

Competition for grants in the priority area of RSF activities “Basic and Exploratory Scientific Research, Conducted by International Research Teams” (in cooperation with the National Natural Science Foundation of China - NSFC)

No.	Project Number	Russian PI	Russian Institution	Chinese Institution	Chinese PI	Project Title
1	23-41-00002	Anatoly G Yagola	Moscow State University	Institute of Geology and Geophysics, Chinese Academy of Sciences	Yanfei Wang	Theory and Algorithms of Artificial Intelligence-aided Gravity-Magnetic Joint Inversion
2	23-41-00070	N.A. Kudryashov	National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)	zhejiang A&F university	Chaoqing Dai	Nonlinear mathematical physics approaches for studying processes in fiber lasers and nonlinear control and excitation of novel soliton localized modes
3	23-42-00020	Vladimir Rozhansky	Peter the Great St.Petersburg Polytechnic University	Hefei Institutes of Physical Science, Chinese Academy of Sciences	rui ding	Study of detachment physics for tungsten divertor in tokamaks
4	23-42-00066	Alexander Dolgov	Novosibirsk State University (NSU)	University of Science and Technology of China	Yang Zhang	Theoretical Study of Nonlinear Primordial Perturbations and Its Testing in Cosmological Observation
5	23-41-00049	Andrei Mironov	Intitute for Information Transmission Problems, Lebedev Physical Institute	Sichuan University	Xiaojun Chen	Representation Theory, Knots and (non-)Commutative Painlevé Monodromy
6	23-42-00069	Valentin Yu. Irkhin	Institute of Metal Physics of Ural Branch of the Russian Academy of Sciences	Institute of Physics, Chinese Academy of Sciences	You Wen Long	High-pressure synthesis of novel high-performance magnetic half metals and related physical mechanisms
7	23-42-00091	Maxim Gorkunov	Russian Academy of Sciences	Harbin Institute of Technology	Qinghai Song	Maximum chiral linear and non-linear light transformations with quasi-bound states in the continuum of dielectric metasurface
8	23-41-00037	Vasil'ev Vasiliy Ianovich	North-Eastern Federal University	Xiangtan University	Yin Yang	Novel computational methods for non-local multiscale models and applications

9	23-41-00023	Victor Feliksovich Kopiev	Central Aerohydrodynamic Institute named after prof. N.E. Zhukovsky			Investigation of the aerodynamic noise and methods of its reduction for the wing of the future supersonic civil vehicle (NOISE)
10	23-42-00111	Igor Bilenko	Russian Quantum Center	Southern University of Science and Technology	Junqiu Liu	Silicon nitride integrated circuits for nonlinear and quantum photonics
11	23-42-00055	Konstantin Postnov	Sternberg Astronomical Institute, Lomonosov Moscow University	Sun Yat-sen University		The TianQin Project: Study of the mission space environment and Gravitational waves Sources
12	23-49-00133	Lev Rabinskiy	Moscow Aviation Institute (National Research University)	Northwestern Polytechnical University	Li Yulong	Experimental and theoretical investigation of damage mechanisms in metals and composite materials with coatings under continuous high-velocity raindrop impact
13	23-42-00076	ALEXEY OGNEV	Far Eastern Federal University	Dalian University of Technology	Yi Wang	Manipulation of spin orbit torque and magnetization switching in topological material based magnetic heterostructures and its applications
14	23-42-00031	Ilya Beterov	Rzhanov Institute of Semiconductor Physics SB RAS	Innovation Academy for Precision Measurement Science and Technology, Chinese Academy of Sciences	Xu Peng	High-fidelity many-body entanglement in scalable heteronuclear single-atom array
15	23-42-00043	Vladimir Lukin	V.E. Zuev Institute of Atmospheric Optics SB RAS	The Institute of Optics and Electronics, Chinese Academy of Sciences	Changhui Rao	Atmospheric characterization and methods of adaptive optics for large-aperture solar telescopes
16	23-43-00017	Vladimir Fedin	Novosibirsk State University	Nankai University	Wei Shi	Novel metal-organic frameworks with high luminescence for the detection of biologically active substances and environmental pollutants
17	23-42-00049	Pavel N Melentiev	Institute of Spectroscopy, Russian Academy of Sciences	Nanjing University	Bin Kang	Ultra-bright and narrow-band nano-emitters: physics, materials and biological applications
18	23-43-00086	V. P. Ananikov	N. D. Zelinsky Institute of Organic Chemistry	Shanghai Institute of Organic Chemistry Chinese Academy of Sciences	SHULI YOU	Photocatalytic thiol-yne initiated dearomatization reactions and mechanistic study

