

I-SWEEP 2014 Category Award Winners

Medal	Category	Contestant	Project Title	Country
Gold	Energy	Raymond Yin	Highly Permeable Graphene Oxide Pervaporation Membranes for Energy Efficient Ethanol Production	United States - New York
Gold	Energy	Maxmillian Minichetti	A Filamentous Organic Solar Cell Based Piezoelectric Architecture for Powering Commercial and Biological Electronic Devices	United States - Connecticut
Gold	Energy	Andrew Yang	A Novel Single-Compartment Concentration Cell Driven by Natural Evaporation for Green Energy Harvesting and Storage: Year 2	United States - Texas
Gold	Energy	Anoop Vemulapalli	Enhanced Third-Generation Biofuel Production from Genetic Modifications of Algae: Year II	United States - Texas
Gold	Energy	Anela Arifi, Ilda Ismaili	LET'S CHAR IT!	Bosnia And Herzegovina -
Gold	Energy	Jonah Butler	Employing In Situ Generated Peracetic Acid and Fungal Biosynthesis to Produce Biofuels	United States - Minnesota
Gold	Energy	Christopher Botello	The Cooling of Solar Panels to Increase Power Output	United States - Texas
Gold	Energy	Martin Ferienc	Active and Passive Air Recuperation	Slovakia -
Gold	Engineering	Drew Prevost	Hunka Hunka Hybrid Luv Phase II: Design and Construction of a Scalable Power Electronics Module for Electric or Hybrid-Electric Vehicles	United States - Alabama
Gold	Engineering	Evie Sobczak	Engineering an Integrated Pathway to Algae Biofuel Via: Mitochondrial Biogenesis, Metabolic Manipulation, & Conical Converging Cavitations	United States - Florida
Gold	Engineering	Matthew Chun	Polycrystalline Optical Ceramic Fabrication for High Energy Laser Development	United States - New York
Gold	Engineering	Elisabeth Ashmore	Bringing Healthcare Home with MAINTAIN (Mind Activated Interface to an Ambient Intelligent Network)	United States - Texas
Gold	Engineering	Ali Mohamed	A LIFE IMPROVEMENT DEVICE FOR INDIVIDUALS WITH HEARING DISABILITIES USING THE WEARABLE TECHNOLOGY : VOUND	Egypt
Gold	Engineering	Joseph Cappadona, Ivy Ren	Meeting the Challenge of Producing Thermally Conductive and Flame Retardant Polymers	United States - New York
Gold	Engineering	Julia Glaus	Faraday Heating - A pattern formation in a vertically vibrated granular bed	Switzerland -
Gold	Engineering	Andrew Ma	Temperature-Induced Concurrent Removal and Recovery of Wastewater Ammonia-Nitrogen and Other Volatile Compounds	United States - Connecticut
Gold	Engineering	María Oviedo, Alvaro Martínez	SISS "Smart Integrated Sensor System that Promotes and Optimizes Horticultural-Organic Production"	Paraguay
Gold	Engineering	Yousuf Soliman	Indium: Using Novel Machine Learning Algorithms to Develop a Nondisease-specific Personalized Medicine Engine	United States - California
Gold	Environment	Albert Kim	Environmental Toxins, Oxidative Stress, and Mitochondrial Dysfunction in HTB-11 cells: New Approach to Alzheimer's Disease Therapy	United States - New York
Gold	Environment	Perry Alagappan	Novel Renewable Filter for Heavy Metal Removal: A Practical Application of Functionalized Multi-Walled Carbon Nanotubes	United States - Texas
Gold	Environment	Kriti Lall	Genetically Engineering a Novel Strain of Nonpathogenic Bacteria for Practical Arsenic Removal	United States - California
Gold	Environment	Sruti Arulmani	Novel Electrosynthetic Characterization of E. coli for Enhanced Biofuel Production	Canada
Gold	Environment	Ashley Wyrick	Thiamethoxam for Integrated Pest Management- To Choose or Not to Choose? Investigating the Trophic Effects of Thiamethoxam on Euplectrus comstockii when Parasitizing Trichoplusia ni - Year Two	United States - Missouri
Gold	Environment	Cagri Aytekin, Erkam Curuk, Berk Suleyman	A NOVEL APPROACH TO REMOVING OIL SPILLS FROM SEAWATER BY USING SUSTAINABLE AND COST-EFFICIENT MATERIALS	United States - Connecticut
Gold	Environment	Dylan Gambardella	Evaluating the Potential and Mechanisms of Diabetes Mellitus Induction in Response to Acute Ambient Particulate Pollution Exposure	United States - New York
Gold	Environment	Margaret Pan	Optimizing the Synthesis of Flat-Sheet Phase Inversion Polyvinylidene Fluoride (PVDF) Membranes for Membrane Distillation	United States - North Carolina
Gold	Environment	Arrita Beqa, Deniza Peja	Usage of fish manure as a fertilizer	Kosovo
Gold	Environment	Morgan Sutton	Mesenchymal Stem Cells: Innovations in Infection and Inflammation Therapy	United States - Ohio
Gold	Environment	Kushal Kadakia	Heavy Metal Removal Using Fe3O4 Nanoparticles III	United States - Texas
Gold	Environment	Heeyong Huh	Insect-repelling Plants and New Organic Pesticides	United States - Texas
Gold	Environment	Steve Zheng	Synthesis of a Novel MOF (C24H24CuF6N4O3Si) for Gas Adsorption	United States - New York
Gold	Environment	Alanna Bram	Determination of Factors that Impact Clearance of Suspended Particulate Matter (Dust) in Air	United States - Minnesota
Gold	Environment	Ambria Benesch	The Viability of Bacteria Enriched Coir for Bioremediation of Benzene and Toluene in Freshwater Formations	United States - Illinois

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Gold	Environment	Tenith Adithyaa	A Novel eco-friendly technology to keep the banana leaf green for 1 year without using any chemicals	India -
Gold	Environment	Vishal Rajesh, Nisha Rajesh	Fire Fighting at Work: A Simulation of Envelope Fire Fronts and Locational Fuel Treatment	United States - Texas
