Notification of Final Approval of 2010 Cohort of NSFC-RFBR Joint Projects

A total of 122 applications for the 2010 cohort of NSFC-RFBR joint projects to be implemented during 2011 and 2012 were accepted by NSFC during the defined time window for application. After respective review and mutual recommendation by NSFC and RFBR (Russian Foundation for Basic Research), the following 50 applications were jointly approved for funding.

#	Chinese Applicant / Institution	Project Title	Russian Applicant / Institution
1	Chen Feng Shandong University	The fabrication and characterization of photorefractive photonic waveguides and superlattices in optical crystals	Vladimir Shandarov Tomsk State University of Control System and Radioelectronics
2	Chen Huie Jilin University	Theoretical and methodological study and property control of artificial fill	Nikolseva Svetlana K. Moscow State University
3	Chen Wanzhi Zhejiang University	The organometallic chemistry of multidentate N-heterocyclic carbene complexes	Avthandil Koridze A. N. Nesmeyanov Institute of Organoelement Compounds, RAS
4	Cui Dongmei Chang Chun Institute of Applied Chemistry, CAS	Development of new rare-earth catalysts for controllable diene polymerization and preparation of high performance rubbers	Alexander Trifonov Institute of Organometallic Chemistry, RAS
5	Deng Haixiao Shanghai Institute of Applied Physics, CAS	Investigation of the coherent Cherenkov radiation from targets for the purpose of tuneable terahertz radiation sources and non-invasive beam diagnostics	Gennady Naumenko Nuclear physics institute at Tamsk polytechnic university
6	Duan Changkui Chongqing University of Post and Telecommunications	F(-)d transition of lanthanide ions in various nano-sized materials and the effects of coating or uniform embedding into dielectric media	Yurii Orlovskii Prokhorov General Physics Institute Russian Academy of Sciences
7	Fan Yubo Beihang University	Research and development of mathematical models of the cardiovascular and respiratory systems and their applications for space research	Alexander Dyachenko Institute of Biomedical Problems of RAS
8	Hu Lili Shanghai Institute of Optics and Fine Mechanics, CAS	The conversions and interactions between the different optically active centers in bismuth-doped glass hosts	Boris Il'ich Denker A. M. Prokhorov General Physics Institute (GPI) of Russian Academy of Sciences (RAS)
9	Huang Yongjiang Harbin Institute of Technology	Development of high-performance Ti2A1Nb-based intermetallics	Marat R. Shagiev Institute for Metals Superplasticity Problems, RAS
10	Ji Haisheng Purple Mountain Observatory, CAS	Spatial and Temporal development of Geo-effective Solar Flares	Victor Melnikov Radiophysical Research Institute, Nizhny Novgorod
11	Jia Chengchang University of Science and Technology Beijing	Electromagnetic and Thermal Properties of Diamond Coated Cu/ diamond Composites	Boris M. Garin Institute of Radio Engineering and Electronics, RAS

