all provinces in China, and from those who entered the national finals, NSFC selected the students to participate the International Disciplinary Olympiads. These large scale disciplinary competition and selection process greatly aroused the interests of young students in sciences, and played a positive role in promoting science education of the adolescent, From April to September, 2012, different teams were sent to Year 2012 Olympiads in math, physics, chemistry, biology, and informatics held in Argentina, Estonia, USA, Singapore and Italy. The Chinese students made outstanding achievements, winning 19 gold medals, 3 silver medals, and 1 bronze medal.

## The Fund for Outstanding State Key Laboratories

In 2012, NSFC funded 8 projects in information sciences within the Fund for Outstanding State Key Laboratories. The total funding was 24 million yuan.

## NSFC President Fund

In 2012, NSFC funded 98 projects within NSFC President Fund. The total funding was 31.35 million yuan.

## NSFC Department Directors' Fund

In 2012, NSFC funded 1152 projects within NSFC Department Directors' Fund. The total funding was 152.52 million yuan.

**Tianyuan Fund of Mathematics**

The Management Procedure for Tianyuan Fund of Mathematics was announced on August 2, 2012, and implemented from September 1. This document defined this Funds positioning, underlined its special features, normalized its management, and emphasized its exploratory nature.

In 2012, NSFC held 2 meetings of the Academic Leading Group of Tianyuan Fund of Mathematics, and several special working group meetings. During these meetings, the application in 2012 were reviewed, guideline for project application for 2013 was revised, and some issues regarding to the implementation of the above mentioned document and future work of the Fund were discussed.

In 2012, NSFC received 778 applications within Tianyuan Fund of Mathematics, and funded 337 projects with a total funding of 15 million yuan. Among them, (1) 9 applications for the mathematical summer schools to graduate students, mathematical summer camps for middle school students, and the training projects for young mathematical teachers in the west and northeast, and 8 of them were funded with a total funding of 2.9 million yuan; (2) 701 applications for projects of Young Mathematicians, and 305 were funded with a total funding of 9.24 million yuan; (3) 30 applications

for seminar, workshop and important academic exchange activities, and 17 were funded with a total funding of 1.9 million yuan; (4) 2 applications for publications, information resources construction in network environment, and none of them were funded; (5) 6 applications for mathematical education, mathematical dissemination and mathematical cultural studies, and 4 of them were funded with a total funding of 360,000 yuan; and (6) 30 applications for discussions on problem driven applied mathematics, and 3 of them were funded with a total funding of 600,000 yuan.

**Special Fund for Theoretical Physics**

In 2012, through review, the Academic Steering Committee of the Special Fund for Theoretical Physics approved 33 applications for "Cooperative Research and Training" (from 163 applications), 125 applications for "Starting Project for Ph. D. Researchers" (from 243 applications), and 10 applications of "Peng Huanwu's Forum of Theoretical Physics", Workshop on Development Strategy of Theoretical Physics, "Advanced Workshop on Theoretical Physics", "Special Lectures on Theoretical Physics", and "Academic Exchange Activities and Talent Training of Theoretical Physics in West Regions", etc. The total funding was 15 million yuan.

In 2012, the Academic Steering Committee of the Fund held one working meeting and one project review meeting, and held successfully the 8th "Peng Huanwu's Forum of Theoretical Physics", and the 8th "Lecture on Theoretical Physics".