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Digital Photonic Synthesis Of Ultra

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[1506.03095] Digital-photonic synthesis of ultra-low noise ...

W-band digital-photonic synthesis
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tiply X-band signals to the W-band (32,33).

Digital-photonic synthesis of ultra-low noise tunable ...

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Ultra-fast Photonics | UCL Department of Electronic and ...

Herein, we established a rational strategy for the synthesis of highly efficient ultra-narrow red-emitting CQDs by adopting a conjugated aromatic amine precursor (tris (4-aminophenyl)amine, TAPA) and introducing oxidative radical reagents. The resultant CQDs, T-CQDs featured red PL (615 ± 2 nm) with a high photoluminescence quantum yield ($84 \pm 5\%$) and a narrow emission linewidth ($\text{FWHM} = 27 \pm 1$ nm), which together represented one of the highest levels in the field of CQDs so far.

Rational synthesis of highly efficient ultra-narrow red ...

SPIE Digital Library Proceedings. 15 September 1995 Ultrastructure synthesis

of special architectures for photonic applications: high-frequency electro-optic modulators and high-density optical memories

Ultrastructure synthesis of special architectures for ...

Abstract: We demonstrate photonic synthesis of broadband radio-frequency (RF) waveforms suitable for ultra-wide bandwidth (UWB) systems via open-loop reflection-mode dispersive Fourier transform optical pulse shaping. Using this technique, we synthesize broadband burst, monocycle and pulsed waveforms with RF bandwidths ranging from /spl sim/1-8 GHz.

Photonic synthesis of broadband microwave arbitrary ...

Because the signal is digitized, this type of RF photonic links offers the possibility to improve the linearity by performing additional digital signal processing [102]. Photonic sampling has been explored since the early years of mode-locked lasers [106], but the prospect for ADC lies in the broad bandwidth and low timing and amplitude jitters available from mode-locked lasers [103].

Optical frequency comb technology for ultra-broadband ...

Quantum-photonics project will build demonstrators for transmitting and receiving qubits with the aim of delivering ultra-secure data. Looking to deliver hack-proof digital communication, CEA-Leti has plans to build a quantum-photonics platform to develop next-generation technologies for key industries that require ultra-secure data

CEA-Leti to build quantum-photonics platform

Photonic synthesis of high fidelity microwave arbitrary waveforms using near field frequency to time mapping Amir Dezfooliyan^{1,*} and Andrew M. Weiner^{1,2} ¹ School of Electrical and Computer Engineering, Purdue University, 465 Northwestern Avenue, West Lafayette, Indiana 47907-2035, USA

Photonic synthesis of high fidelity microwave arbitrary ...

Abstract. Photonic integration opens the potential to reduce size, power, and cost of applications normally relegated to table- and rack-sized systems. Today, a wide range of precision, high-end, ultra-sensitive, communication and computation, and measurement and scientific applications, including atomic clocks, quantum communications, processing, and high resolution spectroscopy, are ready to make the leap from the lab to the chip.

Photonic integration for UV to IR applications: APL ...

The continuous synthesis of robust CDs-P(MMA-BA-MAA) hybrid microbeads starts from preparation of CDs via a facile solvothermal synthesis (Fig. S1a) and P(MMA-BA-MAA) colloidal particles via seed emulsion polymerization (Fig. S1b). The CDs are amine-rich, environmentally friendly and cost-effective, together with good PL properties with quantum yield of 82% and half-peak width of 68 nm.

Microfluidic synthesis of robust carbon dots ...

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Abstract—An ultra-low-noise photonic microwave synthesizer based on a compact frequency comb is transferring the spectral purity of an ultra-stable-laser down to a 12 GHz carrier with residual...

Compact Ultra-low-noise Photonic

Microwave Synthesizer

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