

## INSF-RSF Call Results

|   | Application No. | Title                                                                                                                                                                                                       | Iranian PI Affiliation                                         | Russian PI Affiliation                                                                                | Call Year |
|---|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------|
| 1 | 4023697         | Comparative study of tick-borne pathogens diversity in the Russian Federation and the Islamic Republic of Iran                                                                                              | Pasteur Institute of Iran                                      | St. Petersburg Pasteur Institute                                                                      | 2023-2024 |
| 2 | 4023205         | Elucidation of evolutionary and phylogenetic relationships of wild Old World Ovis species based on molecular genetic and morphological studies                                                              | Arak University                                                | Federal Science Center for Animal Husbandry named after academy member L.K. Ernst                     | 2023-2024 |
| 3 | 4023028         | Mechanisms of chronic inflammation: focus on atherosclerosis and obesity                                                                                                                                    | Mashhad University of Medical Sciences                         | Federal State Budgetary Scientific Institution "Institute of General Pathology and Pathophysiology"   | 2023-2024 |
| 4 | 4023311         | Unraveling the Mechanisms of Pathological Transformation in Amyloidogenic Proteins: A Quest for Preventative Approaches.                                                                                    | Institute of Biochemistry and Biophysics, University of Tehran | Federal State Budgetary Educational Institution of Higher Education Lomonosov Moscow State University | 2023-2024 |
| 5 | 4023509         | Fishes of the Caspian Sea basin: genetic diversity, evolution and biogeography                                                                                                                              | Shahid Bahonar University of Kerman                            | I.D. Papanin Institute for Biology of Inland Waters Russian Academy of Sciences                       | 2023-2024 |
| 6 | 4023565         | A new heterostructure theranostic platform based on zeolitic imidazolate framework (ZIF-8) containing high-Z elements and drugs as nano-radiosensitizers for synchronous chemoradiotherapy of breast cancer | Zanjan University of Medical Sciences                          | Moscow Institute of Physics and Technology                                                            | 2023-2024 |
| 7 | 4021954         | Study and development of advanced SPD processing techniques for producing ultrafine-grained Mg alloys for biomedical applications                                                                           | Shiraz University                                              | Ufa University of Science and Technology                                                              | 2023-2024 |
| 8 | 4023556         | Modern catalytic and "green" approaches to the production of advanced materials from fossil hydrocarbons and renewable feedstocks                                                                           | Iran Polymer and Petrochemical Institute                       | A.V.Topchiev Institute of Petrochemical Synthesis Russian Academy of Sciences                         | 2023-2024 |

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| 9  | 4023343         | Development of glassy materials for nonlinear optical elements of photonics in the near and short-wave IR range                                                                                                                                | University of Kurdistan (UOK)                                        | ITMO University                                                      | 2023-2024 |
| 10 | 4023701         | 3D-printed biodegradable scaffolds with zoledronic acid-loaded mesoporous bioactive glass for promoting osteoporotic bone defect repair                                                                                                        | Sharif University of Technology, Tehran, Iran.                       | Tomsk State University                                               | 2023-2024 |
| 11 | 4023654         | Spatial Planning and Satellite Monitoring of Marine Protected Areas in the Caspian Sea                                                                                                                                                         | Department of Environment, FNRMS, Tarbiat Modares University, Iran   | P.P.Shirshov Institute of Oceanology of Russian Academy of Science   | 2023-2024 |
| 12 | 4021700         | Engineered bio-concretes for self-healing: A novel biotechnology on an industrial scale                                                                                                                                                        | University of Zanjan, Zanjan, Iran                                   | Peter the Great St.Petersburg Polytechnic University                 | 2023-2024 |
| 13 | 4023398         | Biotic and abiotic retention zones for microplastics at river-sea interface                                                                                                                                                                    | Iranian National Institute for Oceanography and Atmospheric Sciences | P.P.Shirshov Institute of Oceanology of Russian Academy of Science   | 2023-2024 |
| 14 | 4023625         | Synergistic effect of cold atmospheric plasma and photodynamic therapy on cancer and non-cancer stem cells based on Artificial Intelligence                                                                                                    | Kharazmi University                                                  | National Research Centre for Epidemiology and Microbiology           | 2023-2024 |
| 15 | 4023467         | Design of the microfluidic system mimicking the fallopian tube environment to sort spermatozoa with high fertilizing ability                                                                                                                   | Sharif University of Technology                                      | Sechenov First Moscow State Medical University (Sechenov University) | 2023-2024 |
| 16 | 4045635         | Novel Luminescent Heterometallic Lanthanide-Based Metal–Organic Frameworks for Multifunctional Biomedical, Gas Storage and Separation Applications                                                                                             | University of Tehran                                                 | Lomonosov Moscow State University                                    | 2025-2026 |
| 17 | 4046364         | High-Performance, Fast-Response Magnetocaloric Converters Based on Honeycomb-Structured Oxygen-Deficient La <sub>0.5</sub> Gd <sub>0.1</sub> Sr <sub>0.4</sub> MnO <sub>3</sub> /Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> Nanocomposites. | Semnan University                                                    | Lomonosov Moscow State University                                    | 2025-2026 |

