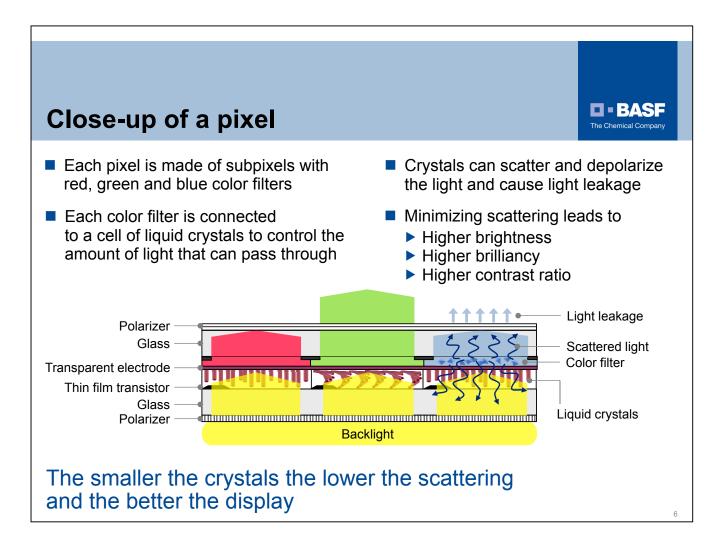
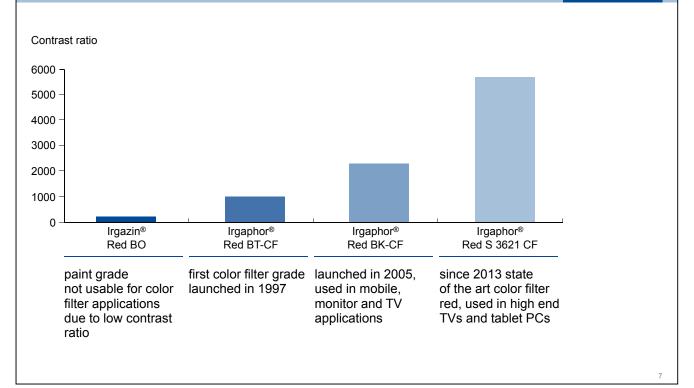
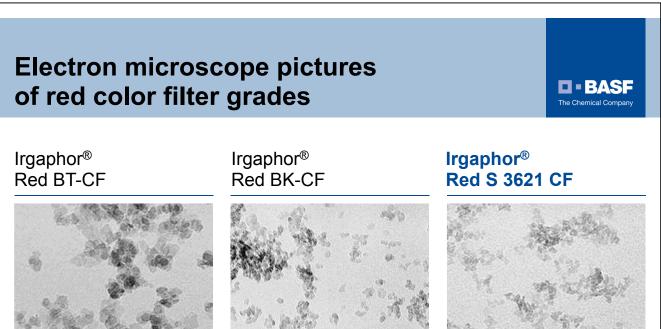


Liquid crystals as a light switch 🗆 = BASF **Dark state** Applying a voltage between Non-polarized the alignment layers causes white backlight the liquid crystals to stand upright Polarizer Polarized light passes through liquid crystal cell without being twisted Alignment layer Liquid crystals Light cannot pass second polarizer Alignment layer Polarizer Display is dark

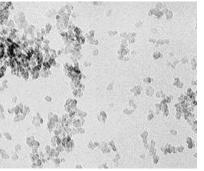


Development of red color filter grades





[ca. 80nm] Contrast ratio: 1000



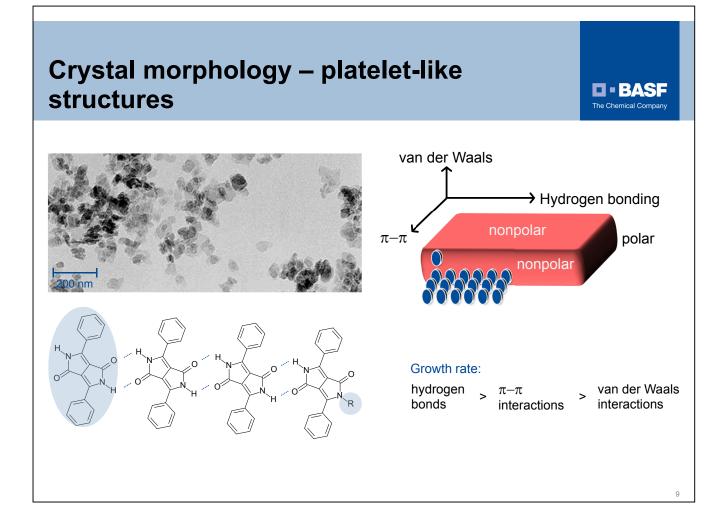
[ca. 40nm] Contrast ratio: 2500

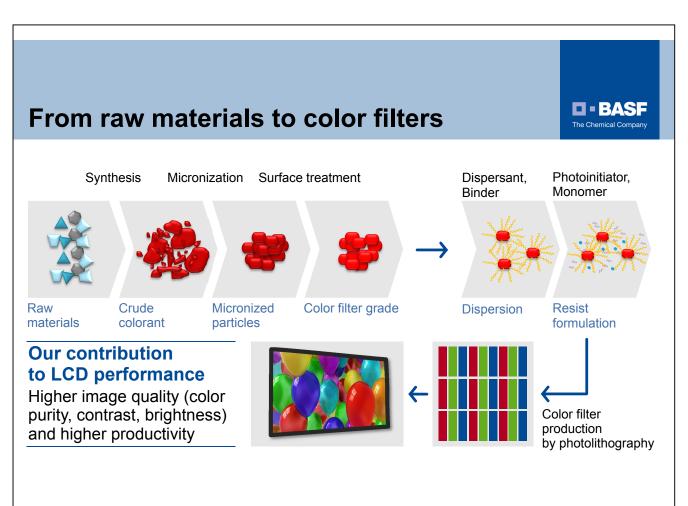
Contrast ratio > 5500

[< 40nm]

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The Chemical Con





BASF Research Press Conference on May 27, 2014

Nanotechnology Small dimensions – great opportunities

