

Session	Room	Abstract #	Primary Author First Name	Primary Author Last Name	Primary Author's Institution	Abstract Title
2	Virginia A	8	Reinaldo	Agostini	University of Puerto Rico, Mayaguez Campus	Multi-adjacent Microwell Stickers for the Study of Paracrine Signaling in Cancer
4	Park Tower Suite 8218	73	Pavan	Akunuri	Virginia State University	Image Characterization to Quantify the Surface Roughness of the Damaged High Performance Polymer Fibers
2	Park Tower Suite 8228	38	Amal	Al-Abdulrahman	Clark Atlanta University	Poly(ethylene glycol)/ $\beta$ -Cyclodextrin Crystalline Inclusion Complexes
2	Virginia C	115	David	Alexander IV	Tuskegee University	Noise-field and Mixing Characteristics of a REM Nozzle for Supersonic Applications
1	Virginia A	3	Nadya	Ali	Michigan State University, College of Human Medicine	Profile: A Personalized Medicine Cancer Research Study
3	Virginia A	31	Shazia	Ali	California State University, Los Angeles	The Effects of Long Term Treatment with Withania somnifera on Cognitive Function
1	Virginia A	25	Veronica N.	Alston	Tuskegee University	Variation in the Health of Catfish in Association with Carcinogenic Compounds and Gulf Pollution
1	Park Tower Suite 8228	33	Mercy	Ampaw-Asiedu	Prairie View A&M University	Bioethanol Production by Fermentation of Ionic Liquid Hydrolyzed Lignocellulosic Biomass Using Genetically Engineered Zymomonas Mobilis
3	Park Tower Suite 8212	77	Juan C.	Arango Lozano	Universidad del Turabo	Synthesis of Crystalline Si Nanostructures Appropriate for the Production of High Performance Li-ion Batteries
3	Park Tower Suite 8205	104	Addn	Araya	University of Michigan	Back to the Community: Feedback From Community Members and Healthcare Providers on a Formative Childhood Obesity Research Project
2	Virginia C	111	Alex	Avendano	Ohio State University	PTEN Deletion in Pancreatic Cancer Associated Fibroblasts Decreases Hydraulic Permeability Independent of Collagen Fiber Alignment in a 3D Microfluidic Model of the Tumor Stroma
2	Virginia A	9	Nkem	Azu	Texas Southern University	Identification of Hypoxic Genes Induced in Non-Cancer Lung Cells After Exposure to Platinum Group Metal Salts

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3	Park Tower Suite 8201	61	Alisha M.	Bailey	Alabama A&M University	The Effects of Vegetation Variability on the Extreme Hydrological Events in the Poyang Lake
1	Virginia C	123	Zachary S.	Ballard	University of California, Los Angeles	Design of Low-Cost and Field-Portable Plasmonic Readers Using Machine Learning
3	Delaware B	93	Margo A.	Batie	University of Wisconsin-Madison	Room Temperature Fetal Magnetocardiography using Optically Pumped Magnetometers
2	Park Tower Suite 8228	39	Paolo	Benigni	Florida International University	Towards Structural Molecular Analysis of Complex Samples using TIMS-FT-ICR MS
2	Virginia A	10	Natasha	Berryman	Fisk University	Dopamine Transporter Interactome Reveals Differential Interaction with DJ-1 when Exposed to METH
2	Virginia C	116	Corliss	Best	Savannah State University	Optimizing Flow at a Distribution Center: A Case-Study
3	Park Tower Suite 8212	78	Manik Chandra	Biswas	Tuskegee University	Influence of Biogenic nano Silica-amorphous Carbon hybrid on Thermo-Mechanical Properties of Biodegradable Polymer (Ecoflex)
4	Park Tower Suite 8201	70	Jennifer	Blanks	Jackson State University	Improving Seagrass Mapping Techniques along the Pascagoula River Basin in Mississippi Using Landsat ETM+
3	Park Tower Suite 8205	105	Alfredo	Bolaños	New York University	Don't Look: Cerebellar and Cortical Activity during an Antisaccade Task in Adolescents with FASD
2	Park Tower Suite 8228	40	Jashaun	Bottoms	Western Michigan University	Gold Nanoparticle-cored Dendrimers as Multifunctional Drug Delivery System for Chemotherapy
3	Park Tower Suite 8201	62	Dorine Reed	Bower	University of Arkansas	Carbon Management via Terrestrial/Biological Carbon Storage
4	Virginia A	100	Shabnam Etemadi	Brady	Tennessee State University	An Investigation of Best Practices and Lessons Learned from Underrepresented STEM Graduate Students

