

**Competition for grants in the priority area of RSF activities “Basic research and applied research conducted by international research teams”  
(in cooperation with the National Natural Science Foundation of China – NSFC)**

<b>№</b>	<b>RSF Project Number</b>	<b>Chinese PI</b>	<b>Chinese Institution</b>	<b>Russian PI</b>	<b>Russian Institution</b>	<b>Project Title</b>
1	21-42-00023	Cao G.	Institute of High Energy Physics, CAS	Naumov, Dmitry	International Intergovernmental Organization Joint Institute for Nuclear Research	Precision measurement of reactor antineutrino spectrum with TAO as a key to neutrino mass ordering determination
2	21-49-00039	Fang Xiaosheng	Fudan University	Shtansky, Dmitry	National University of Science and Technology "MISIS"	BN composites and heterostructures for high-performance photocatalysts and photodetectors
3	21-49-00023	Liu W.	The Institute of Modern Optics of Nankai University	Kosareva, Olga	Federal State Budgetary Educational Institution of Higher Education Lomonosov Moscow State University	Realization and control of spatially-temporally super-resolved THz probe based on femtosecond laser filamentation
4	21-42-00025	C.-L. Zou	University of Science and Technology of China	Astafiev, Oleg	Autonomous Non-Profit Organization for Higher Education "Skolkovo Institute of Science and Technology"	Novel physical approaches to quantum informatics and quantum optics with superconducting systems
5	21-42-00041	Wan C.H.	Institute of Physics Chinese Academy of Sciences	Samardak, Alexander	Far Eastern Federal University	Study on high efficient spin-orbit torque effect in synthetic antiferromagnetic and ferromagnetic nano-heterostructures: physics and applications
6	21-49-00062	Qian Z.	Nanjing University of Aeronautics and Astronautics	Kuznetsova, Iren	Kotelnikov Institute of Radioengineering and Electronics of Russian Academy of Sciences	Investigation of liquid suspension characteristics by using acoustoelectronic technologies and development of new generation sensors
7	21-41-00018	Guo S.	Peking University	Taimanov, Iskander	Novosibirsk State University	Quantum invariants in geometry and mathematical physics

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8	21-41-00029	Liang F.	Shanghai Jiao Tong University	Simakov, Sergei	Marchuk Institute of Numerical Mathematics of the Russian Academy of Sciences	Study on the mechanism and determinant factors of residual myocardial ischemia after treatment of coronary artery disease by integrating multi-modality medical images with computational biomechanical models
9	21-43-00004	Xu J.	Wuhan University, Wuhan, P.R. China	Plyusnin, Victor	Novosibirsk State University	Mechanism and Application of Enhanced Synergistic Adsorption-Oxidation of Priority Micropollutants in Water with Sunlight-driven Natural Iron-based Photoactive Species
10	21-43-00006	Zhang Qiang	Tsinghua University	Kolosnitsyn, Vladimir	Ufa Institute of Chemistry - Subdivision of the Ufa Federal Research Centre of the Russian Academy of Sciences	Polysulfide ion-solvent complexes and their electrochemical behavior in lithium-sulfur batteries
11	21-49-00009	Wang Y.	University of Science and Technology of China	Nikonenko, Victor	Kuban State University	Wastewater mining: recycling of water and solubles by applying novel and high-performance ion-exchange membranes
12	21-43-00025	Keliang Shi	School of Nuclear Science and Technology, Lanzhou University	Kalmykov, Stepan	Federal State Budgetary Educational Institution of Higher Education Lomonosov Moscow State University	Rapid and accurate analysis of low level concentration of transuranium (Np, Pu, Am) and fission elements (Tc, I) and their speciation in the environment
13	21-46-00001	Lyu Fenghua	College of Animal Science and Technology, China Agricultural University	Dotsev, Arsen	Federal Science Center for Animal Husbandry named after academy member L.K. Ernst	Genetic characterization of germplasm and mechanisms of adaptation in Chinese and Russian native sheep under extreme environmental conditions

