

S/N	Project Title	Lead PI	Host Institution
2024 F-CRP			
1	Overcoming Boltzmann's Tyranny with Quantum Tunnelling Transistors for Sustainable Nanoelectronics	Lau Chit Siong	A*STAR Research Entities (ARES)
2	Establishing the SINGapore Carbohydrate Engineering and Research Enterprise (SINCERE)	Sham Lok To	NUS
3	Understanding and tackling cooperative cancer chemoresistance with comprehensive single-cell transcriptomic profiling	Cheow Lih Feng	NUS
4	Polaritonic Hybrid Optomechanics	Maxime Richard	CNRS@CREATE Ltd.
5	From LLMs to LGMs: LLM-empowered Sub-Graph Learning for Large Graph Models	Siqiang Luo	NTU
6	CMOS Photonics Platform for Next Generation Photonics AI Engines	Chengkuo Lee	NUS
7	Building a Herpes Simplex Virus based gene delivery platform for ocular gene therapy	Wang Zhenxun	SERI
8	A Quantum Catalyst Leap: Shaping the New Paradigm in Water Oxidation	Xu Zhichuan Jason	NTU
9	Extreme Bose-Einstein Condensates for On-chip Ising Machines	Ha Son Tung	A*STAR Research Entities (ARES)
10	Engineering Spin-Triplet Zero-Energy Quasiparticles in Ferromagnet-Superconductor Heterostructures	Anjan Soumyanarayanan	A*STAR Research Entities (ARES)
11	Altermagnets: A new avenue to emerging spintronics	Seidikkurippu Nellainayagam Piramanayagam	NTU