

SwarnaJayanti Fellowships Scheme- 2020-21

List of Shortlisted Candidates for Presentation before National Core Committee (NCC)

Date: 21st & 22nd October, 2021

Via: Video conferencing

| S.No | Applicant/Candidate Name & Address | Title of the Proposed Project Proposal/ Temporary File No. | Presentation Date |
|------|---|--|---|
| 1. | Dr. Yogeshwaran Dhandapani Theoretical Statistics and Mathematics Unit, Indian Statistical Institute, 8th Mile, Mysore Road, RVCE Post, Bengaluru-560059 | Noise sensitivity, Metastability and Random Geometry DST/SJF/MS/2021/36 | Thursday, 21 st October, 2021 |
| 2. | Dr. Anoop Sharad Mahajan Indian Institute of Tropical Meteorology, Dr. Homi Bhabha Road, Pashan, Pune-411008 | Quantifying the present and future impacts of climatically sensitive oceanic trace gases on monsoon precipitation DST/SJF/EAS/2021/55 | Thursday, 21 st October, 2021 |
| 3. | Dr. Modhu Sudan Maji Department of Chemistry, Indian Institute of Technology-Kharagpur, Kharagpur-721302 | Design, synthesis and application of chiral alkoxyamide phase- transfer catalysts DST/SJF/CS/2021/104 | Thursday, 21 st October, 2021 |
| 4. | Dr. Subhro Bhattacharjee ICTS- TIFR, Survey No. 151, Shivakote, Hesaraghatta Hobli, Bengaluru -560089 | Interplay of Symmetries and entanglement in gapless quantum matter DST/SJF/PS/2021/120 | Thursday, 21 st October, 2021 |
| 5. | Dr. Siddhesh S. Kamat Department of Biology, Indian Institute of Science Education & Research (IISER) Pune, Dr. Homi Bhabha Road, Pashan, Pune- 411008 | Mapping oxidative stress pathways in mammalian systems using an integrated chemical proteomics and metabolomics approach DST/SJF/LS/2021/303 | Thursday, 21 st October, 2021 |
| 6. | Dr. Kumar Vaibhav Srivastava Department of Electrical Engineering, Indian Institute of Technology Kanpur, Kanpur- 208016 | Design and development of multi-functional meta- surface for strategic applications DST/SJF/ET/2021/301 | Thursday, 21 st October, 2021 |
| 7. | Dr. Sakya Singha Sen Inorganic Chemistry and Catalysis Division, CSIR - National Chemical Laboratory, Dr. Homi Bhabha Road, Pashan, Pune-411008 | Cyclic Aryl Amino Silylene (CArAS) for activation of industrially important small molecule DST/SJF/CS/2021/106 | Thursday, 21 st October, 2021 |

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| 8. | Dr. Atul Abhay Dixit Deptt. of Mathematics, Indian Institute of Technology Gandhinagar, Palaj, Gandhinagar - 382355 | Generalized Herglotz functions, zeta functions arising from modular relations, asymptotics of generalized Lambert series, and mock theta functions DST/SJF/MS/2021/37 | Thursday, 21 st October, 2021 |
| 9. | Dr. Arvind Singh Geosciences Division, Physical Research Laboratory (PRL), Navrangpura, Ahmedabad-380 009 | Ocean alkalinity enhancement and its impacts on biogeochemical cycling DST/SJF/EAS/2021/69 | Thursday, 21 st October, 2021 |
| 10. | Dr. Pabitra Kumar Nayak Tata Institute of Fundamental Research- Hyderabad, 36/P, Gopanpally Village, Serilingampally Mandal, Ranga Reddy District, Hyderabad- 500046 | Molecular-adducts and radicals for electronic doping DST/SJF/PS/2021/132 | Thursday, 21 st October, 2021 |
| 11. | Dr. B. Anand Department of Biosciences and Bioengineering, Indian Institute of Technology Guwahati, Guwahati- 781039 | Probing the cellular organisation of ribosome biogenesis in bacteria DST/SJF/LS/2021/319 | Thursday, 21 st October, 2021 |
| 12. | Dr. Rishi Raj Department of Mechanical Engineering, Indian Institute of Technology Patna, Bihta, Patna- 801103 | Decoding the science of boiling via bubble acoustics: Towards preemptive control of vapor explosion in industrial applications DST/SJF/ET/2021/302 | Thursday, 21 st October, 2021 |
| 13. | Dr. Shamik Banerjee Institute of Physics Sachivalaya Marg, Bhubaneswar – 751005 | Scattering Amplitudes and Flat Space Holography DST/SJF/PS/2021/147 | Thursday, 21 st October, 2021 |
| 14. | Dr. Sridharan Devarajan Centre for Neuroscience, Indian Institute of Science, Bengaluru-560012 | Neural mechanisms that causally mediate visuospatial attention DST/SJF/LS/2021/332 | Thursday, 21 st October, 2021 |
| 15. | Dr. Ajay Venugopal School of Chemistry, Indian Institute of Science Education and Research (IISER)- Thiruvananthapuram, Vithura, Thiruvananthapuram-695551 | Main-group compounds for Carbon monoxide activation DST/SJF/CS/2021/110 | Thursday, 21 st October, 2021 |
| 16. | Dr. Niti Kumar Central Drug Research Institute, Sector 10, Jankipuram Extension, Sitapur Road, Lucknow-226021 | Understanding the role of Dynamin-related proteins DRPs in mitochondrial remodeling and inter-organelle communication in human malaria parasite. DST/SJF/LS/2021/366 | Thursday, 21 st October, 2021 |

