

## NEW EXTRAMURAL GRANTS 2021-2022

Sl. No.	Name of the Project Project Leader Project Code Funding Agency	Period From	Period to	Funds received during the year (Amount in Lakhs)	Remarks
1	<i>Neural-network quantum state (NQS) based variational wave function for strongly correlated electron systems</i> DR. AMAL MEDHI SERB-CRG / 2021 / 005792 SERB	19.03.2022	18.03.2025	15.93	
2	<i>INSPIRE FACULTY FELLOWSHIP</i> DR. ANAND NARAYANA SARMA DST-INSPIRE FACULTY FELLOWSHIP / BATCH-17 / 2020-DST / INSPIRE / 04 / 2020 / 001237 DST	22.10.2021	21.10.2026	22.00	
3	<i>Post-doctoral Fellowship</i> DR. ARATI SHASHI NBHM DAE	01.05.2021	30.04.2023	6.94	
4	<i>Functionality Shuttling via Catalytic Isodesmic Reaction and Its Application in Organic Synthesis</i> DR. BASUDEV SAHOO SERB-SRG / 2021 / 000572 SERB	15.12.2021	14.12.2023	22.79	
5	<i>Exploring 2D Atomic Crystals for Resistive Switching Based Emerging Artificial Neuromorphic Devices</i> DR. BIKAS C DAS SERB-CRG / 2021 / 000567 SERB	02.03.2022	01.03.2025	26.13	
6	<i>Energy-Efficient Synaptic Transistors of Two-Dimensional Layered Material</i> DR. BIKAS C DAS SERB-EEQ / 2021 / 000810 SERB	14.03.2022	13.03.2025	44.80	

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7	<i>Thermal Expansion Measurements in a spin ½ Heisenberg antiferromagnet C12H14CuN4O5</i> DR. DEEPSHIKHA JAISWAL NAGAR SERB-CRG / 2021 / 001262 SERB	14.03.2022	13.03.2025	74.06	
8	<i>Asymptotic preserving IMEX-DG schemes on adaptive grids for multiscale compressible flows</i> DR. K R ARUN SERB-CRG / 2021 / 004078 SERB	24.02.2022	23.02.2025	10.87	
9	<i>Non-volatile resistance switching memory on SiC for harsh environment applications</i> DR. KUMARAGURUBARAN SOMU SERB-CRG / 2021 / 000935 SERB	16.03.2022	15.03.2025	26.40	
10	<i>Lithium Battery Testing</i> DR. M M SHAIJUMON MOMENTIVE PERFORMANCE MATERAILS (INDIA) PVT LTD OTHERS	01.02.2022	31.01.2023	15.59	
11	<i>DST-Storage MAP</i> DR. M M SHAIJUMON DST / TMD / IC-MAP / 2K20 / 01 DST	14.02.2022	13.02.2025	65.25	
12	<i>Design and fabrication of electrocatalytic microcells using elemental 2-dimensional materials</i> DR. M M SHAIJUMON SERB-CRG / 2021 / 006246 SERB	22.03.2022	21.03.2025	35.02	
13	<i>Efficient means of zero-error communication through coherent controlling of noisy quantum channels</i> DR. MANIK BANIK SERB-SRG / 2021 / 000267 SERB	29.12.2021	28.12.2023	7.94	
14	<i>Devising practically implementable enhanced means of communication with the aid of quantum resources</i> DR. MANIK BANIK Chanakya Post-Doctoral Fellowship DST	01.04.2022	31.03.2023	12.60	
15	<i>Transparent solar cells: A perspective for bifacial solar cells</i> DR. MANOJ A G NAMBOOTHIRY SERB-CRG / 2021 / 003874 SERB	24.02.2022	23.02.2025	56.24	

