

## BRICS STI FRAMEWORK PROGRAMME

2<sup>nd</sup> CALL 2017

### List of successful projects

№	Registration number (BRICS2017-) and Acronym	Full Title	Country	PI	Organization	National funding organization
1	022 - RDRNCD	Radical decrease in risk of natural catastrophic disasters	RUSSIA	Vladimir V. Makarov	Far Eastern Federal University	MON
			INDIA	Pijush Samui	National Institute of Technology Patna	DST
			CHINA	Meifeng Cai	University of Science and Technology Beijing	MOST
2	026 - NanoHybrid	New core-shell hybrid nanostructures: Evaluation of surface coating impact to biosafety and potential therapeutic applications	RUSSIA	Sergey O. Bachurin	Institute of Physiologically Active Compounds RAS	MON
			CHINA	Ying Zhao	National Center for Nanoscience & Technology of China	NSFC
			SOUTH AFRICA	Mary Gulumian	National Institute for Occupational Health	NRF
3	053 - TherNC	Biofunctional theranostics nanocomplexes for combined therapy of solid cancer	RUSSIA	Andrei V. Zvyagin	Lobachevsky State University of Nizhni Novgorod	MON
			INDIA	Indrajit Roy	University of Delhi	DST
			CHINA	Quan Lin	Jilin University	NSFC

4	059 - SEAMLESSIPS	Development and realization of high accuracy Indoor and Outdoor Seamless positioning system: Hardware and software	RUSSIA	Vladimir Badenko	Peter the Great St. Petersburg Polytechnic University	MON
			INDIA	R.D. Garg	Indian Institute of Technology	DST
			CHINA	Lei Zhang	East China Normal University Shanghai	MOST
5	064 - RICS-MH	Metal hydride materials and systems for the increase of efficiency in renewable and hydrogen energy	RUSSIA	Boris Tarasov	Institute of Problems of Chemical Physics RAS	MON
			INDIA	Muthukumar Palanisamy	Indian Institute of Technology Guwahati	DST
			CHINA	Xiao Fangming	Guangdong Research Institute of Rare Metals	MOST
			SOUTH AFRICA	Mykhaylo Lototskyy	University of the Western Cape	
6	069 - 3DeepCV	Machine Learning Technologies for 3D Data Processing in Computer Vision and Remote Sensing Applications	BRAZIL	Luiz Velho	Instituto Nacional de Matematica Pura e Aplicada	CNPq
			RUSSIA	Evgeny Burnaev	Skolkovo Institute of Science and Technology	MON
			CHINA	Youyi Zheng	Zhejiang University	MOST
7	116 - ICP-BIO	Development of fundamentals for Integrated Catalytic Processing of BIOMass to fuels and value-added chemicals	BRAZIL	Simoni Margareti Plentz Meneghetti	Federal University of Alagoas	CNPq
			RUSSIA	Esther M. Sulman	Tver State University	RFBR
			INDIA	Bhalchandra M. Bhanage	Institute of Chemical Technology	DST

8	144 - IWMM- BIS	Integrated Water Management Model for BIS Countries Under Climate Change Scenarios	BRAZIL	Suzana Maria Gico Lima Montenegro	Universidade Federal de Pernambuco	CNPq
			INDIA	Venkata Reddy Keesara	National Institute of Technology Warangal	DST
			SOUTH AFRICA	Bloodless Dzwairo	Durban University of Technology	NRF
9	146 - IEEE-OSC	Interface-engineered and energy-efficient organic solar cells based on porphyrin small molecules	BRAZIL	Paulo Barbeitas Miranda	University of Sao Paulo	CNPq
			INDIA	Sai Santosh Kumar Raavi	Indian Institute of Technology Hyderabad	DST
			CHINA	Xiaobin Peng	South China University of Technology	NSFC
10	150 - EPNAPT	Engineering peptide-based nano-biomaterials for antitumor photodynamic therapy	RUSSIA	Rawil Fakhrullin	Kazan Federal University	RFBR
			INDIA	Thimmaiah Govindaraju	Jawaharlal Nehru Centre for Advanced Scientific Research	DST
			CHINA	Xuehai Yan	Institute of Process Engineering CAS	NSFC
11	191 - BNEAT	Energy Band and Nanostructure Engineering of AIV-BVI — based Thermoelectrics for Efficient Heat Energy Conversion	RUSSIA	Alexander Burkov	Ioffe Institute	RFBR
			INDIA	Kanishka Biswas	Jawaharlal Nehru Centre for Advanced Scientific Research	DST
			CHINA	Yanzhong Pei	Tongji University	NSFC