Gold	Environment	Dalia Laredo	The Development of an Oil Filter that Uses Biowaste as the Sorptive Media	United States - New York
Gold	Environment	Merih Akalin	SUPER BEE FERTILIZER	Turkey
Silver	Energy	Mokshin Suri	Dye Sensitized Solar Cells: New Structures and Components for Greater Efficiency	United States - Texas
Silver	Energy	Margaret Cirino	Optimizing Hydrogen Production From a Piezo-electrochemical Water-Splitting Mechanism with Low-Cost Synthesis of ZnO and BiFeO3 Nanostructures	United States - Connecticut
Silver	Energy	afif firdaus, nur syafiqah	SAP ENERGY FROM WASTE BABY DIAPER VIA BRINE AS NEW GREEN	Malaysia
Silver	Energy	Jin Gyu Lee, Ho Kyung Sung	ELECTRICAL ENERGY FROM WASTE TO WEALTH	South Korea -
Silver	Energy	Swetha Shutthanandan	Effects of a Magnetic Field on the Efficiency of Water Electrolysis and Hydrogen Production	United States - Washington
Silver	Energy	Yaren SEVER	Next Generation Supercapacitor for Ultra Fast Energy Harvesting	United States - Washington
Silver	Energy	Gi Na Lee	FABRICATION AND CHARACTERIZATION OF CARBON NANOTUBE DOPED ORGANIC SOLAR CELLS	Turkey
Silver	Energy	Rahul Dhir, Afshan Irani	Metabolic engineering of Pseudomonas putida for the production of biodiesel from glucose	South Korea -
Silver	Energy	Chu Yat Ho, Yip Tsz Fung	A Novel Method for Optimizing the Energy Efficiency of Sound Proof Windows	United States - Texas
Silver	Energy	Colton Lee, Feng Ji	An Investigation on the Novel Utilization of Natural Chlorophyll Extracts as Light Sensitizers in Dye-Sensitized Solar Cells	Hong Kong -
Silver	Energy	Nurul MohdReza	Photosystem-I Biohybrid Photovoltaics	United States - Florida
Silver	Energy	Kristine Zhang	Year II: Domestic Wastewater Clarification and Power Generation- Increasing the Conductivity of Permeated Electrodes in a Single-Celled Microbial Fuel Cell	United States - Colorado
Silver	Energy	Kavita Selva	Development of Novel Metal Nanostructures for Efficient and Broadband Solar Energy Conversion	United States - California
Silver	Energy	SAMI PALOMBO, AARON KANETİ	Trapped Field Superconducting Magnets	United States - Texas
Silver	Energy	Tiasha Joardar	3D GREEN ENERGY IN OUR POCKETS "ULTRA HYBRID CHARGING DEVICE"	Turkey
Silver	Energy	Megan Miller	A Novel Approach to Developing an Eco-Friendly, High Efficiency Thermoelectric Air-Conditioning System	United States - Texas
Silver	Energy	Michael Bohnet	Fuel Efficient Passive Flow Control for Class 8 Tractor Trailers	United States - North Carolina
Silver	Energy	DİLARA SUNA, MELİKE KARA	Enhancing the Dye Sensitized Solar Cell	United States - Texas
Silver	Energy	Mohammed Al-Senani	ENERGİC FEATHERS	Turkey
Silver	Energy	Afeefah Khazi-Syed	Optimization of ZnO as an Electron-Selective Buffer Layer in Inverted Organic Photovoltaic Devices Fabricated onto Flexible Substrates	Saudi Arabia
Silver	Engineering	Gabriel da Motta, Raissa Müller	Dye-Sensitized Solar Cells: The Artificial Leaf	United States - Texas
Silver	Engineering	Meredith Loy	FISA - Film for Selective Absortion	Brazil -
Silver	Engineering	Ester Archer	A New Methodology for Laser Reduced Graphene as a Catalyst on the Counter Electrode of Dye Sensitized Solar Cells	United States - Oregon
Silver	Engineering	Martin Li	Maximizing Carbon Sequestration in a Photobioreactor By Pushing the Photosynthetic Limit of Cladophora	United States - Minnesota
Silver	Engineering	Stephen Parish	Generating power from human footsteps through a mechanical floor tile	United States - South Carolina
Silver	Engineering	Zehong Wu	Network Response to Intrusion Detection: Probabilistic Methods in Machine Informatics to Secure Multiple Targets	United States - Colorado
Silver	Engineering	Alexander Norwood, Jordan Dobson	Carbon fiber in musical instrument making	China -
Silver	Engineering	Nitya Rayapati, Sasaank Bandi	Optimizing Nanoparticle Enabled Vapor Creation in Desalination	United States - Georgia
Silver	Engineering	Wan Nur Liyana Wan Halim	Novel Design of a Passive Single-Axis and an Active Dual-Axis Solar Tracker: Comparison of Performance and Solar Efficiencies.	United States - Texas
Silver	Engineering	Jianqing Wang	Thermoelectric Power Generator	Malaysia
Silver	Engineering	Molly Parrish	An Intelligent water-saving device of gas water heater	China
Silver	Engineering	MANSI DALSANIA, KAIRAVI	Using Crude Glycerine (A Biodiesel Waste Product) as a Corrosion Inhibitor in Concrete	United States - Iowa
Silver	Engineering	RACHHADIYA	A NOVEL PROCESS OF CONSTRUCTING BRICKS & PAVER BLOCKS USING WASTE PLASTICS	India -
Silver	Engineering	Nicholas Martin	Design of Piezoelectric Wind Energy Harvesters Using Flutter or Rotation Induced Vibration	United States - Florida
Silver	Engineering	Ross Sparrow	Breaking Bad: Creating Passive Solar Systems to Destroy Biological Contaminants in Drinking Water	United States - Missouri

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Silver	Engineering	Kalina Harden	Moove Over Methane	United States - Indiana
Silver	Engineering	NIKITA MISHCHANKA	The Model of the mobile device with elements of air cleaning and disinfection	Belarus -
Silver	Engineering	Megan Callanan	Development of Resveratrol and Curcumin Releasing Surfaces for Neural Applications	United States - Ohio
Silver	Engineering	Thomas Dorminy	The Next Step: Harnessing Piezo Power	United States - Georgia