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3	Park Tower Suite 8212	76	Shirnece	Brown	Clark Atlanta University	Integrated Computational and Experimental Studies of Polyimide (PEI)/Single-Walled Carbon Nanotube (SWNT) Interactions
1	Virginia C	128	Kyra M.	Bryant	Tennessee State University	Wind Stress, Bottom Friction, Surface Roughness, and Meteorological Forcing in Storm Surge Modeling
1	Virginia C	124	Martez	Burks	Tennessee State University	The Relationship Between Ethnic Identity and Self-Efficacy Amongst Undergraduate STEM Students
3	Delaware B	94	Harry	Burton	Delaware State University	Focal Volume Laser Beam Shaping Using a Multi-plane Learning Algorithm
3	Virginia C	138	Kailyn	Cage	University of Maryland, College Park	Patient Health Record Design for Minority Diabetic Patients
3	Park Tower Suite 8212	75	Eric R.	Calderon-Ortiz	UPR-Medical Sciences Campus	Tuning of the Photoluminescence of ZnSe(S) Quantum Dots by Promoting Structural Defects Through Surface Chemical Interactions with Thiol Species
4	Virginia B	53	Jasmine	Carson	North Carolina A&T State University	Exploring the Vulnerabilities and Prevention of Raspberry Pi System
1	Park Tower Suite 8228	34	Jose	Castellon	California State University Los Angeles	Investigation of Ionic Interactions Between Calcium Carbonate and Engineered Antifreeze Proteins
2	Virginia C	112	Jorge L.	Castro-Torres	University of Puerto Rico, Mayagüez	Design of a Miniature Magnetic Field Generator for Magnetic Fluid Hyperthermia Applications
2	Park Tower Suite 8228	41	Jasmine T.	Collins	Jackson State University	Molecular Similarity-Based Identification of a Non-Covalent and Antitrypanosomal Inhibitor of Cysteine Protease Rhodospirillum rubrum
2	Virginia C	117	Michael	Conward	Rensselaer Polytechnic Institute	Machining Characteristics of the Haversian and Plexiform Components of Bovine Cortical Bone
2	Virginia A	11	Hasahn	Conway	Xavier University of LA	Inhibition of CDK9 Reduces Pathological Angiogenesis Induced by the Kaposi's Sarcoma Herpesvirus G-protein Coupled Receptor

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2	Park Tower Suite 8228	42	Christopher	Copeland	Jackson State University	Nature of pi-Stacking Interactions of Aromatic Nitro Compound Derivatives
1	Park Tower Suite 8228	35	Rosa L.	Cromartie	Florida International University	Rapid and Reliable Validation of Body Fluids Using Paper Microfluidic Device Chips
3	Virginia A	22	Daniel	Cueva	New Mexico Highlands University	A Taxonomic Analysis of the Eunectes Complex: Determining the Species Validity of <i>E. beniensis</i> & <i>E. deschaunseei</i> Utilizing a Molecular Comparative Approach, Including Contemporary Neotropical Boids
3	Virginia C	131	Krystal	Cunningham	University of California, Los Angeles	Characterization Techniques Used in the Forensic Analysis of a Metal Art Object
3	Virginia C	132	Erica	Dasi	University of Maryland, Baltimore County	Use of Laterite-Alumina Composite as a Sustainable Means of Fluoride Removal from Drinking Water
3	Park Tower Suite 8201	67	Ke Aira	Davis	Alabama A&M University	Phenotypic Correlations Among Traits within the Chinese Fir Tree
2	Park Tower Suite 8228	43	Iris	Denmark	Jackson State University	Speciation Analysis of Methyl Mercury and Inorganic Mercury in Contaminated Top Soils from Oakridge Tennessee by ICPMS
3	Park Tower Suite 8205	110	Lauren	Distler	University of New Mexico	Potable Water Reuse in the Arid Southwest: The Effect of Educational Strategies on Public Acceptance
3	Park Tower Suite 8212	79	Aiesha L.	Ethridge	Tuskegee University	Multifunctional Methods to Synthesize Metallic Nanoparticles and Their Antimicrobial Properties
4	Park Tower Suite 8212	87	Monique	Farrell	Norfolk State University	Visual Detection of Denatured Proteins and Peptides: A Facile Method to Visibly Detect Heat Stressed Biomolecules
1	Park Tower Suite 8228	49	Victor	Fernandez-Alos	University of Puerto Rico-Mayaguez	Oxidative Cleavage of Sodium-Oleate Coating on the Magnetite Nanoparticle Surface
1	Park Tower Suite 8228	50	Bethzaely	Fernandez-Reyes	University of Puerto Rico Mayaguez Campus	Imprinted Zeolite Carbon Composites for the Removal of Contaminants of Emerging Concern from Water