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14	21-44-00033	Xue, Y.	Tsinghua University	Skrynnikov, Nikolai	Federal State Budgetary Educational Institution of Higher Education "Saint-Petersburg State University"	Toward better protein structures: combining X-ray diffraction data and MD models of protein crystals.
15	21-47-00038	Zhang Biao	Nanjing University of Information Science and Technology	Kudryavtsev, Vladimir	Russian State Hydrometeorological University	Multi-source satellite observations and modeling of typhoon-ocean interaction
16	21-47-00008	Wang Ping	Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences	Pozdniakov, Sergey	Federal State Budgetary Educational Institution of Higher Education Lomonosov Moscow State University	Streamflow and groundwater responses to climate changes: insights from dry Chinese inland to humid Russian Subarctic basins
17	21-47-00019	Sun S.	Southwest University of Science and Technology	Golubev, Yevgeny	Federal Research Centre “Komi Science Centre of the Ural Branch of the Russian Academy of Sciences”	Interphase interactions and formation mechanisms of nanophases of natural amorphous carbons and aluminosilicate minerals and their inspirations on the construction of nature-like nanocomposites
18	21-47-00016	Li.H	Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences	Malkhazova, Svetlana	Federal State Budgetary Educational Institution of Higher Education Lomonosov Moscow State University	The spatial-temporal evolution of emerging and re-emerging environmental infectious diseases and transboundary risks in China and Russia

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19	21-44-00005	Ge B.	China University of Petroleum (East China)	Maksimov, Eugene	Federal State Budgetary Educational Institution of Higher Education Lomonosov Moscow State University	Photoprotection mechanism in cyanobacteria: interaction between carotenoid proteins and phycobiliproteins
20	21-43-00023	H. Xia	Nanjing University of Science and Technology	Aldoshin, Sergey	Federal State Budgetary Educational Institution of Higher Education Lomonosov Moscow State University	Achieving Coupling MnO <sub>2</sub> Electrode- Redox Electrolytes via Functional Interface for High-Performance Supercapacitors
21	21-45-00012	Q. Shi	Changchun Institute of Applied Chemistry, Chinese Academy of Sciences	Ataullakhanov, Fazoil	Federal Scientific Budgetary Institution Center for Theoretical Problems of Physico-chemical Pharmacology of the Russian Academy of Sciences	Preparation of long-termly anti-thrombotic implants based on thermoplastic elastomers and reaction mechanism between elastomers with the blood
22	21-49-00012	Zhao J.	Харбинский инженерный университет	Grekhov, Leonid	Bauman Moscow State Technical University	Research of the physical features of the fast-flowing fuel supply process with pressures above 200 MPa, the creation of mathematical models and efficient processes in promising Common Rail fuel systems
23	21-43-00020	Baoqiang Li	Harbin Institute of Technology, Harbin, PR China	Tsivadze, Aslan	Frumkin Institute of Physical Chemistry and Electrochemistry Russian Academy of Sciences	Precise synthesis, chelation properties and biological effect of copper specific recognized phosphonate ligands and their modified carbon dots
24	21-42-00035	Xu X.	University of Science and Technology Beijing “MSE”	Ivanov, Boris	National University of Science and Technology "MISIS"	Magnetic and transport properties of ferrimagnetic Heusler alloys in the vicinity of spin compensation point
25	21-43-00051	Min J.	Institute for Advanced Studies, Wuhan University	Ponomarenko, Sergey	Institute of Synthetic Polymeric Materials RAS	Development of novel non-fullerene acceptors based on conjugated oligomers and polymers for highly efficient and stable organic solar cells

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26	21-43-00015	Wu, Yuan	University of Science and Technology Beijing, P. R. China	Rempel, Andrey	Federal State Budget Institution of Science Institute of Metallurgy of Ural Branch of Russian Academy of Sciences (IMET UB RAS)	Synthesis, structure and functional properties of high-entropy magnetocaloric alloys based on rare-earth elements
27	21-42-00040	J. Wu	National University of Defense Technology	Makarov, Vadim	International Center for Quantum Optics & Quantum Technologies Limited liability company	Security analysis of long-distance quantum communications
28	21-42-00043	Chen Jian	Institute of Electronics Chinese Academy of Sciences	Agafonov, Vadim	Moscow Institute of Physics and Technology	Modeling and experimental study of MEMS based electrochemical motion sensors
29	21-42-00019	Zhou P.	Национальный университет оборонных технологий (НУОТ)	Babin, Sergey	Institute of Automation and Electrometry of the Siberian Branch of the Russian Academy of Sciences	Mode dynamics and nonlinear effects at Raman conversion of multimode beam in graded-index fibers
30	21-45-00018	T. Zhang	Guangzhou Institutes of Biomedicine and Health, Chinese Academy of Sciences	Maslov, Dmitry	N.I.Vavilov Institute of General Genetics RAS	Discovery of novel antimycobacterial agents based on quinoxaline 1,4-dioxide scaffold