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16	IISER TVM-KLDB COLLABORATIVE PROJECT DR. N SADANANDA SINGH KLDB COLLABORATIVE PROJECT KLDB	24.09.2021	23.09.2026	31.00	
17	Engineering a site-specific synthetic chromatin remodeler for genome editing and gene expression DR. NISHANT K T SERB-SUPRA-SPR / 2020 / 000427 SERB	31.08.2021	30.08.2024	7.25	
18	Bheja Fry DR. POONAM THAKUR NCBS-INDIABIOSCIENCE OUTREACH GRANTS NCBS	01.12.2021	30.11.2022	0.70	
19	Autophagy upregulation as a therapeutic approach for Parkinson's disease DR. POONAM THAKUR SERB-SRG / 2021 / 000981 SERB	28.12.2021	27.12.2023	21.40	
20	Post-doctoral Fellowship DR. PRASANTA KUMAR BARIK NBHM DAE	02.08.2021	31.07.2022	8.02	
21	Multifunctional Biodegradable Hybrid Black phosphorous-CaCO <sub>3</sub> Nanoparticles as a Synergistic Targeted Chemo-photothermal Therapy for Glioblastoma Multiforme DR. RAJENDRA KURAPATI DBT-BT / RLF / Re-entry / 24 / 2020 DBT	05.04.2021	04.04.2026	18.14	Project transferred from University of Hyderabad
22	Characterization of network structure and homogeneity of N-Doped Graphene activated Natural Rubber Sulfur Vulcanizate DR. RANI ALPHONSA JOSE SERB-TAR / 2021 / 000384 SERB	10.12.2021	09.12.2024	3.35	
23	Nickel mediated cross-coupling reactions of $\alpha$ -SILYLOXYALKYL - Zinc reagents DR. RAMESH RASAPPAN CSIR-02(0409) / 21 / EMR-II CSIR	02.09.2021	01.09.2024	8.00	
24	Decoding Neuronal States using Chimera Patterns DR. SENTHILKUMAR D.V SERB-CRG / 2021 / 000816 SERB	08.03.2022	07.03.2025	12.52	

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25	INSPIRE FACULTY FELLOWSHIP DR. SHABNAM IYYANI DST-INSPIRE FACULTY FELLOWSHIP / 2019 / 00540 DST	01.10.2020	30.09.2025	11.97	Project transferred from IUCAA,PUNE
26	Control and Finite Element Analysis of Cahn-Hilliard-Navier-Stokes system DR. SHEETAL DHARMATTI SERB-CRG / 2021 / 008278 SERB	02.03.2022	01.03.2025	7.23	
27	Unrevealing the entry mechanism of Tick-borne Kyasanur Forest diseases Virus DR. STALIN RAJ VICTOR DBT-BT / PR32565 / MED / 29 / 1554 / 2020 DBT	20.07.2021	19.07.2023	22.35	
28	Chemistry of Reactive Sulfur and Selenium Species: Elucidating the Routes in Bio(in) organic Signaling and Toxicology DR. SUBRATA KUNDU SERB-CRG / 2021 / 001174 SERB	15.12.2021	14.12.2024	19.43	
29	Blockade of CXCL-3–CXCR-2 axis normalises tumor vasculature and enhances immune surveillance in triple negative breast cancer DR. SUBOJ BABYKUTTY SERB-TAR / 2021 / 000147 SERB	13.12.2021	12.12.2024	3.35	
30	National Post-Doctoral Fellowship DR. SUJAY KUMAR NANDI SERB-PDF / 2021 / 002015 SERB			10.66	Refunded the Grant as the NPFD did not join.
31	Conductive inorganic-organic hybrid materials for electrochemical applications DR. SUKHENDU MANDAL CSIR-01(3024) / 21 / EMR-II CSIR	09.02.2022	08.02.2025	2.00	
32	Plasmonic Chromatography for Multiresidue Pesticide Detection in Spices DR. T SHYAMALA DST / WOS-B / AFE-20 / 2021(G) DST	07.01.2022	06.01.2025	11.43	
33	Efficient Neuromorphic Memory via Nano-engineered Composite Film DR. TUHIN SUBHRA MAITY SERB-SRG / 2021 / 000423-DR.TUHIN SUBHRA MAITY SERB	28.12.2021	27.12.2023	28.50	

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34	<i>Activation of Alkyl Chlorides Driven by Visible Light Titanium Photoredox Catalysis</i> DR. VEERA REDDY YATHAM SERB-SRG / 2021 / 000834 SERB	15.12.2021	14.12.2023	24.91	
35	<i>Unraveling the conformational changes during photocyclization of o-arenes by femtosecond time-resolved circular dichorism</i> DR. Y ADITHYA LAKSHMANNA SERB-CRG / 2020 / 000321 SERB	18.12.2020	17.12.2023	61.39	Project transferred from IISER BHOPAL
36	<i>Photochemical and Electrochemical Processes in Assembled Molecules and Nanomaterials: Implications Field and Coherence in Photovoltaics</i> PROF. K GEORGE THOMAS DST / NM / TUE / EE-01 / 2019 DST	15.11.2021	14.11.2025	169.00	