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4	Park Tower Suite 8201	71	Matthew	Fiala	Texas Southern University	Contribution of Pavement Source Materials on Trace Metals in Road Dust
1	Virginia A	26	Sheree J.	Finley	Alabama State University	New Insights into the Role of Human Cadaver Thanatomicrobiome Signatures and Cause of Death
3	Park Tower Suite 8205	106	Vishanya	Forbes	Savannah State University	Transportation and Social Equity as a Way to Alleviate Poverty: The Case of Low-Income Neighborhoods in Savannah, GA
1	Virginia C	129	Lucien	Gassie	University of Miami	Mineralizing Urban Net-Zero Water Treatment: Field Results and Design Recommendations
2	Virginia C	118	Hector	Gomez	California State University, Los Angeles	Parametric Analysis of Laminar Flow-Based Wavy Channel Fuel Cells
1	Virginia C	125	Benjamin	Grisafe	University of Notre Dame	Demonstration of a Hybrid Phase Transition-FET Using a 2D MoS2 Transistor
1	Park Tower Suite 8228	52	Devin M.	Guilloory	Jackson State University	Synthesis of Hybrid Iron-Polydopamine Nanoparticles for Imaging-Guided Photothermal Therapy on Cancer Cells
3	Virginia A	23	Thomas	Hahn	University of Arkansas at Little Rock	Vacuolar, Autophagic and Metabolic Changes Play Key Roles in the Progression of the Aging Process
3	Delaware B	89	Daniel	Hart	Hampton University	Time-Resolved and Steady-State Emission Properties of Dysprosium-Doped Lead Halide Based Crystals for Development of Mid-Infrared Gain Media
3	Virginia A	1	Joshua	Haynes	Fisk University	Understanding the Molecular Basis of Manganese Binding by Calprotectin
3	Park Tower Suite 8201	63	Elizabeth	Hedrick	Lincoln University	Acoustic Monitoring of Seasonal Diversity Trends in Pollinator Communities
3	Park Tower Suite 8212	80	Vincent	Hembrick-Holloman	Tuskegee University	Conversion of Egg Shell and Seashell Waste into a Valuable Nanobiomaterial for Tissue Engineering

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3	Virginia A	28	Terrell	Hilliard	Alabama State University	In Vitro Wound Healing Model using PLGA
1	Virginia A	30	Ahmed	Hoda	California State University, Los Angeles	Identification of Withania Somnifera Active Constituents on GABARho Receptors
2	Virginia C	119	Arndreya	Howard	Prairie View A&M University	Air Quality Measurement of Poultry Farms
2	Virginia A	12	Audra	Huffmeyer	University of California, Los Angeles	Single Cell Gene Expression of Abnormal and Normal Sperm in the Domestic Cat
3	Virginia C	133	Chemar J.	Huntley	Tuskegee University	The Effect of Functionalized Cellulose on the Thermal and Mechanical Properties of ABS - and HIPS - Reinforced Blends
4	Virginia B	54	Alexander	Ing	California State University Dominguez Hills	Policy-Aware, Energy-Efficient Middlebox Placement in SDN-Enabled Data Centers
1	Park Tower Suite 8228	37	Israt	Jahan	Tuskegee University	Synthesis and Application of Amino-Acid Condensed $\delta$ -Lactams
3	Park Tower Suite 8201	65	Corliss	Johnson	North Carolina Central University	Titanium and Carbon Nanotubes (CNTs) as Nanomaterial Behavioral Markers: Impacts of Environmental Conditions
3	Park Tower Suite 8205	107	Katherine A.	Johnson	Tennessee State University	Career Intervention Effects on Agricultural Students' Career Development at an HBCU
4	Park Tower Suite 8201	68	Andre	Jones	North Carolina Central University	Deriving Optical Properties of Urban Aerosols in North Carolina
3	Virginia A	20	Christopher	Jones	Tennessee State University	An Efficient Method for Validating Protein Models Using Electron Microscopy Data
1	Virginia A	4	Mikala D.	Jones	Jackson State University	Importance of Macrophage-Fibroblast Interactions in Chronic Inflammation Using a Mouse Tumor Model

