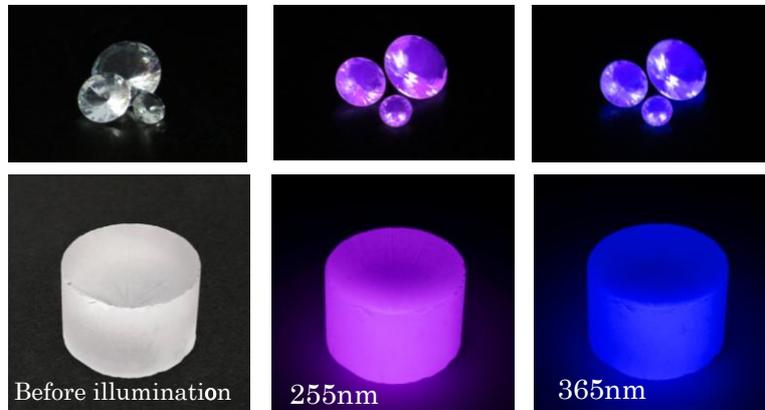


**Canon Optron develops new inorganic fluorescent material  
that changes color under different light sources**

Color changes under different light wavelengths

IBARAKI, Japan, April 27, 2017—Canon Optron Inc. announced in Japanese on April 12 that it has successfully developed a new fluorescent material, FLUOBRIGHT<sup>+</sup>. This new material emits a different color depending on whether it is illuminated with ordinary ultraviolet (UV) light, which has a wavelength of around 365 nm, or UV light with a wavelength of approximately 255 nm, which is used for such purposes as sterilization. Additionally, the new material achieves a lasting durability that makes it suitable for a wide range of applications.

FLUOBRIGHT<sup>+</sup> is a two-color fluorescent material primarily composed of fluorite (CaF<sub>2</sub>), a safe-to-handle, naturally occurring mineral that has little environmental impact. This single material can emit different vibrant colors depending on whether it is illuminated by UV light with wavelengths of 365 nm or 255 nm. What's more, as an inorganic material, FLUOBRIGHT<sup>+</sup> is much less susceptible to the emission intensity losses or color shifts that occur when organic fluorescent materials are exposed to UV light for long periods of time, making it ideal for use in a variety of situations where conventional materials have proved insufficient.

FLUOBRIGHT<sup>+</sup> is a solid crystal that can be fabricated in block form to suit specific processes and applications or be combined with other materials in powder form. Additionally, due to its high translucence, this new material is expected to be used for such wide-ranging applications as anti-counterfeiting measures for ornaments and illumination range and wavelength verification for UV-emitting equipment.

FLUOBRIGHT<sup>+</sup> will go on sale in Japan from early May, 2017.

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