19	23-43-00136	Pavel Anatolievich Stuzhin	Ivanovo State University of Chemistry and Technology	University of Science and Technology Beijing	Hailong Wang	Synthesis and Catalysis Application Exploration of Porous Macrocyclic Supramolecular Crystalline Frameworks
20	23-45-00041	Alexander V Fonin	Institute of Cytology of RAS	Beijing University of Chemical Technology	shizhong luo	Phase transition of stress granules-related proteins at pathological and natural aging
21	23-43-00026	Alexander Dilman	Zelinsky Institute of organic chemistry, Russian Academy of Sciences	Shanghai Institute of Organic Chemistry Chinese Academy of Sciences	Jinbo Hu	New methods for the synthesis of organofluorine compounds
22	23-44-00006	Alexei Solovchenko	Lomonosov Moscow State University	Zhengzhou University	Jingliang Xu	Studies on Regulation Mechanisms of Bio-removal of Nitrogen and Phosphorus by Immobilized Microalgae Cells in a Two-stage Culture
23	23-43-00090	Leonid Fershtat	N.D. Zelinsky Institute of Organic Chemistry Russian Academy of Sciences	Bei Jing Institute of Technology	siping pang	Design and synthesis of energetic polycyclic oxadiazole-based compounds
24	23-43-00130	Alexander Petrovich Nemudry	Institute of Solid State Chemistry and Mechanochemistry of the Siberian Branch of the Russian Academ	Qingdao Institute of Bioenergy and Bioprocess Technology, Chinese Academy of Sciences	Heqing Jiang	Development of asymmetric oxygen-permeable membranes with high oxygen exchange rates and catalytic activity for efficient oxidation dehydrogenation of ethane
25	23-43-00138	Andrey Yaroslavtsev	Russian Academy of Sciences, Kurnakov Institute of General and Inorganic Chemistry RAS	University of Science and Technology of China	Liang Wu	High-performance membrane materials for the separation of multiionic electrolyte solutions by electrodialysis
26	23-46-00002	Lyudmila Malyukova	Federal Research Centre the Subtropical Scientific Centre of the Russian Academy of Sciences	Anhui Agricultural University	ENHUA XIA	Identification of key tea cold-responsive genes and development of molecular markers for cold resistance breeding based on China and Russia tea germplasm
27	23-44-00070	Alexander Paukov	Ural Federal university	Institute of Microbiology, Chinese Academy of Sciences		Phylogeny, diversification and speciation of Megasporaceae (lichenized Ascomycetes) in connection with the geological and climatic history of the Holarctic

28	23-46-00026	Alexey Dmitriev	Engelhardt Institute of Molecular Biology, Russian Academy of Sciences	Dalian Nationalities University	Chengjiang Ruan	Transcriptional regulation mechanisms of tissue-specific expression of key genes involved in lipid biosynthesis in sea buckthorn
29	23-44-00038	Pavel Georgiev	Institute of Gene Biology, Russian Academy of Sciences	Wuhan University	Yong Zhen Xu	Mechanisms of trans-splicing and new functions of chromatin architectural proteins in the regulation of alternative splicing and polyadenylation
30	23-44-00101	Dmitry Los	Institute of Plant Physiology, Russian Academy of Sciences	Institute of Hydrobiology, Chinese Academy of Sciences	feng ge	Multi-omics analysis of extremophilic cyanobacteria
31	23-44-00026	Alexander M. Shestopalov	Federal Research Center of Fundamental and Translational Medicine	Institute of Microbiology, Chinese Academy of Sciences	yuhai bi	Investigation of viral metapopulations in migrating birds of the Asian part of Russia and China for early detection of new variants of viral pathogens
32	23-44-00054	Elena Kaznacheyeva	Institute of Cytology, Russian Academy of Sciences (RAS)	Soochow University	GUANGHUI WANG	Crosstalk between innate immunity receptor STING and Ca ²⁺ signaling pathways in neurodegeneration and neuroinflammation to validate novel pharmacological targets
33	23-44-00030	Vladimir Ivanisenko	Institute of Cytology and Genetics, Siberian Branch of the Russian Academy of Sciences	Zhejiang University	Ming Chen	Smart Crop - Cognitive Platform for Reconstruction, Visualization and Analysis of Stress Response Networks based on ANDSystem and Multiomics in Rice and Wheat
34	23-46-00018	Tatyana Fedorova	Research Center of Biotechnology of the Russian Academy of Sciences	Institute of Plant Protection, Chinese Academy of Agricultural Sciences	Xingang Liu	Novel fungus-biochar composite pellets for remediation of farmlands contaminated by amide herbicides and steroid hormones
35	23-44-00059	Andrei Degermendzhi	Krasnoyarsk Science Center of the SB RAS	Beijing University of Aeronautics and Astronautics(BUAA)	fuyuming	Stability and control of experimental closed ecological systems of human life support: data analysis and mathematical modeling
36	23-44-00064	Nikita Kuznetsov	Institute of Chemical Biology and Fundamental Medicine Siberian Branch of the Russian Academy of Sci	tsinghua university	Qianwen Sun	Mechanistic dissection of preventing transcription-replication head-on conflict