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2	Virginia A	13	Deidra	Jordan	Florida International University	F-108 Polymer and CE-SSCP to Screen Human DNA Mixtures Containing Loci D16S539, VWA, and D7S820
2	Virginia A	14	Djene	Keita	Texas Southern University	The Effect of Triclosan on Signaling Pathways Involved in Inflammation
4	Park Tower Suite 8201	69	Shruti	Lakkaraju	Texas Southern University	Impact of Environmental and Land Cover Changes on the Water Quality Characteristics of East Tennessee Watershed
1	Virginia C	126	Tam	Le	University of the District of Columbia	Analyzing Data Set Classification for Machine Learning Based on ENN Classification Method
3	Virginia C	101	Harold	Lee	Norfolk State University	Proton Irradiation of Conjugated Polymer Thin Films
2	Virginia C	120	Kin	Li	California State University, Los Angeles	Application of Fractional Calculus in Complex Systems
3	Delaware B	90	Kristopher	Liggins	Alabama A&M University	Fabrication and Characterization of Solid State White Light Emitters
1	Virginia C	139	Shaojie	Liu	Texas Southern University	Vehicle Deceleration and Acceleration Distance Impacts to Emission Encountering Stop Sign
4	Park Tower Suite 8212	86	John E.	López Calero	University of Puerto Rico, Mayagüez, PR	Synthesis and Characterization of Chitosan/TiO <sub>2</sub> as a Biocide Composite
3	Park Tower Suite 8212	81	Lewis	Lott	Delaware State University	Synthesis and Characterization of Nanodiamonds Functionalized with Amine and Carboxyl Groups for the Application of Intracellular Drug Delivery
4	Virginia B	55	Tao	Lv	Texas Southern University	Optimization of Secondary User's Performance in Cognitive Radio Network with On and Off Status
1	Park Tower Suite 8228	51	Abniel	Machín-De Jesús	Universidad del Turabo	Photocatalytic Hydrogen Production by Water Splitting Using Au@ZnO-Graphene Catalysts

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2	Virginia A	15	Michael	Marty-Rivera	University of Puerto Rico Rio Piedras Campus	Coral Bleaching at the Microscopic Scale: Reactive Oxygen Species are not Acting Alone
3	Virginia A	2	Grace R.	Mavodza	Howard University	Structural Differences Associated with DNA Binding of p53 Family Member Proteins
3	Virginia C	134	Shatori	Meadows	Tuskegee University	Optimization and Control Studies on the Synthesis and Characterization of Epoxidized Soybean Oil (ESO)
2	Park Tower Suite 8228	44	Marco S.	Messina	University of California, Los Angeles	Visible Light-Induced Olefin Activation using 3D Aromatic Boron-Rich Cluster Photooxidants
2	Virginia A	16	Matilde	Miranda	University of California, Los Angeles	Untangling the Role of G-protein-coupled Receptor Signaling and CREB in Follicular Homeostasis
4	Virginia A	102	Gina	Montes-Albino	University of Puerto Rico Mayaguez Campus	Engaging Hispanic Youth into STEM Using Nanotechnology and Large-Scale Scientific Models
1	Virginia A	5	Jaz'mon	Moore	Jackson State University	Sulforaphane Protects Cardiac Cells from Doxorubicin-toxicity without Inhibiting Anti-cancer Activity
3	Park Tower Suite 8212	82	Quentarius	Moore	Jackson State University	Binding Study of SWCNT/Porphyrin Nanomaterial: Under the Microscope of Density Functional Theory
2	Park Tower Suite 8228	45	Sulihat	Mudasiru	Texas A&M University - Commerce	Enantioselective Recognition of Chiral Porphyrins Diamino-1, 1-Binaphthalene Hybrids
2	Virginia C	121	Alejandro	Najera-Acosta	New Mexico State University	Designing an Assembly Base and Pen-Funnel in Cellular Manufacturing: An Axiomatic Approach
1	Virginia C	113	Sana	Nasim	Florida International University	Side Specific Flow Patterns in Normal Aortic Valve
4	Virginia A	98	Linda	Nicholas-Figueroa	University of Alaska Fairbanks	Illisagvik Tribal College's Summer Climate Program: Teaching STEM Concepts to North Slope Alaska High School and Middle School Students



