

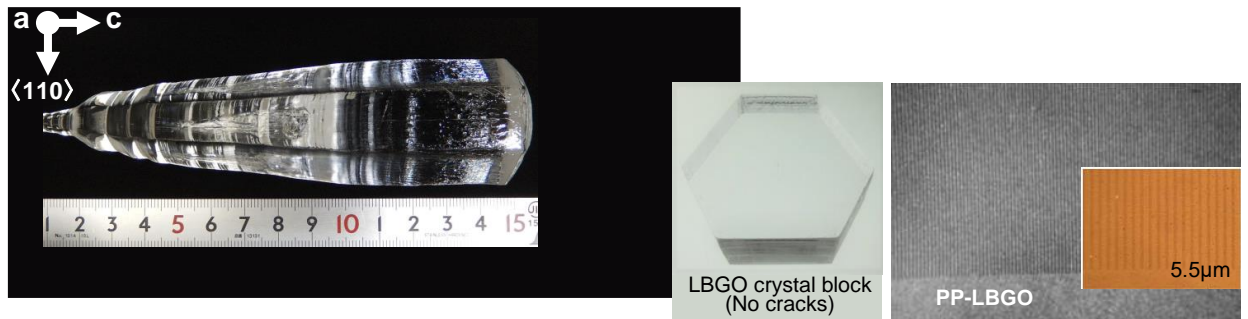
PP-LBGO

(Periodically-poled LaBGeO5)

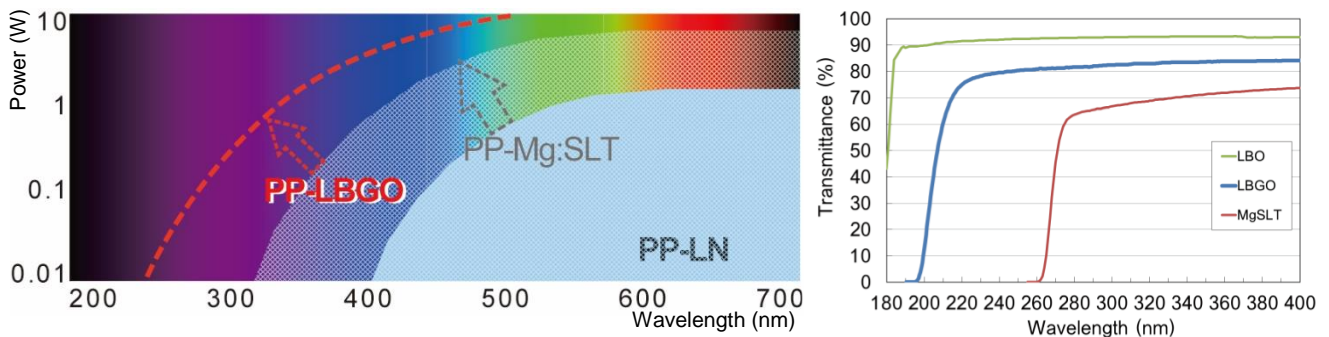
Novel QPM device for UV Applications

Remarkable Features

- ✓ Non-walk-off (QPM)
- ✓ Non Hygroscopy
- ✓ Shorter Cut-Off Wavelength (<200nm)



Remarkable Features



Material Parameters (for 355nm generation)

	LBO Type I	LBO Type II	BBO	CLBO	PP-LBGO*	PP-Mg:SLT (3rd order)
Walk-off ρ (mrad)	18.15	9.37	72.30	37.13	Non	Non
Nonlinear coefficient d_{eff} ($\mu\text{m/V}$)	0.72	0.53	2.02	0.52	0.61 ($d_{33}=0.96$)	3.00
QPM periodicity Λ (μm)					6.4	6.6
Cut-off wavelength (nm)	160	160	185	180	195	265
Hygroscopy	Weak	Weak	Strong	Very strong	Non	Non

Above parameters are examples for 355 nm generation.

*I. Shoji et al., Advanced Photonics 2018 (Optical Society of America, 2018), paper NoM3J.5

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