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#	Chinese Applicant / Institution	Project Title	Russian Applicant / Institution
12	Jiang Bin Nanjing University of Aeronautics and Astronautics	Comprehensive development of the algebraic and differential geometric approaches to the problem of fault diagnosis and fault tolerant control in complex engineering system with hybrid structure	Alexey Shumsky Institute for Marine Technology Problems, Far Eastern Branch of Russian Academy of Sciences
13	Jin Jianhua Sun Yat-Sen University	Eocene vegetation, palaeoecology and palaeoclimate of the transitional region between tropical and subtropical areas: evidence from the biota of the Maoming Basic, Guangdong Province, South China	Tatyana Kodrul Geological Institute of Russian Academy of Sciences
14	Lan Sheng South China Normal University	Nonlinear optical properties of Au nanorods and their applications in high-density optical storage media	Tatiana Lysak Lomonosov Moscow State University
15	Lang Lihui Beihang University	A viscoplastic model with a saturation stress for warm metal forming including damage evolution	Sergei Alexandrov Institute for Problems in Mechanics of the Russian Academy of Sciences
16	Li Fuli Qingdao Institute of Bio-energy and Bioprocess Technology, CAS	Investigation of biochemical factors providing an enzymatic activity of butyryl-CoA dehydrogenase from butanol-synthesizing Clostridia	Vladimir Debabov State Institute of Genetics and Selection of Industrial Microorganisms, Russia
17	Li Guangyu Jilin University	The role of OGDHC in the neuronal death pathways	Victoria Bunik Moscow Lomonosov State University
18	Li Huixiong Xi'an Jiaotong University	Mechanism of the conjugated heat and mass transfer in drops of complex mixtures and nanofluids with phase transition and combustion: experiments and numerical simulation	Terekhov Viktor Ivanovich Institute of Thermophysics SB RAS
19	Li Xin Beijing Institute of Technology	Modeling and study of phenomena occurring in pores during membrane separation	Eleonora Koltsova Mendeleyev's University of Chemical Technology of Russia
20	Liu Changming Institute of Geographic Sciences and Natural Resources Research, CAS	Interaction between surface water and groundwater in arid regions in Southern Russia and China: problems, methods, and comparative study	Sergey Pavlovich Pozdniakov Moscow State University, Faculty of Geology
21	Liu Jie Institute of Modern Physics, CAS	Nanometric structure and phase transformations in materials irradiated with swift heavy ions	Alexander Volkov Russian Research Center Kurchatov Institute
22	Liu Jihua The First Institute of Oceanography, SOA	Integrated chemical and stable-isotope model of the oceanic hydrothermal-sedimentary lithogenesis: implication of the ultraslow-spreading Gakkel and Southwest Indian ridges	Levitan Mikhail V. I. Vernadsky Institute of Geochemistry and Analytical Chemistry, RAS
23	Liu Wei Tsinghua University	The physical nature of formation of nano-sized structurally-phase states and properties at electroexplosive alloying and high-energy pulse electronic treatment of the titanium surface	Victor Gromov Siberian State University of Industry
24	Liu Xingping Institute of Applied Physics and Computational Mathematics	On high-performance algorithms in computations of radioactive hydrodynamics	Lev A. Krukier Southern Federal University

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#	Chinese Applicant / Institution	Project Title	Russian Applicant / Institution
25	Liu Xiuhuan Jilin University	Surface-plasmon-enhanced photoluminescence in blue-violet region based on cubic boron nitride crystals	Tatyana Dolgova Moscow State University
26	Luan Yunxia Shanghai Institutes for Biological Sciences, CAS	Basal Hexapods of Pacific littoral of Asia	Mikhail Potapov Moscow State Pedagogical University
27	Luo Jun Huazhong University of Science and Technology	The Newtonian gravitation constant: new methods in experimental determination and theoretical studying	Vadim Milyukov Sternberg State Astronomical Institute of Moscow University
28	Meng Jihua Institute of Remote Sensing, CAS	Developing a crop yield predicting model with remote sensing derived crop parameters and its validation in North-Eastern Eurasia	Igor Savin Space Research Institute, RAS
29	Mo Yuxiang Tsinghua University	Investigation of the superexcited states of diatomic molecules relevant for the atmospheric photochemistry and astrophysics	Oleg Svyatoslavovich Vasyutinskii A. F. Ioffe Physico-Technical Institute, RAS
30	Peng Weihong Sichuan Academy of Agricultural Sciences	Resources exchange and mycelium cytology study of annulohypoxylon spp. and tremella fuciformis berk	Boris Aleksandrovic Borisov Moscow University
31	Ping Jinsong Shanghai Astronomical Observatory, CAS	Spin-orbit evolution, lunar core dynamics, selenodesy and selenographic coordinate systems of the Moon in database Chang'E-1 missions and other lunar international programs	Alexander Gusev Kazan University
32	Shen Adong Beijing Children's Hospital, Affiliated to Capital Medical University	M. tuberculosis genotype versus Human host genetics: interaction and co-adaptation	Igor Mokrousov St. Petersburg Pasteur Institute
33	Shi Jiankui Center for Space Science and Applied Research, CAS	Peculiarities of the ionospheric response to geomagnetic disturbances in the East-Asian	Geliy Zherebtsov Institute of Solar and Terrestrial Physics Siberian Branch of RAS
34	Shi Wujie Suzhou University	Groups with prescribed quantitative properties	Victor D. Mazurov Institute of Mathematics, Siberian Branch of Russian Academy of Sciences
35	Sun Quanhua Institute of Mechanics, CAS	Investigation of non-equilibrium chemically reacting flows based on continuum and kinetic approaches	Mikhail Ivanov Khristianovich Institute of Theoretical and Applied Mechanics, Siberian Branch of Russian Academy of Sciences
36	Sun Tiansong Inner Mongolia Agricultural University	Studies on morphological, physiologic and biochemical properties of pure cultures isolated from national lactic acid products and development of microbial consortia possessing high probiotic efficacy	Irena S. Khamagaeva The East-Siberian State Technological University
37	Sun Yuanming South China Agricultural University	Mechanism of the enantio-selective molecular recognition between chiral hapten and antibody: ofloxacin as model	Boris Dzantiev Institute of Biochemistry, RAS

