Monday, 13 May 2019

Poster Session 1

Co-Chairs: Han-Yi Chen, Chia-Liang Sun

@4F Foyer
Poster set up 13:00-16:00
Poster presentation 16:00-18:00
Poster must be removed before 12:00, May 14

Monday, 13 May 2019

Poster Session 1

[P1-1] Laser-induced forward transfer of carbon nanomaterials / **Maxim Komlenok**

[P1-2] Molecular dynamics simulation of compression test of carbon onion nanoparticle / **Atsushi Hirata**

[P1-3] Growth monolayer $SnSe_2$ on Graphene using chemical vapor deposition method / **Tian-Hsin Wang**

[P1-4] Study of HPMC Composite Solution with Copper-Graphene Nanoparticles on Mechanical and Electrical Properties / **Kar-Peng Goh**

[P1-5] Synthesis of solvent-free conductive flexible cellulose carbon nanohorns sheet and its application as a water vapor sensor / **Karthik paneer selvam**

[P1-6] Electronic, Electrical and Magnetic Behavioural change of Si-NPs incorporated MWCNTs / **Sekhar Ray**

[P1-7] Study on High Efficiency Heat Transfer and Hydromechanical Wear Reduction Technology Based on MBCNTs Nanofluids / **Bai Mingjie**

[P1-8] The ethanol concentrations effect of KOH electrolyte to improve the electric double-layer capacitance based on CNTs supercapacitor / **JIAN-HONG YE**

[P1-9] Flexible laser-induced graphene nanoribbon field emitters / **Sankaran K. J.**

[P1-10] Wireless Near-Field Microwave Imaging Based On Charge State Switching Of NV Centers In Nanodiamonds / **Spencer Chuang**

[P1-11] Effect of material characteristics on the performance of monocrystal diamond radiation detectors / **Jinfeng Zhang**

[P1-12] Normally-off Herminated Diamond Field effect transistor with HfZrOx/Al_2O_3 Ferroelectric gate dielectrics / **Kai Su**

[P1-13] Direct bonging of diamond and Cu at room temperature for power devise application / **Jianbo Liang**

[P1-14] Improved homogeneity of diamond vertical SBDs: dislocation reduction to suppress the killer defects in type-IIb substrates / **Atsushi KOBAYASHI**

[P1-15] Master Stones and Color Grading of CVD Diamond / **Tzu-Hsiang Yen**

Poster Session 1
[P1-16] Crystallinity evaluation of single crystal diamond by forbidden reflection / **KAI KOUDA**
[P1-17] Surface modification of diamond for electronic property tuning / **Yuet Mun Gary Wan**
[P1-18] Study of nanoparticles influence on pre-implantation mammalian embryo: Perspective of embryonic quality through spectroscopy / **Micahella Sarmiento**
[P1-19] An Investigation on Manganese Distribution During the Fabrication of Manganese Embedded Nanodiamonds / **Bo-Rong Lin**
[P1-20] Nucleation of Diamond / **Evan Thomas**
[P1-21] Characterization of homoepitaxial diamond film on TiN-coated HPHT diamond substrate / **Kun-An Chiu**
[P1-22] Dielectric high power characterization of a F-passivated diamond disk surface for fusion applications / **Theo Scherer**
[P1-23] A comparison of the electron field emission properties of diamond films grow on different nanostructured silicon substrates / **Wen-Ching Shih**
[P1-24] Growth of diamond (111) surfaces by hot-filament CVD with trimethylphosphine addition / **Yuki Katamune**
[P1-25] Evaluation of the influence of hydrogen on phosphorus doped diamond by Raman spectroscopy / **Minori Matsuoka**
[P1-26] Evaluation of Damaged Layer Induced by Mechanical Polishing by Raman Spectroscopy / **Yuki Kawamata**
[P1-27] Decomposition and their structural change by heating on amorphous carbon films / **HIROKI AKASAKA**
[P1-28] Diamond Devices for Tritium Betavoltaic Batteries / **Sergey Maximenko**
[P1-29] Modification process of hydrogenated Si containing DLC films by soft X-ray irradiation / **Kazuhiro Kanda**
[P1-30] Relationship between structure and electrical conduction properties in hydrogenated amorphous carbon films / **Masashi Tomidokoro**

Poster Session 1
[P1-31] Fluorescent nanodiamonds with molecularly programmed interface for quantum sensing / **Petr Cigler**
[P1-32] Metal-insulator-metal-semiconductor (MIMS) field-effect transistors based on semiconductor diamond with controllable threshold voltages / **Meiyong Liao**
[P1-33] Towards fabrication of boron-doped diamond films at low temperatures / **Petr Ashcheulov**
[P1-34] Multi-modal nanodiamond drug-delivery platform for treating oncogene-specific hepatocellular carcinoma / **Mengjie Gu**
[P1-35] CVD grown nitrogen-vacancy centers in isotopically controlled diamond / **Christian Osterkamp**
[P1-36] Microwave cavity perturbation for non-contact electrical conductivity measurements of doped diamond films / **Jerome Cuenca**

