

BRICS STI FRAMEWORK PROGRAMME

3rd CALL 2019

List of successful projects

№	Registration number (BRICS2019-) and Acronym	Full Title	Country	PI	Organization	National funding organization
1	028 - GEMOECO	Environmental Monitoring and assessment of land use / land cover change impact on ECOlogical security using GEospatial technologies	RUSSIA	Eldar Kurbanov	Volga State University of Technology	RFBR
			CHINA	Jinliang Wang	Yunnan Normal University	MOST
			SOUTH AFRICA	Abraham Thomas	Council for Geoscience	NRF
2	032 - MHSSSHP	Modelling of the hydrogen storage and supply systems with output hydrogen pressure in wide range of pressures (up to 80MPa) using low-potential heat-transfer agent	RUSSIA	Mitrokhin Sergey	Moscow State University	RFBR
			INDIA	Bhogilla Satya Sekhar	Indian Institute of Technology Jammu	
			CHINA	Yan Huizhong	BRIRE Rare Earth Functional Materials Engineering Technology Research Center	MOST
3	036 - SONG	Supercomputer Simulation and Big Data Analysis Of Environmental Noise from Aircraft and Mechanisms of its Generation	BRAZIL	Juan Salazar	Universidade Federal de Santa Catarina	CNPq
			RUSSIA	Tatiana Kozubskaya	Keldysh Institute of Applied Mathematics RAS	RFBR
			CHINA	Xin Zhang	HKUST Shenzhen Research Institute	MOST

4	040 - TCLB/WBBUICE	Thermochemical conversions of lignocellulosic biomass/wastes into bioenergy and biofuels and its utilization in internal combustion engine	BRAZIL	Electo Eduardo Silva Lora	Federal University of Itajubá	CNPq
			RUSSIA	Alexander N. Kozlov	Melentiev Energy Systems Institute	RFBR
			INDIA	K.A.Subramanian	Indian Institute of Technology Delhi	DST
			CHINA	Shu Zhang	Nanjing Forestry University	MOST
			SOUTH AFRICA	Yusuf Isa	Durban University of Technology	NRF
5	053 - STARS	Superconducting Terahertz Receivers for Space and Ground-based Radio Astronomy	BRAZIL	Jacques Lepine	University of São Paulo	CNPq
			RUSSIA	Valery Koshelets	Kotel'nikov Institute of Radio Engineering and Electronics	RFBR
			CHINA	Huabing Wang	Nanjing University	NSFC
			SOUTH AFRICA	Coenrad Fourie	Stellenbosch University	NRF
6	058 - IENA	Installed Engine Noise Attenuation	BRAZIL	Julio Apolinário Cordioli	Federal University of Santa Catarina	CNPq
			RUSSIA	Victor Kopiev	Central Aerohydrodynamic Institute named after Professor N.E. Zhukovsky	RFBR
			CHINA	Chen Bao	AVIC Harbin Aerodynamics Research Institute	MOST

7	070 - Vibrios as biosensors	Vibrios as biosensors of global/local changes	BRAZIL	Fabiano Lopes Thompson	Universidade Federal do Rio de Janeiro	CNPq
			INDIA	Neelam Taneja	Vellore Institute of Technology	DST
			CHINA	Shenghua Liu	Xi'an Jiaotong University	MOST
8	075 - PLUMPLAS	River plumes as major mediators of marine plastic pollution	BRAZIL	Osmar Olinto Möller Jr.	Instituto de Oceanografia	CNPq
			RUSSIA	Peter Zavialov	Shirshov Institute of Oceanology RAS	RFBR
			CHINA	Xinhong Wang	Xiamen University	NSFC
9	083 - LDMHWBEATAILED	Low-dimensional metal halides with broadband emission and their application in light-emitting diodes	RUSSIA	Maxim Molokeev	Kirensky Institute of Physics SB RAS	RFBR
			INDIA	Angshuman Nag	Indian Institute of Science Education and Research	DST
			CHINA	Zhiguo Xia	South China University of Technology	NSFC
10	104 - IRMMA	Improving risk management of landslide and debris flow hazards in mountainous area	BRAZIL	Francisco Dourado	University of Rio de Janeiro State	CNPq
			RUSSIA	Sergey A. Sokratov	Lomonosov Moscow State University	MSHE
			CHINA	Mingtao Ding	Southwest Jiaotong University	