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| 18 | 4045945         | Microstructure-Driven Integrated Design and Optimization of High-Strength, Thermally Stable, and Weldable Al-Cu-Mn Alloys                                                         | Sharif University of Technology                                              | Siberian State Industrial University                                 | 2025-2026 |
| 19 | 4045666         | Development of the medical device "Lymphatonics" for non-invasive phototherapy of glioblastoma                                                                                    | Mashhad University of Medical Sciences                                       | Saratov State University                                             | 2025-2026 |
| 20 | 4046657         | Development of nanoscale forms of essential trace elements stabilized with biopolymers for modification of feed additives for immunostimulation and biofortification of sheep     | Gorgan University of Agricultural Sciences and Natural Resources             | North Caucasus Federal University                                    | 2025-2026 |
| 21 | 4046548         | Explorations of biocontrol agents from Western Asian ecosystems for greenhouse pest management                                                                                    | University of Zanjan                                                         | Severtsov Institute of Ecology and Evolution                         | 2025-2026 |
| 22 | 4045431         | Prediction of molecular crystal structures: with applications to pharmaceutical compounds and energetic materials                                                                 | University of Tehran                                                         | Skolkovo Institute of Science and Technology (Skoltech)              | 2025-2026 |
| 23 | 4046593         | Carpenter Moths (Lepidoptera, Cossidae) of the Middle East: systematics, zoogeography and phylogeny of important agricultural and forestry pests and potentially invasive species | Iranian Research Institute of Plant Protection                               | Altai State University                                               | 2025-2026 |
| 24 | 4046298         | Metabolic profiling of liver cancer stem-like cells in a 3D tumor niche using FLIM mapping and functional modulation with small interfering RNAs                                  | Royan Institute                                                              | Sechenov First Moscow State Medical University (Sechenov University) | 2025-2026 |
| 25 | 4046527         | Next-generation Mucosal H5N1 influenza vaccine: focus on antigen delivery systems for protective systematic and local immunity enhancement                                        | Institute Pasteur of Iran                                                    | Smorodintsev Research Institute of Influenza                         | 2025-2026 |
| 26 | 4046060         | Design of ferroelectric multivariate metal-organic coordination polymers for gas separation technologies in energy and environmental applications                                 | Tarbiat Modares University                                                   | Bauman Moscow State Technical University (BMSTU)                     | 2025-2026 |
| 27 | 4045813         | Machine learning for cross-platform classification models in cancer screening                                                                                                     | Sharif University of Technology                                              | Saint Petersburg State University                                    | 2025-2026 |
| 28 | 4046494         | Towards Breast Cancer Theranostics: New Nano Agents and Photoacoustic Tomography System                                                                                           | University of Tabriz                                                         | Institute of Applied Physics of Russian Academy of Sciences          | 2025-2026 |
| 29 | 4045870         | Meiofauna as a Key Bioindicator of Recent Changes in Benthic Communities of the Caspian Sea                                                                                       | Iranian National Institute for Oceanography and Atmospheric Science (INIOAS) | P.P. Shirshov Institute of Oceanology, Russian Academy of Sciences   | 2025-2026 |

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| 30 | 4045660         | Nanocatalytic Organic Transformations via Multicomponent Reactions (MCRs) and CO <sub>2</sub> Fixation | Shahid Beheshti University | Patrice Lumumba Peoples' Friendship University of Russia (RUDN University) | 2025-2026 |