NANO KOREA 2026 Conference Young Scientist Awards Winners

Presentation Code	Name of Awards	Prize	TITLE	AFFILIATION	AUTHOR
TS01F6_O_5	Young Scientist Awards **(Gold)**	KRW 500,000	CMOS-Integrated Nanoscale MoS_2 Memristors with Low-Voltage Operation	1RWTH Aachen University, 2Forschungszentrum Jülich GmbH, 3AMO GmbH, 4AIXTRON SE	J. Lee1, S. Cruces1, X. Liu2, Y. Chen2, V. A. Maroufidis1, J. Jo2, L. Völkel1, D. Braun1, M. Möller3, L. Brackmann1, H. Kalisch1, M. Heuken1,4, A. Vescan1, R. E. Dunin-Borkowski2, J. Mayer1,2, S. Wiefels2, and M. C. Lemme1,3
TS02W1_O_2	Young Scientist Awards **(Gold)**	KRW 500,000	AI-Assisted Seed Screening: High-Throughput Multi-Target Detection Using Flexible SERS	Korea University	Minki Kim and Junseong Ahn
TS03F7_O_1	Young Scientist Awards **(Gold)**	KRW 500,000	Wafer-Scale Fabrication of Low-Loss Dielectric Metamirrors for Ultra-High-Resolution Microdisplays	1Korea Institute of Machinery & Materials, 2Hanyang University, 3Kyungpook National University	Yoonjeong Lee1,2, Eui-Soo Cho3, Yunji Eom1, Namyoung Gwak1, Geehong Kim1, Soongeun Kwon1, Hyungjun Lim1, Seung-Yeol Lee3, and Hak-Jong Choi1
TS04T5_O_5	Young Scientist Awards **(Gold)**	KRW 500,000	Disordered Plasmonic Nanocavity for Entropy Embedded Structural Color	Gwangju Institute of Science and Technology	Gyurin Kim, Jiyeong Ma, and Hyeon-Ho Jeong
TS05W2_O_4	Young Scientist Awards **(Gold)**	KRW 500,000	Engineering 2D Janus Materials: Deterministic Conversion of $PtSe_2$ to Janus PtSSe and PtS_2 via Temperature-Controlled Remote Plasma Treatment	1Korea Institute of Science and Technology, 2Sungkyunkwan University, 3Korea Advanced Institute of Science and Technology, 4Seoul National University, 5Sejong University, 6Gwangju Institute of Science and Technology, 7Jeonbuk National University, 8University of Illinois at Urbana-Champaign, 9Pohang University of Science and Technology, 10Texas A&M University, 11Chung-Ang University, 12University of Science and Technology	Dong-Hyun Kim1,2, Byung Joon Moon1, Minseung Gyeon3, Yuseok Kim3, Jinwoo Kim4, Dongchul Sung5, Minji Park1,6, Daekwon Lee7, Sooyeon Ra1,7, Gillian Nolan8, Han-Koo Lee9, Min Ji Im1, Unseok Jung1, Yunjo Jeong10, Changheon Kim1,4, Jimin Jang4, Seok-ki Hyeong1, Taesung Kim2, Sang Kyu Park1, Sangmin An7, Jaehyung Yu11, Hunsu Lee1, Suklyun Hong5, Pinshane Y. Huang8, Sanghan Lee6, Gwan-Hyoung Lee4, Kibum Kang3, Heesuk Rho7, Sukang Bae1, Changgu Lee2, and Jangyup Son1,12

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TS06T5_O_4	Young Scientist Awards **(Gold)**	KRW 500,000	Label-Free Near-Infrared Image Cytometry for Biophysicochemical Profiling and Carotenoid Heterogeneity Analysis in Microalgae	Sungkyunkwan University	Seongcheol Park and Sooyeon Cho
TS07W1_O_3	Young Scientist Awards **(Gold)**	KRW 500,000	Triggered-Degradable Design for Sustainable Transient Aqueous Zinc-Ion Batteries via Cellulose-Derived Polymer Engineering	1Korea Institute of Machinery & Materials, 2Kyungpook National University, 3S-CHEM	Yunseon Jang1,2, Hye-Mi So1, Seungmin Hyun1, Areum Kim1, Minsub Oh1, Hyunho Ha3, Jin Young Lee1, and Soo-Hwan Jeong2