Silver	Environment	Joshua Zhou	Mitigating the Neurodegenerative and Teratogenic Effects of Ziram with UVC Waves	United States - North Carolina
Silver	Environment	Maya Rao	A Novel Method for Rapid Quantification of Coliform Bacteria using Nanotechnology	United States - Pennsylvania
Silver	Environment	Omer Tekin, Abidin Emhan, Taha	Alternative Source for Paper Produced from the Endocarp Layer from Various Melons and its Environmental Benefits	United States - Connecticut
Silver	Environment	Cangoz	Data Sonification with the Seismic Signature of Ocean Surf	United States - New York
Silver	Environment	Yongpeng Tang	Investigating the Efficacy of Bioluminescent Mushroom Panellus Stipticus as a Biosensor to Detect the Toxicity of Water Contaminants	United States - Connecticut
Silver	Environment	Bridget Oei	Milk Fat Globule-EGF Factor 8 Alleviates Cell Death in Irradiated Intestinal Epithelial Cells	United States - New York
Silver	Environment	Kevin Tong	Oil Spill Remediation: The Numerical Simulation of an In-Situ Subsea Separator	United States - Texas
Silver	Environment	Karan Jerath	Investigation of Different Degradation Treatments on Pesticide Contaminated Water with Toxicity Bioassay on Daphnia magna	United States - Utah
Silver	Environment	Andrew Kim	Highly Efficient Sponge for Absorption of Contaminated Oil	United States - New York
Silver	Environment	Tyler Toepke-Floyd	Emission Reduction Using an Activated Carbon Supplement	United States - North Dakota
Silver	Environment	Mohd.Adi Mohammad Fadzil, MUHAMMAD 'IZZAT ZUHAIRI	Production of Protease from Banana (Musa Sapientum) peel by Aspergillus niger as an antimicrobial agent	Malaysia -
Silver	Environment	RUSHAIDHI		
Silver	Environment	Linda Phung	The Coast is Clear! The Effect of Various Bioremediation Agents on Polycyclic Aromatic Hydrocarbons in Diesel Fuel Contaminated Environment	United States - Texas
Silver	Environment	Katelyn Boisvert	The Impact of Sea Surface Temperature and Nutrient Conditions on the Abundance and Growth Behavior of the Phytoplankton Thalassiosira	United States - Arizona
Silver	Environment	Nirali Desai	Natural Antimicrobials against Antibiotic Resistant Bacteria	United States - Vermont
Silver	Environment	Guilherme Winter	REFORMULATING MICRO-FILLED COMPOSITE MATERIALS THROUGH L-MEGASTROBILES AND NON-MODIFIED NEEDLES OF Pinus elliottii (Engelm var. elliottii)	Brazil
Silver	Environment	Elisa Villafana	Save the honeybees: Stop using neonicotinoids: Effects of the pesticide thiamethoxam on vigor, growth and development of soybean (Glycine max) crops	United States - Minnesota
Silver	Environment	Hilal Atesoglu	A Potential of Biosorbent Derived from Sesame Leaves for Removal of Toxic Mercury(Hg): Investigating the Effects of Contact Time, Particle Size and Constant Temperature on Removal Rate of Mercury	United States - California
Silver	Environment	Ursa Pirc, Maja Vidmar	Microplastics in Washing Machine Wastewater	Slovenia
Silver	Environment	Tessa Ricker	The Rate of Decomposition of Compostable Packaging Materials	United States - Florida
Silver	Environment	Ayushi Sinha	Zebra Mussels	United States - Tennessee
Silver	Environment	Sahil Veeramoney	The Efficiency of Ferromagnetic Nanoparticles and Chlorella Algae in the Remediation of Oil Spills	United States - Oregon
Silver	Environment	Madison Meredith	The Effect of Microorganism Additives on Nitrogen Efficiency Related to Plant Growth	United States - California
Silver	Environment	JULIAN OSTAKU, DONALD TAFI	Removal of phenol from waste of olive oil mill by using sunflower stalk as an alternative adsorbent	Albania
Silver	Environment	David Zulli	The Effects of Supplementary Illumination on the Biomass Production Rate of Chlorella sorokiniana	United States - Arizona
Silver	Environment	Ellen Tyra	Energy from Waste (EfW): The Trashy Solution to a Global Problem	United States - Kentucky
Silver	Environment	McKalee Steen	The Heavy Metal Movement: Measuring the phytoextraction and bioaccumulation of heavy metals by Panicum virgatum and Schizachyrium scoparium when grown in soil collected at the Tar Creek Superfund Site	United States - Oklahoma
Silver	Environment	Anjanei Dhayalan	A Novel Integration Of Biological Sequestration Of Carbon Dioxide From Flue Gas Emissions And Bio-Diesel Production Using Marine Phytoplankton	India -
Silver	Environment	Mubina Veladzic, Merjem Omeragic	From green to gold	Bosnia And Herzegovina -
Silver	Environment	Aysenur Musaogullari, Halide Arslan	An Experimental Study of Organic Waste as Sorbent Material for Oil-Spill Cleanup	Macedonia
Silver	Environment	Christian Goerner	Optimization of Crude Oil Contaminated Soil Bioremediation Part 2	United States - Georgia

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Silver	Environment	Easton McChesney, Wolfgang Ofstedal	Protecting Streams, Lakes, and Rivers: Engineering a Breakthrough Filter to Remove Dissolved Phosphates from Stormwater Runoff	United States - Minnesota
Silver	Environment	Jared Katzen	Utilizing Cyphoma gibbosum and Diadema antillarum as Early Indicators of Change Within the Bacalar Chico Marine Reserve's Reef Ecosystem.	United States - New York
Silver	Environment	Kaitlyn Ramirez	Mississippi Nitrogen: A Dead Zone Culprit!	United States - Texas
Silver	Environment	Ahmet Aras, Aytuğ Tekin	PRODUCTION OF GOLD NANOPARTICLES FOR BIOSENSOR	Turkey
		Pattanapong Mathong, Purit Jirakorntham, ATIKARN		