## ON-GOING EXTRAMURAL GRANTS 2021-2022

Sl. No.	Name of the Project Project Leader Project Code Funding Agency	Period From	Period to	Funds received during the year (Amount in Lakhs)	Remarks
1	<i>Exploring the active sites of nitrogen and boron containing / doped materials: N2-C-B type active sites for electrocatalytic 4-electron oxygen reduction reaction</i> <b>DR. A MUTHUKRISHNAN</b> DST / TMD / HFC / 2K18 / 24[C] & [G] DST	17.09.2019	16.09.2022	9.74	
2	<i>Al(I) / Al(III) Lewis Pairs for the Activation of Inert Chemical Bonds</i> <b>DR. AJAY VENUGOPAL</b> CRG / 2019 / 005040 SERB	01.01.2020	31.12.2022	6.00	
3	<i>Electrophilic Aluminium Compounds for Catalytic CO2 Hydrosilylation</i> <b>DR. AJAY VENUGOPAL</b> STARS / APR2019 / CS / 250 / FS MHRD	31.12.2019	30.12.2022	2.46	
4	<i>Directed Site-Selective C-H Functionaization of Aromatic and Heteroaromatic Precursors</i> <b>DR. ALAGIRI KALIYAMOORTHY</b> EEQ / 2016 / 000231 SERB	11.05.2017	10.05.2021	-	
5	<i>Quasi-optimality of adaptive finite element methods for elliptic optimal control problems</i> <b>DR. ASHA KISAN DOND</b> SRG / 2020 / 001027 SERB	23.12.2020	22.12.2022	-	
6	<i>Conformal approach to supergravity: New Perspectives and Applications</i> <b>DR. BINDUSAR SAHOO</b> CRG / 2018 / 002373 SERB	27.03.2019	26.09.2022	7.00	

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7	<i>Development of solid state hybrid hydrogen using Palladium and Magnesium nanoclusters</i> DR. DEEPSHIKHA JAISWAL NAGAR ISRO-DS-2B-13012 (2) / 42 / 2017 ISRO	01.03.2018	08.12.2021	2.47	
8	<i>Palladium and Magnesium based hybrid nanocluster structures for high gravimetric capacity hydrogen storage</i> DR. DEEPSHIKHA JAISWAL NAGAR DST / TMD / HFC / 2K18 / 37 (C) & (G) DST	17.09.2019	16.09.2022	12.22	
9	<i>Study of Convolution Operators on Topological Groups</i> DR. DEVARAJ PONNAIAN MTR / 2018 / 000559 SERB	14.03.2019	13.03.2022	1.80	
10	<i>INSPIRE FACULTY AWARD</i> DR. DHANYA RAJENDRAN INSPIRE FACULTY AWARD-IFA-15-MA72 DST	20.04.2016	19.04.2022	-	
11	<i>On certain class of diagram algebras arising from Schur-Weyl duality</i> DR. GEETHA T MTR / 2017 / 000424 SERB	06.06.2018	05.06.2021	-	
12	<i>Design and Synthesis of Pie Extended and Ring- Extended Bis-Macrocyclic and Investigating their Photophysical Properties for Optoelectronic Applications</i> DR. GOKULNATH SABAPATHI CRG / 2019 / 006303 SERB	05.02.2020	04.02.2023	10.00	
13	<i>Infrared Plasmonics of Nanostructured Conducting Oxides for communication and spectroscopic applications</i> DR. JOY MITRA CRG / 2019 / 004965 SERB	07.02.2020	06.02.2023	7.50	
14	<i>Ramanujan Fellowship</i> DR. JOYDEB MANDAL RJF / 2020 / 000103 SERB	08.03.2021	07.03.2026	25.34	
15	<i>Functional Characterization of Genetic and Epigenetic Regulatory Networks Involved in the Reproductive Development in Rice</i> DR. KALIKA PRASAD BT / PR12394 / AGIII / 103 / 891 / 2014 DBT	20.11.2015	19.11.2021	6.50	