12	209 - GPCRArrSig	Understanding the structural basis of biased GPCR signaling to develop novel therapeutics with minimized side-effects	RUSSIA	Vadim Cherezov	Moscow Institute of Physics and Technology	RFBR
			INDIA	Arun Shukla	Indian Institute of Technology	DST
			CHINA	Haitao Zhang	Zhejiang University	NSFC
13	211 - 2DNEURO	Electronic synapses based on two dimensional materials for neuromorphic computing	BRAZIL	Gilson Inacio Wirth	Universidade Federal do Rio Grande do Sul	CNPq
			RUSSIA	Vladimir Gritsenko	Rzhanov Institute of Semiconductor Physics SB RAS	RFBR
			INDIA	Santanu Mahapatra	Indian Institute of Science Bangalore	DST
			CHINA	Mario Lanza	Soochow University	MOST
14	236 - CCT	Development of the dual inhibitors targeting Wnt signaling as colorectal cancer therapeutics	RUSSIA	Vladimir A. Palyulin	Lomonosov Moscow State University	RFBR
			INDIA	Ahmed Kamal	Hamdard University	DST
			SOUTH AFRICA	Vinees Pillay	University of the Witwatersrand	NRF
15	256 - GLOWSENS	Global and local water quality monitoring by multimodal sensor systems	BRAZIL	Oswaldo Novais de Oliveira Jr.	University of São Paulo	CNPq
			RUSSIA	Andrey Legin	ITMO University	RFBR

			INDIA	Nabarun Bhattacharyya	Centre For Development of Advanced Computing	DST
			CHINA	Chunsheng Wu	Xi'an Jiaotong University	NSFC
			SOUTH AFRICA	Gordon O'Brien	University of KwaZulu-Natal	NRF
16	258 - EMPMM	Electronic and magnetic properties of multiferroic materials	RUSSIA	Alexander Pyatakov	M. V. Lomonosov Moscow State University	RFBR
			INDIA	A. Sundaresan	Jawaharlal Nehru Centre for Advanced Scientific Research	DST
			CHINA	Wei Ren	Shanghai University	NSFC
17	390 - SCBCPCVD	Silicon Carbide Biomedical Coatings Prepared By Chemical Vapor Deposition	RUSSIA	Marina Kosinova	Nikolaev Institute of Inorganic Chemistry SB RAS	RFBR
			INDIA	Bikramjit Basu	Indian Institute of Science Bangalore	DST
			CHINA	Rong Tu	Wuhan University of Technology	NSFC
18	418 - BRICS-BEST	BRICS technology platform for integrated bioprocessing of agricultural residues for eco-sustainable production of biofuels and by-products	BRAZIL	Carlos Ricardo Soccol	Federalm University of Parana	CNPq
			RUSSIA	Arkady P. Sinitsyn	Federal Research Centre "Fundamentals of Biotechnology" RAS	RFBR

			INDIA	Sudesh K Yadav	Center of innovative and Applied Bioprocessing	DST
			CHINA	Zhengxiang Wang	Tianjin University of Science & Technology	MOST
			SOUTH AFRICA	Kugenthiren Permaul	Durban University of Technology Biotechnology and Food Technology	NRF
19	422 - REMULFUN	Renewable Energy Based Multifunctional Solid Sorption Thermal Battery for Year-round Building Thermal Management or Diverse Climatic Conditions of Russia, India and China	RUSSIA	Yuriy Aristov	Boreskov Institute of Catalysis	RFBR
			INDIA	Pradip Dutta	Indian Institute of Science	DST
			CHINA	Li Tingxian	Shanghai Jiao Tong University	MOST
20	431 - LIESTER	Investigating the links between different environmental conditions and severe thunderstorms characteristics and structure for Different Earth Region	RUSSIA	Andrei Sinkevich	Voeikov Main Geophysical Observatory	RFBR
			INDIA	Sunil Dnyandeo Pawar	Indian Institute of Tropical Meteorology	DST
			CHINA	Jing Yang	Institute of Atmospheric Physics CAS	MOST