Silver	Environment	MAYTHAWATCHARAKORN	removal of heavy metal from waste water	Thailand
Silver	Environment	Malcolm Barnard	Utilization of Spirogyra grevilleana as a Method of Algal Filtration for Reduction of Limnotic Escherichia coli Levels	United States - Georgia
			A Novel Microfluidic Biosensor for Environmental Contaminants PLUS Development and Optimization of an Ultra-Inexpensive Plastic Water Filter to Remediate Water Pollution Sustainably	United States - Maryland
Silver	Environment	Jack Andraka, Chloe Diggs	An Optimized Analysis of Wind Flows in the Urban Environment and the Identification of Building Augmented Wind Turbines Sites	United States - New York
Silver	Environment	Ben Ross	The Correlation Between Forest Fragmentation and Invasive Herbaceous Plant Presence in a Deciduous Forest Habitat	United States - New York
Silver	Environment	Javiera Morales	Water Purification Using Moringa Oleifera Seed Powder As a Natural Coagulant and Biosand Filtration	Cambodia
Silver	Environment	Siengta Ly, Sophadeth Rithya	The Effect of Various Ion Exchange Membranes on Generating Electricity Using a Mediator-Less Microbial Fuel Cell	United States - Virginia
Bronze	Energy	Catherine Pollack	Creation of Tidal Power from Ocean Water Infiltrating Coastal Ground via an Innovative Tidal Barrage System	United States - Connecticut
Bronze	Energy	Ethan Novek	High Energy Density Anode Material for Secondary Lithium Ion Batteries	United States - Kentucky
Bronze	Energy	Maura Appleberry	A Cell Worth DYE-ing for: Which Organic Dye will Increase the Efficiency of a Dye-Sensitized Solar Cell the Most?	United States - Texas
Bronze	Energy	Lena Khanolkar	LIFTERING System with Bernoulli Principle and Continuity as Water Pump and Filter without Electricity	Indonesia -
Bronze	Energy	Iftitah Imawati	Nanowires: Enhancers in Solar Absorption	United States - Texas
Bronze	Energy	Harsha Dannapaneni	New Green Energy - A Microbial Fuel Cell Based On Iron Chlorophyll	Chinese Taipei -
Bronze	Energy	Mei-Lin Chen, Szu-Yu Mo	The possibility of producing hydrogen from biodegradable waste	Slovenia
Bronze	Energy	Aleš Zupančič	Synthesis and Electrochemical Properties of MFe ₂ O ₄ -SnO ₂ (M=Zn, Cu, Ni) anode composites for Lithium Ion Batteries	South Korea -
Bronze	Energy	Dae Hyeok Noh, Ye Ji Kim		
Bronze	Energy	Madeleine Guyant, Olivia Carros	The Sludge Potential: Using Anaerobic Sediment to Power Microbial Fuel Cells	United States - Virginia
Bronze	Energy	Yuyeon Lee, Kiyeon Lee	Increasing the Operational Lifespan & Energy Output of DSSCs	United States - Texas
Bronze	Energy		Inclusion of Thermoelectric Generators in Glass Building Materials to Produce Useful Energy in New England Homes	United States - Connecticut
Bronze	Energy	William Anderson	Alternatively, the Hydrogen Source: Chrome-Plated Factories with Hydrogen Gas As A Byproduct Of The Evaluation	Tajikistan
Bronze	Energy	Alan Sherboev, Dilshodjon Majidov	PREPARATION OF HIGH CATALYTIC FEATURED Au-Pt BIMETAL PARTICLE MODIFIED GRAPHENE OXIDE SURFACES FOR THE USE OF METHANOL AS FUEL	Turkey
Bronze	Energy	Serkan Kutludag, Ezgi Yavuz		
Bronze	Energy	RAIHAN HARON, Nor Ilizahani Ghali	Fish Waste Synthesizing for Biocoal Energy Production	Malaysia
Bronze	Energy	max ylitalo	Garbage Reduction to Energy Production: Converting Waste Paper to Cellulosic Ethanol	United States - Minnesota
Bronze	Energy	Zachary Halma	Towards Green Asphalt: A Novel Application of Thermoelectric Generation	United States - Washington
Bronze	Energy	Oluwatomisin Osibote, Eveshorhema Samuel-Alli, Kpakpando Akaeze	2 WP-TRIPOWERCED GENERATOR	Nigeria -
Bronze	Energy	ZHU XINGXIANG	The Design and Realization of A Multi-functional Self-generating Electric Coat	China -
Bronze	Energy	Lauren Tooley, Joseph Roberts	Screening for endophytes that produce volatile organic compounds (VOCs) that can be used as biofuel	United States - North Carolina
Bronze	Energy	Ina Salihovic	EEE GREENHOUSE	Bosnia And Herzegovina -
Bronze	Energy	Emily Yan	Enabling Solar and Wind Energy: Design of an Entirely Organic Redox Flow Battery with Ultra-High Voltage for All Weather Application	United States - Delaware
Bronze	Energy	Kailas Vodrahalli	Transmission of Solar Energy through Optical Waveguides: Modeling and Material Studies	United States - California
Bronze	Energy	Caid Lunt	Optimizing the Utilization for Wind Energy with an Alternative Engineering Design: A Horizontal Dual Motor Trubine	United States - Utah

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Bronze	Energy	Gojko Janakieski, Dushko Barutovski	MICROBIAL POWER: CREATING ELECTRICITY FROM MUD AND WASTEWATER	Macedonia
Bronze	Energy	Jamielee Buenemann	Repurposed Residential Scale Wind Turbine with Blade Variance	United States - Missouri
Bronze	Engineering	Haeun Kim, Jinah Son	Synthesis and Characterization of Low-Band Gap Polymers for OTFTs and OPVs	South Korea -
Bronze	Engineering	Katerina Gudeva, Stojan Pecev	A NEW CONCEPT OF PASSIVE HOUSE INDOOR COOLING	Macedonia
Bronze	Engineering	Richard Grant	A Novel Tracking Device for Hikers and Cyclists	South Africa -
Bronze	Engineering	Massimo Cappelletto, Zilli Davide	H.E.P. Hypergolic Ecological Propellant	Italy -
Bronze	Engineering	Vignesh Bhethanabotla	Scaled-up Synthesis and Uniform Spatial Distribution of Silver Nanoparticles for Plasmonic Energy Upconversion and Photocatalysis	United States - Florida
