

# IEEE 半导体行业快报

- ◇ 行业新闻
- ◇ 热点期刊论文
- ◇ 热点会议论文

2014 年第 3 期,总第 3 期

## 行业新闻

- Intel's 14nm puzzle: As Skylake details leak, everybody asks – is the chip ... - ExtremeTech
- Intel at IDF: 14nm CPUs and 10nm wafers to be shown off - TweakTown
- Apple's New 20nm A8 Chip Clocks over 2.0 GHz per Core and Beats A7 in ... - International Business Times UK
- Intel to demonstrate 14nm chips, 10nm wafers in September - KitGuru
- TSMC Ships 20nm iPhone Processors to Apple & Plans for 2015 - Patently Apple
- Intel to unveil 14nm processors and 10nm wafers at IDF San Francisco - Digitimes
- TSMC is finally making 20nm parts for Apple's next-gen iPhone, iPad - ExtremeTech
- IBM invests \$3bn in graphene semiconductor research - DatacenterDynamics
- News & Analysis Panasonic to Make 14nm SoCs at Intel - EE Times
- Rumor: Samsung lands orders to trial 14nm Apple 'A9' chips at New York fab - Apple Insider

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## 热点期刊论文 (本期为您推荐 IEEE Transactions on Circuits and Systems II: Express Briefs)



- An Energy-Efficient Low Frequency-Dependence Switching Technique for SAR ADCs
- A Capacitorless LDO Regulator With Fast Feedback Technique and Low-Quiescent Current Error Amplifier
- A 0.4-V, 90  $\mu$ s 350-MHz PLL With an Active Loop-Filter Charge Pump
- A 6-bit 1-GS/s Two-Step SAR ADC in 40-nm CMOS
- A Wideband Dual-Mode  $\Delta\Sigma$ -VCO With a Switchable Gate-Biased Active Core

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## 热点会议论文 (本期为您推荐 2014 IEEE Radio Frequency Integrated Circuits Symposium)



- A 2.3 pJ/bit frequency-stable impulse OOK transmitter powered directly by an RF energy harvesting circuit with  $-19.5$  dBm sensitivity
- A low-power digitally controlled wideband FM transceiver
- A blocker-tolerant RF front end with harmonic-rejecting N-path filtering
- An integrated CMOS passive transmitter leakage suppression technique for FDD Radios
- A compact 24–54 GHz CMOS band-pass distributed amplifier for high fractional bandwidth signal amplification

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