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#	Chinese Applicant / Institution	Project Title	Russian Applicant / Institution
38	Sun Yuehua Institute of Zoology, Chinese Academy of Sciences	Comparative studies of structure of Vertebrata communities in coniferous forests of Central Siberia, Russia and Qinghai-Tibet Plateu, China	Yury Yulianovich Dgebuadze Severtsov Institute of Ecology and Evolution of the Russian Academy of Sciences
39	Wang Quan Nankai University	Elucidation of structure and genetic of Escherichia coli O-antigens as the molecular basis of the diversity of bacterial clones	Perepelov Andrei N. D. Zelinsky Institute of Organic Chemistry RAS
40	Wang Weiguo Shandong University of Technology	Grain Boundary Assemblies in Austenitic Stainless Steels Developed by Various Thermomechanical Processing and Heat Treatment	Andrey Belyakov Belgorod State University
41	Wang Yuesheng Beijing Jiaotong University	Thermoelastic Instability in Frictionally Sliding/Rotating Contact of Functionally Graded Materials	Sergey Mikhailovich Aizikovich South Federal University
42	Wang Zhanshan Tongji University	Investigation of models and development of algorithms for elaboration of optical elements for soft x-rays applications	Tikhonravov Alexander Moscow State University
43	Xie Zichu Hunan Normal University	Evaluation of Central Asia glaciation changes and its consequences Mass balance of high Asia glacier systems and their response to global warming	Kotlyakov Valdimir Institute of Geography Russian Academy of Sciences
44	Xu Xiaowen Beijing Institute of Technology	Research on time domain antenna	Sergey Leonidovich Chernyshev Bauman Moscow State University
45	Yang Deren Zhejiang University	Study of transition metal impurity properties in crystalline silicon	Eugene Yakimov Institute of Microelectronics Technology and High Purity Materials (IMT), RAS
46	Yu Jinlong Tianjin University	Development of the method and equipment of electronic special interferometry of heightened precision	Robert Veniaminovich Goldstein Institute for Problems in Mechanics of the Russian Academy of Sciences
47	Yuan Fengjie Zhejiang Academy of Agricultural Sciences	Comparative analysis of sequence polymorphism and natural variability of gene associated with phytic acid content of cultivars of Glycine max and wild soybean G. soja in south of the Far East of Russia and south of China	Dmitry Dorokhov Center "Bioengineering" of Russian Academy of Sciences
48	Zhang Qibing Institute of Botany, Chinese Academy of Sciences	Comparison of tree-ring growth in Qinghai-Tibetan Plateau and Siberia for detection of spatial linkage of environmental changes	Alexander Kirdyanov V. N. Sukachev Institute of Forest, Siberian Branch of Russian Academy of Sciences
49	Zhang Wenzhen Dalian University of Technology	Synthesis and metathesis reaction of allylic alkynotates and polymers in supercritical carbon dioxide	Alexei Removich Khokhlov Nesmeyanov Institute of Organoelement Compounds, RAS
50	Zhang Yong Tsinghua University	The Role of the Interface in Glass-ceramic Nanodielectronics	Ivan Baturin Institute of Physics and Applied Mathematics, Ural State University