

## **SwarnaJayanti Fellowships Scheme- 2018-19**

**Shortlisted Candidates for Presentation before Subject Area Committee  
in**

**Chemical Sciences**

**Date of Presentation/ Meeting: Thursday, 17<sup>th</sup> October, 2019**

**Time: 9.00 a.m.**

**Venue: Indian National Science Academy  
Bahadur Shah Zafar Marg  
(Near ITO Metro Station)  
New Delhi-110002**

| <b>S.No</b> | <b>Project Title /<br/>Temporary Reference No.</b>  | <b>Applicant Name &amp; Address</b>  |
|-------------|---|--|
| 1.          | Sustained Autonomy in Out of Equilibrium Supramolecular Materials (DST/SJF/CS/2019/1)   | Dr. Dibyendu Das<br>Deptt. of Chemical Science<br>Indian Institute of Science Education and Research (IISER) Kolkata,<br>Mohanpur -741246              |
| 2.          | Tackling Brain Disorders by Monitoring and Manipulating the Functions of Monoamine Oxidases MAOs<br>Development of Novel Isoform-Selective Fluorescent Probes and Reversible Inhibitors of MAOs<br>(DST/SJF/CS/2019/10) | Dr. Bani Kanta Sarma<br>Deptt. Chemistry<br>Shiv Nadar University,<br>NH91, Chithera, Tehsil Dadri<br>Uttar Pradesh -201314                            |
| 3.          | Chemical Toolbox for Precision Engineering of Proteins.<br>(DST/SJF/CS/2019/14)   | Dr. Vishal Rai<br>Deptt. Chemistry<br>Indian Institute of Science Education and Research Bhopal,<br>Bypass Road, Bhauri,<br>Bhopal -462066             |
| 4.          | Organometallic Catalysis by Metalloenzymes and Artificial Metalloenzymes<br>(DST/SJF/CS/2019/18)  | Prof. Debabrata Maiti<br>Deptt. Chemistry<br>Indian Institute of Technology Bombay,<br>Powai<br>Mumbai -400076   |
| 5.          | Electron Drip-Feeding for Energy Efficient Optical Applications<br>(DST/SJF/CS/2019/27)   | Prof. Ranjani Viswanatha<br>New Chemistry Unit<br>Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR)<br>PO Jakkur,<br>Bengaluru -560064 |
| 6.          | Iridium-Catalyzed Enantioselective Allylic Substitution Approach towards Active Pharmaceutical Ingredients (APIs)<br>(DST/SJF/CS/2019/29)   | Prof. Santanu Mukherjee,<br>Deptt. of Organic Chemistry,<br>Indian Institute of Science,<br>Bengaluru -560012  |

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|------|---|--|
| 7.   | Can Earth Abundant, Stable, Non-Toxic Chalcogenide Perovskites Become Novel Optoelectronic Materials Beyond Silicon (DST/SJF/CS/2019/30)        | Dr. Angshuman Nag<br>Deptt. of Chemistry,<br>Indian Institute of Science Education and Research Pune, Dr. Homi Bhabha Road,<br>Pune -411008  |
| 8.   | Intrinsically Low Thermal Conductive Metal Chalcogenides for Thermoelectric "Waste Heat" to "Electrical Energy" Conversion (DST/SJF/CS/2019/32) | Dr. Kanishka Biswas<br>New Chemistry Unit,<br>Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR),<br>PO -Jakkur,<br>Bengaluru -560064   |
| 9.   | Boron-Bearing Small Molecules for Drug Discovery and Disease Detection (DST/SJF/CS/2019/39)   | Dr. Buddhadeb Chattopadhyay<br>Molecular Synthesis Drug<br>Discovery,<br>Centre of Biomedical Research,<br>Sanjay Gandhi Postgraduate Institute of Medical Sciences Campus, Raibareli Road,<br>Lucknow -226014 |
| 10.  | Defected Plasmonic Nanomaterial for Converting CO <sub>2</sub> to Fuel (DST/SJF/CS/2019/40)   | Prof. Vivek Polshettiwar<br>Dept. of Chemical Sciences,<br>Tata Institute of Fundamental Research (TIFR),<br>1, Homi Bhabha Road, Colaba,<br>Mumbai -400005  |
| 11.  | An About-face Approach to Molecular Spintronics Materials (DST/SJF/CS/2019/43)  | Prof. Gopalan Rajaraman<br>Dept. of Chemistry,<br>Indian Institute of Technology- Bombay,<br>Powai,<br>Mumbai 400 076  |
| 12.  | Chemical Bonding Under Stress Stabilizing New Phases of Materials Under Extreme Conditions (DST/SJF/CS/2019/47)                                 | Dr. Ayan Datta<br>School of Chemical Sciences,<br>Indian Association for The Cultivation of Science,<br>2A & 2B Raja S C Mullick Road,<br>Kolkata -700032  |