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3	Virginia C	114	Joseph K.	Nuamah	North Carolina Agricultural and Technical State University	Classification of Cognitive Tasks using Artificial Neural Networks and Support Vector Machines
3	Virginia C	135	Emmanuel	Ogbole	North Carolina Agricultural and Technical State University	Gas Permeability/Selectivity Studies Through Surface-Treated SiO <sub>2</sub> -PDMS (Polydimethylsiloxane) Nanocomposite Membranes
4	Virginia A	99	Angel U.	Ortega	The University of Texas at El Paso	Sol y Agua Project: Developing a Culturally-Relevant Educational Game with a Theme of Water Sustainability
2	Park Tower Suite 8228	48	Krisiam	Ortiz-Martínez	University of Puerto Rico - Mayaguez Campus	Fixed-Bed Adsorption of Emerging Contaminants from Water using Transition Metal Based SBA-15
4	Virginia A	47	Emily	Oshita	North Carolina State University	Studio Classroom as a Student-Centered Active Learning Environment at Fayetteville State University
1	Virginia A	27	Shu	Pan	University of Wisconsin-Madison	Modeling and High-throughput Experiments for Direct Identification of Gene Functions
1	Virginia A	6	Swetha	Parvathaneni	Howard University	Novel Function of RECQ1 in Mediating Cellular Response to Gemcitabine Treatment in Triple Negative Breast Cancer
2	Virginia A	17	Casey M.	Paton	Fisk University	Evaluating Contributions of DAT-1 and FKH-8 to Dopaminergic Neuron Degeneration through Oxidative Stress
3	Virginia C	136	Vertonica	Powell-Rose	Tuskegee University	Investigation in the Thermal, Mechanical and Degradation Properties of Surface Modified Woven Flax Fiber Reinforced Nanoclay Infused Epoxy Composite
3	Park Tower Suite 8212	83	Tejaswini	Ronur Praful	Norfolk State University	Synthesis and Characterization of Nanocellulose from Cotton Fibers
3	Virginia A	32	Philip M.	Roveto	University of New Mexico	Effects of Aeration-Based Shear Force on Mature Steady-State Nitrifying Biofilms Grown on Designed 3DP Surfaces
3	Park Tower Suite 8205	103	Cornelia	Santos	University of Colorado Denver	Building and Modeling Resilience in Indian Country: Using Navigators and a Hybrid of Traditional Native Medicine and Western Medicine in Addressing Cancer Care

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2	Park Tower Suite 8228	46	Genefine L.	Sapateh	Clark Atlanta University	Electroactive Polymeric Nanofibers as Active Component in Biosensors
3	Park Tower Suite 8205	108	David W.	Shelton	Tennessee State University	The Roles of Self-efficacy, Interests, and Expectations in Predicting Career Persistence for Undergraduate African American Biology Majors
3	Delaware B	95	Pavel	Shibayev	Rutgers University	Quest for High-temperature Superconductivity in Thin Films of FeSe Grown on SrTiO <sub>3</sub>
3	Park Tower Suite 8201	60	Michael Quincy	Shivers	Jackson State University	Anticancer Activity of Medicinal Plant Against Neuroglioma
2	Virginia A	18	Joshua	Silva	California State University Los Angeles	Glioma Cell Proliferation Promoted by AK4 Regulated mTORC1 Pathway Activation
4	Virginia B	56	Aaron	Smith	Norfolk State University	Using Network Security Visualization to Improve Student and Spectator Engagement at Cyber Exercise Events
4	Virginia A	21	Freddie	Smith	Morgan State University	Impacts of the Concept Mapping Strategy in Introductory Biology Courses on Learning and Retention of Underrepresented STEM Students
4	Park Tower Suite 8218	74	Paris	Smith	Jackson State University	Prediction of Epidemic Outbreaks by Aggregation of Epidemic Outbreaks and Disease Control Through Social Media Real-time Data Collection
2	Virginia C	130	Maria G.	Solano	New Mexico State University	Slaughtering Process Analysis, Standardization and Optimization of an Organic Slaughter House Facility
3	Virginia A	24	Bethanie-Michelle	Statler	University of Illinois at Chicago	Effect of SUMOylation on Transcriptional Repression by the T-box Transcription Factor TBX-2
3	Park Tower Suite 8201	66	Melisa	Stewart	Prairie View A&M University	Post Combustion Carbon Capture Using Polyethylenimine (PEI) Functionalized Titanate Nanotubes
4	Virginia B	57	James	Stigall	Bowie State University	Mobile Augmented Reality Application (MARA) for Building Evacuation