Bronze	Engineering	JAMES GARISCH	PORTABLE SOLAR BOX	South Africa -
Bronze	Engineering	Ling-Wen Ting	Synergistic effects of external factors on reprogramming of insulin-producing cells	Chinese Taipei -
Bronze	Engineering	Marygrace Duggar, Olivia Guidry	A Greener Shade of Grey: The Effects of Fly Ash in Concrete A Second Year Study	United States - Louisiana
Bronze	Engineering	Gorazd Štieber, Gabriel Nagy	Experimental study of electric discharge in gas	Slovakia -
Bronze	Engineering	Jeramie Paz	Solar-Powered Thermal Conductive Warmer for Preterm Neonates in Resource-Limited Environment	United States - Georgia
Bronze	Engineering	Harrison Lee, Xavier Tapia	Application of the Piezoelectric Effect: Phase II	United States - New Mexico
Bronze	Engineering	Alec Nichols	Vending Machine Applications in Manufacturing	United States - Tennessee
Bronze	Engineering	Stephan Raess	Die Entwicklung eines PET-Verdichters	Switzerland -
Bronze	Engineering	Robert Kitaoka	Dynamic Response of a Human Neck Replica to Axial-Compression Impact Loading	United States - Minnesota
Bronze	Engineering	Mayar Mohamed	Air Cap Control	Egypt -
Bronze	Engineering	Mohamed DHAOUADI	Problem free iron	Tunisia -
Bronze	Engineering	Thorsen Wehr	Focusing Sound Waves Using a Two-Dimensional Non-Linear System	United States - Washington
Bronze	Engineering	Emily Sheng	RFID Crack Detection	United Kingdom
Bronze	Engineering	Amanda Thatcher	The Carbon Sequestrator	United States - Utah
Bronze	Engineering	Nesrine Fathallah, Salma BELLAZREG	Daily food test meter	Tunisia -
Bronze	Engineering	Ruhika Roy	A Novel Sensor & Microcontroller for Vibration Detection	United States - Texas
Bronze	Engineering	Daire Flood, Cillian Kavanagh	Safe Driving With The Ice Device	Northern Ireland
Bronze	Engineering	Rohan Balaji, Hasnain Ali	A Novel Method for Low-Power Energy Harvesting	United States - Texas
Bronze	Engineering	Tumendelger Batsuuri, Temuujin Sharavdorj	Free Energy Source Building	Mongolia
Bronze	Engineering	Anderson Manoel Pereira, Felipe Tavares	Samanaú project: wireless sensor network at Caicó, RN - Brazil	Brazil -
Bronze	Engineering	Büşra Yıldırım, Koray Şekerin	DETECTION AND VISUALIZATION OF THE QUANTIZED BEHAVIOUR OF RESISTANCE AND CONDUCTIVITY IN GOLD WIRE	Turkey
Bronze	Environment	Daniel Spohr, Eduardo Cirio	Use of Microorganisms in Estrogen's Degradation	Brazil -
Bronze	Environment	Erald Fezullau, Erion Rika	INNOVATIVE METHOD IN DECREASING RADIATION PENETRATION: EGGSHELL SHIELDING	Albania
Bronze	Environment	Jai Ghanekar, Vincent Tran	Phytomining: The Accumulation of Heavy Metals	United States - Texas
Bronze	Environment	Jordan Pitt	The Decomposition of BPA with P. putida, P. ostreatus, and UV-C Light	United States - Texas
Bronze	Environment	Rose Anne Angue, Angelika Mae	Cytotoxicity of Equisetum spp. (Horsetail) Stem Extract Against Human Colon Carcinoma Cells Using MTT Assay	Philippines
Bronze	Environment	Diño, Dannah Dayrit	ClearWater S	United States - Wisconsin
Bronze	Environment	Alex Booton, Cameron Palmer	A Green Solution: The Use of Microalgae in Phosphate Removal During Wastewater Treatment	United States - Texas
Bronze	Environment	Carolyn Guan	Water Recycling Shower	Denmark
Bronze	Environment	Emma Helene Rishøj Holm, Emma Thastum, Tobias Svangtun Nowak	The use of algalization by inoculating Nostoc commune algae as an important resource for the sustainable management, agricultural systems and environment conservation.	Puerto Rico
Bronze	Environment	Andrea Albaladejo	Analysis of Brassica rapa Anthocyanin Biosynthesis under Diverse Environmental Induction Factors	United States - Oregon
Bronze	Environment	Bo Hyun An	Algae...the Greener Fuel (Year 3)	United States - Florida
Bronze	Environment	Alexandra Gabrielski	Cranberry Extracts: A Quorum Sensing Inhibitor and the Novel Application of Cranberry Extracts as an Environmental Measure to Inhibit Pectobacterium carotovorum in Crops.	United States - Washington
Bronze	Environment	Indira Rayala	Duckweed Water Filters, Year Two	United States - Florida
Bronze	Environment	Danielle Farinella	Solar Disinfection: The Risk of Recontamination After Exposure to Ultraviolet Light	United States - New York
Bronze	Environment	Jason Toporoff	Cancer on paper money. A novel vector for liver cancer: Detection of molds & toxins, assessment of cancer risk and solutions	Kosovo
Bronze	Environment	Lendrit Januzaj, Endrit Himaj		

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Bronze	Environment	Kosta Cerović	Biogas production from different domestic wastes by anaerobic digestion	Slovenia
Bronze	Environment	MEHMETCAN GOK	ENVIRONMENT FRIENDLY FIRE EXTINGUISHER	Turkey
Bronze	Environment	Sara Mongno	The Effects of Leaf Litter from Invasive Species On Water Quality Factors	United States - New York
Bronze	Environment	Huda Kacmaz	OPTIMIZATION OF PROCESS PARAMETERS FOR DEHAIRING OF HIDES	Pakistan
Bronze	Environment	Kylie McNamara, Ursula Laville	What's Our Footprint? Carbon Dioxide Sequestration by Trees at St. Joseph's Academy vs. Carbon Dioxide Emissions from Vehicle and Utility Sources	United States - Louisiana
Bronze	Environment	Kaushik Katta	Pleurotus Pulmonarius: A Viable Alternative to Closed-Cell Extruded Polystyrene	United States - Texas
Bronze	Environment	Elizabeth Fairchild	Could Vermicompost be a Counteragent to the Plant Pathogenic Fungus, Rhizoctonia solani?	United States - Florida