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16	<i>Control of stem cell heterogeneity during shoot regeneration in Arabidopsis - a functional and mechanistic analysis of its epigenetic regulators</i> <b>DR. KALIKA PRASAD</b> EMR / 2017 / 002503 SERB	21.05.2019	20.05.2022	9.00	
17	<i>Noble-Metal free Advanced Catalysts for Hydrogen Generation and Fuel Cell Applications</i> <b>DR. M M SHAIJUMON</b> DST / TMD / HFC / 2K18 / 136 (C) & (G) DST	23.10.2019	22.10.2022	10.00	
18	<i>Multi-wavelength Selective Plane Illumination Microscope - with simultaneous magnification at multiple levels: A promising imaging technology for molecular and cellular biology</i> <b>DR. M SUHESH KUMAR SINGH</b> BT / PR30005 / MED / 32 / 657 / 2018 DBT	13.09.2019	12.09.2022	1.50	
19	<i>Van Der Waals superconducting circuits operating at elevated temperatures &amp; magnetic fields</i> <b>DR. MADHU THALAKULAM</b> CRG / 2018 / 004213 SERB	20.03.2019	19.03.2022	9.00	
20	<i>Quantum point contact charge amplifiers embedded in a planar superconducting microwave resonator: Quantum-limited charge sensing and counting</i> <b>DR. MADHU THALAKULAM</b> STARS / APR2019 / PS / 363 / FS MHRD	31.12.2019	30.12.2022	1.62	
21	<i>Realizing distributed quantum computing with silicon-based spin qubits</i> <b>DR. MADHU THALAKULAM</b> DST / ICPS / QuST / Theme-4 / 2019 / General DST	24.02.2020	23.02.2023	-	
22	<i>INSPIRE FACULTY AWARD</i> <b>DR. MANIK BANIK</b> INSPIRE FACULTY AWARD-DST / INSPIRE / 04 / 2017 / 002288 DST	18.04.2018	17.04.2023	5.44	
23	<i>Integration of 2D materials in organic and organic-inorganic hybrid solar cells: Insights into charge extraction and transport</i> <b>DR. MANOJ A G NAMBOOTHIRY</b> STARS / APR2019 / PS / 308 / FS MHRD	31.12.2019	30.12.2022	6.39	



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24	INSPIRE FACULTY FELLOWSHIP DR. MATHEW ARUN THOMAS INSPIRE FACULTY FELLOWSHIP / BATCH-16 / 2020-DST / INSPIRE / 04 / 2019 / 002507 DST	20.10.2020	19.10.2025	36.95	
25	Application-development of genome editing tools for gene target discovery and understanding regulation of cholesterol metabolism genes DR. N SADANANDA SINGH BT / RLF / Re-entry17 / 2015-DR. N SADANANDA SINGH DBT	01.08.2017	31.07.2022	5.00	
26	CRISPR / CAS9 based whole genome screening for response to drug treatment DR. N SADANANDA SINGH ECR / 2016 / 000979 SERB	17.07.2018	16.07.2021	-	
27	Development of New and Utilization of Existing Crispr-Cas Tools to Understand Genetic Regulators of Cytoskeleton in Cardiomyocyte DR. N SADANANDA SINGH EEQ / 2018 / 001090 SERB	22.03.2019	21.03.2022	7.50	
28	Mathematical analysis for an optimal control of reaction-diffusion equations in cardiac defibrillation DR. NAGAI AH CHAMAKURI EMR / 2017 / 000664 SERB	01.11.2018	31.10.2021	-	
29	Numerical analysis and simulation of state constrained optimization for multiscale problems DR. NAGAI AH CHAMAKURI MTR / 2017 / 000598 SERB	01.06.2018	31.05.2021	-	
30	HPC technologies and large simulation of the electromechanics for the heart function DR. NAGAI AH CHAMAKURI DST / NSM / R&D_HPC_APPLICATIONS / 2021 / 03.28 DST	23.03.2021	22.03.2023	39.98	
31	Elucidating post-transcriptional regulation of circadian behavior in Drosophila DR. NISHA N KANNAN WELLCOME TRUST-IA / I / 15 / 2 / 502329 DBT	01.12.2016	31.12.2022	9.51	
32	Mechanism of meiotic crossing over through the Msh4-Msh5 dependent pathway DR. NISHANT K T CRG / 2018 / 000916 SERB	22.03.2019	21.03.2022	6.00	

