

AMITY INSTITUTE OF CLICK CHEMISTRY RESEARCH AND STUDIES

S.No.	Project Title	Sanctioned Amount	Funding Agency	Duration
1	Near-infrared emitting graphenedots in bio- imaging and theranostics with the help of Click Chemistry	44.95 Lakhs	DST	2018-2021
2	Development of nanocomposites for detection forarsenic in water	12.73 Lakhs	UGC-DAE	2017-2022
3	Smart Hyaluronic Acid hybrid hydrogels via Click Chemistry forwound healing	40.84 Lakhs	DBT	2018-2021
4	To optimize the uptake of carbon nanomaterials within the cell and to investigate radiosensitization as a function of nanomaterial size and dose using therapeutic irradiation with a range of different energies.	Beam line and Instrumentation facility.	UGC IUAC	2017-2019
5	Development of anti- diabetic drug through activation of AMPK signaling pathway based on berberine derivatives by clickchemistry.	36.00 Lakhs	DBT Northeast twinning	2018-2021
6	Mechanistic Investigation of Metallo-porphyrin Catalyzed Amination Reaction: An Experimental and Theoretical Exploration	48.00 Lakhs	SERB	2019-2022
7	Plant cell wall to optimize the uptake of carbonnanomaterials within the cell andto investigate radio sensitization degrading lytic enzymes to unblock oxidative biomass-deconstruction: Biocatalytic cell-wall degradation and enzymatic biofuel cell-based energy generation	1.14 Crore	DBT- Ramalingaswami Fellow	2019 - 2024
8	Base Metal Catalyzed Heterogeneous Direct ArylationReactions	46.00 Lakhs	DST-SERB	2021-2023
9	Single-Enzyme for electricity Generation by Oxidizing Phenolics in Enzymatic Fuel Cell	35.00 Lakhs	DBT	2022-2025

10	Iron and zinc biofortification of cereals and vegetables for enhancing micronutrient bioavailability in soil-plant system	82.00 Lakhs	DBT	2022-2025
11	SuFEx Click Chemistry for functionalization of Graphene Quantum Dots Application for Targeted Therapeutics	30.00 Lakhs	DST (Women Scientists Scheme –A (WOS-A)	2022-2025
12	Metal Oxide decorated doped Carbon Nanosheet for detection of Arsenic in Ground water	12.50 Lakhs	UGC-DAE-CSR	2016-2022
13	Development of NO Synthase mimetic materials & its application as biosensor	19.80 Lakhs	DST	2010-2014
14	Collaborative Research Scheme (CRS) - Functionalization of Graphene Quantum Dots: Application for Targeted Therapeutics.	2.00 lakhs+ Instrument Facility	UGC DAE-CSR Kalpakkam	2022-2025
15	DST-FIST	2.35 Crores	DST	2023-2028
16	Biogenic Carbon Quantum Dots: A Neoteric Trident in Stem Cell Biology	49.00 Lakhs	SERB - Core Research Grant	2024-2027
17	Designing of Metallo-porphyrin/phthalocyanine Nanoelectrocatalysts for Oxygen Reduction Reaction	16.00 Lakhs	SERB	2022-2023
18	Mechanistic Investigation of Iron catalyzed Nitrene Transfer Reaction: An Experimental and Theoretical Perspective	35.00 Lakhs	SERB	2016-2021
19	Synthesis of Halogenated and Chalcogenated Porphyrins for Catalysis Reaction: Role of Halogen Bond (XB) and Chalcogen Bond (CB) Interactions	48.44 Lakhs	SERB - Core Research Grant	2024-2027
20	X-ray absorption near edge structure (XANES) and extended X-ray absorption fine structure (EXAFS) spectroscopic analysis of electronically tuned flexible single-atom materials with maximized atomic efficiency	2.00 lakhs + instrument facility including beamline spectroscopy	UGC-DAE CSR Indore	2022-2024

21	Flexible Nanofiber with Atomically Dispersed Metal Sites for Advanced Applications	45.00 Lakhs	SERB - Core Research Grant	2024-2027
22	Synthesis of condensed Heterocyclic derivatives and click analogs: An experimental, computational and antimicrobial exploration	18.60 Lakhs	SERB-TARE	2022-2025
23	Development of High-Throughput Sensor Arrays for Pathogen Identification and Antimicrobial Susceptibility Using Aggregation-Induced Emission Active Cyclometalated Iridium (III) Complexes	30.00 Lakhs	SERB- Start Up Grant	2023-2026
24	Ligand Tuned Nickel Catalyzed Allene Functionalization towards Synthesis of Bioactive Olefins: An Organometallic & Photocatalytic approach	1.19 Crore	SERB- Ramanujan Fellowship	2023-2028
25	Designing of Transition and Lanthanide ion Based Molecular Magnets for Quantum Computing Application	2.00 Lakhs	UCG-DAE CSR	2024-2027
26	Detection, Inhibition and Degradation of Amyloid Fibrils Using AIE-Active Cyclometalated Iridium (III)	30.00 Lakhs	CSIR ASPIRE	2024-2027