SwarnaJayanti Fellowships Scheme- 2020-21

Applications Received -Chemical Sciences

S.No	Title of the Proposed Project Proposal/ Temporary File No.	Applicant Name And Institute
1.	Photoresponsive Memristive Discotic Liquid Crystals for the Development of	Dr.Santanu Kumar Pal
	Conceptually New Artificial Eye	Indian Institute of Science Education and Research, Mohali
	DST/SJF/CS/2021/131	
2.	Single Particle Approaches to Unravel the Catalytic Properties of Plasmonic	Dr.Pramod P Pillai
	Materials	Indian Institute of Science Education and Research, Pune
2	DST/SJF/CS/2021/130	
3.	Structure and rational design of	Dr.Debashree Ghosh
	melanin and melanin based materials— an in-silico approach	Indian Association for the Cultivation of Science, Kolkata
	DST/SJF/CS/2021/129	
4.	Strategic Integration of Chemical Reactivity, Wettability and Topography for Combating the Crisis	Prof. Uttam Manna
	of Fresh-Water	
	DST/SJF/CS/2021/128	Indian Institute of Technology, Guwahati
5.	Unveiling the challenges of defect-	Dr.Ramendra Sundar Dey
	enriched nanocarbon catalyst for	
	third-generation ammonia synthesis	Institute of Nano Science and Technology, Mohali
	DST/SJF/CS/2021/127	
6.	Economic High Energy Density Batteries for Automobiles and Grid	Dr.Prabeer Barpanda
	Storage with Sustainable Versatile Sodium Insertion Materials	Indian Institute of Science, Bengaluru
	DST/SJF/CS/2021/126	
7.	Defect Engineered Earth Abundant	Dr.Pravin P Ingole
	Metal-Based Materials for	
	Electrochemical Synthesis of Nitrogen Fertilizers under Ambient Conditions	Indian Institute of Technology-Delhi
	DST/SJF/CS/2021/125	
8.	Lead optimization and therapeutic	Dr.Brijesh Rathi
	evaluation of novel compounds	
	against corona viral diseases	Hansraj College, University of Delhi , Malka Ganj, Delhi
	DST/SJF/CS/2021/124	

