Scope
Institute of Pulsed Power Science is going to be changed as Institute of Industrial Nanomaterials this April and the symposium this time is arranged as the kick-off of the new organization. The symposium provides an opportunity to share the trends on the cutting edge of pulsed power research and nanomaterials such as 2D materials and nano-sheets, which are introduced by world’s distinguished researchers.

Program
Opening  9:55-
Session 1; Dynamic materials processing
10:00-10:50  Keynote lecture (through SKYPE)
Fabrication of graphene through pulsed discharge in water
Prof. Pengwan Chen, Beijing Institute of Technology, P.R. China

10:50-11:20  Invited lecture
Understanding the microstructure of explosively welded materials using numerical simulation
Prof. Ivan Bataev, Novosibirsk State Technical University, Russia

Session 2; Bioelectrics
11:30-12:00  Invited lecture
Primary biological impacts of pulsed electric fields and their applications to non-thermal food process
Prof. Sunao Katsuki, Kumamoto University

12:00-12:30  Invited lecture
Prospects and challenges of laser/ultrasound/shock-wave assisted nanoparticle/gene/drug delivery
Prof. Hamid Hosano, Kumamoto University

12:30-14:00  Lunch time
Session 3; Nano-sheet I
14:00-14:50 Keynote lecture
NanoEngineered Materials
Prof. Pulickel M. Ajayan, Rice University, USA

14:50-15:20 Invited lecture
Diverse applications of carbon materials
Prof. Kamal K. Kar, IIT-Kanpur, India

Session 4; Nano-sheet II
15:30-16:00 Invited lecture
Theoretical study of novel properties emerging in structure-controlled graphene
Prof. Hiroyuki Yokoi, Kumamoto University

16:00-16:30 Invited lecture
2D adlayer formation of water-insoluble nanographenes using "molecular container"
Prof. Soichiro Yoshimoto, Kumamoto University

16:30-17:00 Invited lecture
Self-assembled 2D MOF/COF nanosheet materials based on soft-solution process
Prof. Masashi Kunitake, Kumamoto University

17:00-17:30 Invited lecture
Preparation of oxynitride nanosheet for water splitting
Prof. Shintaro Ida, Kumamoto University

Closing 17:30-

Organized by Institute of Pulsed Power Science, Kumamoto University
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