Supporting information

Hollow Rod-like MgF₂ with Ultra-low Refractive Index for Preparation of Multifunctional

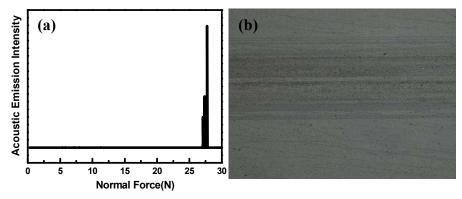
Antireflective Coatings

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S1: SiO_2 -MgF₂ double coatings' mechanical properties. (a) Acoustic emission spectrum of scratches between the coatings and the substrate. (b) Scratches by 6 H pencil on the surface of the coatings.



 $S1~SiO_2$ -MgF $_2$ double coatings' mechanical properties. (a) Acoustic emission spectrum of scratches between the coatings and the substrate. (b) Scratches by 6 H pencil on the surface of the coatings.