11	122 - BIO-OCD	Biosignatures as predictors of response to SSRIs in OCD: Developing a successful paradigm of personalized medicine	BRAZIL	Roseli G. Shavitt	University of São Paulo	CNPq
			INDIA	Y.C. Janardhan Reddy	National Institute of Mental Health and Neurosciences	DST
			SOUTH AFRICA	Christine Lochner	Stellenbosch University	NRF
12	123 - GPTNOM	Green Printing Technology for Novel Optical Metadevices	RUSSIA	Pavel Alexandrovich Belov	ITMO University	RFBR
			INDIA	A.K. Ganguli	Indian Institute of Technology, Delhi	DST
			CHINA	Yanlin Song	Institute of Chemistry, CAS	NSFC
13	124 - CRIAP	Characterizing Risk Indicators to cause Anaemia Prevalence among young Children and Adolescents in BRICS countries using Artificial Intelligence	RUSSIA	Aleksandra Mashkova	Central Economics and Mathematics Institute RAS	RFBR
			INDIA	Rishemjit Kaur	Central Scientific Instruments Organisation, Chandigarh	DST
			SOUTH AFRICA	Natisha Dukhi	Human Sciences Research Council	NRF
14	134 - Ga ₂ O ₃ : Galium Oxide	Ga ₂ O ₃ -based nanomaterials with controlled defect and impurity composition for advanced electronic devices	BRAZIL	Pedro Luis Grande	Federal University of Rio Grande do Sul	CNPq
			RUSSIA	David Tetelbaum	Lobachevsky University	RFBR
			INDIA	Mahesh Kumar	Indian Institute of Technology Jodhpur	DST

15	142 - CESSW	Comprehensive experimental and simulation study on wildfire of BRICS countries: Fire occurrence, spread and suppression	BRAZIL	Guenther C. Krieger Filho	University of São Paulo	CNPq
			RUSSIA	Oleg Korobeinichev	Voevodsky Institute of Chemical Kinetics and Combustion SB RAS	RFBR
			INDIA	Amit Kumar	Indian Institute of Technology Madras	DST
			CHINA	Naian Liu	University of Science and Technology of China	NSFC
16	154 - CO2 - Carbon dioxide	Life cycle assessment of CO2 reduction by energy efficient hybrid biomass pyrolysis and gasification	BRAZIL	Amaro Pereira	Universidade Federal Rio de Janeiro	CNPq
			RUSSIA	Pavel A. Strizhak	National Research Tomsk Polytechnic University	RFBR
			INDIA	Anand Ramanathan	National Institute of Technology Tiruchirappalli	DST
17	156 - SPMWMSMC	Single phase multiferroic materials with strong magnetoelectric coupling	BRAZIL	Jose Antonio Eiras	Federal University of São Carlos	CNPq
			RUSSIA	Anatoly K. Zvezdin	A.M. Prokhorov General Physics Institute RAS	RFBR
			CHINA	Xiang Ming Chen	Zhejiang University	NSFC
18	173 - MHPPQIP	Multi-photon and high-dimensional platforms for photonic quantum information processing	BRAZIL	Paulo H. Souto Ribeiro	Universidade Federal de Santa Catarina	CNPq
			RUSSIA	Sergei Kulik	Moscow State University	RFBR
			CHINA	Xiaosong Ma	Nanjing University	NSFC

19	174 - JVRIS	Joint validation of multi-source remote sensing information and sharing in BRICS countries	RUSSIA	V.G. Bondur	State scientific Institution "Institute for Scientific Research of Aerospace Monitoring "AEROCOSMOS"	RFBR
			INDIA	R B Singh	University of Delhi	DST
			CHINA	Xiang Zhou	Institute of Remote Sensing and Digital Earth Research CAS	MOST
20	191 - PRISE	Precision Radio Imaging In The SKA Era	INDIA	Dharam Vir Lal	Tata Institute of Fundamental Research	DST
			CHINA	Feng Wang	Center For Astrophysics Guangzhou University	NSFC
			SOUTH AFRICA	Oleg Smirnov	Rhodes University & South African Radio Astronomy Observatory	NRF
21	198 - F3DNCFMTERM	Fabrication of three-dimensional nanocellulose-based multifunctional materials for tissue engineering and regenerative medicine applications	RUSSIA	Victor Vasilievich Revin	National Research Ogarev Mordovia State University	RFBR
			INDIA	Sabu Thomas	Mahatma Gandhi University	DST
			CHINA	Guang Yang	Huazhong University of Science and Technology	MOST