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9.	Tracking excitation frequency	Dr.Arijit Kumar De
	resolved ultrafast structural dynamics	
	in excited electronic state by two-	Indian Institute of Science Education and
	dimensional electronic impulsive	Research, Mohali
	stimulated Raman spectroscopy	
	DCT /CIE /CC /2021 /122	
10.	DST/SJF/CS/2021/123	Dr. Ivoti Agomyol
10.	Design, Synthesis and Applications of Amino Sugar Based Inclusion	Dr.Jyoti Agarwal
	Complexes as Heterogeneous Aqueous	
	Organocatalytic Systems for	
	Enantioselective Organic	Daniah University Chandiacuh
	Transformations	Panjab University, Chandigarh
	Transformations	
	DST/SJF/CS/2021/122	
11.	Efficient Wastewater Remediation	Dr.Kirtika Kohli
	using Bio-based Solvents	
	8	CSIR Indian Institute of Petroleum ,
	DST/SJF/CS/2021/121	Dehradun
12.	Developing Visible Light Catalysed	Dr.Debayan Sarkar
	Asymmetric Dearomatisation	
	Reactions With Molecular Oxygen	National Institute of Technology, Rourkela
		The state of the s
	DST/SJF/CS/2021/120	
13.	Developing Coated Phosphorus	Dr.Murli Dhar Meena
	Fertilizer Formulations by Using Rock	
	Phosphate and Municipal Solid Waste	ICAR-Directorate of Rapeseed-Mustard
		Research, Bharatpur
	DST/SJF/CS/2021/119	•
14.	Solar-driven phonon transport in	Dr.Chandramouli Subramaniam
	isolated hard-carbon nanostructures	
	from light-mills to solar-driven space	Indian Institute of Technology-Bombay,
	heating	Mumbai
1-	DST/SJF/CS/2021/118	D. D.
15.	Ice nucleation and growth in	Dr.Biman Jana
	atmospheric condition, nano-	
	confinement and near biological	Indian Association for the Cultivation of
	inhibitor/promoter Mimetic design	Science, Kolkata
	for food-and cryo-preservation and for atmosphere/climate improvement	
	ioi atmosphere/chinate improvement	
	DST/SJF/CS/2021/117	
16.	Natural biodegradable polymers as	Dr.V Prathyusha
	hydrogen storage materials and as	
	potential adsorbents in desalination	Sri Sathya Sai Institute of Higher Learning,
	and removal of greenhouse gases	Andhra Pradesh
	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
	DST/SJF/CS/2021/116	
17.	Adsorption studies on activated	Dr.Akshatha R Salian
	carbon-modified chitosan composite	
	for heavy metal ions removal from	St. Aloysius College (Autonomous),
	laboratory waste water	Mangalore, Mangaluru
	-	
	DST/SJF/CS/2021/115	
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18.	Beyond Lennard-Jones formulations	Dr.R S Swathi
	for swarm intelligence guided	
	navigation on potential energy	Indian Institute of Science Education and
	surfaces involving nanostructures	Research, Thiruvananthapuram
	DST/SJF/CS/2021/113	
19.	Pattern based optical sensing of	Dr.Prabhat Kumar Singh
	clinically important analytes and	
	environmental pollutants	Bhabha Atomic Research Center , Trombay
		Mumbai
	DST/SJF/CS/2021/112	
20.	Synthesizing Pristine Metal Diboride	Dr.Kabeer Jasuja
	Nanosheets and their Nanoparticle	The Table Complete
	Hybrids as Catalysts for Hydrogen Evolution Reaction	Indian Institute of Technology-
	Evolution Reaction	Gandhinagar
	DST/SJF/CS/2021/111	
21.	Main-Group Compounds for Carbon	Dr.Ajay Venugopal
	Monoxide Activation	
		Indian Institute of Science Education and
22	DST/SJF/CS/2021/110	Research, Thiruvananthapuram
22.	Development of Passive RFID Gas	Dr.P Biji
	O2/CO2 Sensors Based on MXenes/Cellulosic Membranes for	DCC Lock to a CA Local Co. No.
	Food Quality Monitoring	PSG Institute of Advanced Studies Coimabtore
	1 rood Quanty Mointoning	Connabtore
	DST/SJF/CS/2021/109	
23.	Metal Halide-Organic Hybrids as	Dr.Janardan Kundu
	Efficient Next Generation Scintillator	
	Materials for X-ray Imaging	Indian Institute of Science Education and
	DCT /CIF /CC /2021 /100	Research, Tirupati
24.	DST/SJF/CS/2021/108 Design, Synthesis and Evaluation of	Dr.Sahil Kumar
24.	Novel Ligands for the Treatment of	DI.Salili Kulliai
	Dengue	Delhi Pharmaceutical Sciences and
	- 0	Research University, Delhi
	DST/SJF/CS/2021/107	
25.	Cyclic Aryl Amino Silylene CArAS for	Dr.Sakya Singha Sen
	Activation of Industrially Important	
	Small Molecules	National Chemial Labaoratory, Pune
	DST/SJF/CS/2021/106	
26.	Strategies towards rational design of	Dr.M Sennappan
	Schiff bases and their various groups	
	of metal complexes for organic light-	Dayananda Sagar College of Engineering,
	emitting diodes Schiff base	Bengaluru
	DST/SJF/CS/2021/105	
27.	Design, Synthesis and Application of	Dr.Modhu Sudan Maji
	Chiral Alkoxyamide Phase-Transfer	Dimiouna Sadan Maji
	Catalysts	Indian Institute of Technology-Kharagpur
	DCT /GIP /GC /2024 /404	
	DST/SJF/CS/2021/104	