Bronze	Environment	Rrona Dushi, Jehona Dushi	Removal of toxic metals from water by using pumpkin seeds	Kosovo
Bronze	Environment	Natalia Abramova, Ksenia Guseva Madina Zhumagalieva, Dinara	Participation of Imperfect Fungi in the Symbiotic Relations of a Lichen Mycobiont and Photobiont on the Example of Cladonia mitis and Cetraria islandica	Russia -
Bronze	Environment	Zhumagalieva	Fertilizers for green economy	Kazakhstan
Bronze	Environment	Brock Guymon	Oil From Tar Sands	United States - Utah
Bronze	Environment	Madison Fish	The Production of Fibers by Gel-Spinning Solubilized Atlantic Hagfish (Myxine glutinosa) Slime Threads	United States - Florida
Bronze	Environment	Derris Stanland	The Peel Deal: Can Fruit Peels Clean Our Rivers and Streams?	United States - Kentucky
Bronze	Environment	Adriana Hološková	The monitoring of the spring migration of amphibians in 2012 – 2013	Slovakia -
Bronze	Environment	Riley Namminga	The effect of field shape on spray coverage	United States - South Dakota
Bronze	Environment	Dana Abulez, Devyani Shekhawat, Rachana Kombathula	Establishing the Parkinson's-Pesticide Connection through Computational Molecular Modeling	United States - Arkansas
Bronze	Environment	Christin Abraham, Jeffrey Hurd	The Immobilization of Phosphorus-Based Flame Retardants Using Halloysite Nanotubes	United States - New York
Bronze	Environment	Jihyun Son	Minimizing effects of food preservatives (p-hydroxybenzoate/parabenes) on soil bacteria	South Korea -
Bronze	Environment	Merry Joseph	Electrostatic Precipitation: Which type of metal can most efficiently control smoke pollution exiting a model chimney?	United States - Utah
Bronze	Environment	Madison Pobis	The effect of discharge on specific conductance from three different sites within the Santee River Basin	United States - South Carolina
Bronze	Environment	Viktor Dorokhin, Marta Chychylova	Forest Forecast - System for dynamic modelling of forest growth	Ukraine -
Bronze	Environment	RHAYNARA DE ASSUNÇÃO, REBECA DE BRITO	Analysis of the application of recycled fiberglass insulation as a filter media for the reduction of emissions of soot originating from fuel combustion.	Brazil
Bronze	Environment	Sujal Manohar, Anika Vij	Blown Away	United States - Texas
Bronze	Environment	Abhay Srinivas	Personal Portable Water disinfection	United States - New Jersey
Bronze	Environment	Resty Utami, Tgk Darayani	Toddy Palm Tree as Wind Damper Solution On Coastal Zone With Huge Ecology Benefits	Indonesia -
Bronze	Environment	Lilith South, Bhaskar Patel	UV Wavelengths on Pathogenic Chytrid Fungus Using a Model Species	United States - Georgia
Bronze	Environment	Natalia Asenjo-Molina Eiznepes Annanepesov, Ramazan	Benthic Zone vs Surface Water as Indicators of the Health of an Estuary System	Puerto Rico
Bronze	Environment	Hojayev	Making very light – durable – strong bricks by using Limestone dust and grinded cotton stem wastes	Turkmenistan
Bronze	Environment	Saltanat Tatenova, Tolgonai Alibekova	Cleaning Oily WasteWater, Combination of Extraction and Absorption Methods.	Kyrgyzstan
Bronze	Environment	Emma Feldman	The effect of the common plumbing materials copper, aluminum, PEX and PVC on biofilm formation in a model water distribution system	United States - New York
Bronze	Environment	Abdollah Hamdan, Liam Krueger	Using modified bacteria as an efficient means of dissolving detergents	United States - California
Bronze	Environment	Catherine Chung	Not a Drop to Drink: The Challenge of Building a Low-Cost Solar Still to Supply Potable Water in Developing Countries	United States - New York
Bronze	Environment	Javier Alonso Valdez Vejar, Efraín Guadalupe Lugo Guzmán, Cinthia Gabriela Martínez García	Chicken coop backyard ecological prototype	Mexico -
Bronze	Environment	Zhong Jiayun	Effects of Some Disposable Chopsticks Leachate on Zebrafish Embryo Development	China
Bronze	Environment	Adrian Danut Nicolae, Ionut Andrei Boer	More durable walls with electro-magnetic radiation shield	Romania -
Bronze	Environment	Brittany Billmeier	Feeding Fisheries	United States - Florida
Bronze	Environment	Wai Tung Lo	Purification of sewage using seeds	Hong Kong

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Bronze	Environment	Panitan Thakhiew	Fluorescence sensor based on quenching of Curcumin for the determination of heavy metal ion	Thailand -
Bronze	Environment	Papitchaya Rongdejpratheep	Product and Physical properties Characterization of Fuel Briquette made from Spent Bleaching Earth and Cassavas Rhizome	Thailand
Bronze	Environment	Arbana Behluli, Blerta Gjinolli	Adsorption of Cu(II) and Pb(II) ions in Goshica clay in natural form	Kosovo
Bronze	Environment	Jenene Akkad	Exploring New Mexico Soils as a Potential Source for Natural Product Producing Actinomycetes	United States - New Mexico
Bronze	Environment	yusra salman	ENSURING FLAME RESISTANCE IN HALOGEN-FREE POLYSTYRENE COMPOSITES	Turkey
Bronze	Environment	Chase Cleveland	Purification of Polluted Water Systems: The Effectiveness of Herbs in Removal of Heavy Metals from Drinking Water Supplies	United States - Florida
Bronze	Environment	IDELFONSO MANUEL PEDRO MACINGARRELA, SYDNEY NICOLAS CHAMBULE	The Ecofriendly Bioplastics WASTE VEGETABLE OIL FOR BIODIESEL WITH INNOVATIVE OIL FILTRATION AND LEFTOVER GLYCERIN FOR SOAP	Mozambique
Bronze	Environment	SereyPannha Dy, sopheakrithy Mech		Cambodia