Tuesday, 14 May 2019

Poster Session 2

Co-Chairs: Mario Hofmann, Chen-Hao Wang

@4F Foyer
Poster set up 13:00-15:45
Poster presentation 15:45-18:00
Poster must be removed before 12:00, May 15

Tuesday, 14 May 2019

Poster Session 2

[P2-1] Study on surface modification and heat dissipation of diamond microchannel heat sink / **Zhina Qi**

[P2-2] Nanodiamond composites; comparing detonation, high-pressure/ high-temperature, and CVD nanodiamonds within epoxy matrices / **Dominic Palubiski**

[P2-3] Atomic structures, mechanical, and tribological properties of B-doped ultrananocrystalline diamond/ nonhydrogenated amorphous carbon composite films deposited on cemented carbide / **Mohamed Egiza**

[P2-4] Simulation and experimental researches on the substrate temperature distribution of the HFCVD setup for mass-production of diamond coated milling tools / **Hua Wang**

[P2-5] Increased deposition rates of micro- and nanocrystalline diamond films during MWCVD growth in high power density conditions / **Vadim Sedov**

[P2-6] Research on Transmission Electron Microscopy (TEM) of Diamonds / **JOE YUAN**

[P2-7] Electronic Band Structure of Phosphorus Doped Single Crystal Diamond: Spin-Orbit Splitting of Donor Ground State / **Kirill Boldyrev**

[P2-8] Shallow boron doping of Singlecrystalline diamond by excimer laser irradiation / **Eslam Abubakr**

[P2-9] Enhancing or reducing oxidation resistance of CVD diamonds by doping technique / **Xinchang Wang**

[P2-10] In-situ IR Study of Boron-doped Diamond Electrode/Electrolyte Interface / **Naoki Kamoshida**

[P2-11] Control of Product Selectivity on Electrochemical Reduction of CO_2 Using Boron-Doped Diamond Electrode /**Mai Tomisaki**

[P2-12] Preparation of diamond-Ti composite as an anode material / **Weizhong Tang**

[P2-13] Structural, Electronic and Electrical Behaviour of TiO_2 - MWCNTs Nano-Composite Material / **Sekhar Ray**

Poster Session 2
[P2-14] Modification of carbon nanotubes as anode materials for microbial fuel cells / **Liu Yu-Chen**
[P2-15] Preparation of few-layer graphene-capped silicon nanostructures and their electron field emission properties / **Wen-Ching Shih**
[P2-16] Investigation of Photocatalytic CO_2 Reduction Reaction Performance by Controlling Oxygen Containing Functional Groups of Graphene Oxide. / **又中 張 (Yu-Chung Chang)**
[P2-17] A new model for the synthesis of graphite encapsulated nickel nanoparticles when using organic compounds in an arc-discharge system / **Mao-Hua Teng**
[P2-18] Intercalation at the graphene interface leads to the stable formation of thermodynamically unfavorable β-Cu_2S / **Shu Yu Huang**
[P2-19] High frequency electromechanical resonators based on strained graphene / **Ifan Hu**
[P2-20] Dendritic Polymers Modified Reduced Graphene Oxide Nanoplatelets with Ag Nanoparticle for Raman-Enhanced Detection / **Ting-Yu Liu**
[P2-21] In-situ and Green Synthesis of N-doped Graphene / **Yu-Chen Chang**
[P2-22] Fabrication Functional Graphene via High Temperature Carbonization of Biomaterials for Water Purification Applications / **Jeff Tsai**
[P2-23] Tuning of electronic and magnetic properties of multifunctional reduced-graphene-oxide/Fe_2O_3 nanocomposite for magnetic resonance imaging application / **Sekhar Ray**
[P2-24] High Capacity Organic Cathode Materials for Lithium Batteries / **Bang-Hung Tsao**
[P2-25] Biowaste-Derived Carbons as Anode Materials for Sodium Ion Batteries / **Peng-Hsuan Chiang**

Poster Session 2
[P2-26] Investigation of carbon nanotube-ZnO hybrid nanostructures / **Adam Pander**
[P2-27] The Effects of Hydrogen Chemical Potential on the Graphene Precursors During Transition Metal Graphene CVD. / **Izaac Mitchell**
[P2-28] Study on improvement of heat resistance of boron doped CVD diamond / **Tae-Gyu Kim**
[P2-29] Improvement of Diamond Capsule Quality for Direct-Drive Inertial Confinement Fusion / **Toshihiro Iwasaki**
[P2-30] Highly enhanced photoluminescence of single crystal continuous monolayer WS_2 growth in centimeter-scale by chemical vapor deposition / **Chong-Yo Liu**
[P2-31] The effective passivation on device stability of two-dimensional materials / **Yu-Ling Hsieh**
[P2-32] Annealing with LPHT CVD Diamonds / **Chi-Ray Lee**
[P2-33] Design of Flower-Like Boron-Doped Diamond and Electrochemical Detection of H_2O_2 and Glucose / **Kazuaki Takagi**