

Representative Publication of Prof. Kar Wei NG

1. Han, Z. Yan, W. K. Ng, Y. Xue, K. W. Ng, K. S. Wong, K. M. Lau "III–V micro- and nano-lasers deposited on amorphous SiO₂" *Applied Physics Letters* 116 (17), 172102 (2020).
2. J. Y. Dong, W. Y. Ji, S. P. Wang, Q. L. Yuan, Y. C. Kong, S. C. Su, K. W. Ng, Z. K. Tang "Solvent Effects on the Interface and Film Integrity of Solution-Processed ZnO Electron Transfer Layers for Quantum Dot Light Emitting Diodes" *ACS Applied Electronic Materials* 2 (4), 1074-1080 (2020).
3. Y. Y. Zhao, S. N. Qu, X. Y. Feng, J. C. Xu, Y. Yang, S. C. Su, S. P. Wang, K. W. Ng "Tailoring the Photoluminescence Excitation Dependence of the Carbon Dots via an Alkali Treatment" *The journal of physical chemistry letters* 10 (16), 4596-4602 (2019).
4. Han, Q. Li, K. W. Ng, S. Zhu, K. M. Lau "InGaAs/InP quantum wires grown on silicon with adjustable emission wavelength at telecom bands" *Nanotechnology* 29 (22), 225601 (2018).
5. Lu, I. Bhattacharya, H. Sun, T. T. D. Tran, K. W. Ng, G. Silveira, C. J. Chang-Hasnain "Nanopillar quantum well lasers directly grown on silicon and emitting at silicon-transparent wavelengths" *Optica* 4 (7), 717-723 (2017).
6. K Li*, K. W. Ng*, T. T. D. Tran, H. Sun, F. Lu, C. J. Chang-Hasnain "Wurtzite-phased InP micropillars grown on silicon with low surface recombination velocity," *Nano Letters* 15 (11), 7189-7198 (2015) (Authors with * are co-first authors).
7. Q. Li, K. W. Ng, K. M. Lau "Growing antiphase-domain-free GaAs thin films out of highly ordered planar nanowire arrays on exact (001) silicon," *Appl. Phys. Lett.* 106 (7), 072105 (2015).
8. Chen, T. T. D. Tran, K. W. Ng, W. S. Ko, L. C. Chuang, F. G. Sedgwick, C Chang-Hasnain, "Nanolasers grown on silicon" *Nature Photonics* 5 (3), 170-175 (2011).