

SwarnaJayanti Fellowships Scheme- 2020-21

Shortlisted Candidates for Presentation before Subject Area Committee in Chemical Sciences

Date of Online/Virtual Presentation/ Meeting: **Tuesday, 14th September, 2021**

Time: 09.30 a.m.

S.No	Title of the Proposed Project Proposal/ Temporary File No.	Applicant Name and Institute
1.	Design, synthesis and application of chiral alkoxyamide phase-transfer catalysts DST/SJF/CS/2021/104	Dr. Modhu Sudan Maji Department of Chemistry, Indian Institute of Technology-Kharagpur Kharagpur-721302
2.	Cyclic Aryl Amino Silylene (CArAS) for activation of industrially important small molecule DST/SJF/CS/2021/106	Dr.Sakya Singha Sen Inorganic Chemistry and Catalysis Division, CSIR - National Chemical Laboratory, Dr. Homi Bhabha Road, Pashan, Pune-411008
3.	Main-group compounds for Carbon monoxide activation DST/SJF/CS/2021/110	Dr. Ajay Venugopal School of Chemistry, Indian Institute of Science Education and Research (IISER)- Thiruvananthapuram, Vithura, Thiruvananthapuram-695551
4.	Beyond Lennard-Jones formulations for swarm intelligence guided navigation on potential energy surfaces involving nanostructures DST/SJF/CS/2021/113	Dr. R. S. Swathi School of Chemistry, Indian Institute of Science Education and Research (IISER)- Thiruvananthapuram, Vithura, Thiruvananthapuram-695551
5.	Ice nucleation and growth in atmospheric condition, nano-confinement and near biological inhibitor/promoter: Mimetic design for food-and cryo-preservation and for atmosphere/climate improvement DST/SJF/CS/2021/117	Dr. Biman Jana School of Chemical Sciences Indian Association for the Cultivation of Science (IACS), Jadavpur, Kolkata- 700032
6.	Solar-driven phonon transport in isolated hard-carbon nanostructures: From light-mills to solar-driven space heating DST/SJF/CS/2021/118	Dr.Chandramouli Subramaniam Department of Chemistry, Indian Institute of Technology-Bombay, Powai, Mumbai-400076

7.	Economic high energy density batteries for automobiles and grid storage with sustainable versatile Sodium insertion materials DST/SJF/CS/2021/126	Dr. Prabeer Barpanda Materials Research Centre , Indian Institute of Science, Bengaluru -560012
8.	Strategic integration of chemical reactivity, wettability and topography for combating the crisis of fresh-water DST/SJF/CS/2021/128	Dr. Uttam Manna Department of Chemistry Indian Institute of Technology-Guwahati Guwahati-781039
9.	Structure and rational design of melanin and melanin based materials – an in-silico approach DST/SJF/CS/2021/129	Dr. Debashree Ghosh School of Chemical Sciences, Indian Association for the Cultivation of Science (IACS), Jadavpur, Kolkata- 700032
10.	Single particle approaches to unravel the catalytic properties of plasmonic materials DST/SJF/CS/2021/130	Dr. Pramod P. Pillai Department of Chemistry, Indian Institute of Science Education and Research (IISER)-Pune, Dr. Homi Bhabha Road, Pashan, Pune – 411008
11.	Photoresponsive memristive Discotic Liquid Crystals for the development of conceptually new artificial eye DST/SJF/CS/2021/131	Dr.Santanu Kumar Pal Department of Chemical Sciences, Indian Institute of Science Education and Research (IISER)- Mohali, Sector 81, S.A.S Nagar, Manauli PO, Mohali-140306,