

Femtosecond optical parametric oscillators and frequency combs

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Since Burneika's first demonstration in 1972 of a synchronously pumped optical parametric oscillator (OPO), this technology has evolved and matured considerably. I will introduce concepts underpinning femtosecond OPOs, typical architectures, modelling approaches, principles of phase control and several key applications in areas of sensing and metrology.

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