Supporting Information

Triethylene glycol-titanium oxide hydrate hybrid films with high refractive index and surface evenness

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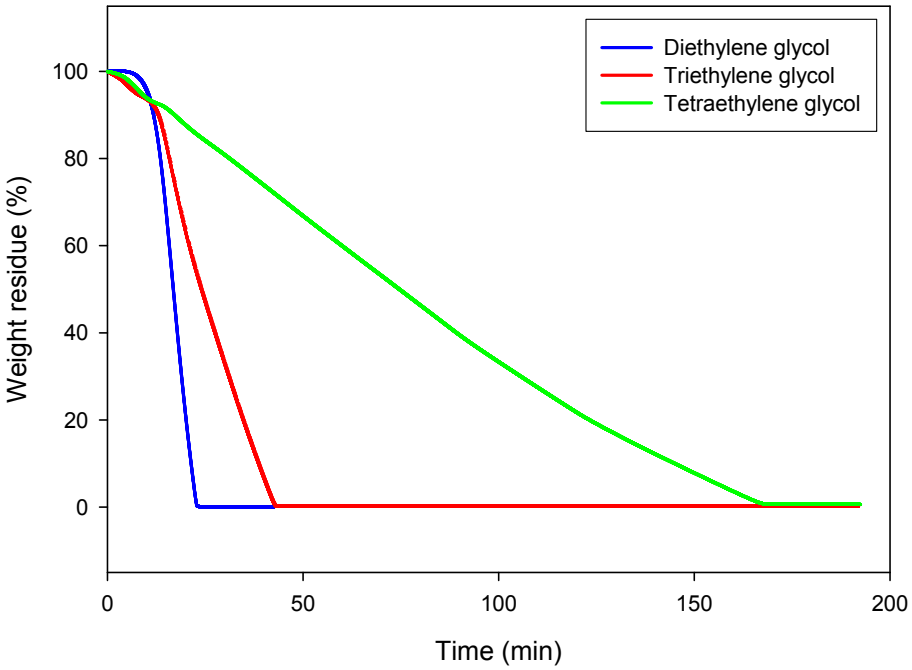

Fig. S1 Isothermal TGA thermograms of three diol compounds.

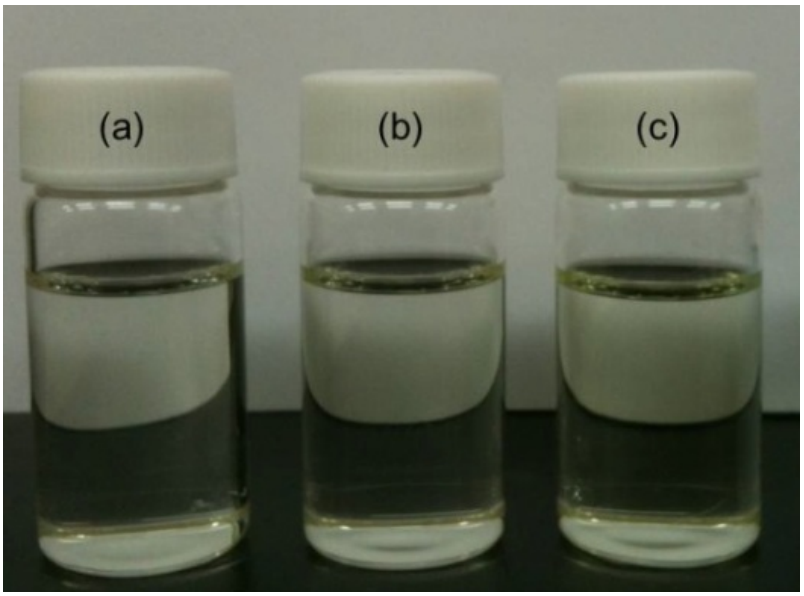

Fig. S2 Photographs of organic-inorganic hybrid solutions prepared from triethylene glycol and titanium (Ⅳ) butoxide according to the feeding mole ratio: triethylene glycol/titanium (Ⅳ) butoxide=2/1 (a); 1/2 (b); 1/4 (c).

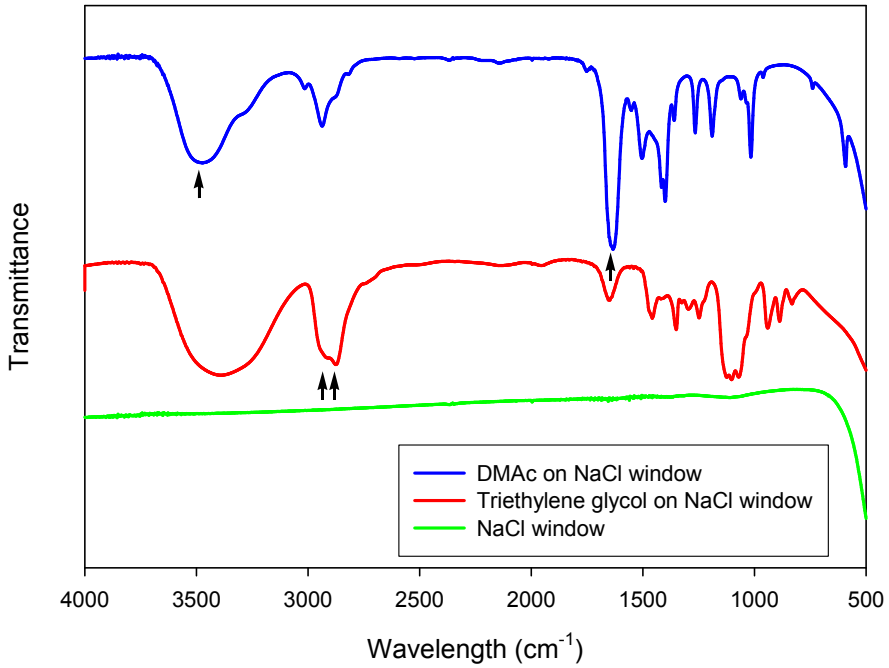

Fig. S3 IR spectra of DMAc, triethylene glycol, and NaCl window.

Table S1 Atomic concentration of the hybrid film[a] surface.

Feeding mole ratio \ Atom		Ti (%)	C(%)	O(%)
Triethylene glycol/ Titanium (Ⅳ) butoxide	2/1	12.12	44.11	43.78
	1/2	12.83	44.11	43.06
	1/4	18.38	31.75	49.87

[a]Annealed at 250 ℃ under N_2 for 2 h.

Table S2 Thickness of the hybrid films fabricated from hybrid solutions as a function of annealing temperature.

Annealing temperature (℃) / Feeding mole ratio		150	200	250
Triethylene glycol/ Titanium (Ⅳ) butoxide	2/1	211	133	95
	1/2	265	190	123
	1/4	288	226	103

Unit: nm