

## M.P. Council of Science & Technology, Bhopal

### 38<sup>th</sup> M.P Young Scientist Congress March 17-19, 2023

Host: Samrat Ashok Technological Institute, Vidisha

#### List of M.P. Young Scientist Awardees

S.No.	Name	Subject	Award	Institute	Title of the Project
1	ABHISHEK PATEL	Agricultural Sciences	First	ICAR-CENTRAL INSTITUTE OF AGRICULTURAL ENGINEERING, BHOPAL	Tractor Operated CIAE Economy Seeder: An Alternative Solution for In-Situ Management of Paddy Straw
2	MAKHAN SINGH KARADA	Agricultural Sciences	Second	DEPARTMENT OF FORESTRY, JAWAHARLAL NEHRU KRISHI VISHWA VIDYALAYA, JABALPUR	Assessment of Chlorophyll content and carbon sequestration in Karanj – wheat based agroforestry system
3	SHASHI SHEKHAR	Chemical Sciences	First	INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHOPAL	Cysteamine Capped Silver Nanoclusters: A Potential Antimicrobial Agent for Antibiotic-Resistant Bacteria
4	KAMNA CHATURVEDI	Chemical Sciences	Second	CSIR-ADVANCED MATERIALS AND PROCESSES RESEARCH INSTITUTE, BHOPAL	Synergistic Effect of In-situ Bismuth Oxide Decorated Graphene Oxide Nanocomposites for the degradation of organic dyes and antimicrobial activities
5	MOIRANGTHEM JOHNSON SINGH	Civil Engineering	First	INDIAN INSTITUTE OF TECHNOLOGY INDORE	Experimental investigation on time-dependent consolidation behaviour of Deep Cement Column treated clayey soil
6	RAHUL CHAURASIA	Computer Science Engineering and Information Technology	First	INDIAN INSTITUTE OF TECHNOLOGY INDORE	Secured Hardware Accelerator Design using High-Level Compiler Driven Structural Transformation and Biometric Palmprint for CNN based Machine Learning Applications
7	HARITABH RANA	Earth and Atmospheric Sciences	First	DR. HARISINGH GOUR UNIVERSITY, SAGAR	Lithogeochemistry and Paleogeodynamics of rocks of Patharkhola, Lesser Kumaun Himalaya

8	SUHEL KHAN	Electrical and Electronics Engineering	First	INDIAN INSTITUTE OF TECHNOLOGY INDORE	Economical Non-invasive Photoacoustic Screening Device for Biomedical Applications
9	SUMIT CHAUDHARY	Electrical and Electronics Engineering	Second	INDIAN INSTITUTE OF TECHNOLOGY INDORE	IOT-ENABLED WIDE-RESISTANCE RANGE READOUT CIRCUIT FOR PORTABLE HANDHELD SENSOR
10	RINI PAULOSE	Environmental Sciences	First	CSIR-ADVANCED MATERIALS AND PROCESSES RESEARCH INSTITUTE, BHOPAL	Sustainable Approach for the Conversion of Hazardous Red Mud into X-ray Shielding Tiles
11	DIVYA GUPTA	Life Sciences	First	JIWAJI UNIVERSITY, GWALIOR	Ameliorative effect of flavonoids against acrylamide-induced testicular dysfunction in rats
12	RATIKA RASTOGI	Mathematical Sciences	First	JIWAJI UNIVERSITY, GWALIOR	A Polynomial approach to approximate solution of Differential equations using Metaheuristic Optimization Algorithms
13	SAURABH MISHRA	Mechanical Engineering	First	INDIAN INSTITUTE OF TECHNOLOGY INDORE	Atomistic modelling of the novel Li-functionalized polycrystalline carbon nanotubes as a hydrogen storage carrier
14	REVADI G	Medical Sciences including AYUSH	First	ALL INDIA INSTITUTE OF MEDICAL SCIENCES, BHOPAL	A qualitative exploration of systemic interactions affecting Community health workers performance
15	ANANTHAKRISHNAN M	Medical Sciences including AYUSH	Second	ALL INDIA INSTITUTE OF MEDICAL SCIENCES, BHOPAL	Technical efficiency of Health and Wellness Centres and its determinants in a rural block of Madhya Pradesh- a Data Envelopment Analysis
16	VIPIN BHARDWAJ	New Biology (Biotechnology, Biochemistry, Biophysics, Bioinformatics and Molecular Biology)	First	INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHOPAL	HIV-1 Vpr induces ciTRAN to prevent transcriptional silencing of the provirus
17	SATEESH KUMAR GUPTA	New Biology (Biotechnology, Biochemistry, Biophysics, Bioinformatics and Molecular Biology)	Second	DR. HARISINGH GOUR UNIVERSITY, SAGAR	Rheological and Dielectric response of Sodium Carboxymethyl Cellulose Based Conductive Hydrogels on Esterification

18	ZEENAT KHAKEWALA	New Biology (Biotechnology, Biochemistry, Biophysics, Bioinformatics and Molecular Biology)	Second	RAJA RAMANNA CENTRE FOR ADVANCED TECHNOLOGY, INDORE	High resolution (1Å) crystal structure of phosphate ion bound Acyl phosphatase from Deinococcus radiodurans
19	POORNIMA AGRAWAL	Pharmaceutical Sciences	First	DR. HARISINGH GOUR UNIVERSITY, SAGAR	Ceramide adjuncted mucoadhesive drug delivery system(s) for synergistic enhancement of cancer therapy
20	SHIVANI SARAF	Pharmaceutical Sciences	Second	DR. HARISINGH GOUR UNIVERSITY, SAGAR	pH-sensitive liposomes bearing a chemotherapeutic agent and a natural apoptosis modulator for effective intracellular delivery to the solid tumor
21	SANTU KUMAR BERA	Physical Sciences	First	INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHOPAL	Facet Engineering for Amplified Spontaneous Emission in Lead Halide Perovskite Nanocrystals: Next Generation Nanochip Laser
22	ANKUR SHARMA	Physical Sciences	Second	RAJA RAMANNA CENTRE FOR ADVANCED TECHNOLOGY, INDORE	Effect of Nb doping in NKBT: An environment friendly promising lead-free piezoelectric
23	DISHA HARINKHERE	Physical Sciences	Third	GOVT. HOLKAR (MODEL, AUTONOMOUS) SCIENCE COLLEGE, INDORE	The Effect of Titanium Dioxide Nanoparticles on Polyvinyl Alcohol/ Polyvinylpyrrolidone Composite Membranes
24	ASHUTOSH MISHRA	Veterinary Science and Animal Husbandry	First	COLLEGE OF VETERINARY SCIENCE AND ANIMAL HUSBANDRY, NDVSU, JABALPUR	Study of Delayed Puberty in Cattle Heifers and Its Management Using Ovsynch Protocol Pretreated with Insulin