

Symposia - E01
Multifunctional Materials and Metamaterials

October 15 (Sunday), 2023

Conference Room: 5th hall, room 1

9:00-10:30 Session I

Chair: Huaxin Peng, Runhua Fan

9:00-9:20 (E01-01)

Emerging Zinc Anode-Based Electrochromic Devices (Invited)

Haizeng Li, Shandong University, China

9:20-9:40 (E01-02)

Inhomogeneous Dielectric Composites for Capacitive Energy Storage (Invited)

ZhiCheng Shi, Ocean University of China, China

9:40-10:00 (E01-03)

Dielectric synergies and regulation of negative dielectric properties of MXene-based two-dimensional negative mediators (Invited)

Peitao Xie, Qingdao University, China

10:00-10:10 (E01-04)

Accurate identification of upconversion-emitting phase in MoO₃/Yb₂Mo₄O₁₅/NiMoO₄ micro-nano composite via single particle imaging and density functional theory calculations (Oral)

Bina, Sun Moon University, Republic of Korea

10:10-10:20 (E01-05)

Predication of optical properties in particulate media using double optimization of dependent scattering and particle distribution (Oral)

Hongchao Li, Shanghai Jiaotong University, China

10:20-10:30 (E01-06)

Design, synthesis and characterization of ZrO₂ micro-nanospheres for radiative cooling coating with high reflectance and emittance (Oral)

Hao Gong, Shanghai Jiaotong University, China

10:30-10:50 Coffee Break

10:50-12:00 Session II

Chair: Zhicheng Shi, Yuan Yuan

10:50-11:10 (E01-07)

Electromagnetic metamaterial with ultra-wide angle-stability and applications (Invited)

Zidong Zhang, Shandong University, China

11:10-11:30 (E01-08)

Epsilon-near-zero materials at radio frequency (Invited)

Kai Sun, Shanghai Maritime University, China

11:30-11:40 (E01-09)

Reorientation Mechanisms of Graphene Coated Copper {001} Surfaces (Oral)

Songsong Yao, Shanghai Jiaotong University, China

11:40-11:50 (E01-10)

Bioinspired Photonic Microchip with Molecularly Imprinted Polymer for Single Recognition of c-Myc Protein in Predictive Medical Diagnostics (Oral)

Jun Xu, Shanghai Jiaotong University, China

11:50-12:00 (E01-11)

Electrical Applications of Epsilon-negative Materials Based on Percolation Behavior (Oral)

Pengtao Yang, Shanghai Maritime University, China

12:00-14:00 Lunch

14:00-15:00 Session III

Chair: Zhongyang Wang, Kai Sun

14:00-14:20 (E01-12)

Non-contact characterization of damage failure behavior of lattice structures (Invited)

Yuan Yuan, Shanghai Maritime University, China

14:20-14:40 (E01-13)

Tunable epsilon-negative and epsilon-near-zero response in Carbon/CCTO percolative metacomposites (Invited)

Yunpeng Qu, Guizhou University, China

14:40-14:50 (E01-14)

Iridescence in transmission: Light diffraction by sarcomeres in the transparent ghost catfish (Oral)

Tong An, Shanghai Jiaotong University, China

14:50-15:00 (E01-15)

Room-Temperature Wide-Gap Inorganic Materials with Excellent Plasticity (Oral)

Haoran Huang, Shanghai Jiaotong University, China