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33	<i>Scheme for Promotion of Academic and Research Collaboration (SPARC)</i> DR. NISHANT K T SPARC-SPARC / 2018-2019 / 58 / SL (IN) MHRD	15.03.2019	30.09.2022	-	
34	<i>Identifying the effect of a-synuclein induced alterations on electrophysiological homeostasis of dopaminergic neurons in Parkinson's disease progression</i> DR. POONAM THAKUR WELLCOME TRUST-IA / E / 17 / 1 / 503664 DBT	01.09.2019	31.08.2024	19.02	
35	<i>Metal decorated graphynes for molecular absorption</i> DR. R S SWATHI 1640 / 2017 / KSCSTE KSCSTE	01.10.2018	31.03.2022	1.01	
36	<i>Investigation of the interaction of acoustic phonons with electrons in semiconductor nanostructures</i> DR. RAJEEV N KINI KSCSTE / 431 / 2018-KSYSA-RG KSCSTE	01.06.2018	31.05.2021	-	
37	<i>Terahertz spectroscopic studies of layered 2-D materials</i> DR. RAJEEV N KINI CRG / 2019 / 004865 SERB	18.01.2020	17.01.2023	4.50	
38	<i>Twistronics with transition metal dichalcogenides</i> DR. RAJEEV N KINI IPA / 2020 / 000021 SERB	26.03.2020	26.03.2025	-	
39	<i>Stereoselective Total Synthesis of Atisan Based Diterpenoids Antiquorpenes</i> DR. RAJENDAR GORETI CRG / 2020 / 003737 SERB	18.12.2020	17.12.2023	8.00	
40	<i>Ramanujan Fellowship</i> DR. RAJENDAR GORETI SB / S2 / RJN-071 / 2015 DST	31.10.2016	30.10.2021	-	
41	<i>Targeted Editing of Potato Genome to Develop Variety Specific True Potato Seed (TPS)</i> DR. RAVI MARUTHACHALAM ICAR-NASF / GT-7024 / 2018-1 ICAR	01.11.2018	31.10.2022	1.60	

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42	<i>Epigenetic modulation of centromeres to produce in vivo haploids by triggering uniparental genome elimination in plants</i> DR. RAVI MARUTHACHALAM STARS / APR2019 / BS / 818 / FS MHRD	31.12.2019	30.12.2022	3.54	
43	<i>Microresonator frequency combs in visible: A path to ultrashort pulse generation and spectroscopy</i> DR. RAVI PANT CRG / 2019 / 000993 SERB	15.01.2020	14.01.2023	5.00	
44	<i>Structure, function and molecular mechanism of transcription regulators in Mycobacterium spp.</i> DR. RAMANATHAN NATESH STARS / APR2019 / BS / 729 / FS MHRD	15.05.2020	04.05.2023	4.90	
45	<i>High fluorine content DNA micelle: A Universal "OFF / ON" 19F-NMR-based probe for the detection of miRNA and Telomerase for cancer diagnosis</i> DR. REJI VARGHESE BT / PR30172 / NNT / 28 / 1593 / 2018 DBT	11.02.2019	10.08.2022	14.34	
46	<i>Olfactory cues used in stingless bee foraging-recruitment behavior: behavioral and neuronal perspectives</i> DR. RESHMA BASAK PDF / 2020 / 000943 SERB	04.02.2021	03.02.2023	-	
47	<i>Conflict between Replication and Transcription accelerates Mutagenesis and drives Antibiotic Resistance</i> DR. SABARI SANKAR THIRUPATHI WELLCOME TRUST-IA / I / 18 / 2 / 504037 DBT	01.10.2019	30.09.2024	38.97	
48	<i>Guage theory of categorical principal bundles</i> DR. SAIKAT CHATTERJEE MTR / 2018 / 000528 SERB	12.03.2019	11.03.2022	1.00	
49	<i>Moduli Space of Vector Bundles Over Smooth Projective Surfaces and ACM Bundles</i> DR. SARBESWAR PAL EMR / 2015 / 002172 SERB	15.05.2018	14.05.2021	-	
50	<i>Understanding the role of Periostin-Itgav interactions in adult and fetal hematopoiesis</i> DR. SATISH KHURANA WELLCOME TRUST-IA / I / 15 / 2 / 502061 DBT	01.12.2016	30.12.2022	25.13	