37	23-44-00050	Inga Grin	Institute of Chemical Biology and Fundamental Medicine, Siberian Branch of the Russian Academy of Sc	Heilongjiang University	haiying li	DNA repair as a factor contributing to plant resistance to salt and low temperature: sugar beet model
38	23-46-00014	Veronika Kharzinova	the L.K. Ernst Federal Research Center for Animal Husbandry	jiangxi agricultural university	LuSheng HUANG	Inferring evolutionary events and searching common genomic components in domestic and wild representatives of the <i>Sus scrofa</i> species of Asian and European origins by whole-genome analysis
39	23-47-00104	Vladimir Semenov	A.M. Obukhov Institute of Atmospheric Physics, Russian Academy of Sciences	Institute of Atmospheric Physics, the Chinese Academy of Sciences	Lin Wang	Arctic climate change: better constrained projection and interplay with Eurasian weather and climate
40	23-47-00084	Vladimir Semenov	St. Petersburg State University	Harbin Institute of Technology	XIAOGANG WANG	Magnetic Reconnection in Space and Laboratory Plasmas: Computer Simulations and Empirical Modeling
41	23-47-00035	Vasiliy Yur'evich Lavrushin	Geological Institute Russian Academy of Sciences	China University of Geosciences (Wuhan)	Guodong Zheng	Geo-fluid evaluation and crustal environment at mud volcanic systems
42	23-47-00064	Goryachev Nikolay Anatolievich	Far Eastern Branch of the Russian Academy of Sciences	China University of Geosciences (Beijing)	Kunfeng Qiu	Early Cretaceous orogenic gold mineralization and lithospheric processes in East Asia
43	23-47-00030	Sergey Gulev	Shirshov Institute of Oceanography	Institute of Atmospheric Physics, the Chinese Academy of Sciences	Lijing Cheng	Long-term reconstructions of ocean heat content and surface fluxes: implications for understanding of the ocean's role in climate
44	23-44-00067	Eugene A. Vaganov	Siberian Federal University	Northwest Institute of Eco-Environment and Resources, CAS	Bao Yang	Models of xylogenesis: from cell to forest stand in Eurasia
45	23-49-00098	Sergey Betsofen	Moscow Aviation Institute, Russian National Research University	Harbin Engineering University	Rui-zhi Wu	Tailoring strength, plasticity and modulus of Al-Li alloys through micro-alloying, heat treatment and thermal mechanical processing