Bronze	Environment	ATA KARSLI, GOKTAS TARIK	Influence of drinkable waters containing different levels of pH and nutrient. Maximizing Wind Energy Uptake by Adjusting Blade Pitch on Wind Turbine Generators	Turkey
H.M	Energy	Darryl Beronque, Jorge Garcia		UNITED STATES
H.M	Energy	Carly Gillman	Creating Bio-ethanol From Food Waste	United States - Oklahoma
H.M	Energy	Nahyun Kwon	Considering application of Suljigemi as biomass, absorbent of environmental pollutant and cholesterol	South Korea -
H.M	Energy	AYKHAN HASANZADE, MAHAMMAD		
H.M	Energy	BAHAROV	Alternative cooler	Azerbaijan
H.M	Energy	Jackson Egert	Passive Reclamation of Unexploited Energy	United States - Minnesota
H.M	Energy	MOHAMMED SAMSUDIN HERYSIYUDIE, ABDULLAH SHAHRUL		
H.M	Energy	NIZAM	Super Green Portable Hydro Generator 14999	Malaysia
H.M	Energy	Rishi Basdeo	The Concentration Combination	United States - Florida
H.M	Energy	Bailey Liao	New Method for the Prediction of Carbon Nanostructures and the Application Towards Optimizing Electron Transfer Rates in Dye Sensitized Solar Cells	United States - New York
H.M	Energy	Hegi Beliu, Iva Mamani	Exercise and Memory	Albania
H.M	Energy	Pimolwan Hongsa-nga, Phanupong Wongchan, Vinus Thethomya	Development of Prismatic Bio-Based Battery through Electrolyte Derived from Local Plants	Thailand -
H.M	Energy	Svyatoslav Shkirko	Intermetallic compound Gd2Ni2Sn as a potential hydrogen storage material	Ukraine -
H.M	Energy	Spencer Kendall	Analyzing The Effectiveness of Applying The Mathematical Fibonacci To Modern Solar Sequence Panel Designs	United States - Texas
H.M	Energy	Robert Shelton	LEDs Save Energy	United States - Nevada
H.M	Energy	Ho Man Lam, Hiu Shuen Wong	Organic Rankine Cycle (ORC) - Solar Thermal Power Generator	Hong Kong -
H.M	Energy	Richard Schonour, Eric Knight	Biofuel...Is It Really Worth It?	United States - Florida
H.M	Energy	Aasiya Ahmed, Usra Qureshi, Aden Khan	A Novel Wind Turbine Design Incorporating Photovoltaic Cells and Piezoelectric Sensors	United States - Connecticut
H.M	Energy	Shreya Bhadriraju, Alan Ji, Nandan Marwaha	Waste to Taste: Organic Fuels	United States - Texas
H.M	Energy	Sebastiaan Cornelis Antonius van Kooten, Koen ter Beke, Kevin Vonk	Central Lighting Facility	Netherlands -
H.M	Energy	Erison Peñaflor, Joniel Nuevo	Isolation of Cellulolytic Microorganisms Towards Production of Bio-ethanol	Philippines
H.M	Energy	Matteo Giardino	Microbial fuel cell: developing, analysis and performance assessment	Italy -
H.M	Engineering	Sarah Palmer	Watts in the Wind/Water II	United States - Texas
H.M	Engineering	AIDOS KULNIYAZOV, ISSABEK		
H.M	Engineering	MURAT	Selection of the optimal size of the material while turning.	Kazakhstan
H.M	Engineering	Shreeyanka Luitel	The power of nanotechnology	United States - Kentucky
H.M	Engineering	Jeffrey Lee, Pocholo Apad	THE FEASIBILITY OF USING PEANUT SHELLS (Arachis hypogaea) AS RAW MATERIAL FOR PARTICLE BOARD PRODUCTION.	Philippines
H.M	Engineering	Pilip Orekhva, Palitai Kanstantsin	Multirotor flyer	Belarus -
H.M	Engineering	Kristyna Tomasova	Cultivation Trametes versicolor DSMZ 1977 and production of laccase enzyme	Czech Republic -
H.M	Engineering	Megan Duffy, Zoe McGirr	A Seed Harvesting Kit for Subsistence farmers in Developing Countries	Northern Ireland
H.M	Engineering	Elise Cai	Developing artificial muscles with carbon nanotubes and rubber	United States - Texas
H.M	Engineering	Nikoo Karbassi	Solar Energy Conversion Unit with Improved Power Output	United States - Arkansas

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H.M	Engineering	Ahmad Annifari, Andre Firmansyah	Wireless Health Monitoring (Detect temperature of body, heartbeat and volume of our lung with wireless system)	Indonesia -
H.M	Engineering	Qichen Liu	Field Search and Rescue Robot Based on Adaptive Suspension	China -
H.M	Engineering	Ye Qiaosheng, Chen Ximeng	A Multi-purpose support for the use of cell phone's photography	China
H.M	Engineering	Tayyar ÖKMEN, Ramazan FİLİZ	EFFECT OF PRESSURE EQUALISATION IN HEAT PUMPS ON ENERGY EFFICIENCY	Turkey
H.M	Engineering	Constanza Francisca Montenegro	Astrophotographer of wood with traction to finger	Chile -
H.M	Engineering	Clunes, Daniela Apablaza Venegas	LDX 3000 RESCUER	Nigeria -
H.M	Engineering	Olanrewaju Abass-Olisa,	Automatic Car Parking Device	China
H.M	Engineering	Shuwen Wang, Zhibin Shi	Binocular 3D computer vision (with two webcams).	Kazakhstan
H.M	Engineering	Aibek Rzaev, Maksat Omirzak	A Fluid Idea	United States - Oklahoma
H.M	Engineering	Sarah Riley	ECO-Train	Germany
H.M	Engineering	Melih Ünal, Eyüp Küçük	The importance of animals	Romania -
H.M	Engineering	Sorina Gabriela Andrei, Celia Doina		
H.M	Engineering	Oprea		
H.M	Environment	Rachel Cadle	Solving Sulfur Deficiency by Applying Sulfur Fertilizers on Zea mays indenta	United States - Indiana
H.M	Environment	Arthur Mendiola	The CO2 Transformation: Reducing CO2 Levels by Converting It into Sodium Bicarbonate Using Sodium Formate	United States - Texas
H.M	Environment	Gamze Dilek, Bibinur Kassymkhan	The biological method of cleaning soil contaminated with petroleum and petroleum products (As example: Kyzylorda region)	Kazakhstan
H.M	Environment	MOHAMMED TAHER	THE EFFECT OF ELEMENTS ON THE GROWTH OF BEANS	Iraq
H.M	Environment	Kwun Yu Lo	Algination - Novel way to treat with metal sewage	Hong Kong -
