

**BRICS STI FRAMEWORK PROGRAMME**

**5<sup>th</sup> CALL 2021**

**Provisional List of Selected Projects\***

<b>№</b>	<b>Registration number (BRICS2021-) and Acronym</b>	<b>Full Title</b>	<b>Country</b>	<b>PI</b>	<b>Organization</b>	<b>National funding organization</b>
1	038 - UNCMSIB	Design and Development of Ultra-Small Nanocrystal Based Materials for Advanced Sodium Ion Batteries	INDIA	Amartya Mukhopadhyay	Indian Institute of Technology, Bombay	DST
			CHINA	Li Li	Northeastern University	
			SOUTH AFRICA	Michael Daramola	University of Stellenboch	NRF
2	100 - SAPTARISI	Search and Follow-up Studies of Time-domain Astronomical Sources using Sky Surveys, BRICS Telescopes and Artificial Intelligence	RUSSIA	Oleg Malkov	Institute of Astronomy RAS	MSHE
			INDIA	Santosh Joshi	Aryabhata Research Institute of Observational Sciences	DST
			CHINA	Kefeng Tan	National Astronomical Observatories, CAS	NSFC
3	112 - SEBIPMI	Surface Engineering of Biomedical Implants for the Prevention of MDR Infection	BRAZIL	Valentim A R Barão	University of Campinas	CNPq
			INDIA	Selvakumar Murugesan	National Institute of Technology Karnataka	DST
			CHINA	Xu Liqun	Southwest University	MOST

4	115 - 3DBioPhoto	3D photonic bioprinting assisted by 2D materials for the new generation of biomedical devices	BRAZIL	Arnaldo Leal Junior	Federal University of Espirito Santo	CNPq
			INDIA	Anuj Kumar Sharma	National Institute of Technology Delhi	DST
			CHINA	Rui Min	Beijing Normal University	MOST
5	130 - PARADIGM	A BRICS Predicted Ocean: Roadmap and Demonstration of model validation, intercomparisons and applications for sustainable management of the coastal ocean	BRAZIL	Mauro Cirano	Federal University of Rio de Janeiro	CNPq
			RUSSIA	Roman Sedakov	Shirshov Institute of Oceanology	MSHE
			INDIA	P. N. Vinayachandran	Indian Institute of Science	DST
			CHINA	Fangli Qiao	First Institute of Oceanography	MOST
			SOUTH AFRICA	Jennifer Veitch	South African Environmental Observation Network - Egagasini Node	NRF
6	165 - AIESMx	Artificial Intelligence and Earth System Modelling toward Detection of Extreme Climate Events in the BRICS	BRAZIL	Paulo Nobre	National Institute for Space Research	CNPq
			INDIA	Ayantika Dey Choudhury	Indian Institute of Tropical Meteorology	DST
			CHINA	Zhaohui Lin	Institute of Atmospheric Physics, CAS	MOST
7	199 - CTMforPSCs	New charge transport materials and interface engineering for highly efficient and stable	RUSSIA	Sergey M. Aldoshin	Institute for Problems of Chemical Physics RAS	MSHE
			INDIA	Parameswar Krishnan Iyer	Indian Institute of Technology Guwahati	DST

		perovskite solar cells	CHINA	Qinye Bao	East China Normal University	NSFC
8	243 - HyWaTS	Hybrid Non Sewered wastewater treatment system for safe discharge and reuse.	BRAZIL	Carlos Alexandre Lutterbeck	University of Santa Cruz do Sul	CNPq
			INDIA	Srikanth Mutnuri	Birla Institute of Technology and Science	DST
			CHINA	Zifu Li	University of Science and Technology Beijing	NSFC
			SOUTH AFRICA	Stefan Schmidt	University of KwaZulu-Natal	WRC
9	248 - ALMOFEW	Active Machine Learning Guided Discovery and Optimization of Effective MOF-based Catalysts for Electrolysis of Water	RUSSIA	Sergey V. Levchenko	Skolkovo Institute of Science and Technology	MSHE
			INDIA	Debalaya Sarker	UGC-DAE Consortium for Scientific Research, Indore	DST
			CHINA	Minghua Huang	Ocean university of China	NSFC
10	277 - BIO-LIGHT	High output power emitters and sensitive detectors based on AlGaN nanoheterostructures for deep-ultraviolet radiation: towards biological applications	RUSSIA	Valentin Jmerik	Ioffe Institute	MSHE
			INDIA	Govind Gupta	CSIR-National Physical Laboratory	DST
			CHINA	Xinqiang Wang	Peking University	MOST
			BRAZIL	Ulisses Barres de Almeida	Brazilian Center for Research in Physics	CNPq

11	285 - CoNMuTraMO	Constraining the Nature of Multi-messenger Transients with Coordinated Multi-wavelength Observations	RUSSIA	A. Pozanenko	Space Research Institute	MSHE
			INDIA	Kuntal Misra	Aryabhata Research Institute of Observational Sciences	DST
			CHINA	Roberto Soria	NAOC Chenzhou	NSFC
			SOUTH AFRICA	David Buckley	SAAO/UCT/UFS	NRF
12	358 - Drug-Free Wastewater	Monitoring and removal of antibiotics from wastewater by membrane separation	BRAZIL	Salatiel Wohlmuth da Silva	Federal University of Rio Grande do Sul	CNPq
			RUSSIA	Alexey Volkov	A.V.Topchiev Institute of Petrochemical Synthesis RAS	MSHE
			INDIA	Swachchha Majumdar	CSIR-Central Glass and Ceramic Research Institute	DST
			CHINA	Lin Zhang	Zhejiang University	NSFC
			SOUTH AFRICA	Tshepo Malefetse	University of South Africa	

\* The selected projects will be funded subject to financial/administrative approvals and other necessary clearances.