

Poster Numbers	 <b>International Conference on the Physics of Semiconductors 2022</b> 27 - 30 June 2022 • International Convention Centre, Sydney @icps2022@arinex.com.au icps2022.org		<b>International Conference on the Physics of Semiconductors 2022</b> 27 - 30 June 2022 International Convention Centre Sydney		
	<b>MONDAY 27 JUNE &amp; TUESDAY 28 JUNE 2022</b>				
<b>2D materials beyond graphene</b>					
1	810: Ultrafast carrier dynamics in van der Waals Bi <sub>2</sub> Se <sub>3</sub> and VSe <sub>2</sub> /Bi <sub>2</sub> Se <sub>3</sub> heterostructure - <b>Prof Sunghun Lee</b>				
2	836: Manybody enhanced spin-valley effects in monolayer MoS <sub>2</sub> - <b>Dr Andreas Stier</b>				
3	876: Tuning the performance of MoS <sub>2</sub> field effect transistors with ALD encapsulation - <b>Miss Teja Potocnik</b>				
4	916: Ellipsometry study on Temperature Dependent Critical Points of monolayer WSe <sub>2</sub> - <b>Prof Young Dong Kim</b>				
<b>Carbon: nanotubes and graphene</b>					
5	998: Magnetic field control of the Franck-Condon coupling of few-electron quantum states - <b>Dr Andreas K. Hüttel</b>				
<b>Charge, valley and spin qubits</b>					
6	404: Readout Of Silicon Spin Qubits Beyond The Singlet-triplet Blockade - <b>Miss Amanda Seedhouse</b>				
7	442: Pulsed Exchange Operation of Two-Qubit Gate in Silicon MOS Quantum Dots - <b>Dr Wee Han Lim</b>				
8	581: Atomic Precision Engineering Of Spin Qubits In Isotopically Pure Silicon. - <b>Mr A F M Saiful Haque Misha</b>				
<b>Material growth, structural properties and characterization, phonons</b>					
9	992: Optimization of the superconductor/semiconductor coupling in InAs/Al hybrid 2DEGs - <b>Dr Filip Krizek</b>				
10	708: Effects of TiN Process Conditions on Ferroelectricity of TiN/Un-doped HfO <sub>2</sub> /TiN MFM Capacitor - <b>Prof Ho-Young Cha</b>				
<b>Electron devices and applications</b>					
11	279: 3D fabrication of Si:P devices using STM for scalable fault tolerant quantum computing - <b>Mr Mitchell Kiczynski</b>				
12	389: A High Sensitivity Single Electron Charge Detector for Few Kelvin Silicon Quantum Computing - <b>Mr Jonathan Yue Huang</b>				
13	628: Enhanced electrostatic coupling between gate-defined silicon quantum dots towards integration with peripheral circuits - <b>Dr Gou Shinkai</b>				
<b>WEDNESDAY 29 &amp; THURSDAY 30 JUNE 2022</b>					
<b>Low dimensional systems (Quantum Hall, transport theory, 1D, 2D)</b>					
14	82: Electric-field control of conductance in metal quantum point contacts - <b>Prof Kenji Shibata</b>				
15	290: Multichannel effects in Transverse Magnetic Focusing - <b>Mr Seokyeong Lee</b>				
17	670: Achieving Balance Of Valley Occupancy In Narrow AlAs Quantum Wells - <b>Dr Alina Khisameeva</b>				
18	900: Electronic Fabry-Perot Interferometer in Open Confocal Cavity - <b>Mr Hwanchul Jung</b>				
19	991: Nearly vanishing tunnel resistance and unusual high mobility in electron bilayers in zero magnetic field - <b>Mr Christian Marty</b>				
<b>Perovskites</b>					
20	893: Time-resolved Kerr rotation of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite nanoplatelets. - <b>Mr Michael Kempf</b>				
21	923: Cesium Gold-based Halide Perovskites: Phase control and Investigating Temperature-dependent Structural and Optical properties - <b>Miss Bhawna Bhawna</b>				
<b>Quantum optics, nanophotonics</b>					
22	752: Telecom wavelength quantum dots and photonic structures for quantum communication - <b>Dr Mohamed Benyoucef</b>				
23	968: A new analytical approach based on the resonant states, evanescent wave and kp-model for light propagation in birefringent optical cavities - <b>Mr Przemysław Oliwa</b>				
<b>Wide-bandgap semiconductors (GaN, SiC, Ga<sub>2</sub>O<sub>3</sub>)</b>					
24	20: Electrical Characterization Of Gallium Nitride Thin Films Synthesized By Electrochemical Deposition - <b>Mr Abdulraoof Idriss Ali</b>				
25	656: Erbium and defect luminescence in silicon carbide nano-pillars - <b>Dr Brett Johnson</b>				
26	955: Understanding the evolution of carbon interstitial related point defects in silicon carbide after thermal injection - <b>Dr Marianne Bathen</b>				