21	433 - NFSMAFPSC	Development of efficient polymer solar cells based on non fullerene small molecules acceptors with low energy loss	RUSSIA	Alexei Khokhlov	A.N.Nesmeyanov Institute of Organoelement Compounds RAS	RFBR
			INDIA	Ganesh D. Sharma	The LNM Institute of Technology	DST
			CHINA	Chuangdong Dou	Changchun Institute of Applied Chemistry	MOST
22	435 - MRP-TB	Multidisciplinary research platform to identify new TB drug targets	INDIA	Shekhar C Mande	Pune University	DST
			CHINA	Shiyun Chen	Wuhan Institute of Virology CAS	NSFC
			SOUTH AFRICA	Adrie JC Steyn	Africa Health Research Institute	NRF
23	486 - SIAOESUF	Studies into aspects of energy storage using flywheels	BRAZIL	Aly Ferreira Flores Filho	Federal University of Rio Grande do Sul	CNPq
			CHINA	Wei Xu	Huazhong University of Science and Technology	MOST
			SOUTH AFRICA	David G. Dorrell	University of KwaZulu-Natal	NRF
24	487 - POLYCAT	Finely tuning late-transition metal precatalysts towards ethylene polymerization for the amorphous highly-branched and elastomeric polyethylenes	BRAZIL	Osvaldo de Lazaro Casagrande Junior	Federal University of Rio Grande do Sul	CNPq
			RUSSIA	Evgenii P. Talsi	Boreskov Institute of Catalysis	RFBR
			CHINA	Wen-Hua Sun	Institute of Chemistry CAS	NSFC

25	493 - Envirorganic	Environmental geochemistry and treatment of organic pollutants in aquatic systems in the selected areas of China, India, and Russia	RUSSIA	Oleg Savichev	National Research Tomsk Polytechnic University	RFBR
			INDIA	Supriya Pal	National Institute of Technology Durgapur	DST
			CHINA	Sun Zhanxue	East China University of Technology	NSFC
26	517 - From waste to resources	Development of membrane-based methods to improve the recovery of pure water and valuable products from the waste	BRAZIL	Andrea Moura Bernardes	Federal University of Rio Grande do Sul	CNPq
			RUSSIA	Alexey Volkov	A.V.Topchiev Institute of Petrochemical Synthesis RAS	RFBR
			INDIA	Sourja Ghosh	CSIR-Central Glass and Ceramic Research Institute	DST
			CHINA	Tao He	Shanghai Advanced Research Institute CAS	NSFC
			SOUTH AFRICA	Lueta-Ann de Kock	University of South Africa	NRF
27	526 - MBLI	Development of new approaches to overcome MBL-related resistance in bacteria	BRAZIL	Cristiano Marcelo Espinola Carvalho	Dom Bosco Catholic University	CNPq
			RUSSIA	Tatiana V. Ovchinnikova	M.M.Shemyakin & Yu.A.Ovchinnikov Institute of Bioorganic Chemistry RAS	RFBR
			INDIA	Jayanta Haldar	Jawaharlal Nehru Centre for Advanced Scientific Research	DST
			CHINA	Hixen Xie	East China University of Science and Technology	NSFC



28	563 - APARDS	Antiparasitic drug delivery system	BRAZIL	Vanessa Mosqueira	Universidade Federal de Ouro Preto	CNPq
			CHINA	Fenghua Meng	Soochow University	NSFC
			SOUTH AFRICA	Bert Klumperman	Stellenbosch University	NRF
29	591 - LargEWiN	Design and Development of Large-Scale Ambient Energy Harvesting Wireless Networks	BRAZIL	Daniel Benevides da Costa	Federal University of Ceará	CNPq
			INDIA	Prabhat Kumar Upadhyay	Indian Institute of Technology Indore	DST
			CHINA	Haiyang Ding	National University of Defense Technology	MOST
			SOUTH AFRICA	Jules Moualeu	University of the Witwatersrand	NRF
30	617 - FDDLDC	Fracture and delamination under dynamic loading	RUSSIA	Yuri Petrov	Saint Petersburg State University	RFBR
			INDIA	P. Venkitanarayanan	Indian Institute of Technology Kanpur	DST
			CHINA	Ya-Pu Zhao	Institute of Mechanics CAS	NSFC

31	624 - FAIE	Fluxes-Assisted Inclusion Engineering: Applications in Low-carbon Low-alloy Shipbuilding Plates	INDIA	Somnath Basu	Indian Institute of Technology Bombay	DST
			CHINA	Cong Wang	Northeastern University	NSFC
			SOUTH AFRICA	Theresa Coetsee	University of Pretoria	NRF
32	663 - Optonanospin	Nanostructures with large magneto-optical activity and spin-orbit interaction	RUSSIA	Vladimir I. Belotelov	International Center for Quantum Optics & Quantum Technologies	RFBR
			INDIA	Venu Gopal Achanta	Tata Institute of Fundamental Research	DST
			CHINA	Yujun Song	University of Science and Technology Beijing	NSFC