H.M	Environment	Cheng Jin	A Research into Plant Defense Response Based on Bioelectricity	China -
H.M	Environment	Kriti Gaur	A Study of Metal Nanoparticle Toxicity on Algae	United States - Texas
H.M	Environment	Tapasya Trivedi	The Optimization of Compost Tea Formulations: A Plan For Future Sustainability of the Biosphere	United States - Arizona
H.M	Environment	Brynna Neal	Feeding the World: A Study To Determine The Most Effective Organic Fertilizer to Grow Soy in Sand	United States - Maryland
H.M	Environment	ELMIN SAHIBI, ALIOVSAT AHMADOV	THE REMOVAL OF SILVER FROM ELECTROPLATING WASTEWATER	Azerbaijan
H.M	Environment	Emil Ahlantzberg, Daniel Bertlin	From Coffee Grounds to Gourmet Mushrooms	Sweden -
H.M	Environment	Sungmin Park, Sangmin Park,	Usefulness of cleaning foreshore by using micro-organism	South Korea -
H.M	Environment	Eunhyeok Lee	Do Air Root Pruning Pots Accelerate Success in a No-Till Garden?	United States - Louisiana
H.M	Environment	John Austin Ham	Research on mineralization degree of wastewater canal of agricultural fields and facilities of utilization them in agriculture.	Turkmenistan
H.M	Environment	Eziz Gochmanov, Guychgeldi	From Ground Soil to Resourceful Oil	United States - Illinois
H.M	Environment	Galandarov		
H.M	Environment	Lindsay Spigelmyer		
H.M	Environment	Atakan KORKMAZ, Seyfettin Peynirci	CANOPRO	Turkey
H.M	Environment	Jasmine Zen Vukovic	Silver against Escherichia coli and Staphylococcus aureus in bottled water	Italy
H.M	Environment	Ruena Nicole Tutor, Felix John	CUCURBITA MAXIMA (SQUASH) PEEL EXTRACT AS A POTENTIAL ORGANIC-BASED FUNGICIDE AGAINST FUSARIUM OXYSPORUM F. SP. CUBENSE	Philippines
H.M	Environment	Verzano	TROPICAL RACE 4 CAUSING FUSARIUM WILT IN CAVENDISH BANANA	United States - Texas
H.M	Environment	Randall Scharmen	Lack of Pressure: Vacuum Purification	United States - Texas
H.M	Environment	Madison Thompson	The "Solution" to the Effects of Petroleum Hydrocarbon Contamination on the Hatching of Artemia salina	United States - Colorado
H.M	Environment	Danielle Mathews	Is The Use Of Barley Straw Effective At Reducing Algae Growth By Monitoring Phosphorus and Nitrate Levels	United States - Minnesota
H.M	Environment	Manisethika Sotha, Rany Sophal	GELAGAR PLASTIC	Cambodia
H.M	Environment	AHMED FARHAN	Oil Spill Ecoship the Pollution of Water	Iraq
H.M	Environment	Oluwalonimi Oduneye, Moyosore	Disappearing Forest- Plant Waste To The Rescue	Nigeria -
H.M	Environment	Oyeyemi		
H.M	Environment	Muhammad Zulfadli Adam Bin Zulkefli, Muhammad Farhan Faiz Bin	Eco Insulator Using Imperata Cylindrica And Calcium Carbonate	Malaysia
H.M	Environment	Ashaari	Pressured Paper: The Effects of Pressure on the Decay of Recycled Paper Strength	United States - Utah
H.M	Environment	Alexandra Jespersen	The use of synthetic pesticides as in PEGANUM HARMALA AGAINST SPURGE HAWK MOTH (HYLES EUPHORBIAE)	Vietnam
H.M	Environment	Lê Công Kiều Anh, Lê Trung Đức	BIOACCUMULATION OF HEAVY METALS IN LOTUS FLOWER AND IT'S ADAPTATION TO ORGANIC CONTAMINANT	Turkey
H.M	Environment	Tuba Koçak, merve yakut	Do Earth Worms Change the Level of Nitrates and Phosphates in Soil	United States - Missouri
H.M	Environment	Deshawna Flesch		

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H.M	Environment	Supatcha Nakvaree, Wanchalerm Subprasom	Disinfection of some common bacteria by using different herbs	Thailand
H.M	Environment	Shruthi Chockkalingam	Identifying marine-life friendly plastic: An analysis of the structure-property relationship of biodegradable plastics in a marine environment	United States - California
H.M	Environment	ROVACH ABDIYEV, BEGENCH SAPARMYRADOV	The repellent effect of Peganum Harmala (Yuzarlik) seed extract against on Trialeurodes vaporariorum ((Westwood) Greenhouse whitefly)	Turkmenistan
H.M	Environment	Ergemlidze Ann	The Influence of Dam- and Dcm-Methylases on a restriction of pDNA endonucleases of restriction	Russia -
H.M	Environment	Amy Zhang	The Phytoremediation of Zinc by Lemna L. minor	United States - California
H.M	Environment	Ondrej Hubalek	Biosorption of copper ions by Schizophyllum commune	Czech Republic -
H.M	Environment	Eniselda Tusku, Aurora Bardhoshi	The use of special flowers to avoid damage of ozone layer.	Albania
H.M	Environment	Lang Kun	Ecological remediation of eutrophication and urban landscape water and microorganism study	China
H.M	Environment	hamid issa hissein, adoum mahamat	EFFECT OF LEAD EXPOSURE ON SKIN ELASTICITY	Chad
H.M	Environment	Ekin Şimşek, Atalay Ziştoğlu	β-carotene production from Dunaliella viridis under stress conditions	Turkey
H.M	Environment	Amir Bayramgulov, Linar Khusainov	The introduction of cellular technology in the automation of watering plants.	Russia
H.M	Environment	Deividas Gumauskas, Marius Gliaudelis	The Availability and Use of Snow Water on Tomatoes and Corn In Hydroponic Agriculture	Lithuania
H.M	Environment	MUKHAMED ZIIA ARSLAN, ISKEN DUNKANAEV	ELECTROMAGNETIC FILTER – AIR CLEANER	Kyrgyzstan
H.M	Environment	HAKAN YUSUFOĞLU, ARSLAN CHARIYEV	Various methods to decrease the losses of petroleum products	Turkmenistan
H.M	Environment	MOHAMED FAHAD MUMIN CALI	new aspect to the dripping project	Somalia
H.M	Environment	QiaoJun Zhang	To explore the different concentrations of detergent and hand sanitizer effects on paramecium morphological structure	China
H.M	Environment	Eugenia Locaso	Poor air quality in classrooms	Argentina