

## 2023 Taiwan International Science Fair List of Winners (Mathematics)

ID	Country	Project Title	School	Finalists	Award
010049	Singapore	Crossing Number of Join Product of Some Graphs	NUS High School of Math and Science	Mario Tanijaya	Second Award
010048	Philippines	Reduction of traffic congestion in España Boulevard using graph theory	Philippine Science High School - Main Campus	Naadame Hayyel S. Sevilla Hanielle Jermayn E. Chua	Third Award

## 2023 Taiwan International Science Fair List of Winners (Chemistry)

ID	Country	Project Title	School	Finalists	Award
030038	Russia	Synthesis of Substituted Pyrrolidin-2-ones and Isoindolines from Donor-Acceptor Cyclopropanes and Anilines/Benzylamines	Moscow South-Eastern School named after V.I.Chuikov	Danila Lebedev	Second Award
030034	Italy	Laying waste to Energy problems	IIS Galilei Jesi	Leonardo Cerioni Linda Paolinelli	Third Award
030037	Japan	Reducibility of Silver ions by the Charcoal: Regarding Mechanisms, Art, and Liquid Waste Management	Sendai Daisan High School, Miyagi Prefecture	Hiroki Sato Shin Ogata	Fourth Award

### 2023 Taiwan International Science Fair List of Winners (Animal Sciences)

ID	Country	Project Title	School	Finalists	Award
050020	Tunisia	Optimization of honey production by monitoring the behavior of bees based on studying their sounds	(ATAST) Tunisian Association for the Future of Sciences and Technology	Bilel BAATOUT YOMANA DAHMANI	Third Award

### 2023 Taiwan International Science Fair List of Winners (Plant Sciences)

ID	Country	Project Title	School	Finalists	Award
060014	Brazil	EVALUATION OF THE SURFACE TENSIO, LARVICIDAL AND ANTIBACTERIAL ACTIVITY OF PLANT EXTRACTS FROM THE LEAF OF THE ARAÇÁ (Psidium guineense Sw.) TO COMBAT THE PROLIFERATION OF THE Aedes aegypti MOSQUITO IN STILL WATER CONTAINERS	ESCOLA DJALMA PESSOA	Felipe Silva Sacramento	Fourth Award

### 2023 Taiwan International Science Fair List of Winners (Biochemistry)

ID	Country	Project Title	School	Finalists	Award
080011	Turkey	DEVELOPMENT OF PAPER-BASED ORIGAMI BIOSENSOR PLATFORMS FOR COLORIMETRIC DETECTION OF BIOCONTAMINANTS	Buca Municipality Buca Science and Art Center	Rumeysa ÇİÇEK	Third Award

## 2023 Taiwan International Science Fair List of Winners (Medical and Health Sciences)

ID	Country	Project Title	School	Finalists	Award
090021	Indonesia	Silver Moringa Cloth: Silver Nanoparticle Fabric Based on Moringa Extract ( <i>Moringa oleifera</i> ) as Antibacterial Agent Against Methicilin Resistant <i>Staphylococcus aureus</i>	SMA Negeri 5 Surabaya	Nathania	First Award

## 2023 Taiwan International Science Fair List of Winners (Engineering)

ID	Country	Project Title	School	Finalists	Award
100037	United States	Designing a LiDAR topographic navigation system: A novel approach to aid the visually impaired	Orlando Science Middle-High Charter School	Tiffani Gay	Young Scientist Award
100037	United States	Designing a LiDAR topographic navigation system: A novel approach to aid the visually impaired	Orlando Science Middle-High Charter School	Tiffani Gay	First Award
100042	South Africa	Automated Inflation and Pressure Regulation for Recreational and Professional Cyclists	Outeniqua High School	Johannes Jaco Jacobs	Second Award
100041	South Africa	Using P.I.P. to strengthen roads: Plastic incinerated by plastic	Curro St Dominic's	Dia Singh	Third Award

### 2023 Taiwan International Science Fair List of Winners (Behavior and Social Sciences)

ID	Country	Project Title	School	Finalists	Award
130013	Czech Republic	Application of Technical Analysis to the Stock Market	Ricany Grammar School	Pavel Kletecka	First Award

### 2023 Taiwan International Science Fair List of Winners (Physics and Astronomy)

ID	Country	Project Title	School	Finalists	Award
160040	Thailand	Development of UV-Protection Roofing Tile from Nitrogen-doped Graphene Quantum Dots (N-GQDs) for Rubber Drying Chambers	Princess Chulabhorn Science High School Pathum Thani	Wallapha Phatrabuddhikul Siriya Mektavepong Supakorn Kajornkiatnukul	Fourth Award

### 2023 Taiwan International Science Fair List of Winners (Earth and Environmental Sciences)

ID	Country	Project Title	School	Finalists	Award
180019	Switzerland	Evaluation of a fiber optic distributed temperature measurement system for a geothermal energy	Lycée Denis de Rougemont, Neuchâtel	Loic Posta	First Award
180018	Ukraine	STUDY OF ATMOSPHERIC AIR POLLUTION OF POLTAVA REGION	National center "Junior Academy of Sciences of Ukraine" under the auspices of UNESCO	Nazar Oliinyk	Third Award

**2023 Taiwan International Science Fair List of Winners (Computer Science and Information Engineering)**

ID	Country	Project Title	School	Finalists	Award
190029	Singapore	Adversarial Attacks Against Detecting Bot Generated Text	Raffles Institution	Evan Lim Hong Jun	Third Award

**2023 Taiwan International Science Fair List of Winners (Environmental Engineering)**

ID	Country	Project Title	School	Finalists	Award
200020	Ukraine	CREATION AND RESEARCH OF ECOLOGICAL MATERIALS AS AN ALTERNATIVE TO SYNTHETIC POLYMERS	National center "Junior Academy of Sciences of Ukraine" under the auspices of UNESCO	Mariia Hodovanets	Second Award