

Research fund for international young scientist in 2013 (First Group)

No.	Project title	Host institute	Applicant (Nationality)
1	Method of fundamental solutions for inverse heat conduction problems	Hohai University	Mierzwiczak Magdalena (Poland)
2	Lessons from outer planets: in-silico studies of planetary materials	Jilin University	Andreas Hermann (Germany)
3	Multidimensional optical multiplexing/demultiplexing based on the silicon grating	CAS	Nemkova Anastasia (Russia)
4	Increase of critical current density of FeAs-based superconductors by ion beam irradiation	Wuhan University	Vasiliy Pelenovich (Uzbekistan)
5	Efficient quantum devices at the Heisenberg bound	Tsinghua University	Giulio Chiribella (Italy)
6	Optimal control algorithms for autonomous underwater vehicles	Zhejiang University	Ryan Loxton (Australia)
7	Degenerations of Hodge structures and partial compactifications of period domains	Tsinghua University	Tatsuki Hayama (Japan)
8	Green process for cellulose hydrolysis over functionalized cellulose-derived carbonaceous solid acid catalyst in ionic liquids	Nankai University	Hiroshi Machida (Japan)
9	Hydrothermal liquefaction of microalgae	Central South University	Prafulla Dinkarrao Patil (United States)
10	Microfluidic embedded coordination polymer gels for C-11 radiosynthesis	Sun Yat-sen University	Miller William Philip (United Kingdom)
11	Non-linear model prediction and integrative analysis of cyadox induced toxicity model via NMR-based metabonomics	CAS	Rantalainen Johan Mattias (Sweden)
12	Genome-wide screening of barcoded yeast libraries to uncover the toxicities of nanomaterials	Nanjing University	Thuruthippallil Leena Mol (India)
13	Design, synthesis and biological evaluation of heteroaryl substituted imidazole derivatives as potent non-nucleoside HBV Inhibitors	Shandong University	Rai Diwakar (India)
14	Molecular mechanisms of Phosphatidyl Inositol-3 kinase in regulation of cancer metastasis	Sichuan University	Bergholz Villafane Sebastian Johann (Chile)
15	The impacts of social behavior on gene flow of population in plateau pikas	CAS	Russell Charles James (United Kingdom)
16	Standardized parameters and staining for entomological μ -Ct	CAS	Wipfler Benjamin (Germany)
17	Drought stress signal crosstalk in different ploidy wheats: roles of non-hydraulic root-sourced signal	Lanzhou University	Nudrat Aisha Akram (Pakistan)
18	Plant functional traits in community assembly and species loss under global change	CAS	Daniel Flynn Francis Baker (United States)

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19	Structure, function and assembly of bacterial amyloids; The chaplin and rodlin proteins	CAS	Sawyer Elizabeth (United Kingdom)
20	Enterotoxigenic Escherichiacoli (ETEC) signaling; Finding new mechanisms to prevent diarrhea in pigs & humans	CAS	Aguilar Yordan Martinez (Cuba)
21	Polyampholytehydrogels with biological and mechanical gradients for tissue engineering	Zhejiang University	Matthew Bernards (United States)
22	Petrological investigation of the mafic-ultramafic songshugou complex and its implication for the pre-carboniferous evolution of the Qinling belt	Peking University	Bader Thomas (Germany)
23	Stablewaterisotopes in the GAMIL atmospheric general circulation model	Tsinghua University	Jonathon Stanley Wright
24	Experimental and theoretical studies on the saturation length of sediment transport	Zhejiang University	Pahtz Thomas (Germany)
25	Development of enhanced thermo-TDR technologies for measuring <i>in situ</i> soil water evaporation	China Agricultural University	Joshua Heitman Lee (United States)
26	Traction and slip control of dynamically stable two-wheeled mobile platforms on low friction terrains	CAS	Acar Cihan (Turkey)
27	Study on the mechanism of mercury removal by char derived from biomass	Nankai University	Surjit Singh (United Kingdom)
28	Development of an on-board decision support system for offshore operations	Dalian University of Technology	Kang Won Hee (South Korea)
29	Investigation of the interaction between soil and underground pipelines under complex loading conditions	Tsinghua University	Rakitin Andreevich Boris (Russia)
30	Carbonnanotube and graphene-based field emission microfocus X-ray sources	Southeast University	Matthew Thomas Cole (United Kingdom)
31	Developments inadditive microfabrication using inkjet printed gold on cylindrical substrates	Tianjin University	Roberts Christopher Robert (United States)
32	Steel and steel-concrete composite elements subjected to post-earthquake fire: A fundamental study	Tongji University	Heidarpour Esfarjani Amin (Australia)
33	Stateestimation of active distribution system	China Agricultural University	Olav Krause (Germany)
34	Randomness andprobabilistic models of networks	CAS	Georgios Barmpalias (United Kingdom)
35	Large-scalevisual information understanding and retrieval for intelligent applications	CAS	Luis Herranz Arribas (Spain)
36	Bigdata analysis for securing smart grid	University of Electronic Science and Technology of China	Choi David Bong Jun (Canada)
37	Development of a hardware oriented highly efficient wavelet-based image compression algorithms	Xidian University	Belyaev Evgeny (Russia)
38	Development of anomnidirectional walking support robot based on human cognition model	Nankai University	Tan Jeffrey Too Chuan (Malaysia)
39	Tumor-targeted cytokine gene therapy	Tongji University	Cutrer John Jeffery (United States)
40	Identifying modulators of the major alternative promoter regulating Bcrp1/ Abcg2 expression in rat intestine	Xi'an Jiaotong University	Natarajan Karthika (India)