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| 17. | Dr. Indra Sekhar Sen Department of Earth Sciences, Indian Institute of Technology Kanpur, Kanpur-208016 | The state and fate of permafrost carbon in the Himalayas DST/SJF/EAS/2021/73 | Friday, 22 nd October, 2021 |
| 18. | Dr. Chandramouli Subramaniam Department of Chemistry, Indian Institute of Technology-Bombay, Powai, Mumbai-400076 | Solar-driven phonon transport in isolated hard- carbon nanostructures: From light-mills to solar- driven space heating DST/SJF/CS/2021/118 | Friday, 22 nd October, 2021 |
| 19. | Dr. Mayank Shrivastava Department of Electronic Systems Engineering, Indian Institute of Science, Bengaluru-560012 | A novel memory synapse technology for neuromorphic computing DST/SJF/ET/2021/359 | Friday, 22 nd October, 2021 |
| 20. | Dr. Mousomi Bhakta Deptt. of Mathematics, Indian Institute of Science Education and Research-Pune, Dr. Homi Bhabha Road, Pune-411008 | Nonlinear elliptic equations with Hardy potential DST/SJF/MS/2021/30 | Friday, 22 nd October, 2021 |
| 21. | Dr. Debashree Ghosh School of Chemical Sciences, Indian Association for the Cultivation of Science (IACS), Jadavpur, Kolkata- 700032 | Structure and rational design of melanin and melanin based materials – an in-silico approach DST/SJF/CS/2021/129 | Friday, 22 nd October, 2021 |
| 22. | Dr. Samriddhi Sankar Ray ICTS- TIFR, Survey No. 151, Shivakote, Hesaraghatta Hobli, Bengaluru -560089 | Unravelling the microphysics of warm clouds: The collision- coalescence conundrum DST/SJF/PS/2021/151 | Friday, 22 nd October, 2021 |
| 23. | Dr. Amartya Mukhopadhyay Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology- Bombay, Powai, Mumbai-400076 | Invoking classical metallurgical principles to lead to the development of next-generation alkali metal-ion batteries DST/SJF/ET/2021/374 | Friday, 22 nd October, 2021 |
| 24. | Dr. Nitin Gupta Department of Biological Sciences and Bioengineering, Indian Institute of Technology Kanpur, Kanpur- 208016 | High-throughput determination of the neural basis of olfactory preference DST/SJF/LS/2021/370 | Friday, 22 nd October, 2021 |
| 25. | Dr. Tanmoy Das Department of Physics, Indian Institute of Science, Bengaluru -560012 | Moiré magnets and topological hierarchy DST/SJF/PS/2021/153 | Friday, 22 nd October, 2021 |
| 26. | Dr. Ujjwal Koley Tata Institute of Fundamental Research- Centre For Applicable Mathematics, Post Bag No 6503, GKVK Post Office Sharada Nagar, Chikkabommsandra, Bengaluru- 560065 | Role of Randomness in Fluid Flow Equations Theory and Applications DST/SJF/MS/2021/44 | Friday, 22 nd October, 2021 |

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| 27. | Dr. Pramod P. Pillai Department of Chemistry, Indian Institute of Science Education and Research (IISER)-Pune, Dr. Homi Bhabha Road, Pashan, Pune – 411008 | Single particle approaches to unravel the catalytic properties of plasmonic materials DST/SJF/CS/2021/130 | Friday, 22 nd October, 2021 |
| 28. | Dr. Pratik Mutha Deptt. of Biological Engineering, Indian Institute of Technology- Gandhinagar, Palaj, Gandhinagar – 382355 | Implicit sensorimotor learning in humans DST/SJF/LS/2021/381 | Friday, 22 nd October, 2021 |