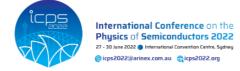
Poster Numbers



## International Conference on the Physics of Semiconductors 2022 27 - 30 June 2022 International Convention Centre Sydney



	MONDAY 27 JUNE & TUESDAY 28 JUNE 2022
2D materials	s beyond graphene
1	810: Ultrafast carrier dynamics in van der Waals Bi2Se3 and VSe2/Bi2Se3 heterostructure - <b>Prof Sunghun Lee</b>
2	836: Manybody enhanced spin-valley effects in monolayer MoS2 - <b>Dr Andreas Stier</b>
3	876: Tuning the performance of MoS2 field effect transistors with ALD encapsulation - Miss Teja Potocnik
4	916: Ellipsometry study on Temperature Dependent Critical Points of monolayer WSe2 - <b>Prof Young Dong Kim</b>
	otubes and graphene
5	998: Magnetic field control of the Franck-Condon coupling of few-electron quantum states - <b>Dr Andreas K. Hüttel</b>
	ey and spin qubits
6	404: Readout Of Silicon Spin Qubits Beyond The Singlet-triplet Blockade - Miss Amanda Seedhouse
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 Mr A F M Saiful Haque Misha wth, structural properties and characterization, phonons
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 HfO2/TiN MFM Capacitor - <b>Prof Ho-Young Cha</b>
Electron devices and applications	
11	279: 3D fabrication of Si:P devices using STM for scalable fault tolerant quantum computing - Mr Mitchell Kiczynski
12	389:A High Sensitivity Single Electron Charge Detector for Few Kelvin Silicon Quantum Computing - Mr Jonathan Yue Huang
13	628: Enhanced electrostatic coupling between gate-defined silicon quantum dots towards integration with peripheral circuits - Dr Gou Shinkai
	WEDENSDAY 29 & THURSDAY 30 JUNE 2022
Low dimensional systems (Quantum Hall, transport theory, 1D, 2D)	
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 - Mr Seokyeong Lee
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 - Mr Christian Marty
Perovskites	
20	893: Time-resolved Kerr rotation of CH3NH3PbI3 perovskite nanoplatelets Mr Michael Kempf
21	
21	923: Cesium Gold-based Halide Perovskites: Phase control and Investigating Temperature-dependent Structural and Optical properties - Miss Bhawna Bhawna
Quantum op	rtics, nanophotonics
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 - Mr Przemysław
	Oliwa
Wide-bandg	ap semiconductors (GaN, SiC, Ga2O3)
24	20: Electrical Characterization Of Gallium Nitride Thin Films Synthesized By Electrochemical Deposition - Mr Abdulraoof Idriss Ali
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 - Dr Marianne Bathen