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3	Delaware B	96	Zheng	Sun	City University of New York	Exciton Polaritons in Two-Dimensional Atomic Crystal in Micro-Cavity
1	Virginia C	127	Latha	Suryavanshi Mahadeva Rao	Morgan State University	Z-Wave Home Automation Security Vulnerabilities
3	Virginia A	29	Kendra	Swain	Alabama State University	Evaluation of Synthesized Quantum Dots in Biological Systems
4	Park Tower Suite 8212	84	Farooq	Syed	Tuskegee University	Functionalized Single-Walled Carbon Nanotube Added Epon 862 Nanocomposites: Investigating the Crosslinking Behaviour and Interfacial Properties Through Molecular Dynamics Simulations
4	Virginia B	58	Wai Yan Elsa	Tai	University of Texas at El Paso	Accelerating, Connecting, and Evaluating Student Success
4	Virginia B	59	Jesus	Tellez	University of Texas at El Paso	Sol y Agua: Augmenting Learning through Interactive and Immersive Experiences
3	Park Tower Suite 8205	109	Fernando	Tormos	Purdue University	Staying Alive: The Power of Inclusion in Transnational Social Movements
4	Park Tower Suite 8201	72	Ranalda L.	Tsosie	University of Montana	Selective Removal of Uranium and Arsenic from Contaminated Groundwater using Silica Polyamine Composites
3	Delaware B	97	Keith A.	Tukes Jr.	Hampton University	LIBS Plasma Temperature for Cu & K-Based Samples Under Pulsed Laser Excitation at 1.06 $\mu\text{m}$ and 1.57 $\mu\text{m}$
4	Park Tower Suite 8212	88	Prathima Prabhu	Tumkur	Norfolk State University	Studies to Investigate the Biomarkers in Mouse Lung Exposed to Single Wall Carbon Nanotubes
3	Delaware B	91	Samuel	Uba	Alabama A&M University	High-performance Detectors Used in the Detection of Ionizing Radiation
1	Park Tower Suite 8228	36	Rebecca	Vargas	California State University, Los Angeles	Exploring the Role of AFPs from Cold-adapted Beetles on Thermal Inhibition of Enzymes

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2	Virginia A	19	Laura	Vicente-Rodríguez	University of Puerto Rico, Medical Sciences Campus	Characterization of a FMRFamide-gated Channel from <i>Biomphalaria glabrata</i> , an Intermediate Host for Schistosomiasis
4	Park Tower Suite 8212	85	Donald	White	Tuskegee University	A Facile Method of Dispersing CNF's via VS-I within a Polymer Matrix
2	Virginia C	122	Shunafrika	White	North Carolina Agricultural & Technical State University	Designing a Low-Cost Educational Robotic Arm
3	Park Tower Suite 8201	64	Ashley	Williams	Alcorn State University	Mycobiome of Bioenergy Grasses: Case-study of Dark Septate Endophytes in Giant Miscanthus and Switchgrass
1	Virginia A	7	Charmonix	Williams	Jackson State University	Tumor Regression Via Over Expression of Transcriptional Factor Foxo3a in Glioblastoma U 87 Cell Line
3	Virginia C	137	Christina	Young	Tuskegee University	Comprehensive Spectroscopic and Mechanical Analysis of Epoxidized Soybean Oil
3	Delaware B	92	Long	Yuan	Purdue University	Enhancing PhotocARRIER Generation at WS2-Graphene Interfaces by Interlayer Coupling