

Selected journal papers

- [1] H. C. Yeh, M. J. Shelton, Y. H. Tsang, and T. A. King, ‘Fabrication and characterisation of fibre Bragg gratings for near 2 micron operation’, Meas. Sci. Technol. Vol.14, p.1747-52, 2003.
- [2] Y. H. Tsang, D. J. Coleman, and T. A. King, ‘High power $1.9\mu\text{m}$ Tm^{3+} -silica fibre laser pumped at $1.09\mu\text{m}$ by a Yb^{3+} -silica fibre laser’, Opt. Comm., Vol.231, p.357-64, 2004.
- [3] Y. H. Tsang, F. Qamar, T. A. King, D. K. Ko and J. Lee, ‘Nanosecond Q-switched operation of coupled Yb and Tm fibre lasers’, J. Phys. D: Appl. Phys. Vol.38, p.1365-1370, 2005.
- [4] F. Z. Qamar, T. A. King, S. D. Jackson, and Y. H. Tsang, ‘Holmium, Praseodymium-doped fluoride fibre laser operating near $2.87\mu\text{m}$ and pumped with a Nd:YAG laser’, IEEE J. of Lightwave Technology, Vol. 23, No. 12, p.4315-20, 2005.
- [5] Y. H. Tsang, A. El-Taher, T. A. King, and S. D. Jackson, ‘Efficient $2.96\mu\text{m}$ dysprosium-doped ZBLAN fibre laser pumped with a $1.3\mu\text{m}$ Nd:YAG laser’, Optics express, Vol. 14, No. 2, p.678-685, 2006.
- [6] Y. H. Tsang, T. A. King, D. K. Ko, and J. Lee, ‘Output dynamics and stabilisation of a multi-mode double-clad Yb-doped silica fibre laser’, Opt. Comm., Vol. 259, p. 236-241, 2006.
- [7] Y. H. Tsang, T. A. King, D. K. Ko, and J. Lee, ‘Broadband amplified spontaneous emission double-clad fibre source with central wavelengths near $2\mu\text{m}$ ’, J. of Modern Optics, Vol. 53, No. 7, p. 991 – 1001, 2006.
- [8] A. E. El-Taher, Y. H. Tsang, and D. J. Binks, ‘Intra-cavity second-harmonic and sum-frequency generation in a diode-pumped broadband Yb-doped fibre laser’, Opt. Comm., Vol. 266, p. 317-322, 2006.
- [9] D. Xu, Y. Wang, H. Li, J. Yao and Y. H. Tsang ‘104 W high stability green laser generation by using diode laser pumped intracavity frequency-doubling Q-switched composite ceramic Nd:YAG laser’, Optics Express, Vol. 15, No. 7, p.3991, 2007.
- [10] B. Richards, S. Shen, A. Jha, Y. Tsang, and D. Binks, ‘Infrared emission and energy transfer in Tm^{3+} , Tm^{3+} - Ho^{3+} and Tm^{3+} - Yb^{3+} -doped tellurite fibre’, Optics Express, Vol. 15, No. 11, p.6546-51, 2007.
- [11] B. Richards, Y. Tsang, D. Binks, J. Lousteau, and A. Jha, ‘Efficient $\sim 2\mu\text{m}$ Tm^{3+} -doped tellurite fiber laser’, Optics Letters, Vol. 33, No. 4, p.402-4, 2008.
- [12] Y. Tsang, B. Richards, D. Binks, J. Lousteau, and A. Jha, ‘ $\text{Tm}^{3+}/\text{Ho}^{3+}$ codoped tellurite fiber laser’, Optics Letters, Vol. 33, No. 11, p.1282-4, 2008.
- [13] Y. Tsang, B. Richards, D. Binks, J. Lousteau, and A. Jha, ‘A $\text{Yb}^{3+}/\text{Tm}^{3+}/\text{Ho}^{3+}$ triply-doped tellurite fibre laser’, Optics Express, Vol. 16, No. 14, p.16690-5, 2008.
- [14] B. Richards, Y. Tsang, D. Binks, J. Lousteau, and A. Jha, ‘ $\sim 2\mu\text{m}$ $\text{Tm}^{3+}/\text{Yb}^{3+}$ -doped tellurite fibre laser’, J. of Materials Science: Materials in Electronics, Vol. 20, p. 317-320, 2009.
- [15] Y. H. Tsang, and D. J. Binks, ‘Record performance from a Q-switched $\text{Er}^{3+}:\text{Yb}^{3+}:\text{YVO}_4$ laser’, Applied Physics B – Lasers and Optics, Vol. 96, p.11, 2009.

- [16] B. Richards, A. Jha, Y. Tsang, D. Binks, J. Lousteau, F. Fusari, A. Lagatsky, C. Brown, and W. Sibbett, ‘Tellurite glass lasers operating close to $2\mu\text{m}$ ’, *Laser Physics Letters*, Vol. 7, issue 3, p.177-193, 2010.
- [17] N. Wang, L. Lei, X. M. Zhang, Y. H. Tsang, Y. Chen, and Helen L. W. Chan, ‘A comparative study of preparation methods of nanoporous TiO_2 films for microfluidic photocatalysis’, *Microelectronic Engineering*, 88, 2797-9, 2011.
- [18] Y. H. Tsang, D. J. Binks, B. D. O. Richards, and A. Jha, ‘Spectroscopic and lasing studies of $\text{Ce}^{3+}:\text{Er}^{3+}:\text{Yb}^{3+}:\text{YVO}_4$ crystals’, *Laser Physics Letters*, Vol. 8, No. 10, p.729, 2011.
- [19] Y. H. Tsang, and Atall E. El-Taher, ‘Efficient lasing at near $3\mu\text{m}$ by a Dy-doped ZBLAN fiber laser pumped at $\sim 1.1\mu\text{m}$ by an Yb fiber laser’, *Laser Physics Letters*, Vol. 8, No. 11, p.818, 2011.