46	23-43-00041	Igor V Alexandrov	Ufa State Aviation Technical University	Nanjing Tech University	zhonggang sun	Synergetic effect of the influence of hydrogen treatment and severe plastic deformation on the mechanisms of nano-sized structure formation in Ti alloys when using additive technologies
47	23-47-00109	Tatiana Aleksandrova	Saint Petersburg Mining University	China University of Mining and Technology	chenlong duan	Research on Intelligent Beneficiation for Coal-Series Minerals
48	23-43-00060	Alexander Vadimovich Yakimansky	Institute of Macromolecular Compounds of the Russian Academy of Sciences	Changchun Institute of Applied Chemistry, Chinese Academy of Sciences	Lixiang Wang	Synthesis and study of photophysical properties of new copolymers based on fluorene - promising materials for optoelectronics and chemosensors
49	23-43-00057	Elena Kramarenko	Enikolopov Institute of Synthetic Polymeric Materials, Russian Academy of Sciences	Zhejiang University		Research on design, manufacturing and functional materials for 3D printing soft robotics
50	23-49-00108	Sergey Zherebtsov	Belgorod State University	Harbin Institute of Technology	Lujun Huang	Development of high-temperature TiB reinforced titanium matrix composites
51	23-49-00015	Sergey Konovalov	Siberian State Industrial University	Wenzhou University	Xizhang Chen	Promising fabrication methods and strengthening mechanism of bulk high strength-ductility CrCoNi based high entropy alloy
52	23-42-00120	Viktor Ralchenko	Prokhorov General Physics Institute of the Russian Academy of Sciences	Harbin Institute of Technology	bing dai	Development of ionizing radiation detectors with high charge collection efficiency, based on low-dislocation single crystal chemical vapor deposition diamond
53	23-49-00141	Evgeny Levashov	National University of Science and Technology	China University of Mining and Technology		Development of protective heterophase coatings using the methods of pulsed plasma and electrospark treatment
54	23-41-00090	E.V. Ermanyuk	Lavrentyev Institute of Hydrodynamics	Harbin Engineering University	WenYang Duan	Large-amplitude internal waves in stratified and rotating flows over topography
55	23-42-00116	Vladimir Ya Shur	Ural Federal University	Xi'an Jiaotong University	Li Jin	Multiscale structure regulation and physical property design of relaxor ferroelectric ceramics for actuators and energy storage capacitors

56	23-42-00038	Vladimir Nekorkin	Institute of Applied Physics of the Russian Academy of Sciences	Northwestern Polytechnical University	CHAO GAO	Nonlinear dynamics and machine learning in the problems of formation of functional patterns in oscillatory adaptive networks
57	23-41-00060	Alexander Fradkov	Institute for Problems in Mechanical Engineering of Russian Academy of Sciences	East China Normal University	Tao Li	Distributed learning, optimization and control for large scale smart mechatronic and energy systems
58	23-42-00081	Evgeniya Sheremet	Tomsk Polytechnic University	Shanghai Institute of Ceramics, Chinese Academy of Sciences	ranran wang	Flexible and durable multi-functional sensors without crosstalk
59	23-49-00159	Gennady Panin	Institute of Microelectronics Technology and High-Purity Materials, Russian Academy of Sciences	Shanghai Institute of Technical Physics, Chinese Academy of Sciences	Jinshui Miao	Intelligent infrared photoelectronic devices based on van der Waals hetero-integrated multidimensional structures
60	23-44-00043	Alexander Gabibov	Shemyakin & Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences	Nankai University	HONGKAI ZHANG	A cancer serology of the XXI century: from the analysis of the tumor infiltrating B cell clones' landscape to adoptive immunotherapy.
61	23-44-00082	Dmitry Nechipurenko	Center for Theoretical Problems of Physico-chemical Pharmacology, Russian Academy of Science	xuzhou medical university		The role of platelet NLRP3/IL-1 β -driven response in thromboinflammation
62	23-44-00015	Nadezda A Brazhe	Moscow State University	Huazhong University of Science and Technology	Dan Liu	The role of epigenetically regulated metabolic reprogramming of astrocytes in the neurodegeneration of early stage of Alzheimer's disease---EMRA-AD
63	23-45-00031	Alexander Orekhov	Federal State Budgetary Scientific Institution "Institute of General Pathology and Pathophysiology"	Beijing University of Chinese Medicine	Shuzhen Guo	Decipher the effectors of atherosclerotic cardiovascular disease: focus on mitochondrial dysfunction and signal pathways in macrophages

64	23-44-00103	Alexey Semyanov	Institute of Bioorganic Chemistry RAS	chengdu university of TCM	Yong Tang	Effect of astrocyte morphological remodelling on the brain function
65	23-45-00012	Mikhail V. Gorshkov	Talrose Institute for Energy Problems of Chemical Physics	Zhengzhou University	JINGHUA YANG	Mapping the landscape of global protein modifications for neurodegenerative diseases
66	23-45-00027	Alexander Priezzhev	Lomonosov Moscow State University	Huazhong University of Science and Technology	Pengcheng Li	Multimodal optical assessment of blood microrheology and microcirculation in vitro and in vivo in socially important diseases
67	23-48-00004	Khodjakov Mikhail V.	St. Petersburg State University, Institute of History	Harbin Institute of Technology	zhiqing zhao	Chinese Eastern Railway as a trans-border socio-cultural system: studying its history, reconstructing and modeling mechanisms of cultural heritage protection