TS08T3_O_5	Young Scientist Awards **(Gold)**	KRW 500,000	Development of Cathode Catalysts for Direct Ammonia Fuel Cells	Chungnam National University	Hun Kim, Yunjin Kim, Keonwoo Ko, Sourabh S. Chougule, Abhishek A. Chavan, Hyelim Park, Jaemin Kim, Yeongeun Im, Wonhong Choi, and Namgee Jung
TS09T4_O_2	Young Scientist Awards **(Gold)**	KRW 500,000	Smartphone-Based Wearable Transdermal Drug Delivery System	Sogang University	Tae Hyeon Kim, Sang Hun Lee, Jae Wook Song, Na Yeon Kim, and Bong Geun Chung
TS10F6_O_1	Young Scientist Awards **(Gold)**	KRW 500,000	Chemical Patterning of Mannan for Pattern Recognition Receptor - Mediated Macrophage Reprogramming in Cancer Immunotherapy and Tissue Regeneration	Inha University	Juwon Baig, Yubin Kim, and Sejin Son
TS11T4_O_4	Young Scientist Awards **(Gold)**	KRW 500,000	Moiré Pattern Vision-Based Tactile Sensor: A Robust Solution for Multidirectional Force Detection and Object Recognition	1Korea Advanced Institute of Science and Technology, 2Kyungpook National University	Gandha Satria Adi1, Yongrok Jeong2, and Inkyu Park1
TS12F7_O_4	Young Scientist Awards **(Gold)**	KRW 500,000	Influence of Cationic Charge Density in Ionomers on Interfacial Water and Reaction Intermediates during Electrochemical CO2 Conversion	1Korea Institute of Science and Technology, 2Sungkyunkwan University	Young In Song1,2, Jung Kyu Kim2, and Jai Hyun Koh1
TS13F7_O_2	Young Scientist Awards **(Gold)**	KRW 500,000	Solomon: Toward an AI Co-Scientist for Battery Materials	1Seoul National University, 2Korea Institute for Advanced Study	Jisu Kim1, Hyunsung Cho1, Haekwan Jeon1, Euitae Lee1, Seyong Im1, and Seungwu Han1,2

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TS14W2_O_3	Young Scientist Awards **(Gold)**	KRW 500,000	Advancing spICP-TOF-MS Performance for Synthetic and Biological Nanocolloids via Isotope Ratio Filtering	Hanyang University	Minseop Kim, Seung Min Ha, Yewon Han, and Tae Hyun Yoon
TS01W1_O_4	Young Scientist Awards **(Silver)**	KRW 300,000	Large-Scale Integration of Monolayer Polarity-Reconfigurable Devices for Multifunctional Logic and Optoelectronic Systems	Sungkyunkwan University	Minh Chien Nguyen and Woo Jong Yu
TS04T4_O_4	Young Scientist Awards **(Silver)**	KRW 300,000	Three-Dimensional Visual Perception in Artificial Compound Eye Cameras	1Korea Advanced Institute of Science and Technology, 2Gwangju Institute of Science and Technology	Sehui Chang1,2, Jinyoung Jang1, and Young Min Song1,2
TS05W2_O_3	Young Scientist Awards **(Silver)**	KRW 300,000	Phase Controlled Growth of Single Crystal Multilayer Transition Metal Dichalcogenides	1Institute for Basic Science, 2Pohang University of Science and Technology	Taejoon Mo1,2, Gunwoo yoo1,2, Dong-yeong Kim1,2, Yosub Choi1,2, and Cheol-joo Kim1,2