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51	<i>Structural elucidation of the bacterial transcription elongation complex with Gre factors: focus on Mycobacterium tuberculosis RNA polymerase</i> <b>DR. SANDREA MAUREEN FRANCIS</b> KSCSTE / 264 / 2021-BLP KSCSTE	26.04.2021	25.04.2024	-	
52	<i>Development of next generation all-solid-state sodium-sulfur batteries for lighting and consumer electronic applications</i> <b>DR. SHRUTI SURIYAKUMAR</b> PDF / 2020 / 000209 SERB	12.01.2021	11.01.2023	9.27	
53	<i>Combinatorial exploration and property control of oxide based power semiconductors</i> <b>DR. SOMU KUMARAGURUBARAN</b> DST / INT / JSPS / P-288 / 2019 DST	26.06.2019	25.06.2022	-	
54	<i>INSPIRE FACULTY FELLOWSHIP</i> <b>DR. SOORAJ K</b> DST-INSPIRE FACULTY FELLOWSHIP / BATCH-16 / 2020-DST / INSPIRE / 04 / 2019 / 001843 DST	13.10.2020	12.10.2025	37.24	
55	<i>Design of chiral self-sorting and stimuli-responsive dynamic chiral cages and host-guest chemistry</i> <b>DR. SOUMEN DE</b> SRG / 2020 / 001486 SERB	23.12.2020	22.12.2022	4.00	
56	<i>Utilization of Oleophilic Atomically Precise Metal Nanocluster in Aqueous Medium Through Host-Guest Self-Assembly Approach</i> <b>DR. SOURAV BISWAS</b> PDF / 2020 / 001085 SERB	22.12.2020	21.12.2022	9.00	
57	<i>Investigating post-transcriptional regulation of steroidogenic genes during development</i> <b>DR. SMITHA VISHNU</b> SR / WOS-A / LS-457 / 2017 (G) DST	04.03.2019	04.09.2022	9.00	
58	<i>Development and Evaluation of diagnostics and Candidate Vaccines for emerging SARS-Coronavirus-2 (Dec-VAC-SARS)</i> <b>DR. STALIN RAJ VICTOR</b> IPA / 2020 / 000070 SERB	23.12.2020	22.12.2023	26.00	
59	<i>ENDFLU - Evaluation of Rationally Designed Influenza Vaccines</i> <b>DR. STALIN RAJ VICTOR</b> BT / IN / EU-INF / 15 / RV / 19-20 DBT	31.12.2020	30.12.2025	35.02	

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60	<i>Insights into the Interplay of H<sub>2</sub>S and NO at Redox Active Metal sites</i> DR. SUBRATA KUNDU ECR / 2017 / 003200 SERB	20.07.2018	19.07.2021	-	
61	<i>Numerical analysis and computational methods for hyperbolic conservation laws</i> DR. SUDASHAN KUMAR MTR / 2017 / 000649 SERB	13.06.2018	12.06.2021	-	
62	<i>Tailoring the Catalytic Properties of Atom-Precise Metal Nanoclusters</i> DR. SUKHENDU MANDAL EMR / 2016 / 007501 SERB	09.07.2018	08.07.2021	-	
63	<i>Atomically precise alloy nanocluster as promising electro-catalyst for carbon dioxide and nitrogen reduction</i> DR. SUKHENDU MANDAL DST / INT / JSPS / P-285 / 2019 DST	26.06.2019	25.06.2021	-	
64	<i>Efficient Neuromorphic Memory via Nano-engineered Composite Film</i> DR. TUHIN SUBHRA MAITY SRG / 2021 / 000423 SERB	28.12.2021	27.12.2023	-	
65	<i>Understanding diversification of Impatiens species in the Northern Western Ghats</i> DR. ULLASA KODANDARAMIAH BT / PR27535 / NDB / 39 / 600 / 2018 DBT	24.09.2018	23.03.2022	-	
66	<i>Inspire Faculty Award - Development of Novel metal oxide-graphene based nanocomposite Materials for Microsensors and Nano electronics device applications</i> DR. VINAYAK B KAMBLE DST-INSPIRE-DST / INSPIRE Faculty Award / 2016 / DST / INSPIRE / 04 / 2015 / 002111 DST	28.07.2016	27.07.2022	-	
67	<i>Junction Barrier modulation study in engineered core-shell oxide heterostructure Gas sensor device</i> DR. VINAYAK B KAMBLE DST / NM / NT / 2018 / 124 (C) & (G) DST	30.10.2018	30.04.2022	4.95	

