

Program of Session F

Growth at the Nanoscale: Nanocrystals, Nanowires, Nanomaterials

F1: August 4 (Monday), 14:00-15:30

Room: 308

Chair: Hongqiang Wang

14:00-14:23	F01 (Invited) Controlled Growth of Structurally Integrated 3D Carbon Tube Grid Electrodes for Miniaturized Line-Filtering Capacitors Guowen Meng, Institute of solid state Physics, Hefei Institutes of Physical Science, CAS, CHINA
14:23-14:45	F02 (Invited) Laser Derived Nanocrystals for Perovskite Photovoltaics Hongqiang Wang, Northwestern Polytechnical University, CHINA
14:45-15:00	F03 (Oral) III-N heterostructures in nanowires: synthesis, growth mechanisms and properties Vladislav Olegovich Gridchin, Alferov University, RUSSIA
15:00-15:15	F04 (Oral) MOVPE growth of GaAs-GaNAs core-shell nanowires for intermediate-band nanowire solar cells Lucia Garzia, University of Salento, ITALY
15:15-15:30	F05 (Oral) Effect of DNA base sequence on the crystal growth of DNA- functionalized nanoparticles Shoko Kojima, Nagoya University, JAPAN

F2: August 4 (Monday), 16:00-16:38

Room: 308

Chair: Jinmeng Zhu

16:00-16:23	F06 (Invited) III-V core-(multi)shell nanowires arrays for photonics and photovoltaics: insights of their MOVPE growth and nanoscale properties Paola Prete, University of Salento, ITALY
16:23-16:38	F07 (Oral) Locking organic solvents by crystallization-induced polymer network Jinmeng Zhu, Northwestern Polytechnical University, CHINA

F3: August 5 (Tuesday), 11:00-11:46

Room: 308

Chair: Xuanhua Li

11:00-11:23	F08 (Invited) Photocatalytic water splitting: catalysts, reaction system, and multifunctional devices Xuanhua Li, Northwestern Polytechnical University, CHINA
11:23-11:46	F09 (Invited) Confined electrocatalytic materials toward catalytic conversion of energy small molecules Zhen Zhang, Northwestern Polytechnical University, CHINA

F4: August 5 (Tuesday), 14:00-15:15

Room: 308

Chair: Liaoyong Wen

14:00-14:23	F10 (Invited) Multiscale nanomaterials fabrication via aluminum-based 3D lithography Liaoyong Wen, Westlake University, CHINA
14:23-14:45	F11 (Invited) Droplet Epitaxy Quantum Nanostructures Stefano Sanguinetti, University of Milano-Bicocca, ITALY
14:45-15:00	F12 (Oral) Hydrothermal growth of SnO ₂ nanocrystals for gas sensor applications Junning Gao, South China University of Technology, CHINA
15:00-15:15	F13 (Oral) GaAs nanowires growth with lead catalyst Nikolai Vi Sibirev, Saint-Petersburg State University, RUSSIA

F5: August 5 (Tuesday), 16:00-17:01

Room: 308

Chair: Zhen Zhang

16:00-16:23	F14(Invited) Plasma-assisted MBE growth and properties of GaN nanowires on metallic ZrN buffer layers Marta Sobanska, Institute of Physics, Polish Academy of Sciences, POLAND
16:23-16:46	F15 (Invited) Excitation-encoded tri-mode upconversion nanocrystal solid sensors for single-droplet multiplexed detection Shuwei Hao, Harbin Institute of Technology, CHINA
16:46-17:01	F16 (Oral) Tuning the morphology and structure of In-rich InGaN nanocolumns for biomedical application Stefano Sanguinetti, University of Milano-Bicocca, ITALY