22	210 - SIMRO	Sustainable and Integrated Solutions for Monitoring and Remediation of Emerging Contaminants (Organochlorine) from Non-point Source	RUSSIA	Inna P. Solyanikova	Institute of biochemistry and physiology of microorganisms RAS	RFBR
			INDIA	S. Venkata Mohan	CSIR-Indian Institute of Chemical Technology, Hyderabad	DST
			CHINA	Yonghong Wu	Institute of Soil Science CAS	NSFC
23	224 -	The fundamental research and key materials development in the novel high performance alkaline membrane fuel cells	RUSSIA	A. Bulanova	Samara University	RFBR
			INDIA	K. Ramya	International Advanced Research Centre for Powder Metallurgy and New Materials	DST
			CHINA	Zhongming Wang	Beijing University of Chemical Technology	NSFC
24	228 - GaO-Nitrides	Wide Bandgap Semiconductor (Al)GaO/Nitrides Heterostructures for High Power Electronic and Optoelectronic Devices	RUSSIA	Wsevolod Lundin	Ioffe Institute	RFBR
			INDIA	Rajendra Singh	Indian Institute of Technology Delhi	DST
			CHINA	Shibing Long	University of Science and Technology of China	NSFC
25	240 - NanoDrug	Polymeric Nanostructures for Treatment of Microbial Infections	BRAZIL	Pedro Henrique Hermes de Araujo	Federal University of Santa Catarina	CNPq
			INDIA	Amit K. Goyal	National Institute of Animal Biotechnology, Hyderabad	DST
			CHINA	Xiaoyu Huang	National Engineering Research Center for Nanotechnology	NSFC

26	243 - IRUEMSCARGLRB	Impact of rapid urbanization on the evolution and multi-scale control of antibiotic resistance genes in the large river basin	BRAZIL	José Tavares Araruna Júnior	Pontifical Catholic University of Rio de Janeiro	CNPq
			RUSSIA	Aleksei Nikolavich Makhinov	Institute of Water and Ecology Problems FEB RAS	RFBR
			CHINA	Shuguang Liu	Tongji University	NSFC
27	252 - ERSPIC	Energy-efficient reconfigurable silicon photonic integrated devices and circuits for optical interconnects	BRAZIL	Roberto Ricardo Panepucci	Centro de Tecnologia da Inovação Renato Archer	CNPq
			INDIA	Rajesh Kumar	Indian Institute of Technology Roorkee	DST
			CHINA	Daoxin Dai	Zhejiang University	NSFC
28	286 - PORMAT	Natural and artificial porous materials filled with liquid and solid dielectrics	RUSSIA	Sergey Vakhrushev	Peter the Great St. Petersburg Polytechnic University	RFBR
			INDIA	Ravi Kumar N V	Indian Institute of Technology-Madras	DST
			SOUTH AFRICA	Georges-Ivo Ekosse	University of Venda	NRF
29	314 - QuSaF	Quantum Satellite and Fibre Communication	RUSSIA	Anton Bourdine	Povolzhskiy State University of Telecommunications and Informatics	RFBR
			INDIA	Manish Tiwari	Manipal University Jaipur	DST
			CHINA	Juan Yin	University of Science and Technology of China	NSFC
			SOUTH AFRICA	Francesco Petruccione	University of KwaZulu-Natal	NRF

30	374 - FunTiSurf	FUNCTIONALIZATION OF NEW TITANIUM ALLOYS AFTER ECAP PROCESSING AND SURFACE TREATMENT	BRAZIL	Paulo Noronha Lisboa-Filho	São Paulo State University	CNPq
			RUSSIA	Dmitry Gunderov	Ufa State Aviation Technical University	RFBR
			INDIA	Murugan Ramalingam	Vellore Institute of Technology	DST
31	394 - HyMMIA	Hybrid Methods for Radiological Medical Image Analysis and Pathological Grading Prediction	BRAZIL	Mylene Christine Queiroz de Farias	University of Brasilia	CNPq
			RUSSIA	Andrey S. Krylov	Lomonosov Moscow State University	RFBR
			CHINA	Yong Ding	Zhejiang University	MOST
32	439 - Climate change and flow regimes in the plateaus of Asia	Detect and predict the impacts of climate change on the flow regimes of rivers originated from plateaus in Asia	RUSSIA	Olga Makarieva	Melnikov Permafrost Institute	RFBR
			INDIA	J. Indu	Indian Institute of Technology Bombay	DST
			CHINA	Lei Cheng	Wuhan University	NSFC
33	444 -	Stimuli responsive photothermal nanoparticles in cancer therapy	INDIA	Kaushik Pal	Indian Institute of Technology Roorkee	DST
			CHINA	Yucui Wang	University of Science and Technology of China	NSFC
			SOUTH AFRICA	Moganavelli Singh	University of KwaZulu-Natal	NRF

34	447 - BioTheraBubble	Bioactive ultrasound-driven microbubbles for theranostics	RUSSIA	Dmitry Gorin	Skolkovo Institute of Science and Technology	RFBR
			INDIA	Krishna Kanti Dey	Indian Institute of Technology Gandhinagar	DST
			CHINA	Yongfeng Mei	Fudan University	NSFC
35	470 - Designing novel inhibitors for HIV protease	An integrative approach for understanding the structure, function and dynamics of HIV protease: applications to design novel inhibitors	BRAZIL	Vasco Azevedo	Federal University of Minas Gerais	CNPq
			INDIA	M. Michael Gromiha	Indian Institute of Technology Madras	DST
			SOUTH AFRICA	Yasien Sayed	University of the Witwatersrand	NRF