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68	<i>Study of Novel Oxide and Graphene Core Shell nanoarchitectures for High Temperature Thermoelectric Power Generations</i> DR. VINAYAK B KAMBLE EEQ / 2018 / 000769 SERB	16.03.2019	15.03.2022	4.00	
69	<i>Structural and thermodynamic study of the phase separation of TIA1 in the presence of Tau protein and the influence of the phase separation on protein aggregation</i> DR. VINESH VIJAYAN CRG / 2019 / 004880 SERB	05.02.2020	04.02.2023	7.00	
70	<i>Structural characterization of functional prion domain of mammalian cytoplasmic polyadenylation element-binding protein 3 (CPEB3)</i> DR. VINESH VIJAYAN STARS / APR2019 / BS / 708 / FS MHRD	31.12.2019	30.12.2022	7.51	
71	<i>Schurs Exponent Conjecture</i> DR. VIJI Z THOMAS MTR / 2020 / 000483 SERB	10.02.2021	09.02.2024	1.50	
72	<i>FIST Program</i> HOD, SOC FIST-SR / FST / CSII-042 / 2016 [C] DST	07.03.2017	06.03.2022	-	
73	<i>FIST PROGRAM</i> HOD, SOP SR / FST / CSII-042 / 2016 C DST	22.07.2019	21.07.2024	-	
74	<i>FIST PROGRAM</i> HOD, SOB SR / FST / LS-II / 2018 / 217 [C] DST	27.08.2019	26.08.2024	-	
75	<i>Localization and flow of information in quantum computing and open quantum dynamics</i> PROF. ANIL SHAJI EMR / 2016 / 007221 SERB	13.07.2017	31.07.2021	-	
76	<i>Open quantum systems - Non Markovian dynamics and Not Completely Positive Maps</i> PROF. ANIL SHAJI DST / ICPS / QuST / Theme-4 / 2019 / General DST	24.02.2020	23.02.2023	-	

Sl. No.	Name of the Project Project Leader Project Code Funding Agency	Period From	Period to	Funds received during the year (Amount in Lakhs)	Remarks
77	<i>Organisation of Summer Schools</i> PROF. ANIL SHAJI DST / ICPS / QuST / Theme-4 / 2019 / General- Organisation of Summer Schools DST	24.02.2020	23.02.2023	-	
78	<i>Integrating collective behaviour with biomechanics of social spider webs</i> PROF. HEMA SOMANATHAN CRG / 2019 / 003805 SERB	19.03.2020	18.03.2023	1.37	
79	<i>Design of a Surface-Enhanced Spectroscopy Based Device for the Rapid Detection of Organophosphate Pesticides and Pyrethroid Insecticides in Fruits and Vegetables</i> PROF. K GEORGE THOMAS SR / S9 / Z-05 / 2015 SERB	19.08.2017	31.03.2022	-	
80	<i>JC BOSE FELLOWSHIP</i> PROF. K GEORGE THOMAS SB / S2 / JCB-64 / 2013 SERB	01.06.2019	31.05.2024	16.00	
81	<i>Synthesis of Pseudoprotiens by Topochemical Azide-Alkyne Cycloaddition Reactions</i> PROF. K M SURESHAN CRG / 2018 / 000577 SERB	30.03.2019	29.03.2022	11.00	
82	<i>Development of porous titania supported Lithium Hydroxide for efficient capture of carbon-di-oxide</i> PROF. K M SURESHAN ISRO / RES / 3 / 861 / 20-21 ISRO	16.11.2020	15.11.2022	11.67	
83	<i>Unravelling the interplay of reorganization energy, driving force and electronic coupling on the rate of electron transfer</i> PROF. MAHESH HARIHARAN CRG / 2019 / 002119 SERB	06.02.2020	05.02.2023	3.50	
84	<i>Study of Exotic Ground States in Frustrated Triangular Lattice Antiferromagnets</i> PROF. RAMESH CHANDRA NATH CRG / 2019 / 000960 SERB	20.12.2019	19.12.2022	12.00	
85	<i>Identification and Characterization of Molecular Pathways involved in Immune –related Autophagy</i> PROF. SRINIVASA MURTY SRINIVASULA BT / PR21325 / BRB / 10 / 1554 / 2016 DBT	15.03.2018	14.03.2022	18.84	