TS06F7_O_2	Young Scientist Awards **(Silver)**	KRW 300,000	Nanocarrier-Based Delivery Strategies for Enhancing Plant Pathogen Resistance	National University of Singapore	Suppanat Puangpathumanond, Shen Di, and Tedrick Thomas Salim Lew
TS07W2_O_9	Young Scientist Awards **(Silver)**	KRW 300,000	PTFE Fibrillation Mechanisms in Solvent-Free Li-Ion Battery Cathode Powder	Seoul National University	Eunheui Gwag and So Youn Kim
TS08W2_O_6	Young Scientist Awards **(Silver)**	KRW 300,000	Leveraging Machine Learning and Active Motifs-Based Catalyst Design for Discovery of Oxygen Reduction Electrocatalysts for Hydrogen Peroxide Production	1Korea University, 2Sogang University, 3Simon Fraser University	Gwonho Yu1, Dong Hyeon Mok2, Ho Yeon Jang2, Hyun Dong Jung2, Samira Siahrostami3, and Seoin Back1
TS10F7_O_2	Young Scientist Awards **(Silver)**	KRW 300,000	Synergistic Modulation of Intestinal Microenvironment via Butyrate Delivery and Nitric Oxide Scavenging for IBD Therapy	Pohang University of Science and Technology	Jieun Kim and Won Jong Kim
TS11F7_O_3	Young Scientist Awards **(Silver)**	KRW 300,000	Intelligent Mattress System with Multimodal Sensors for Pressure Injury Prevention	Changwon National University	Hyunsu Jang, Nam Hyeong Lee, Gyu Tae Lee, and Yong Suk Oh

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TS13F6_O_5	Young Scientist Awards **(Silver)**	KRW 300,000	Unlocking the Li7M3X2O12 Garnet Electrolyte Landscape with Universal Machine Learning Interatomic Potentials	1Korea Institute of Science and Technology, 2Korea Advanced Institute of Science and Technology, 3KU-KIST	Mingyu Jeon1, Donghun Kim2, and Jung-Hoon Lee1,3
TS01W1_O_6	Young Scientist Awards **(Bronze)**	KRW 100,000	Screen-Gate Based Organic Transistors for Adaptive Sigmoid and Gaussian Activation Functions	Hanyang University	Youngmin Han, Junhyung Cho, Won Woo Lee, and Hocheon Yoo
TS05T4_O_2	Young Scientist Awards **(Bronze)**	KRW 100,000	Plasma-Assisted Polymorphic Phase Engineering for Low-Resistance Contacts in 2D TMDs	1University of Seoul, 2Korea Aerospace University, 3Jeonbuk National University, 4Sungkyunkwan University	Ji Won Heo1, Gwang-Seok Chae2, Gyeong Deok Seo1, Dong Hyun Seo1, Gi Dan Shim1, Han-Woong Choi1, Jin-Hoo Seong2, Jae-Heon Lee2, Hagyoul Bae3, Sungjune Park4, Hyo-Change Lee2, and TaeWan Kim1
TS06W2_O_7	Young Scientist Awards **(Bronze)**	KRW 100,000	Two-Dimensional Template-Assisted Conversion for Ultrathin Indium Oxide for a Single-Platform-Based near-Sensor Computing	Yonsei University	Jinhong Min, Gwang Ya Kim, and Joohoon Kang
TS07T3_O_6	Young Scientist Awards **(Bronze)**	KRW 100,000	Air-Gapped Reflectors for Performance Enhancement of Zero-Gap Thermophotovoltaic and Thermophotonic Energy Conversion	Korea Advanced Institute of Science and Technology	Minwoo Choi, Wang Xin, and Bong Jae Lee
TS11F6_O_3	Young Scientist Awards **(Bronze)**	KRW 100,000	Effect of DLC Thin Films and Various Surface Pattern Geometries on Tribological Property Enhancement	Changwon National University	Tae Hwan Jang, Seong Ju Lee, Go Eun Choi, Sangwon Kim, and Yong Suk Oh